2022 ANNUAL REPORT

INDUSTRIAL WASTE PRETREATMENT PROGRAM

LOS ANGELES COUNTY SANITATION DISTRICTS

ROBERT C. FERRANTE
CHIEF ENGINEER AND GENERAL MANAGER

SUBMITTED
April 13, 2023

APPENDIX G
PRIORITY POLLUTANT MONITORING AT TREATMENT PLANTS WHICH ACCEPT INDUSTRIAL WASTEWATER

This Appendix contains the results from priority pollutant monitoring at the District's treatment plants which accept industrial wastewater.

Joint Water Pollution Control Plant Influent Monitoring

Joint Water Pollution Control Plant Effluent Monitoring

Joint Water Pollution Control Plant Biosolids Monitoring

Lancaster WRP Influent Monitoring

Lancaster WRP Effluent Monitoring

Lancaster WRP Biosolids Monitoring

Long Beach WRP Influent Monitoring

Long Beach WRP Effluent Monitoring

Los Coyotes WRP Influent Monitoring

Los Coyotes WRP Effluent Monitoring

Palmdale WRP Influent Monitoring

Palmdale WRP Effluent Monitoring

Palmdale WRP Biosolids Monitoring

Pomona WRP Influent Monitoring

Pomona WRP Effluent Monitoring

San Jose Creek WRP, East, Influent Monitoring

San Jose Creek WRP, East, Effluent Monitoring

San Jose Creek WRP, West, Influent Monitoring

San Jose Creek WRP, West, Effluent Monitoring

Saugus WRP Influent Monitoring

Saugus WRP Effluent Monitoring

Valencia WRP Influent Monitoring

Valencia WRP Effluent Monitoring

Valencia WRP Biosolids Monitoring

Whittier Narrows WRP Influent Monitoring

Whittier Narrows WRP Effluent Monitoring

This language applies for data included for the Joint Water Pollution Control Plant (JWPCP) and the Long Beach, Los Coyotes, Pomona, San Jose Creek, Saugus, Valencia, and Whittier Narrows Water Reclamation Plants (WRPs).

1. ORGANIZATION OF THE DATA

Flow and laboratory data sets are presented in separate tables, and statistical summaries follow the data. These data summaries may contain results that were not reported in monthly monitoring reports. Additional data can result from sampling conducted for purposes other than routine monitoring. The additional sampling may have been performed by other agencies (i.e., Regional Board or USEPA) or by the Sanitation Districts for research or as a follow-up to a questionable sample.

2. DETECTION LIMITS

Information in the annual report regarding detection limits is consistent with reporting requirements in the effective permits for the treatment plants. The Method Detection Level (MDL) and Minimum Level (ML)/Reporting Level (RL) for each constituent may have varied throughout the year. These are included directly in the tabular data as a range over the calendar year. Sample results are reported in accordance with the methodology listed below.

1. Sample results greater than or equal to the RL are reported "as measured" by the laboratory (i.e., the measured chemical concentration of the sample).

2. Sample results less than the RL, but greater than or equal to the laboratory's MDL, are reported as "Detected, but Not Quantified", or DNQ. The estimated chemical concentration of the sample is shown as "DNQ, Est. Conc.=___".

3. Sample results less than the laboratory's MDL are reported as "Not Detected", or ND.

3. DATA CALCULATIONS

Calculations of Sums

A few parameters, such as DDT and PCBs, are reported as sums. In those cases, the total detected DDT and total detected PCBs are shown. Results that are below the RL are not included in the sum. Consequently, if none of the isomers/congeners was detected, the total is reported as "ND".

Calculations of Averages

The following conventions are used in the annual report for data when more than one result is available and an average is determined:

- Monthly Averages

  If the data are all detected, an arithmetic average is calculated. When one or more sample results contain one or more reported determinations of DNQ or ND, a median is used in place of the arithmetic mean in accordance with the following procedure:

1. The sample results are ranked from low to high, with reported ND determinations lowest, DNQ determinations next, and finally quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.

2. The median value of the sample results is determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or both of the points are ND or DNQ, in which case the median value is the lowest of the two data points where DNQ is lower than a quantified value and ND is lower than DNQ.

- Annual Averages

  If the monthly data are all detected, an arithmetic average is calculated. If both detected and ND and/or DNQ data are available, each ND and DNQ value is averaged as a zero with the detected values. If an average of zero is calculated it will be reported as an average of ND.

4. PERMIT LIMITS

A single plant may have several permits and several sets of limits, which, at a maximum, consist of the following:

- **NPDES Permit Limits** for discharge to navigable waterways.

- **Waste Discharge Requirements** for disposal to sites other than those covered by NPDES requirements (e.g., Lancaster and Palmdale WRPs).

- **Reuse Permit Limits** for nonpotable use in irrigation, impoundments, etc.

- **Recharge Limits** for groundwater replenishment in the Montebello Forebay.

Reuse permit limits are not shown in the effluent table. The permits limits may be expressed in terms of an instantaneous maximum, daily average, 7-day average, weekly average, 30-day average, monthly average, and/or 12-month average.

5. PERFORMANCE GOALS

The JWPCP NPDES permit includes effluent quality performance goals for 69 constituents. Selected effluent quality performance goals were assigned for constituents that are regularly detected, and were numerically set using effluent performance data for the period of November 2002 to August 2005 to determine the 95th percentile of the normal distribution. Other constituents that were not detected were assigned performance goals five times (for carcinogens and marine aquatic life toxicants) or ten times (for noncarcinogens) the minimum reporting limits in the 2004 annual report. In other cases, the maximum detected effluent concentration from November 2002 to August 2005 was prescribed as the performance goal.

The performance goals are intended to reflect extreme (i.e., 95th percentile) historical values in plant effluent quality, which resulted from normal variability in the plant operation, the influent water quality, etc. The performance goals are not intended to determine compliance. Instead, the objective of the performance goals is to monitor plant performance by comparing effluent water quality data to the performance goal. For example, a single exceedance of a performance goal may be the result of normal

variability in the data, since such an exceedance can be expected occasionally (i.e., 5 percent of the time) for performance goals set at the 95th percentile. However, if an exceedance of the same goal persists, it may indicate a substantial change in plant performance, influent quality, or other causes not explained by normal and expected variability. In such cases, the JWPCP permit requirements state that the discharger must investigate the reason for the continuing exceedance of the performance goal.

JWPCP Influent Monitoring

Table 4.3
JWPCP
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022
1,1,1-Trichloroethane	ug/L	ND						ND		
1,1,2,2-Tetrachloroethane	ug/L	ND						ND		
1,1,2-Trichloroethane	ug/L	ND						ND		
1,1-Dichloroethylene	ug/L	ND						ND		
1,2,3,4,6,7,8-HeptaCDD	pg/L	DNQ Est. Conc. 24 (i)			ND			DNQ Est. Conc. 20 (i)		
1,2,3,4,6,7,8-HeptaCDF	pg/L	ND			ND			DNQ Est. Conc. 8.4 (i)(ii)		
1,2,3,4,7,8,9-HeptaCDF	pg/L	ND			ND			ND		
1,2,3,4,7,8-HexaCDD	pg/L	ND			DNQ Est. Conc. 4.6 (ii)			ND		
1,2,3,4,7,8-HexaCDF	pg/L	ND			DNQ Est. Conc. 3.8			DNQ Est. Conc. 4.1		
1,2,3,6,7,8-HexaCDD	pg/L	ND			DNQ Est. Conc. 3.5 (ii)			DNQ Est. Conc. 2.7 (ii)		
1,2,3,6,7,8-HexaCDF	pg/L	ND			DNQ Est. Conc. 3.1			DNQ Est. Conc. 2.6 (ii)		
1,2,3,7,8,9-HexaCDD	pg/L	DNQ Est. Conc. 3.8 (ii)			ND			ND		
1,2,3,7,8,9-HexaCDF	pg/L	ND			DNQ Est. Conc. 4.3			ND		
1,2,3,7,8-PentaCDD	pg/L	ND			ND			ND		
1,2,3,7,8-PentaCDF	pg/L	ND			DNQ Est. Conc. 3.0 (ii)			DNQ Est. Conc. 3.5		
1,2-Dichlorobenzene	ug/L	ND			ND			ND		
1,2-Dichloroethane	ug/L	ND						ND		
1,2-Diphenylhydrazine	ug/L	ND						ND		
1,3-Dichlorobenzene	ug/L	ND			ND			ND		
1,3-Dichloropropene	ug/L	ND						ND		
1,4-Dichlorobenzene	ug/L	ND						ND		
2,3,4,6,7,8-HexaCDF	pg/L	ND			DNQ Est. Conc. 4.1 (ii)			DNQ Est. Conc. 3.0		
2,3,4,7,8-PentaCDF	pg/L	ND			DNQ Est. Conc. 4.2			DNQ Est. Conc. 2.5		
2,3,7,8-TCDD	pg/L	ND			ND			ND		
2,3,7,8-TetraCDF	pg/L	ND			DNQ Est. Conc. 1.2			DNQ Est. Conc. 2.6 (ii)		
2,4'-DDD	ug/L	ND			ND			ND		
2,4'-DDE	ug/L	ND			ND			ND		
2,4'-DDT	ug/L	ND			ND			ND		
2,4,6-Trichlorophenol	ug/L	DNQ Est. Conc. 18.0			ND			21.3		
2,4-Dichlorophenol	ug/L	ND			ND			ND		
2,4-Dimethylphenol	ug/L	24.1						38.5		
2,4-Dinitrophenol	ug/L	ND						ND		
2,4-Dinitrotoluene	ug/L	ND						ND		
2-Chloroethylvinyl ether	ug/L	ND						DNQ Est. Conc. 0.47		
2-Chlorophenol	ug/L	ND			ND			DNQ Est. Conc. 9.9		
2-methyl-4,6-dinitrophenol	ug/L	ND						ND		
2-Nitrophenol	ug/L	ND						ND		
3,3'-Dichlorobenzidine	ug/L	ND						ND		
4,4'-DDD	ug/L	ND			ND			ND		
4,4'-DDE	ug/L	ND			ND			ND		
4,4'-DDT	ug/L	ND			ND			ND		
4-Chloro-3-methylphenol	ug/L	ND			ND			ND		
4-Nitrophenol	ug/L	ND						ND		
Acenaphthylene	ug/L	ND			ND			ND		
Acrolein	ug/L	ND						ND		
Acrylonitrile	ug/L	ND						ND		
Aldrin	ug/L	ND						ND		
alpha-hexachlorocyclohexane	ug/L	ND						ND		
Ammonia Nitrogen	mg/L	48.3	50.1	48.1	46.9	50.1	46.8	47.9	44.2	41.1
Anthracene	ug/L	ND			ND			ND		
Antimony	ug/L	2.60			2.82			2.36		
Aroclor 1016	pg/L	ND			ND			ND		
Aroclor 1221	pg/L	ND			ND			ND		
Aroclor 1232	pg/L	ND			ND			ND		
Aroclor 1242	pg/L	ND			ND			ND		
Aroclor 1248	pg/L	ND			ND			ND		
Aroclor 1254	pg/L	ND			ND			ND		
Aroclor 1260	pg/L	ND			ND			ND		
Arsenic	ug/L	5.92			4.48			6.14		
Benzene	ug/L	56.9						12.6		
Benzidine	ug/L	ND								ND
Benzo(a)anthracene (1,2-benzanthracene)	ug/L	ND			ND			ND		
Benzo(a)pyrene	ug/L	ND			ND			ND		

Table 4.3
JWPCP
2022 INF-001 Monitoring Results

Parameter	Units	October 2022	November 2022	December 2022	Monthly Average			Method	ML	MDL	RL
					Minimum	Average	Maximum				
1,1,1-Trichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.13	0.50
1,1-Dichloroethylene	ug/L				ND	ND	ND	EPA 624.1		0.21	0.50
1,2,3,4,6,7,8-HeptaCDD	pg/L	ND			ND	ND	DNQ Est. Conc. 24 (i)	EPA 1613B		0.33 - 1.0	47 - 52
1,2,3,4,6,7,8-HeptaCDF	pg/L	ND			ND	ND	DNQ Est. Conc. 8.4 (i)(ii)	EPA 1613B		1.2 - 2.3	47 - 52
1,2,3,4,7,8,9-HeptaCDF	pg/L	ND			ND	ND	ND	EPA 1613B		1.3 - 2.6	47 - 52
1,2,3,4,7,8-HexaCDD	pg/L	ND			ND	ND	DNQ Est. Conc. 4.6 (ii)	EPA 1613B		0.36 - 0.75	47 - 52
1,2,3,4,7,8-HexaCDF	pg/L	ND			ND	ND	DNQ Est. Conc. 4.1	EPA 1613B		0.23 - 0.67	47 - 52
1,2,3,6,7,8-HexaCDD	pg/L	ND			ND	ND	DNQ Est. Conc. 3.5 (ii)	EPA 1613B		0.41 - 0.78	47 - 52
1,2,3,6,7,8-HexaCDF	pg/L	ND			ND	ND	DNQ Est. Conc. 3.1	EPA 1613B		0.23 - 0.66	47 - 52
1,2,3,7,8,9-HexaCDD	pg/L	ND			ND	ND	DNQ Est. Conc. 3.8 (ii)	EPA 1613B		0.35 - 0.69	47 - 52
1,2,3,7,8,9-HexaCDF	pg/L	ND			ND	ND	DNQ Est. Conc. 4.3	EPA 1613B		0.22 - 0.77	47 - 52
1,2,3,7,8-PentaCDD	pg/L	ND			ND	ND	ND	EPA 1613B		2.1 - 2.5	47 - 52
1,2,3,7,8-PentaCDF	pg/L	DNQ Est. Conc. 2.3 (ii)			ND	ND	DNQ Est. Conc. 3.5	EPA 1613B		0.44 - 0.99	47 - 52
1,2-Dichlorobenzene	ug/L	ND			ND	ND	ND	EPA 624.1		0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.22	0.50
1,2-Diphenylhydrazine	ug/L				ND	ND	ND	EPA 625.1		0.63	20.0
1,3-Dichlorobenzene	ug/L	ND			ND	ND	ND	EPA 624.1		0.13 - 0.15	0.50
1,3-Dichloropropene	ug/L				ND	ND	ND	Calculated		Not Applicable	Not Applicable
1,4-Dichlorobenzene	ug/L				ND	ND	ND	EPA 624.1		0.16 - 0.25	0.50
2,3,4,6,7,8-HexaCDF	pg/L	ND			ND	ND	DNQ Est. Conc. 4.1 (ii)	EPA 1613B		0.21 - 0.66	47 - 52
2,3,4,7,8-PentaCDF	pg/L	DNQ Est. Conc. 2.4 (ii)			ND	ND	DNQ Est. Conc. 4.2	EPA 1613B		0.45 - 1.1	47 - 52
2,3,7,8-TCDD	pg/L	ND			ND	ND	ND	EPA 1613B		0.92 - 1.3	9.5 - 10
2,3,7,8-TetraCDF	pg/L	DNQ Est. Conc. 1.7 (ii)			ND	ND	DNQ Est. Conc. 2.6 (ii)	EPA 1613B		0.49 - 1.1	9.5 - 10
2,4'-DDD	ug/L	ND			ND	ND	ND	EPA 608.3		0.003	0.10
2,4'-DDE	ug/L	ND			ND	ND	ND	EPA 608.3		0.003	0.10
2,4'-DDT	ug/L	ND			ND	ND	ND	EPA 608.3		0.005	0.10
2,4,6-Trichlorophenol	ug/L	ND			ND	5.32	21.3	EPA 625.1		0.64	20.0
2,4-Dichlorophenol	ug/L	ND			ND	ND	ND	EPA 625.1		0.60	20.0
2,4-Dimethylphenol	ug/L				24.1	31.3	38.5	EPA 625.1		0.44	20.0
2,4-Dinitrophenol	ug/L				ND	ND	ND	EPA 625.1		1.5	100
2,4-Dinitrotoluene	ug/L				ND	ND	ND	EPA 625.1		0.37	20.0
2-Chloroethylvinyl ether	ug/L				ND	ND	DNQ Est. Conc. 0.47	EPA 624.1		0.18 - 0.28	0.50
2-Chlorophenol	ug/L	ND			ND	ND	DNQ Est. Conc. 9.9	EPA 625.1		0.41	20.0
2-methyl-4,6-dinitrophenol	ug/L				ND	ND	ND	EPA 625.1		1.3	100
2-Nitrophenol	ug/L				ND	ND	ND	EPA 625.1		0.31	20.0
3,3'-Dichlorobenzidine	ug/L				ND	ND	ND	EPA 625.1		0.54	20.0
4,4'-DDD	ug/L	ND			ND	ND	ND	EPA 608.3		0.003	0.10
4,4'-DDE	ug/L	ND			ND	ND	ND	EPA 608.3		0.002	0.10
4,4'-DDT	ug/L	ND			ND	ND	ND	EPA 608.3		0.004	0.10
4-Chloro-3-methylphenol	ug/L	ND			ND	ND	ND	EPA 625.1		0.69	20.0
4-Nitrophenol	ug/L				ND	ND	ND	EPA 625.1		1.6	100
Acenaphthylene	ug/L	ND			ND	ND	ND	EPA 625.1		0.50	20.0
Acrolein	ug/L				ND	ND	ND	EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L				ND	ND	ND	EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L				ND	ND	ND	EPA 608.3		0.002	0.05
alpha-hexachlorocyclohexane	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Ammonia Nitrogen	mg/L	45.6	42.7	50.8	41.1	46.9	50.8	SM 4500 NH3 C/SM 4500 NH3 H		0.020 - 1.37	1.00 - 10.0
Anthracene	ug/L	ND			ND	ND	ND	EPA 625.1		0.56	20.0
Antimony	ug/L	2.60			2.36	2.60	2.82	EPA 200.8	0.5	0.12	0.50
Aroclor 1016	pg/L	ND			ND	ND	ND	EPA 608.3		0.12	5.0
Aroclor 1221	pg/L	ND			ND	ND	ND	EPA 608.3		0.12	5.0
Aroclor 1232	pg/L	ND			ND	ND	ND	EPA 608.3		0.12	5.0
Aroclor 1242	pg/L	ND			ND	ND	ND	EPA 608.3		0.12	5.0
Aroclor 1248	pg/L	ND			ND	ND	ND	EPA 608.3		0.12	5.0
Aroclor 1254	pg/L	ND			ND	ND	ND	EPA 608.3		0.12	5.0
Aroclor 1260	pg/L	ND			ND	ND	ND	EPA 608.3		0.12	5.0
Arsenic	ug/L	4.86			4.48	5.35	6.14	EPA 200.8	2	0.05 - 0.07	1.00
Benzene	ug/L				12.6	34.8	56.9	EPA 624.1		0.06 - 0.09	0.50
Benzidine	ug/L				ND	ND	ND	EPA 625.1		0.77	50.0 - 100
Benzo(a)anthracene (1,2-benzanthracene)	ug/L	ND			ND	ND	ND	EPA 625.1		0.46	20.0
Benzo(a)pyrene	ug/L	ND			ND	ND	ND	EPA 610	10	0.01	0.50

Table 4.3
JWPCP
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022
Benzo(b)fluoranthene (3,4-benzofluoranthene)	ug/L	ND			ND			ND		
Benzo(g,h,i)perylene (1,12-benzoperylene)	ug/L	ND			ND			ND		
Benzo(k)fluoranthene	ug/L	ND			ND			ND		
Beryllium	ug/L	DNQ Est. Conc. 0.037			DNQ Est. Conc. 0.037			DNQ Est. Conc. 0.034		
beta-hexachlorocyclohexane	ug/L	ND						ND		
Bis(2-chloro-ethoxy)methane	ug/L	ND						ND		
Bis(2-chloro-isopropyl)ether	ug/L	ND						ND		
Bis(2-chloroethyl)ether	ug/L	ND						ND		
Bis(2-ethylhexyl)phthalate	ug/L	ND			ND			DNQ Est. Conc. 14.2		
BOD	mg/L	528	456	504	498	479	426	523	469	387
Bromoform	ug/L	ND			ND			ND		
Bromomethane	ug/L	ND			ND			ND		
Cadmium	ug/L	0.53			0.50			0.61		
Carbon tetrachloride	ug/L	ND						ND		
Chlordane-alpha	ug/L	ND	ND					ND		
Chlordane-gamma	ug/L	ND	ND					ND		
Chlorobenzene	ug/L	ND						ND		
Chlorodibromomethane	ug/L	DNQ Est. Conc. 0.46			DNQ Est. Conc. 0.33			ND		
Chloroform	ug/L	43.9			25.4			17.6		
Chloromethane	ug/L	3.6			4.2			2.7		
Chromium (III)	ug/L	13.7		18.4	12.8			14.9		
Chromium (VI)	ug/L	0.06		0.10	0.13			0.11		
Chrysene	ug/L	ND			ND			ND		
cis-Nonachlor	ug/L		ND					ND		
Copper	ug/L	107	80.2	137	101	97.0	89.6	102	72.0	94.5
Cyanide, Total	ug/L	12.2			10.9			5.77		
delta-hexachlorocyclohexane	ug/L	ND						ND		
Di-n-butyl phthalate	ug/L	ND			ND			ND		
Dibenzo(a,h)anthracene	ug/L	ND			ND			ND		
Dichlorobromomethane	ug/L	0.85			0.79			DNQ Est. Conc. 0.17		
Dichloromethane	ug/L	2.9			2.6			12.8		
Dieldrin	ug/L	DNQ Est. Conc. 0.06						ND		
Diethylphthalate	ug/L	DNQ Est. Conc. 15.4						ND		
Dimethylphthalate	ug/L	ND						ND		
Endosulfan sulfate	ug/L	ND						ND		
Endosulfan-alpha	ug/L	ND						ND		
Endosulfan-beta	ug/L	ND						ND		
Endrin	ug/L	ND						ND		
Ethylbenzene	ug/L	11.1						9.9		
Fluoranthene	ug/L	ND						ND		
Fluorene	ug/L	ND			ND			ND		
gamma-hexachlorocyclohexane	ug/L	ND						ND		
Gross Alpha Radioactivity	pCi/L	2.64			6.72			14.2		
Gross Beta Radioactivity	pCi/L	10.8			17.8			21.4		
Heptachlor	ug/L	ND						ND		
Heptachlor epoxide	ug/L	ND						ND		
Hexachlorobenzene	ug/L	ND						ND		
Hexachlorobutadiene	ug/L	ND						ND		
Hexachlorocyclopentadiene	ug/L	ND						ND		
Hexachloroethane	ug/L	ND						ND		
Indeno (1,2,3-cd) pyrene	ug/L	ND			ND			ND		
Isophorone	ug/L	ND			ND			ND		
Lead	ug/L	4.75			4.05			3.94		
Mercury	ug/L	0.07			0.19			0.13		
Methyl-tert-butyl-ether	ug/L	1.9			1.4			ND		
n-Nitrosodi-n-propylamine	ug/L	ND						ND		
n-Nitrosodimethylamine (NDMA)	ug/L	0.27			ND			0.21		
n-Nitrosodiphenylamine	ug/L	ND						ND		
Nickel	ug/L	19.8			17.6			20.5		
Nitrobenzene	ug/L	ND			ND			ND		
OctaCDD	pg/L	190 (i)			170 (i)			170 (i)		
OctaCDF	pg/L	ND			DNQ Est. Conc. 20 (i)			DNQ Est. Conc. 17		
Oil and grease	mg/L	67.1	71.3	66.8	53.2	65.6	77.6	74.6	64.2	68.2
Organic nitrogen	mg/L	46.4			29.3			30.1		

Table 4.3
JWPCP
2022 INF-001 Monitoring Results

Parameter	Units	October 2022	November 2022	December 2022	Monthly Average			Method	ML	MDL	RL
					Minimum	Average	Maximum				
Benzo(b)fluoranthene (3,4-benzofluoranthene)	ug/L	ND			ND	ND	ND	EPA 610	10	0.02	0.50
Benzo(g,h,i)perylene (1,12-benzoperylene)	ug/L	ND			ND	ND	ND	EPA 625.1		0.52	20.0
Benzo(k)fluoranthene	ug/L	ND			ND	ND	ND	EPA 610	10	0.01	0.50
Beryllium	ug/L	DNQ Est. Conc. 0.037			DNQ Est. Conc. 0.034	ND	DNQ Est. Conc. 0.037	EPA 200.8	0.5	0.023 - 0.026	0.25
beta-hexachlorocyclohexane	ug/L				ND	ND	ND	EPA 608.3		0.003	0.05
Bis(2-chloro-ethoxy)methane	ug/L				ND	ND	ND	EPA 625.1		0.28	20.0
Bis(2-chloro-isopropyl)ether	ug/L				ND	ND	ND	EPA 625.1		0.25	20.0
Bis(2-chloroethyl)ether	ug/L				ND	ND	ND	EPA 625.1		0.27	20.0
Bis(2-ethylhexyl)phthalate	ug/L	DNQ Est. Conc. 13.0			ND	ND	DNQ Est. Conc. 14.2	EPA 625.1		0.55	20.0
BOD	mg/L	484	472	433	387	478	528	SM 5210B		Not Applicable	150 - 200
Bromoform	ug/L	ND			ND	ND	ND	EPA 624.1		0.13 - 0.18	0.50
Bromomethane	ug/L	ND			ND	ND	ND	EPA 624.1		0.27 - 0.30	0.50
Cadmium	ug/L	1.3			0.50	0.74	1.3	EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L				ND	ND	ND	EPA 624.1		0.18 - 0.34	0.50
Chlordane-alpha	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Chlordane-gamma	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Chlorobenzene	ug/L				ND	ND	ND	EPA 624.1		0.07 - 0.10	0.50
Chlorodibromomethane	ug/L	DNQ Est. Conc. 0.33			ND	ND	DNQ Est. Conc. 0.46	EPA 624.1		0.11 - 0.13	0.50
Chloroform	ug/L	57.4			17.6	36.1	57.4	EPA 624.1		0.08 - 0.35	0.50
Chloromethane	ug/L	2.3			2.3	3.2	4.2	EPA 624.1		0.19 - 0.41	0.50
Chromium (III)	ug/L	14.7			12.8	14.9	18.4	Calculated		Not Applicable	Not Applicable
Chromium (VI)	ug/L	DNQ Est. Conc. 0.03			DNQ Est. Conc. 0.03	0.08	0.13	EPA 218.6 (Dissolved)		0.02	0.05
Chrysene	ug/L	ND			ND	ND	ND	EPA 610	10	0.01	0.50
cis-Nonachlor	ug/L				ND	ND	ND	EPA 608.3		0.002	0.10
Copper	ug/L	86.4	122	106	72	100	137	EPA 200.8	0.5	0.12 - 0.14	0.50
Cyanide, Total	ug/L	12.4			5.77	10.3	12.4	SM 4500 CN E	5	0.500 - 1.25	5.00
delta-hexachlorocyclohexane	ug/L				ND	ND	ND	EPA 608.3		0.003	0.05
Di-n-butyl phthalate	ug/L	ND			ND	ND	ND	EPA 625.1		0.59	20.0
Dibenzo(a,h)anthracene	ug/L	ND			ND	ND	ND	EPA 610	10	0.01	0.50
Dichlorobromomethane	ug/L	1.3			DNQ Est. Conc. 0.17	0.74	1.3	EPA 624.1		0.11 - 0.15	0.50
Dichloromethane	ug/L	4.2			2.6	5.6	12.8	EPA 624.1		0.16 - 0.46	0.50
Dieldrin	ug/L				ND	ND	DNQ Est. Conc. 0.06	EPA 608.3		0.003	0.10
Diethylphthalate	ug/L				ND	ND	DNQ Est. Conc. 15.4	EPA 625.1		0.42	20.0
Dimethylphthalate	ug/L				ND	ND	ND	EPA 625.1		0.41	20.0
Endosulfan sulfate	ug/L				ND	ND	ND	EPA 608.3		0.004	0.10
Endosulfan-alpha	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Endosulfan-beta	ug/L				ND	ND	ND	EPA 608.3		0.004	0.10
Endrin	ug/L				ND	ND	ND	EPA 608.3		0.004	0.10
Ethylbenzene	ug/L				9.9	11	11.1	EPA 624.1		0.11 - 0.15	0.50
Fluoranthene	ug/L				ND	ND	ND	EPA 625.1		0.69	20.0
Fluorene	ug/L	ND			ND	ND	ND	EPA 625.1		0.58	20.0
gamma-hexachlorocyclohexane	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Gross Alpha Radioactivity	pCi/L	12.6			2.64	9.04	14.2	EPA 900.0		6.49 - 24.9	3.00
Gross Beta Radioactivity	pCi/L	28.3			10.8	19.6	28.3	EPA 900.0		2.62 - 12.9	4.00
Heptachlor	ug/L				ND	ND	ND	EPA 608.3		0.002	0.10
Heptachlor epoxide	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Hexachlorobenzene	ug/L				ND	ND	ND	EPA 625.1		0.47	20.0
Hexachlorobutadiene	ug/L				ND	ND	ND	EPA 625.1		0.96	20.0
Hexachlorocyclopentadiene	ug/L				ND	ND	ND	EPA 625.1		2.0	100
Hexachloroethane	ug/L				ND	ND	ND	EPA 625.1		0.81	20.0
Indeno (1,2,3-cd) pyrene	ug/L	ND			ND	ND	ND	EPA 610	10	0.01	0.50
Isophorone	ug/L	ND			ND	ND	ND	EPA 625.1		0.28	20.0
Lead	ug/L	3.85			3.85	4.15	4.75	EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L	0.27			0.07	0.16	0.27	EPA 245.1	0.5	0.019	0.04
Methyl-tert-butyl-ether	ug/L	1.7			ND	1.2	1.9	EPA 624.1		0.08 - 0.40	0.50
n-Nitrosodi-n-propylamine	ug/L				ND	ND	ND	EPA 1625B (Modified)		0.0006	0.10
n-Nitrosodimethylamine (NDMA)	ug/L	ND			ND	0.12	0.27	EPA 1625B (Modified)/EPA 625.1		0.0005 - 0.50	0.10 - 100
n-Nitrosodiphenylamine	ug/L				ND	ND	ND	EPA 1625B (Modified)		0.0013	0.50
Nickel	ug/L	24.2			17.6	20.5	24.2	EPA 200.8	1	0.08 - 0.50	1.00
Nitrobenzene	ug/L	ND			ND	ND	ND	EPA 625.1		0.31	20.0
OctaCDD	pg/L	150			150	170 (i)	190 (i)	EPA 1613B		0.72 - 1.7	95 - 100
OctaCDF	pg/L	ND			ND	ND	DNQ Est. Conc. 20	EPA 1613B		0.52 - 1.6	95 - 100
Oil and grease	mg/L	70.7	74.1	72.9	53.2	68.9	77.6	EPA 1664A		Not Applicable	Not Applicable
Organic nitrogen	mg/L	18.4			18.4	31.0	46.4	Calculated		Not Applicable	Not Applicable

Table 4.3
JWPCP
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022
Oxychlordane	ug/L	ND	ND					ND		
Pentachlorophenol	ug/L	ND			ND			ND		
pH	SU	7.2	7.4	7.1	7.2	7.0	6.9	7.1	7.0	6.9
Phenanthrene	ug/L	ND			ND			ND		
Phenol	ug/L	176						247		
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	pg/L	ND			ND			ND		
Pyrene	ug/L	ND			ND			ND		
Radium 226	pCi/L	-0.0201			0.548			0.167		
Radium 226 + 228	pCi/L	0.845			2.24			0.167		
Radium 228	pCi/L	0.845			1.69			-0.311		
Selenium	ug/L	10.8			13.1			14.1		
Silver	ug/L	0.84			0.91			0.89		
Strontium-90	pCi/L	-0.810			0.853			2.86		
TCDD equivalents	pg/L	0.19			0.17			0.17		
Tetrachloroethylene	ug/L	0.66			DNQ Est. Conc. 0.49			ND		
Thallium	ug/L	DNQ Est. Conc. 0.034			ND			DNQ Est. Conc. 0.047		
Toluene	ug/L	92.5			70.6			34.4		
Total Chlordanes	ug/L		ND					ND		
Total Chromium	ug/L	13.8		18.5	13.0			15.0		
Total DDT	ug/L	ND			ND			ND		
Total Dichlorobenzene	ug/L	ND			ND			ND		
Total Endosulfan	ug/L	ND						ND		
Total Halomethanes	ug/L	3.6			4.5			2.7		
Total HCH	ug/L	ND						ND		
Total Organic Carbon	mg/L	90.0	113	105	106	117	105	89.5	111	94.5
Total PAHs	ug/L	ND			ND			ND		
Total Phenolic Compounds (Chlorinated)	ug/L	ND			ND			21.3		
Total Phenolic Compounds (non-chlorinated)	ug/L	200						286		
Total Phosphorus	mg/L	9.55			10.8			11.5		
Total Suspended Solids	mg/L	613	620	743	673	666	668	647	629	688
Toxaphene	ug/L	ND						ND		
trans-Nonachlor	ug/L	ND	ND					ND		
Tributyltin (TBT)	ug/L	ND			ND			ND		
Trichloroethylene	ug/L	ND						ND		
Tritium	pCi/L	-122			238			90.1		
Uranium	pCi/L	3.54			4.09			5.21		
Vinyl Chloride	ug/L	ND						ND		
Zinc	ug/L	256			279			327		

Table 4.3
JWPCP
2022 INF-001 Monitoring Results

Parameter	Units	October 2022	November 2022	December 2022	Monthly Average			Method	ML	MDL	RL
					Minimum	Average	Maximum				
Oxychlordane	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Pentachlorophenol	ug/L	ND			ND	ND	ND	EPA 625.1		0.82	20.0
pH	SU	7.1	6.9	7.2	6.9	7.1	7.4	SM 4500 H+ B		Not Applicable	Not Applicable
Phenanthrene	ug/L	ND			ND	ND	ND	EPA 625.1		0.59	20.0
Phenol	ug/L				176	212	247	EPA 625.1		0.24	20.0
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	pg/L	ND			ND	ND	ND	Calculated		Not Applicable	Not Applicable
Pyrene	ug/L	ND			ND	ND	ND	EPA 625.1		0.60	20.0
Radium 226	pCi/L	0.111			-0.0201	0.206	0.548	EPA 903.0		0.607 - 2.86	1.00
Radium 226 + 228	pCi/L	0.620			0.167	0.968	2.24	EPA 903.0		2.54 - 5.5	5.00
Radium 228	pCi/L	0.509			-0.311	0.761	1.69	EPA 904.0		2.54 - 5.5	1.00
Selenium	ug/L	11.3			10.8	12.3	14.1	EPA 200.8	2	0.04	1.00
Silver	ug/L	0.58			0.58	0.80	0.91	EPA 200.8	0.25	0.02	0.20
Strontium-90	pCi/L	1.18			-0.810	1.22	2.86	EPA 905.0		1.31 - 1.99	3.00
TCDD equivalents	pg/L	0.15			0.15	0.17	0.19	Calculated		Not Applicable	Not Applicable
Tetrachloroethylene	ug/L	DNQ Est. Conc. 0.24			ND	0.16	0.66	EPA 624.1		0.16 - 0.18	0.50
Thallium	ug/L	DNQ Est. Conc. 0.028			ND	ND	DNQ Est. Conc. 0.047	EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L	53.8			34.4	62.8	92.5	EPA 624.1		0.04 - 0.15	0.50
Total Chlordanes	ug/L				ND	ND	ND	Calculated		Not Applicable	Not Applicable
Total Chromium	ug/L	14.7			13	15	18.5	EPA 200.8	0.5	0.27 - 0.28	0.50
Total DDT	ug/L	ND			ND	ND	ND	Calculated		Not Applicable	Not Applicable
Total Dichlorobenzene	ug/L	ND			ND	ND	ND	Calculated		Not Applicable	Not Applicable
Total Endosulfan	ug/L				ND	ND	ND	Calculated		Not Applicable	Not Applicable
Total Halomethanes	ug/L	2.5			2.5	3.3	4.5	Calculated		Not Applicable	Not Applicable
Total HCH	ug/L				ND	ND	ND	Calculated		Not Applicable	Not Applicable
Total Organic Carbon	mg/L	100	113	112	89.5	105	117	SM 5310C		0.15 - 0.18	25.0 - 50.0
Total PAHs	ug/L	ND			ND	ND	ND	Calculated		Not Applicable	Not Applicable
Total Phenolic Compounds (Chlorinated)	ug/L	ND			ND	5.32	21.3	Calculated		Not Applicable	Not Applicable
Total Phenolic Compounds (non-chlorinated)	ug/L				200	243	286	Calculated		Not Applicable	Not Applicable
Total Phosphorus	mg/L	9.54			9.54	10.3	11.5	SM4500P-E		0.0100	2.50
Total Suspended Solids	mg/L	692	720	764	613	677	764	SM 2540D		Not Applicable	2.5 - 100
Toxaphene	ug/L				ND	ND	ND	EPA 608.3		0.05	5.0
trans-Nonachlor	ug/L				ND	ND	ND	EPA 608.3		0.004	0.10
Tributyltin (TBT)	ug/L	ND			ND	ND	ND	Tributyltin by GC/FPD / SM6710B		0.0023 - 1.0	0.0050 - 3.4
Trichloroethylene	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.15	0.50
Tritium	pCi/L	97.3			-122	106	238	EPA 906.0		259 - 403	500
Uranium	pCi/L	6.63			3.54	4.87	6.63	EPA 908.0		0.466 - 1.2	1.00
Vinyl Chloride	ug/L				ND	ND	ND	EPA 624.1		0.25 - 0.37	0.50
Zinc	ug/L	299			256	290	327	EPA 200.8	1	0.92 - 0.95	5.00 - 20.0

(i) Blank contamination observed.

(ii) Possible interference observed. The measured ion ratio did not meet qualitative criteria for analysis and results are considered to be an estimated maximum possible concentration.

JWPCP Effluent Monitoring

Table 4.4
JWPCP
2022 EFF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
1,1,1-Trichloroethane	ug/L	ND						ND			
1,1,2,2-Tetrachloroethane	ug/L	ND						ND			
1,1,2-Trichloroethane	ug/L	ND						ND			
1,1-Dichloroethylene	ug/L	ND						ND			
1,2,3,4,6,7,8-HeptaCDD	pg/L	ND						ND			
1,2,3,4,6,7,8-HeptaCDF	pg/L	ND						ND			
1,2,3,4,7,8,9-HeptaCDF	pg/L	ND						ND			
1,2,3,4,7,8-HexaCDD	pg/L	ND						ND			
1,2,3,4,7,8-HexaCDF	pg/L	ND						ND			
1,2,3,6,7,8-HexaCDD	pg/L	ND						ND			
1,2,3,6,7,8-HexaCDF	pg/L	ND						ND			
1,2,3,7,8,9-HexaCDD	pg/L	DNQ Est. Conc. 1.2						ND			
1,2,3,7,8,9-HexaCDF	pg/L	ND						ND			
1,2,3,7,8-PentaCDD	pg/L	ND						ND			
1,2,3,7,8-PentaCDF	pg/L	ND						ND			
1,2-Dichlorobenzene	ug/L	ND						ND			
1,2-Dichloroethane	ug/L	ND						ND			
1,2-Diphenylhydrazine	ug/L	ND						ND			
1,3-Dichlorobenzene	ug/L	ND						ND			
1,3-Dichloropropene	ug/L	ND						ND			
1,4-Dichlorobenzene	ug/L	ND						ND			
2,3,4,6,7,8-HexaCDF	pg/L	ND						ND			
2,3,4,7,8-PentaCDF	pg/L	ND						ND			
2,3,7,8-TCDD	pg/L	ND						ND			
2,3,7,8-TetraCDF	pg/L	ND						ND			
2,4'-DDD	ug/L	DNQ Est. Conc. 0.004			ND			ND			ND
2,4'-DDE	ug/L	ND			ND			ND			ND
2,4'-DDT	ug/L	ND			ND			ND			ND
2,4,6-Trichlorophenol	ug/L	DNQ Est. Conc. 0.91						1.2			
2,4-Dichlorophenol	ug/L	ND						ND			
2,4-Dimethylphenol	ug/L	DNQ Est. Conc. 0.77						DNQ Est. Conc. 0.90			
2,4-Dinitrophenol	ug/L	ND						ND			
2,4-Dinitrotoluene	ug/L	ND						ND			
2-Chlorophenol	ug/L	ND						ND			
2-methyl-4,6-dinitrophenol	ug/L	ND						ND			
2-Nitrophenol	ug/L	ND						ND			
3,3'-Dichlorobenzidine	ug/L	ND						ND			
4,4'-DDD	ug/L	ND			ND			DNQ Est. Conc. 0.004			ND
4,4'-DDE	ug/L	ND			ND			ND			ND
4,4'-DDT	ug/L	ND			ND			ND			ND
4-Chloro-3-methylphenol	ug/L	ND						ND			
4-Nitrophenol	ug/L	ND						ND			
Acenaphthylene	ug/L	ND						ND			
Acrolein	ug/L	ND						ND			
Acrylonitrile	ug/L	ND						ND			
Aldrin	ug/L	ND						ND			
alpha hexachlorocyclohexane	ug/L	DNQ Est. Conc. 0.006						DNQ Est. Conc. 0.006			
Ammonia Nitrogen	mg/L	40.9	44.2	45.3	46.5	45.2	43.9	42.7	41.2	38.8	40.3
Anthracene	ug/L	ND						ND			
Antimony	ug/L	1.41			2.07			1.39			1.76
Aroclor 1016	pg/L	ND			ND			ND			ND
Aroclor 1221	pg/L	ND			ND			ND			ND
Aroclor 1232	pg/L	ND			ND			ND			ND
Aroclor 1242	pg/L	ND			ND			ND			ND
Aroclor 1248	pg/L	ND			ND			ND			ND
Aroclor 1254	pg/L	ND			ND			ND			ND
Aroclor 1260	pg/L	ND			ND			ND			ND
Arsenic	ug/L	1.91			2.08			2.40			2.12
Benzene	ug/L	ND						ND			
Benzidine	ug/L	ND			ND					ND	ND
Benzo(a)anthracene (1,2-benzanthracene)	ug/L	ND						ND			
Benzo(a)pyrene	ug/L	ND						ND			
Benzo(b)fluoranthene (3,4-benzofluoranthene)	ug/L	ND						ND			
Benzo(g,h,i)perylene (1,12-benzoperylene)	ug/L	ND						ND			
Benzo(k)fluoranthene	ug/L	ND						ND			
Beryllium	ug/L	ND			ND			ND			ND
beta-hexachlorocyclohexane	ug/L	ND						ND			
Bis(2-chloro-ethoxy)methane	ug/L	ND						ND			
Bis(2-chloro-isopropyl)ether	ug/L	ND						ND			
Bis(2-chloroethyl)ether	ug/L	ND						ND			
Bis(2-ethylhexyl) phthalate	ug/L	ND						ND			
BOD	mg/L	9.7	11.6	11.0	10.0	13.9	14.0	17.0	16.0	15.2	17.6
Bromoform	ug/L	ND						ND			
Bromomethane	ug/L	ND						ND			
Cadmium	ug/L	ND			ND			ND			ND
Carbon tetrachloride	ug/L	ND						ND			
Chlordane-alpha	ug/L	ND	ND					ND			
Chlordane-gamma	ug/L	ND	ND					ND			
Chlorobenzene	ug/L	ND						ND			
Chlorodibromomethane	ug/L	DNQ Est. Conc. 0.21			DNQ Est. Conc. 0.14			ND			ND
Chloroform	ug/L	20						12.8			
Chloromethane	ug/L	ND						DNQ Est. Conc. 0.25			
Chromium (III)	ug/L	1.19		1.25	0.98			1.2			1.16

Table 4.4
JWPCP
2022 EFF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Monthly Average			NPDES Limit			Method	ML	MDL	RL
				Minimum	Average	Maximum	Max Daily	Monthly Average	Performance Goal				
1,1,1-Trichloroethane	ug/L			ND	ND	ND			1.8	EPA 624.1		0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L			ND	ND	ND			0.4	EPA 624.1		0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L			ND	ND	ND			0.45	EPA 624.1		0.12 - 0.13	0.50
1,1-Dichloroethylene	ug/L			ND	ND	ND			1.1	EPA 624.1		0.21	0.50
1,2,3,4,6,7,8-HeptaCDD	pg/L			ND	ND	ND				EPA 1613B		0.21 - 0.66	49 - 51
1,2,3,4,6,7,8-HeptaCDF	pg/L			ND	ND	ND				EPA 1613B		0.27 - 0.85	49 - 51
1,2,3,4,7,8,9-HeptaCDF	pg/L			ND	ND	ND				EPA 1613B		0.30 - 1.2	49 - 51
1,2,3,4,7,8-HexaCDD	pg/L			ND	ND	ND				EPA 1613B		0.28 - 0.56	49 - 51
1,2,3,4,7,8-HexaCDF	pg/L			ND	ND	ND				EPA 1613B		0.23 - 0.56	49 - 51
1,2,3,6,7,8-HexaCDD	pg/L			ND	ND	ND				EPA 1613B		0.27 - 0.63	49 - 51
1,2,3,6,7,8-HexaCDF	pg/L			ND	ND	ND				EPA 1613B		0.25 - 0.55	49 - 51
1,2,3,7,8,9-HexaCDD	pg/L			ND	ND	DNQ Est. Conc. 1.2				EPA 1613B		0.27 - 0.56	49 - 51
1,2,3,7,8,9-HexaCDF	pg/L			ND	ND	ND				EPA 1613B		0.22 - 0.70	49 - 51
1,2,3,7,8-PentaCDD	pg/L			ND	ND	ND				EPA 1613B		0.77 - 1.2	49 - 51
1,2,3,7,8-PentaCDF	pg/L			ND	ND	ND				EPA 1613B		0.41 - 0.60	49 - 51
1,2-Dichlorobenzene	ug/L			ND	ND	ND				EPA 624.1		0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L			ND	ND	ND			0.6	EPA 624.1		0.12 - 0.22	0.50
1,2-Diphenylhydrazine	ug/L			ND	ND	ND			0.65	EPA 625.1		0.63	1.0
1,3-Dichlorobenzene	ug/L			ND	ND	ND				EPA 624.1		0.13 - 0.15	0.50
1,3-Dichloropropene	ug/L			ND	ND	ND			0.65	Calculated		Not Applicable	Not Applicable
1,4-Dichlorobenzene	ug/L			ND	ND	ND			1.0	EPA 624.1		0.16 - 0.25	0.50
2,3,4,6,7,8-HexaCDF	pg/L			ND	ND	ND				EPA 1613B		0.22 - 0.56	49 - 51
2,3,4,7,8-PentaCDF	pg/L			ND	ND	ND				EPA 1613B		0.42 - 0.67	49 - 51
2,3,7,8-TCDD	pg/L			ND	ND	ND				EPA 1613B		0.66 - 1.5	9.8 - 10
2,3,7,8-TetraCDF	pg/L			ND	ND	ND				EPA 1613B		0.49 - 0.63	9.8 - 10
2,4'-DDD	ug/L			ND	ND	DNQ Est. Conc. 0.004				EPA 608.3		0.003	0.01
2,4'-DDE	ug/L			ND	ND	ND				EPA 608.3		0.003	0.01
2,4'-DDT	ug/L			ND	ND	ND				EPA 608.3		0.005	0.01
2,4,6-Trichlorophenol	ug/L			DNQ Est. Conc. 0.91	0.6	1.2			0.6	EPA 625.1		0.64	1.0
2,4-Dichlorophenol	ug/L			ND	ND	ND				EPA 625.1		0.60	1.0
2,4-Dimethylphenol	ug/L			DNQ Est. Conc. 0.77	ND	DNQ Est. Conc. 0.90				EPA 625.1		0.44	1.0
2,4-Dinitrophenol	ug/L			ND	ND	ND			17	EPA 625.1		1.5	5.0
2,4-Dinitrotoluene	ug/L			ND	ND	ND			1.0	EPA 625.1		0.37	1.0
2-Chlorophenol	ug/L			ND	ND	ND				EPA 625.1		0.41	1.0
2-methyl-4,6-dinitrophenol	ug/L			ND	ND	ND			13	EPA 625.1		1.3	5.0
2-Nitrophenol	ug/L			ND	ND	ND				EPA 625.1		0.31	1.0
3,3'-Dichlorobenzidine	ug/L			ND	ND	ND		1.4		EPA 625.1		0.54	1.0
4,4'-DDD	ug/L			ND	ND	DNQ Est. Conc. 0.004				EPA 608.3		0.003	0.01
4,4'-DDE	ug/L			ND	ND	ND				EPA 608.3		0.002	0.01
4,4'-DDT	ug/L			ND	ND	ND				EPA 608.3		0.004	0.01
4-Chloro-3-methylphenol	ug/L			ND	ND	ND				EPA 625.1		0.69	1.0
4-Nitrophenol	ug/L			ND	ND	ND				EPA 625.1		1.6	5.0
Acenaphthylene	ug/L			ND	ND	ND				EPA 625.1		0.50	1.0
Acrolein	ug/L			ND	ND	ND			5.2	EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L			ND	ND	ND			2.7	EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L			ND	ND	ND			0.0037	EPA 608.3		0.002	0.005
alpha hexachlorocyclohexane	ug/L			DNQ Est. Conc. 0.006	ND	DNQ Est. Conc. 0.006				EPA 608.3		0.003	0.01
Ammonia Nitrogen	mg/L	44.3	45.8	38.8	43.2	46.5			47	SM 4500 NH3 C / SM 4500 NH3 H		0.020 - 1.37	1.00 - 10.0
Anthracene	ug/L			ND	ND	ND				EPA 625.1		0.56	1.0
Antimony	ug/L			1.39	1.66	2.07			6.8	EPA 200.8	0.5	0.12	0.50
Aroclor 1016	pg/L			ND	ND	ND				EPA 608.3		0.12	0.50
Aroclor 1221	pg/L			ND	ND	ND				EPA 608.3		0.12	0.50
Aroclor 1232	pg/L			ND	ND	ND				EPA 608.3		0.12	0.50
Aroclor 1242	pg/L			ND	ND	ND				EPA 608.3		0.12	0.50
Aroclor 1248	pg/L			ND	ND	ND				EPA 608.3		0.12	0.50
Aroclor 1254	pg/L			ND	ND	ND				EPA 608.3		0.12	0.50
Aroclor 1260	pg/L			ND	ND	ND				EPA 608.3		0.12	0.50
Arsenic	ug/L			1.91	2.13	2.40			2.5	EPA 200.8	2	0.05 - 0.07	1.00
Benzene	ug/L			ND	ND	ND			0.75	EPA 624.1		0.06 - 0.09	0.50
Benzidine	ug/L			ND	ND	ND		0.012		EPA 625.1		0.77	5.0 - 10.0
Benzo(a)anthracene (1,2-benzanthracene)	ug/L			ND	ND	ND				EPA 625.1		0.46	1.0
Benzo(a)pyrene	ug/L			ND	ND	ND				EPA 610	10	0.013	0.10
Benzo(b)fluoranthene (3,4-benzofluoranthene)	ug/L			ND	ND	ND				EPA 610	10	0.015	0.10
Benzo(g,h,i)perylene (1,12-benzoperylene)	ug/L			ND	ND	ND				EPA 625.1		0.52	1.0
Benzo(k)fluoranthene	ug/L			ND	ND	ND				EPA 610	10	0.014	0.10
Beryllium	ug/L			ND	ND	ND			0.15	EPA 200.8	0.5	0.023 - 0.026	0.25
beta-hexachlorocyclohexane	ug/L			ND	ND	ND				EPA 608.3		0.003	0.005
Bis(2-chloro-ethoxy)methane	ug/L			ND	ND	ND			1.3	EPA 625.1		0.28	1.0
Bis(2-chloro-isopropyl)ether	ug/L			ND	ND	ND			1.6	EPA 625.1		0.25	1.0
Bis(2-chloroethyl)ether	ug/L			ND	ND	ND			0.95	EPA 625.1		0.27	1.0
Bis(2-ethylhexyl) phthalate	ug/L			ND	ND	ND			14	EPA 625.1		0.55	1.0
BOD	mg/L	13.5	14.6	9.7	14	17.6		30		SM 5210B		Not Applicable	2.4 - 20.0
Bromoform	ug/L			ND	ND	ND				EPA 624.1		0.13 - 0.18	0.50
Bromomethane	ug/L			ND	ND	ND				EPA 624.1		0.27 - 0.30	0.50
Cadmium	ug/L			ND	ND	ND			0.1	EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L			ND	ND	ND			1.0	EPA 624.1		0.18 - 0.34	0.50
Chlordane-alpha	ug/L			ND	ND	ND				EPA 608.3		0.003	0.01
Chlordane-gamma	ug/L			ND	ND	ND				EPA 608.3		0.003	0.01
Chlorobenzene	ug/L			ND	ND	ND			1.2	EPA 624.1		0.07 - 0.10	0.50
Chlorodibromomethane	ug/L			ND	ND	DNQ Est. Conc. 0.21			0.6	EPA 624.1		0.11 - 0.13	0.50
Chloroform	ug/L			12.8	16.4	20.0			25.4	EPA 624.1		0.08 - 0.35	0.50
Chloromethane	ug/L			ND	ND	DNQ Est. Conc. 0.25				EPA 624.1		0.19 - 0.41	0.50
Chromium (III)	ug/L			0.98	1.2	1.25			2.9	Calculated		Not Applicable	Not Applicable

Table 4.4
JWPCP
2022 EFF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Chromium (VI)	ug/L	0.07		0.12	0.08			0.1			0.13
Chrysene	ug/L	ND						ND			
cis-Nonachlor	ug/L		ND					ND			
Copper	ug/L	2.92			4.96			3.22			2.2
Cyanide	ug/L	DNQ Est. Conc. 3.13			DNQ Est. Conc. 4.48			DNQ Est. Conc. 3.26			10.4
delta-hexachlorocyclohexane	ug/L	ND						ND			
Di-n-butyl phthalate	ug/L	ND						ND			
Dibenzo(a,h)anthracene	ug/L	ND						ND			
Dichlorobromomethane	ug/L	0.57						DNQ Est. Conc. 0.19			
Dichloromethane	ug/L	2.8						2.1			
Dieldrin	ug/L	ND						ND			
Diethyl phthalate	ug/L	DNQ Est. Conc. 0.65						ND			
Dimethyl phthalate	ug/L	ND						ND			
Endosulfan sulfate	ug/L	ND						ND			
Endosulfan-alpha	ug/L	ND						ND			
Endosulfan-beta	ug/L	ND						ND			
Endrin	ug/L	ND						ND			
Ethylbenzene	ug/L	ND						ND			
Fluoranthene	ug/L	ND						ND			
Fluorene	ug/L	ND						ND			
gamma-hexachlorocyclohexane	ug/L	ND						ND			
Gross alpha radioactivity	pCi/L	1.96			3.93			1.27			4.82
Gross beta radioactivity	pCi/L	9.72			8.35			20.1			18.0
Heptachlor	ug/L	ND						ND			
Heptachlor epoxide	ug/L	ND						ND			
Hexachlorobenzene	ug/L	ND						ND			
Hexachlorobutadiene	ug/L	ND						ND			
Hexachlorocyclopentadiene	ug/L	ND						ND			
Hexachloroethane	ug/L	ND						ND			
Indeno (1,2,3-cd) pyrene	ug/L	ND						ND			
Isophorone	ug/L	ND						ND			
Lead	ug/L	DNQ Est. Conc. 0.10			DNQ Est. Conc. 0.11			DNQ Est. Conc. 0.06			DNQ Est. Conc. 0.05
Mercury	ug/L	ND			ND			ND			ND
Methyl-tert-butyl-ether	ug/L	1.2						0.56			
n-Nitrosodi-n-propylamine	ug/L	ND						ND			
n-Nitrosodimethylamine (NDMA)	ug/L	0.26						0.28			
n-Nitrosodiphenylamine	ug/L	ND						ND			
Nickel	ug/L	7.85			8.3			6.07			6.73
Nitrate as Nitrogen	mg/L	DNQ Est. Conc. 0.06			DNQ Est. Conc. 0.05			0.70			0.62
Nitrobenzene	ug/L	ND						ND			
OctaCDD	pg/L	ND						ND			
OctaCDF	pg/L	ND						ND			
Oil and grease	mg/L	DNQ Est. Conc. 2.5	DNQ Est. Conc. 1.8	DNQ Est. Conc. 1.2	DNQ Est. Conc. 1.3	DNQ Est. Conc. 1.5	ND	ND	ND	ND	ND
Organic nitrogen	mg/L	34.1			ND			2.10			4.74
Oxychlordane	ug/L	DNQ Est. Conc. 0.006	ND					ND			
PCB-018 (Co: 18,30)	pg/L							DNQ Est. Conc. 17			
PCB-037	pg/L							DNQ Est. Conc. 4.5			
PCB-044 (Co: 44,47,65)	pg/L							DNQ Est. Conc. 24 (i)			
PCB-049 (Co: 49,69)	pg/L							DNQ Est. Conc. 8.2			
PCB-052	pg/L							DNQ Est. Conc. 22 (i)			
PCB-066	pg/L							DNQ Est. Conc. 8.4			
PCB-070 and 074 (Co: 61,70,74,76)	pg/L							DNQ Est. Conc. 20			
PCB-077	pg/L							DNQ Est. Conc. 1.8			
PCB-081	pg/L							ND			
PCB-087 and 119 (Co: 86,87,97,108,119,125)	pg/L							DNQ Est. Conc. 12			
PCB-099	pg/L							DNQ Est. Conc. 5.5			
PCB-101 (Co: 90/101/113)	pg/L							DNQ Est. Conc. 15 (i)			
PCB-105	pg/L							DNQ Est. Conc. 4.6			
PCB-110 (Co: 110/115)	pg/L							DNQ Est. Conc. 17 (i)			
PCB-114	pg/L							ND			
PCB-118	pg/L							DNQ Est. Conc. 11			
PCB-123	pg/L							DNQ Est. Conc. 1.6			
PCB-126	pg/L							ND			
PCB-128 (Co: 128/166)	pg/L							DNQ Est. Conc. 1.4			
PCB-138 (Co: 129,138,163)	pg/L							DNQ Est. Conc. 12 (i)			
PCB-149 (Co: 147,149)	pg/L							DNQ Est. Conc. 8.9 (i)			
PCB-151 (Co: 135,151)	pg/L							DNQ Est. Conc. 3.6			
PCB-153 and 168 (Co: 153,168)	pg/L							DNQ Est. Conc. 9 (i)			
PCB-156 and 157 (Co: 156,157)	pg/L							DNQ Est. Conc. 1.6 (ii)			
PCB-158	pg/L							DNQ Est. Conc. 1.1			
PCB-167	pg/L							DNQ Est. Conc. 0.77			
PCB-169	pg/L							ND			
PCB-170	pg/L							DNQ Est. Conc. 2.4			
PCB-177	pg/L							DNQ Est. Conc. 0.94 (ii)			
PCB-180 (Co: 180,193)	pg/L							DNQ Est. Conc. 6.1			
PCB-183	pg/L							ND			
PCB-187	pg/L							DNQ Est. Conc. 2.6 (ii)			
PCB-189	pg/L							ND			
PCB-194	pg/L							DNQ Est. Conc. 1.0 (ii)			
PCB-201	pg/L							ND			
PCB-206	pg/L							ND			
PCB-28 (Co: 20,28)	pg/L							DNQ Est. Conc. 19 (ii)			
Pentachlorophenol	ug/L	ND						ND			

Table 4.4
JWPCP
2022 EFF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Monthly Average			NPDES Limit			Method	ML	MDL	RL
				Minimum	Average	Maximum	Max Daily	Monthly Average	Performance Goal				
Chromium (VI)	ug/L			0.07	0.1	0.13			1.5	EPA 218.6 (Dissolved)		0.02	0.05
Chrysene	ug/L			ND	ND	ND				EPA 610	10	0.014	0.10
cis-Nonachlor	ug/L			ND	ND	ND				EPA 608.3		0.002	0.01
Copper	ug/L			2.2	3.3	4.96			4.9	EPA 200.8	0.5	0.12 - 0.14	0.50
Cyanide	ug/L			DNQ Est. Conc. 3.13	2.6	10.4			10	SM 4500 CN E	5	0.500 - 1.25	5.00
delta-hexachlorocyclohexane	ug/L			ND	ND	ND				EPA 608.3		0.003	0.005
Di-n-butyl phthalate	ug/L			ND	ND	ND			4.4	EPA 625.1		0.59	1.0
Dibenzo(a,h)anthracene	ug/L			ND	ND	ND				EPA 610	10	0.014	0.10
Dichlorobromomethane	ug/L			DNQ Est. Conc. 0.19	0.28	0.57			1.5	EPA 624.1		0.11 - 0.15	0.50
Dichloromethane	ug/L			2.1	2.4	2.8			3	EPA 624.1		0.16 - 0.46	0.50
Dieldrin	ug/L			ND	ND	ND			0.005	EPA 608.3		0.003	0.01
Diethyl phthalate	ug/L			ND	ND	DNQ Est. Conc. 0.65			2.1	EPA 625.1		0.42	1.0
Dimethyl phthalate	ug/L			ND	ND	ND			1.9	EPA 625.1		0.41	1.0
Endosulfan sulfate	ug/L			ND	ND	ND				EPA 608.3		0.004	0.01
Endosulfan-alpha	ug/L			ND	ND	ND				EPA 608.3		0.003	0.01
Endosulfan-beta	ug/L			ND	ND	ND				EPA 608.3		0.004	0.01
Endrin	ug/L			ND	ND	ND			0.01	EPA 608.3		0.004	0.01
Ethylbenzene	ug/L			ND	ND	ND			1.9	EPA 624.1		0.11 - 0.15	0.50
Fluoranthene	ug/L			ND	ND	ND			1.9	EPA 625.1		0.69	1.0
Fluorene	ug/L			ND	ND	ND				EPA 625.1		0.58	1.0
gamma-hexachlorocyclohexane	ug/L			ND	ND	ND				EPA 608.3		0.003	0.01
Gross alpha radioactivity	pCi/L			1.27	3.00	4.82			10.9	EPA 900.0		5.13 - 9.77	3.00
Gross beta radioactivity	pCi/L			8.35	14.0	20.1			30.5	EPA 900.0		2.15 - 5.5	4.00
Heptachlor	ug/L			ND	ND	ND			0.005	EPA 608.3		0.002	0.01
Heptachlor epoxide	ug/L			ND	ND	ND			0.0033	EPA 608.3		0.003	0.01
Hexachlorobenzene	ug/L			ND	ND	ND		0.035		EPA 625.1		0.47	1.0
Hexachlorobutadiene	ug/L			ND	ND	ND			0.7	EPA 625.1		0.96	1.0
Hexachlorocyclopentadiene	ug/L			ND	ND	ND			7.5	EPA 625.1		2.0	5.0
Hexachloroethane	ug/L			ND	ND	ND			0.7	EPA 625.1		0.81	1.0
Indeno (1,2,3-cd) pyrene	ug/L			ND	ND	ND				EPA 610	10	0.013	0.10
Isophorone	ug/L			ND	ND	ND			0.65	EPA 625.1		0.28	1.0
Lead	ug/L			DNQ Est. Conc. 0.05	ND	DNQ Est. Conc. 0.11			0.4	EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L			ND	ND	ND			0.04	EPA 245.1	0.5	0.019	0.04
Methyl-tert-butyl-ether	ug/L			0.56	0.88	1.2				EPA 624.1		0.08 - 0.40	0.50
n-Nitrosodi-n-propylamine	ug/L			ND	ND	ND			0.6	EPA 1625B (Modified)		0.0006	0.020
n-Nitrosodimethylamine (NDMA)	ug/L			0.26	0.27	0.28			0.7	EPA 1625B (Modified)		0.0005	0.020
n-Nitrosodiphenylamine	ug/L			ND	ND	ND			0.75	EPA 1625B (Modified)		0.0013	0.10
Nickel	ug/L			6.07	7.2	8.3			13	EPA 200.8	1	0.08 - 0.50	1.00
Nitrate as Nitrogen	mg/L			DNQ Est. Conc. 0.05	0.33	0.70				Calculated		Not Applicable	Not Applicable
Nitrobenzene	ug/L			ND	ND	ND			2.2	EPA 625.1		0.31	1.0
OctaCDD	pg/L			ND	ND	ND				EPA 1613B		0.24 - 0.96	98 - 100
OctaCDF	pg/L			ND	ND	ND				EPA 1613B		0.38 - 2.6	98 - 100
Oil and grease	mg/L	DNQ Est. Conc. 2.5	ND	ND	ND	DNQ Est. Conc. 2.5	45	15		EPA 1664A		1.0 - 2.1	5.2 - 5.8
Organic nitrogen	mg/L			ND	10.2	34.1				Calculated		Not Applicable	Not Applicable
Oxychlordane	ug/L			ND	ND	DNQ Est. Conc. 0.006				EPA 608.3		0.003	0.01
PCB-018 (Co: 18,30)	pg/L			DNQ Est. Conc. 17	ND	DNQ Est. Conc. 17				EPA 1668		0.61	390
PCB-037	pg/L			DNQ Est. Conc. 4.5	ND	DNQ Est. Conc. 4.5				EPA 1668		1.4	190
PCB-044 (Co: 44,47,65)	pg/L			DNQ Est. Conc. 24 (i)	ND	DNQ Est. Conc. 24 (i)				EPA 1668		0.84	580
PCB-049 (Co: 49,69)	pg/L			DNQ Est. Conc. 8.2	ND	DNQ Est. Conc. 8.2				EPA 1668		0.75	390
PCB-052	pg/L			DNQ Est. Conc. 22 (i)	ND	DNQ Est. Conc. 22 (i)				EPA 1668		0.84	190
PCB-066	pg/L			DNQ Est. Conc. 8.4	ND	DNQ Est. Conc. 8.4				EPA 1668		0.58	190
PCB-070 and 074 (Co: 61,70,74,76)	pg/L			DNQ Est. Conc. 20	ND	DNQ Est. Conc. 20				EPA 1668		0.62	770
PCB-077	pg/L			DNQ Est. Conc. 1.8	ND	DNQ Est. Conc. 1.8				EPA 1668		0.72	19
PCB-081	pg/L			ND	ND	ND				EPA 1668		0.76	19
PCB-087 and 119 (Co: 86,87,97,108,119,125)	pg/L			DNQ Est. Conc. 12	ND	DNQ Est. Conc. 12				EPA 1668		0.61	1200
PCB-099	pg/L			DNQ Est. Conc. 5.5	ND	DNQ Est. Conc. 5.5				EPA 1668		0.57	190
PCB-101 (Co: 90/101/113)	pg/L			DNQ Est. Conc. 15 (i)	ND	DNQ Est. Conc. 15 (i)				EPA 1668		0.66	580
PCB-105	pg/L			DNQ Est. Conc. 4.6	ND	DNQ Est. Conc. 4.6				EPA 1668		0.54	19
PCB-110 (Co: 110/115)	pg/L			DNQ Est. Conc. 17 (i)	ND	DNQ Est. Conc. 17 (i)				EPA 1668		0.54	390
PCB-114	pg/L			ND	ND	ND				EPA 1668		0.59	19
PCB-118	pg/L			DNQ Est. Conc. 11	ND	DNQ Est. Conc. 11				EPA 1668		0.51	19
PCB-123	pg/L			DNQ Est. Conc. 1.6	ND	DNQ Est. Conc. 1.6				EPA 1668		0.57	19
PCB-126	pg/L			ND	ND	ND				EPA 1668		0.63	19
PCB-128 (Co: 128/166)	pg/L			DNQ Est. Conc. 1.4	ND	DNQ Est. Conc. 1.4				EPA 1668		0.47	390
PCB-138 (Co: 129,138,163)	pg/L			DNQ Est. Conc. 12 (i)	ND	DNQ Est. Conc. 12 (i)				EPA 1668		0.49	580
PCB-149 (Co: 147,149)	pg/L			DNQ Est. Conc. 8.9 (i)	ND	DNQ Est. Conc. 8.9 (i)				EPA 1668		0.49	390
PCB-151 (Co: 135,151)	pg/L			DNQ Est. Conc. 3.6	ND	DNQ Est. Conc. 3.6				EPA 1668		0.50	390
PCB-153 and 168 (Co: 153,168)	pg/L			DNQ Est. Conc. 9 (i)	ND	DNQ Est. Conc. 9 (i)				EPA 1668		0.40	390
PCB-156 and 157 (Co: 156,157)	pg/L			DNQ Est. Conc. 1.6 (ii)	ND	DNQ Est. Conc. 1.6 (ii)				EPA 1668		0.40	39
PCB-158	pg/L			DNQ Est. Conc. 1.1	ND	DNQ Est. Conc. 1.1				EPA 1668		0.37	190
PCB-167	pg/L			DNQ Est. Conc. 0.77	ND	DNQ Est. Conc. 0.77				EPA 1668		0.31	19
PCB-169	pg/L			ND	ND	ND				EPA 1668		0.35	19
PCB-170	pg/L			DNQ Est. Conc. 2.4	ND	DNQ Est. Conc. 2.4				EPA 1668		0.34	190
PCB-177	pg/L			DNQ Est. Conc. 0.94 (ii)	ND	DNQ Est. Conc. 0.94 (ii)				EPA 1668		0.30	190
PCB-180 (Co: 180,193)	pg/L			DNQ Est. Conc. 6.1	ND	DNQ Est. Conc. 6.1				EPA 1668		0.26	390
PCB-183	pg/L			ND	ND	ND				EPA 1668		0.25	190
PCB-187	pg/L			DNQ Est. Conc. 2.6 (ii)	ND	DNQ Est. Conc. 2.6 (ii)				EPA 1668		0.21	190
PCB-189	pg/L			ND	ND	ND				EPA 1668		0.22	19
PCB-194	pg/L			DNQ Est. Conc. 1.0 (ii)	ND	DNQ Est. Conc. 1.0 (ii)				EPA 1668		0.27	190
PCB-201	pg/L			ND	ND	ND				EPA 1668		0.24	190
PCB-206	pg/L			ND	ND	ND				EPA 1668		0.42	190
PCB-28 (Co: 20,28)	pg/L			DNQ Est. Conc. 19 (ii)	ND	DNQ Est. Conc. 19 (ii)				EPA 1668		1.3	390
Pentachlorophenol	ug/L			ND	ND	ND				EPA 625.1		0.82	1.0

Table 4.4
JWPCP
2022 EFF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
pH	SU	7.1	7.3	7.2	7.2	7.1	7.1	7.1	7.0	7.0	7.1
Phenanthrene	ug/L	ND						ND			
Phenol	ug/L	1.4						1.2			
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	pg/L	ND			ND			ND			ND
Polychlorinated Biphenyls (PCBs), Sum as Congeners	pg/L							ND			
Polychlorinated Biphenyls (PCBs), Total	pg/L	ND			ND			ND			ND
Pyrene	ug/L	ND						ND			
Radium 226	pCi/L	0.155			0.0427			0.00937			0.0587
Radium 226 + 228	pCi/L	0.325			0.116			0.00937			0.561
Radium 228	pCi/L	0.170			0.0738			-0.0306			0.502
Selenium	ug/L	3.90			4.92			5.92			5.25
Settleable Solids	ml/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Silver	ug/L	DNQ Est. Conc. 0.04			DNQ Est. Conc. 0.04			DNQ Est. Conc. 0.02			DNQ Est. Conc. 0.02
Strontium-90	pCi/L	0.272			0.127			0.298			0.265
TCDD equivalents	pg/L	ND						ND			
Temperature	Degrees F	76.8	77.2	78	79.6	81.6	83.8	85.8	87.2	87.6	86.1
Tetrachloroethylene	ug/L	ND						ND			
Thallium	ug/L	ND			ND			ND			ND
Toluene	ug/L	DNQ Est. Conc. 0.23						DNQ Est. Conc. 0.14			
Total Chlordanes	ug/L		ND					ND			
Total Chromium	ug/L	1.26		1.37	1.06			1.30			1.30
Total DDT	ug/L	ND			ND			ND			ND
Total Dichlorobenzene	ug/L	ND						ND			
Total Endosulfan	ug/L	ND						ND			
Total Halomethanes	ug/L	ND						ND			
Total HCH	ug/L	ND						ND			
Total Organic Carbon	mg/L	15.0	17.5	19.0	16.3	16.2	15.2	13.0	16.9	13.3	14.5
Total PAH	ug/L	ND						ND			
Total Phenolic Compounds (chlorinated)	ug/L	ND						1.2			
Total Phenolic Compounds (non-chlorinated)	ug/L	1.4						1.2			
Total Phosphorus	mg/L	0.57			0.86			0.73			0.64
Total Suspended Solids	mg/L	16	17	18	16	15	19	16	13	12	14
Toxaphene	ug/L	ND			ND			ND			ND
trans-Nonachlor	ug/L	ND	ND					ND			
Tributyltin (TBT)	ug/L	ND						ND			
Trichloroethylene	ug/L	ND						ND			
Tritium	pCi/L	0.000			197			34.2			-49.5
Turbidity (24-Hour composite sample)	NTU	5.9	7.1	6.8	6.6	7.0	7.4	6.2	5.8	4.6	4.9
Turbidity (Grab sample)	NTU	5.6	6.4	5.9	5.6	6.8	7.1	6.6	5.9	6.2	6.1
Uranium	pCi/L	1.89			1.73			1.46			1.20
Vinyl Chloride	ug/L	ND						ND			
Zinc	ug/L	8.99			8.81			9.82			7.29

Table 4.4
JWPCP
2022 EFF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Monthly Average			NPDES Limit			Method	ML	MDL	RL
				Minimum	Average	Maximum	Max Daily	Monthly Average	Performance Goal				
pH	SU	6.9	7.0	6.9	7.1	7.3	9			SM 4500 H+ B		Not Applicable	Not Applicable
Phenanthrene	ug/L			ND	ND	ND				EPA 625.1		0.59	1.0
Phenol	ug/L			1.2	1.3	1.4				EPA 625.1		0.24	1.0
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	pg/L			ND	ND	ND		350		Calculated		Not Applicable	Not Applicable
Polychlorinated Biphenyls (PCBs), Sum as Congeners	pg/L			ND	ND	ND		350		Calculated		Not Applicable	Not Applicable
Polychlorinated Biphenyls (PCBs), Total	pg/L			ND	ND	ND		350		Calculated		Not Applicable	Not Applicable
Pyrene	ug/L			ND	ND	ND				EPA 625.1		0.60	1.0
Radium 226	pCi/L			0.00937	0.664	0.155				EPA 903.0		0.155 - 0.303	1.00
Radium 226 + 228	pCi/L			0.00937	0.253	0.561				EPA 903.0		0.558 - 0.756	5.00
Radium 228	pCi/L			-0.0306	0.186	0.502				EPA 904.0		0.558 - 0.756	1.00
Selenium	ug/L			3.90	5.00	5.92			11	EPA 200.8	2	0.04	1.00
Settleable Solids	ml/L	ND	ND	ND	0.1	0.2	1.5	0.5		SM 2540F		Not Applicable	0.1
Silver	ug/L			DNQ Est. Conc. 0.02	ND	DNQ Est. Conc. 0.04			0.2	EPA 200.8	0.25	0.02	0.20
Strontium-90	pCi/L			0.127	0.240	0.298				EPA 905.0		0.363 - 0.58	3.00
TCDD equivalents	pg/L			ND	ND	ND		0.65		Calculated		Not Applicable	Not Applicable
Temperature	Degrees F	81.7	79	76.8	82.0	87.6	100			EPA 170.1 (oF)		Not Applicable	Not Applicable
Tetrachloroethylene	ug/L			ND	ND	ND			20	EPA 624.1		0.16 - 0.18	0.50
Thallium	ug/L			ND	ND	ND			0.6	EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L			DNQ Est. Conc. 0.14	ND	DNQ Est. Conc. 0.23			0.5	EPA 624.1		0.04 - 0.15	0.50
Total Chlordanes	ug/L			ND	ND	ND		0.0038		Calculated		Not Applicable	Not Applicable
Total Chromium	ug/L			1.06	1.26	1.37				EPA 200.8	0.5	0.27 - 0.28	0.50
Total DDT	ug/L			ND	ND	ND		0.0158		Calculated		Not Applicable	Not Applicable
Total Dichlorobenzene	ug/L			ND	ND	ND			0.5	Calculated		Not Applicable	Not Applicable
Total Endosulfan	ug/L			ND	ND	ND			0.015	Calculated		Not Applicable	Not Applicable
Total Halomethanes	ug/L			ND	ND	ND			1	Calculated		Not Applicable	Not Applicable
Total HCH	ug/L			ND	ND	ND			0.015	Calculated		Not Applicable	Not Applicable
Total Organic Carbon	mg/L	14.2	15.0	13.0	15.5	19.0				SM 5310C		0.15 - 0.18	2.50 - 5.00
Total PAH	ug/L			ND	ND	ND			0.95	Calculated		Not Applicable	Not Applicable
Total Phenolic Compounds (chlorinated)	ug/L			ND	0.60	1.2			1.9	Calculated		Not Applicable	Not Applicable
Total Phenolic Compounds (non-chlorinated)	ug/L			1.2	1.3	1.4			3.6	Calculated		Not Applicable	Not Applicable
Total Phosphorus	mg/L			0.57	0.70	0.86				SM4500P-E		0.0100	0.250
Total Suspended Solids	mg/L	10	12	10	15	19		30		SM 2540D		Not Applicable	2.5 - 8.3
Toxaphene	ug/L			ND	ND	ND		0.035		EPA 608.3		0.05	0.5
trans-Nonachlor	ug/L			ND	ND	ND				EPA 608.3		0.004	0.01
Tributyltin (TBT)	ug/L			ND	ND	ND			0.01	Tributyltin by GC/FPD / SM6710B		0.0023 - 1.0	0.0050 - 3.1
Trichloroethylene	ug/L			ND	ND	ND			0.85	EPA 624.1		0.12 - 0.15	0.50
Tritium	pCi/L			-49.5	57.8	197				EPA 906.0		260 - 397	500
Turbidity (24-Hour composite sample)	NTU	3.7	4.0	3.9	5.9	7.2		75		SM 2130B		0.060 - 0.15	0.50
Turbidity (Grab sample)	NTU	5.7	3.8	3.8	6.0	7.1	225			SM 2130B		0.060 - 0.15	0.50
Uranium	pCi/L			1.20	1.57	1.89				EPA 908.0		0.106 - 0.324	1.00
Vinyl Chloride	ug/L			ND	ND	ND			1.3	EPA 624.1		0.25 - 0.37	0.50
Zinc	ug/L			7.29	8.73	9.82			17	EPA 200.8	1	0.92 - 0.95	1.00

(i) Blank contamination observed.
(ii) Possible interference observed. The measured ion ratio did not meet qualitative criteria for analysis and results are considered to be an estimated maximum possible concentratic

TABLE 8-1

WATER QUALITY CHARACTERISTICS AT JWPCP

Parameter	JWPCP Average Influent Concentration (mg/L)	JWPCP Average Effluent Concentration (mg/L)	Performance Goals (mg/L)
Arsenic	0.00535	0.00213	0.0025
Cadmium	0.00074	ND	0.0001
Chromium (+6)[1]	0.00008	0.0001	0.0015
Copper	0.100	0.0033	0.0049
Lead	0.00415	ND	0.0004
Mercury	0.00016	ND	0.00004
Nickel	0.0205	0.0072	0.013
Selenium	0.0123	0.00500	0.011
Silver	0.00080	ND	0.0002
Zinc	0.290	0.00873	0.017
Cyanide	0.0103	0.0026	0.010
Phenols	0.248	0.0019	-
TICH[2]	ND	ND	-
Ammonia	46.9	43.2	47

[1] Total Recoverable Metals

[2] Some TICH compounds have monthly average limits. The limits shown here is the sum of the monthly average limits or performance goals for aldrin dieldrin, chlordane, DDTs, toxaphene and PCBs. Limits for individual compounds may be much lower.

Table 4.6
JOINT WATER POLLUTION CONTROL PLANT
2022 CALCULATED MASS EMISSION RATE

Ocean Plan Constituent	Annual Average Concentration (ug/L)	Annual Average Flow (MGD)	Calculated Mass Emission Rate (MT/yr)	12-month Average Mass Emission Benchmarks From Permit (MT/yr)	Ratio, Mass Emission Rate to Benchmark (%)
Marine Aquatic Life Toxicants					
Arsenic	2.13	237	0.696	**1.3**	**54%**
Cadmium	ND	237	ND	**0.1**	**ND**
Chromium (hexavalent)	0.1	237	0.03	**0.8**	**4%**
Copper	3.3	237	1.1	**2.6**	**42%**
Lead	ND	237	ND	**0.2**	**ND**
Mercury	ND	237	ND	**0.02**	**ND**
Nickel	7.2	237	2.4	**6.9**	**34%**
Selenium	5.00	237	1.64	**5.9**	**28%**
Silver	ND	237	ND	**0.1**	**ND**
Zinc	8.73	237	2.86	**9.0**	**32%**
Cyanide	2.60	237	0.85	**5.3**	**16%**
Ammonia as N	43,200	237	14,146	**25,000**	**57%**
Phenolic compounds (non-chlorinated)	1.3	237	0.43	**1.9**	**22%**
Phenolic compounds (chlorinated)	0.60	237	0.20	**1.0**	**20%**
Endosulfan	ND	237	ND	**0.008**	**ND**
HCH	ND	237	ND	**0.008**	**ND**
Endrin	ND	237	ND	**0.005**	**ND**
Human Health Toxicants - Non Carcinogens					
Acrolein	ND	237	ND	**2.7**	**ND**
Antimony	1.66	237	0.544	**3.6**	**15%**
Bis(2chloroethoxy)methane	ND	237	ND	**0.7**	**ND**
Bis(2chloroisopropyl)ether	ND	237	ND	**0.8**	**ND**
Chlorobenzene	ND	237	ND	**0.6**	**ND**
Chromium (III)	1.2	237	0.39	**1.5**	**26%**
Di-n-butyl-phthalate	ND	237	ND	**2.3**	**ND**
Dichlorobenzenes	ND	237	ND	**0.3**	**ND**
Diethyl phthalate	ND	237	ND	**1.1**	**ND**
Dimethyl phthalate	ND	237	ND	**1.0**	**ND**
2-Methyl-4,6-dinitrophenol	ND	237	ND	**6.9**	**ND**
2,4-Dinitrophenol	ND	237	ND	**9.0**	**ND**
Ethylbenzene	ND	237	ND	**1.0**	**ND**
Fluoranthene	ND	237	ND	**1.0**	**ND**
Hexachlorocyclopentadiene	ND	237	ND	**4.0**	**ND**
Nitrobenzene	ND	237	ND	**1.2**	**ND**
Thallium	ND	237	ND	**0.3**	**ND**
Toluene	ND	237	ND	**0.3**	**ND**
Tributyltin	ND	237	ND	**0.005**	**ND**
1,1,1-Trichloroethane	ND	237	ND	**1.0**	**ND**
Human Health Toxicants - Carcinogens					
Acrylonitrile	ND	237	ND	**1.4**	**ND**
Aldrin	ND	237	ND	**0.002**	**ND**
Benzene	ND	237	ND	**0.399**	**ND**
Beryllium	ND	237	ND	**0.1**	**ND**
Bis(2-chloroethyl) ether	ND	237	ND	**0.5**	**ND**
Bis(2-ethylhexyl) phthalate	ND	237	ND	**7.4**	**ND**
Carbon tetrachloride	ND	237	ND	**0.5**	**ND**
Chlorodibromomethane	ND	237	ND	**1.3**	**ND**
Chloroform	16.4	237	5.37	**13.5**	**40%**
1,4-Dichlorobenzene	ND	237	ND	**0.5**	**ND**
1,2-Dichloroethane	ND	237	ND	**0.3**	**ND**
1,1-Dichloroethylene	ND	237	ND	**0.6**	**ND**
Bromodichloromethane	0.28	237	0.092	**0.8**	**11%**
Dichloromethane	2.4	237	0.79	**1.6**	**49%**
1,3-Dichloropropene	ND	237	ND	**0.3**	**ND**
2,4-Dinitrotoluene	ND	237	ND	**0.5**	**ND**
1,2-Diphenylhydrazine	ND	237	ND	**0.3**	**ND**
Halomethanes	ND	237	ND	**0.5**	**ND**
Hexachlorobutadiene	ND	237	ND	**0.4**	**ND**
Hexachloroethane	ND	237	ND	**0.4**	**ND**
Isophorone	ND	237	ND	**0.3**	**ND**
N-Nitrosodimethylamine	0.27	237	0.088	**0.4**	**22%**
N-Nitrosodi-N-propylamine	ND	237	ND	**0.3**	**ND**
N-Nitrosodiphenylamine	ND	237	ND	**0.4**	**ND**
PAHs	ND	237	ND	**0.5**	**ND**
1,1,2,2-Tetrachloroethane	ND	237	ND	**0.2**	**ND**
Tetrachloroethylene	ND	237	ND	**10.6**	**ND**
Trichloroethylene	ND	237	ND	**0.5**	**ND**
1,1,2-Trichloroethane	ND	237	ND	**0.2**	**ND**
2,4,6-Trichlorophenol	0.6	237	0.2	**0.3**	**65%**
Vinyl Chloride	ND	237	ND	**0.7**	**ND**

1. ND = Not Detected

2. Mass Emission Rates were calculated using the annual average concentration and annual average flow and have been rounded in the above table. Values were not rounded when calculating the Ratio.

JWPCP Biosolids Monitoring

NPDES ID: CAL053813
Biosolids Status: Active
Facility Name: LACSD - JWPCP
P.O. BOX 4998 WHITTIER, CA 90607-4998

View Annual Report

NPDES FORM 6100-035		UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 BIOSOLIDS ANNUAL REPORT	Form Approved. OMB No. 2040-0004. Exp. 03/31/2022

EPA's sewage sludge regulations require certain publicly owned treatment works (POTWs) and Class I sewage sludge management facilities to submit to a Sewage Sludge (Biosolids) Annual Report (see 40 CFR 503.18 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_118), 503.28 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_128), 503.48 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_148)). Facilities that must submit a Sewage Sludge (Biosolids) Annual Report include POTWs with a design flow rate equal to or greater than one million gallons per day, POTWs that serve 10,000 people or more, Class I Sludge Management Facilities (as defined by 40 CFR 503.9 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19)), and facilities otherwise required to file this report (e.g., permit condition, enforcement action, state law). This is the electronic form for Sewage Sludge (Biosolids) Annual Report filers to use if they are located in one of the states, tribes, or territories (https://www.epa.gov/npdes/npdes-state-program-information) where EPA administers the Federal biosolids program.

For the purposes of this form, the term 'sewage sludge (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19)' also refers to the material that is commonly referred to as 'biosolids'. EPA does not have a regulatory definition for biosolids but this material is commonly referred to as sewage sludge that is placed on, or applied to the land to use the beneficial properties of the material as a soil amendment, conditioner, or fertilizer. EPA's use of the term 'biosolids' in this form is to confirm that information about beneficially used sewage sludge (a.k.a. biosolids) should be reported on this form.

Public Availability of Information Submitted on and with General Permit Reports

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk (NPDESeReporting@epa.gov (mailto:NPDESereporting@epa.gov)) for further guidance.

Please note that EPA may contact you after you submit this report for more information regarding your sewage sludge management program.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with EPA regulations (40 CFR 503.18, 503.28, and 503.48). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 3 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden including through the use of automated collection techniques to the Director, Regulatory Support Division, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Program Information

Please select all of the following that apply to your obligation to submit a Sewage Sludge (Biosolids) Annual Report in compliance with 40 CFR part 503. The facility is:

- a Class I Sludge Management Facility as defined in 40 CFR 503.9
- a POTW with a design flow rate equal to or greater than one million gallons per day
- a POTW that serves 10,000 people or more

In the reporting period, did you manage your sewage sludge or biosolids using any of the following management practices: land application, surface disposal, or incineration?

☑ YES ☐ NO

If your facility is a POTW, please provide the estimated total amount of sewage sludge produced at your facility for the reporting period (in dry metric tons). If your facility is not a POTW, please provide the estimated total amount of biosolids produced at your facility for the reporting period (in dry metric tons).

112105

Reporting Period Start Date: 01/01/2022 **Reporting Period End Date:** 12/31/2022

Treatment Processes

Processes to Significantly Reduce Pathogens (PSRP):
Anaerobic Digestion

Processes to Further Reduce Pathogens (PFRP):

Physical Treatment Options:
Preliminary Operations (e.g., sludge grinding, degritting, blending)
Thickening (e.g., Gravity and/or Flotation Thickening, Centrifugation, Belt Filter Press, Vacuum Filter, Screw Press)

Other Processes to Manage Sewage Sludge:
Methane or Biogas Capture and Recovery

Analytical Methods

Did you or your facility collect sewage sludge or biosolids samples for laboratory analysis? ☑ YES ☐ NO

Analytical Methods

- EPA Method 6020 - Arsenic (ICP-MS)
- EPA Method 6020 - Cadmium (ICP-MS)
- EPA Method 6020 - Chromium (ICP-MS)
- EPA Method 6020 - Copper (ICP-MS)
- EPA Method 6020 - Lead (ICP-MS)
- EPA Method 7471 - Mercury (CVAA)
- EPA Method 6020 - Molybdenum (ICP-MS)
- EPA Method 6020 - Nickel (ICP-MS)
- EPA Method 6020 - Selenium (ICP-MS)
- EPA Method 7010 - Zinc (GF-AAS)
- Standard Method 4500-NH3 - Ammonia Nitrogen
- Standard Method 4500-Norg - Organic Nitrogen
- Standard Method 2540 - Total Solids

- Standard Method 9221 - Fecal coliform

Other Analytical Methods

- Other Nitrate Nitrogen Analytical Method
  Other Analytical Methods Text Area:
  SM 4500 NO3

- Other Nitrogen Analytical Method
  Other Analytical Methods Text Area:
  Total Nitrogen - Calculated

- Other Total Kjeldahl Nitrogen Analytical Method
  Other Analytical Methods Text Area:
  SM 4500

Sludge Management - Land Application

ID: 001

Amount: 4457

Management Practice Detail: Agricultural Land Application

Bulk or Bag/Container: Bulk

Handler, Preparer, or Applier Type: Off-Site Third-Party Handler or Applier

NPDES ID of handler:

Facility Information:
Denali Water Solutions
2001 West Key Street
Colton, CA 92324
US

Contact Information:
Vanya Colburn
Environmental Compliance Manager
479-239-0467
Vanya.Colburn@denaliwater.com

Pathogen Class: Class B

Sewage Sludge or Biosolids Pathogen Reduction Options:

- Class B-Alternative 2 PSRP 3: Anaerobic Digestion

Sewage Sludge or Biosolids Vector Attraction Reduction Options:

- Option 1 - Volatile Solids Reduction

Did the facility land apply bulk sewage sludge when one or more pollutants in the sewage sludge exceeded 90 percent or more of any of the cumulative pollutant loading rates in Table 2 of 40 CFR 503.13?

☐ YES ☐ NO ☑ UNKNOWN

Monitoring Data

INSTRUCTIONS: Pollutants, pathogen densities, and vector attraction reduction must be monitored when sewage sludge or biosolids are applied to the land. Please use the following section to report monitoring data for the land application conducted by you or your facility in the reporting period for this SSUID. These monitoring data should be representative of the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID (40 CFR 503.8(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_18)). All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis. EPA will be using these data to demonstrate compliance with EPA's land application requirements (40 CFR 503, Subpart B).

Compliance Monitoring Periods

INSTRUCTIONS: Please use the table below to identify the start date and end date for each compliance monitoring period. You can adjust the start and end dates as needed. Please note that the compliance monitoring periods cannot overlap and that each compliance monitoring period must have a start date that is equal to or less than the end date. The number of compliance monitoring periods is based on the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period (summed across all land application SSUIDs). For example, you will need to provide monitoring data for 12 compliance monitoring periods for each land application SSUID when you land apply 15,000 or more metric tons (dry weight basis) of sewage sludge or biosolids (summed across all land application SSUIDs) in the reporting period (see 40 CFR 503.16 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_116)).

Compliance Monitoring Event No. 1	Compliance Monitoring Period Start Date:	Compliance Monitoring Period End Date:
	01/01/2022	02/28/2022

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	9.41	
Cadmium	=	1.6	
Copper	=	306	
Lead	=	12.6	
Mercury	=	0.6	
Molybdenum	=	22.3	
Nickel	=	36	
Selenium	=	26.8	
Zinc	=	737	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	55	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	8.9	
Cadmium	=	1.5	
Copper	=	284	
Lead	=	12.6	
Mercury	=	0.54	
Nickel	=	34.6	
Selenium	=	25.8	
Zinc	=	669	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	62500	

Compliance Monitoring Event No. 2 **Compliance Monitoring Period Start Date:** 03/01/2022 **Compliance Monitoring Period End Date:** 04/30/2022

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13

(http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	9.28	
Cadmium	=	2.9	
Copper	=	346	
Lead	=	13.4	
Mercury	=	0.75	
Molybdenum	=	23.5	
Nickel	=	39.5	
Selenium	=	32.9	
Zinc	=	764	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	53	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	8.75	
Cadmium	=	2.9	
Copper	=	337	
Lead	=	12.9	
Mercury	=	0.7	
Nickel	=	38.5	
Selenium	=	32.2	
Zinc	=	762	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	54200	

Compliance Monitoring Event No. 3 **Compliance Monitoring Period Start Date:** 05/01/2022 **Compliance Monitoring Period End Date:** 06/30/2022

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.07	
Cadmium	=	2.8	
Copper	=	310	
Lead	=	13.3	
Mercury	=	0.64	
Molybdenum	=	30.2	
Nickel	=	38.6	
Selenium	=	33.7	
Zinc	=	748	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
    - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	50	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.07	
Cadmium	=	2.6	
Copper	=	301	
Lead	=	13	
Mercury	=	0.57	
Nickel	=	37.3	
Selenium	=	33.4	
Zinc	=	723	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	60500	

Compliance Monitoring Event No. 4 **Compliance Monitoring Period Start Date:** 07/01/2022 **Compliance Monitoring Period End Date:** 08/31/2022

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.67	
Cadmium	=	3.3	
Copper	=	318	
Lead	=	12.4	
Mercury	=	0.56	
Molybdenum	=	27.2	
Nickel	=	40.1	
Selenium	=	32.4	
Zinc	=	747	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	50	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	7.56	
Cadmium	=	3.1	
Copper	=	312	
Lead	=	12.1	
Mercury	=	0.54	
Nickel	=	40	
Selenium	=	31.9	
Zinc	=	747	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	59200	

Compliance Monitoring Event No. 5 **Compliance Monitoring Period Start Date:** **Compliance Monitoring Period End Date:**

09/01/2022 10/31/2022

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	8.65	
Cadmium	=	2.7	
Copper	=	323	
Lead	=	12.4	
Mercury	=	0.65	
Molybdenum	=	47.3	
Nickel	=	44.9	
Selenium	=	30.5	
Zinc	=	753	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	50	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	8.43	
Cadmium	=	2.7	
Copper	=	318	
Lead	=	12.2	
Mercury	=	0.62	
Nickel	=	42.9	
Selenium	=	30.3	
Zinc	=	741	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	54100	

Compliance Monitoring Event No. 6 **Compliance Monitoring Period Start Date:** 11/01/2022 **Compliance Monitoring Period End Date:** 12/31/2022

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	9.09	
Cadmium	=	3.1	
Copper	=	334	
Lead	=	12.8	
Mercury	=	0.55	
Molybdenum	=	66.7	
Nickel	=	49.3	
Selenium	=	32.9	
Zinc	=	748	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	54	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	8.91	
Cadmium	=	2.6	
Copper	=	322	
Lead	=	12.5	
Mercury	=	0.52	
Nickel	=	47	
Selenium	=	31.7	
Zinc	=	740	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	49700	

Sludge Management - Surface Disposal

Sludge Management - Incineration

Sludge Management - Other Management Practice

ID: 002

Amount: 39066

Management Practice Detail: Disposal in a Municipal Landfill (under 40 CFR 258)

Handler, Preparer, or Applier Type: Off-Site Third-Party Handler or Applier

NPDES ID of handler:

Facility Information:
H.M. Holloway Landfill
13850 Holloway Road
Lost Hills, CA 93249
US

Contact Information:
Manuel Avalos
Mine Superintendent
661-431-2286
mavalos@hmholloway.com

Pathogen Class: Class B

Do you have any deficiencies to report for this SSUID? ☐ YES ☐ NO ☑ UNKNOWN

ID: 003

Amount: 15743

Management Practice Detail: Disposal in a Municipal Landfill (under 40 CFR 258)

Handler, Preparer, or Applier Type: Off-Site Third-Party Handler or Applier

NPDES ID of handler:

Facility Information:
Salton City Landfill
935 W. Highway 86
Salton City, CA 92275
US

Contact Information:
David Brischke
Director of Engineering
909-743-6319
dbrischke@burrtec.com

Pathogen Class: Class B

Do you have any deficiencies to report for this SSUID? ☐ YES ☐ NO ☑ UNKNOWN

ID: 005

Amount: 2664

Management Practice Detail: Other

Other Management Practice Detail Description: Composting

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler: CAL000718

Facility Information:
SYNAGRO SOUTH KERN COMPOST MANUFACTURING
P.O. Box 265
Taft, CA 93268
US

Contact Information:
Robert Rankin
Site Manager
661-765-2200
RRankin@SYNAGRO.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☐ NO ☑ UNKNOWN

ID: 006

Amount: 6827

Management Practice Detail: Other

Other Management Practice Detail Description: Composting

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler: CAL010500

Facility Information:
NURSERY PRODUCTS HAWES COMPOSTING FACILITY
P.O. Box 1439
Helendale, CA 94342
US

Contact Information:
Venny Vasquez
Site Manager
209-725-2828
vvasquez@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☐ NO ☑ UNKNOWN

ID: 007

Amount: 4769

Management Practice Detail: Other

Other Management Practice Detail Description: Composting

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

Facility Information:
Arizona Soils Composting Facility
41326 McVey Road
Vicksburg, AZ 85348
US

Contact Information:
Brian Millage
Site Manager
623-236-0974
bmillage@SYNAGRO.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☐ NO ☑ UNKNOWN

ID: 008

Amount: 8389

Management Practice Detail: Other

Other Management Practice Detail Description: Composting

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler: CAL000243

Facility Information:
LIBERTY COMPOSTING
P.O. Box 5
Lost Hills, CA 93249
US

Contact Information:
Wilson Nolan
Site Manager
661-619-7320
wnolan@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☐ NO ☑ UNKNOWN

ID: 009

Amount: 18634

Management Practice Detail: Other

Other Management Practice Detail Description: Composting

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler: CAL001064

Facility Information:
INLAND EMPIRE REGIONAL COMPOSTING FACILITY
P.O. Box 2470
Chino Hills, CA 91709
US

Contact Information:
Jeff Ziegenbein
Manager of Regional Compost Operation
909-993-1981
jziegenb@ieua.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☐ NO ☑ UNKNOWN

ID: 010

Amount: 11001

Management Practice Detail: Other

Other Management Practice Detail Description: Composting

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler: CAL034318

Facility Information:
TULARE LAKE COMPOST
34318 23rd Avenue
Kettleman City, CA 93239
US

Contact Information:
Richard Kish
Compost Facility Superintendent
559-762-7072
richardkish@lacsd.org

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

ID: 011

Amount: 556

Management Practice Detail: Other

Other Management Practice Detail Description: Biosolids Heat Drying to a Moisture Content 10% or Lower

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

Facility Information:
Anaergia's Rialto Bioenergy Facility
503 East Santa Ana Avenue
Bloomington, CA 92316
US

Contact Information:
Yaniv Scherson
Managing Director, Western US
760-436-8870 ext. 169
yaniv.scherson@anaergia.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☐ NO ☑ UNKNOWN

Additional Information

Please enter any additional information that you would like to provide in the comment box below.

Additional Attachments

Name	Created Date	Size
JWPCP_NANI_Data_Summary.pdf	02/02/2023 2:28 PM	171.75 KB
LACSD Annual FINAL.pdf	02/14/2023 4:23 PM	1.11 MB

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

Certified By: Matthew J. Bao (MATTHEWBAO)

Certified On: 02/15/2023 7:51 AM

2022 BIOSOLIDS MANAGEMENT PROGRAM
JWPCP Biosolids Cake -Total Metals Concentrations
mg/kg Dry Weight

Sample No.	Date	% TS	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	Al
22011200278	1/11/2022	28.4	8.38	1.3	59.3	262	12.5	0.481	22.3	33.1	24.8	601	6,590
22020900292	2/8/2022	28.3	9.41	1.6	66.3	306	12.6	0.60	20.3	36.0	26.8	737	-
22030200176	3/1/2022	28.8	9.28	2.9	68.4	346	12.3	0.64	22.1	39.5	31.5	759	-
22040600166	4/5/2022	28.1	8.22	2.9	85.0	328	13.4	0.75	23.5	37.5	32.9	764	7,850
22050400276	5/3/2022	29.2	7.07	2.8	68.6	310	13.3	0.64	30.2	38.6	33.7	748	-
22061500197	6/14/2022	28.7	7.06	2.3	80.6	292	12.7	0.49	23.8	36.0	33.1	698	-
22071300243	7/12/2022	28.5	7.44	3.3	77.4	318	12.4	0.515	23.9	39.9	32.4	746	7,820
22080300294	8/2/2022	27.7	7.67	2.8	77.8	305	11.7	0.56	27.2	40.1	31.3	747	-
22090700183	9/6/2022	28.4	8.21	2.7	75.4	313	12.0	0.59	24.7	40.8	30.5	729	-
22102100352	10/20/2022	28.7	8.65	2.7	74.4	323	12.4	0.65	47.3	44.9	30.0	753	8,570
22111000166	11/9/2022	28.4	9.09	3.1	79.0	334	12.8	0.49	66.7	49.3	30.5	748	-
22120700288	12/6/2022	27.7	8.72	2.1	115.0	310	12.1	0.55	31.7	44.6	32.9	731	-
MEAN		**28.4**	**8.27**	**2.5**	**77.3**	**312**	**12.5**	**0.58**	**30.3**	**40.0**	**30.9**	**730**	**7,710**
MAX			**9.41**	**3.3**	**115.0**	**346**	**13.4**	**0.75**	**66.7**	**49.3**	**33.7**	**764**	**8,570**
TABLE 1 LIMITS		****	**75**	**85**	****	**4,300**	**840**	**57**	**75**	**420**	**100**	**7,500**	****
TABLE 3 LIMITS		****	**41**	**39**	****	**1,500**	**300**	**17**	****	**420**	**100**	**2,800**	****

Sample No.	Date	% TS	Sb	Ba	Be	Co	Fe	Mn	K	Ag	Tl	Sn	V
22011200278	1/11/2022	28.4	2.04	945	0.088	6.33	77,200	181	799	2.16	< 0.20	< 300	70.4
22020900292	2/8/2022	28.3	-	-	-	-	-	-	-	-	-	-	-
22030200176	3/1/2022	28.8	-	-	-	-	-	-	-	-	-	-	-
22040600166	4/5/2022	28.1	2.63	1,020	0.093	8.26	91,000	206	897	2.81	< 0.20	< 298	90.9
22050400276	5/3/2022	29.2	-	-	-	-	-	-	-	-	-	-	-
22061500197	6/14/2022	28.7	-	-	-	-	-	-	-	-	-	-	-
22071300243	7/12/2022	28.5	3.04	1,120	0.079	7.87	88,600	214	867	2.59	< 0.20	< 99.3	79.1
22080300294	8/2/2022	27.7	-	-	-	-	-	-	-	-	-	-	-
22090700183	9/6/2022	28.4	-	-	-	-	-	-	-	-	-	-	-
22102100352	10/20/2022	28.7	2.69	1,000	0.091	8.31	99,300	224	933	2.99	< 0.20	< 99.4	86.0
22111000166	11/9/2022	28.4	-	-	-	-	-	-	-	-	-	-	-
22120700288	12/6/2022	27.7	-	-	-	-	-	-	-	-	-	-	-
MEAN		**28.4**	**2.60**	**1,021**	**0.088**	**7.69**	**89,000**	**206**	**874**	**2.64**	**ND**	**ND**	**81.6**
MAX			**3.04**	**1,120**	**0.093**	**8.31**	**99,300**	**224**	**933**	**2.99**	**ND**	**ND**	**90.9**

\ = No limit
ND = Not Detected

2022 BIOSOLIDS MANAGEMENT PROGRAM
JWPCP Biosolids Cake - Nutrients and Miscellaneous Constituents
mg/kg Dry Weight (or as indicated)

Sample No.	Date	% TS	Sulfur	PO_4	NH_3-N	Org-N	NO_3-N	NO_2-N	Boron	pH	Fecal Coliform (MPN/g)	TKN	TN
22011200278	1/11/2022	28.4	25,900	82,600	6,930	57,800	< 140	< 7.03	21.8	7.8	19,000,000	64,700	64,900
22020900292	2/8/2022	28.3	30,600	-	3,970	56,100	< 141	< 7.06	-	-	-	60,100	60,200
22030200176	3/1/2022	28.8	37,200	-	4,130	51,800	< 139	< 6.95	-	-	-	56,000	56,100
22040600166	4/5/2022	28.1	35,200	84,100	4,340	47,900	< 142	< 7.13	26.1	7.8	-	52,200	52,400
22051100265*	5/10/2022	29.2	35,200	-	7,400	44,000	< 137	< 6.89	-	-	-	51,000	51,500
22061500197	6/14/2022	28.7	35,400	-	5,300	64,000	< 137	< 0.348	-	-	-	69,000	69,400
22071300243	7/12/2022	28.5	37,500	77,100	4,800	61,000	< 139	< 7.03	28.8	8.1	32,000,000	66,000	66,000
22080300294	8/2/2022	27.7	36,000	-	6,610	45,700	< 144	< 7.21	-	-	-	52,300	52,500
22090700183	9/6/2022	28.4	37,800	-	4,030	50,100	< 141	< 7.10	-	-	-	54,100	54,300
22102100352 **	10/20/2022	28.7	39,700	72,800	4,610	49,100	< 136	< 6.91	27.9	7.7	-	53,700	54,900
22111000166	11/9/2022	28.4	40,100	-	4,760	40,000	< 140	< 7.04	-	-	-	44,800	45,000
22120700288	12/6/2022	27.7	35,900	-	5,130	49,200	< 144	< 7.21	-	-	-	54,400	54,500
MEAN		**28.4**	**35,500**	**79,200**	**5,200**	**51,000**	**ND**	**ND**	**26.2**	**7.9**	**26,000,000**	**57,000**	**57,000**
MAX			**40,100**	**84,100**	**7,400**	**64,000**	**ND**	**ND**	**28.8**	**8.1**	**32,000,000**	**69,000**	**69,400**

ND = Not Detected

* 22052700166 = Ammonia results were out of holding time and resampled for May.

** = Org N and NH3-N, Nitrate-N, Nitrite-N, and TKN were resampled for October in lab sample id: 22110200218.

4th Quarter 2022 BIOSOLIDS MANAGEMENT PROGRAM
JWPCP Biosolids Cake -Soluble Metals Concentrations - mg/L
Analyzed by California Title 22 Waste Extraction Test

Sample No.	Date	Al	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Fe
22011200412	1/11/2022	166	0.04	0.151	20.4	< 0.01	< 0.005	1.04	0.121	< 0.10	2,250
22040600168	4/5/2022	174	0.05	0.145	21.7	< 0.01	< 0.005	1.05	0.129	< 0.10	2,200
22071300242	7/12/2022	176	0.05	0.139	25.2	< 0.01	< 0.005	1.07	0.137	< 0.10	2,330
22102100354	10/20/2022	198	0.05	0.170	24.9	< 0.01	< 0.005	1.27	0.158	< 0.10	2,800
MEAN		**179**	**0.05**	**0.151**	**23.1**	**ND**	**ND**	**1.11**	**0.136**	**ND**	**2,395**
MAX		**198**	**0.05**	**0.170**	**25.2**	**ND**	**ND**	**1.27**	**0.158**	**ND**	**2,800**
TITLE 22 STLCs		****	**15**	**5.0**	**100**	**0.75**	**1**	**5**	**80**	**25**	****

Sample No.	Date	Pb	Hg	Mo	Ni	K	Se	Ag	Tl	Sn	V	Zn
22011200412	1/11/2022	0.031	< 0.0005	0.297	< 1.00	< 0.05	0.0283	< 0.02	< 0.04	0.0436	1.70	7.25
22040600168	4/5/2022	0.056	< 0.0005	0.310	< 1.00	< 0.05	0.0436	< 0.02	< 0.04	0.0677	1.84	8.87
22071300242	7/12/2022	0.043	< 0.0025	0.314	< 1.00	< 0.05	0.0408	< 0.02	< 0.04	0.0608	1.75	8.61
22102100354	10/20/2022	0.024	< 0.0005	0.752	< 1.00	< 0.05	0.0361	< 0.02	< 0.04	0.0731	2.08	7.30
MEAN		**0.039**	**ND**	**0.418**	**ND**	**ND**	**0.0372**	**ND**	**ND**	**0.0613**	**1.84**	**8.01**
MAX		**0.056**	**ND**	**0.752**	**ND**	**ND**	**0.0436**	**ND**	**ND**	**0.0731**	**2.08**	**8.87**
TITLE 22 STLCs		**5.0**	**0.2**	**350**	**20**	****	**1.0**	**5**	**7.0**	****	**24**	**250**

ND = Not Detected
\ = No Limit

2022 BIOSOLIDS MANAGEMENT PROGRAM

JWPCP Digester Performance

Month	Temp (°F)	Detention Time (Days)	VSD (%)
January	96.0	21	55
February	95.8	20	52
March	96.1	21	53
April	96.1	20	51
May	96.2	20	50
June	96.2	20	49
July	96.4	21	49
August	96.3	23	50
September	96.4	20	49
October	96.3	20	50
November	96.2	19	51
December	96.0	20	54
MEAN	**96.2**	**20**	**51**
MIN	**95.8**	**19**	**49**

Semi-Annual JWPCP Biosolids Cake
Detected Priority Pollutants
mg/kg on a Dry Weight Basis

Date	1/11/22	7/12/22
Sample Numbers	22011200277	22071300242
	22011200278	22071300243
Constituent	**Result (mg/kg)**	**Result (mg/kg)**
Arsenic	8.38	7.44
Beryllium	0.088	0.079
Cadmium	1.3	3.3
Chromium	59.3	77.4
Copper	262	318
Lead	12.5	12.4
Mercury	0.48	0.515
Nickel	33.1	39.9
Selenium	24.8	32.4
Silver	2.16	2.59
Zinc	601	746
Antimony	2.04	3.04
Total Cyanide	0.42	2.07
Ethyl Benzene	ND	0.48
Dieldrin	0.049	ND
Diethylhexyl Phthalate	0.052	ND
PP'-DDE	0.014	ND

JWPCP BIOSOLIDS CAKE
2021 SEMI - ANNUAL 24-HOUR COMPOSITE SAMPLES

Sample Numbers	22011200277	22071300242	
	22011200278	22071300243	
		22071300244	
Sample Date:	**1/11/2022**	**7/13/2022**	**Dry Weight**
Description	**Result**	**Result**	**Unit of Measure**
PH	7.8	8.1	PH
TOTAL SOLIDS	28.4	28.5	%
TOTAL CYANIDE	0.42	2.07	MG/KG CN
ARSENIC	8.38	7.44	MG/KG AS
CADMIUM	1.3	3.3	MG/KG CD
TOTAL CHROMIUM	59.3	77	MG/KG CR
COPPER	262	318	MG/KG CU
LEAD	12.5	12.4	MG/KG PB
MERCURY	0.481	0.52	MG/KG HG
NICKEL	33.1	39.9	MG/KG NI
SELENIUM	24.8	32.4	MG/KG SE
SILVER	2.16	2.59	MG/KG AG
ZINC	601	746	MG/KG ZN
ANTIMONY	2.04	3.0	MG/KG SB
BERYLLIUM	0.088	0.079	MG/KG BE
THALLIUM	< 0.20	< 0.20	MG/KG TL
BARIUM	945	1,120	MG/KG BA
ALUMINUM	6,590	7,820	MG/KG AL
COBALT	6.33	7.9	MG/KG CO
IRON	77,200	88,600	MG/KG FE
MANGANESE	181	214	MG/KG MN
POTASSIUM	799	867	MG/KG K
MOLYBDENUM	22.3	23.9	MG/KG MO
TIN	< 300.0	< 99.3	MG/KG SN
VANADIUM	70.4	79.1	MG/KG V
OP'-DDE	0.0075	< 0.007	MG/KG
PP'-DDD	< 0.0071	< 0.007	MG/KG
PP'-DDT	< 0.0071	< 0.007	MG/KG
ALPHA-BHC	< 0.0071	< 0.007	MG/KG
LINDANE (GAMMA-BHC)	< 0.0071	< 0.007	MG/KG
HEPTACHLOR	< 0.0071	< 0.007	MG/KG
HEPTACHLOR EPOXIDE	< 0.0071	< 0.007	MG/KG
ALDRIN	< 0.0071	< 0.007	MG/KG
DIELDRIN	0.049	< 0.035	MG/KG
ENDRIN	< 0.035	< 0.035	MG/KG
TOXAPHENE	< 0.350	< 0.350	MG/KG
AROCLOR 1242	< 0.071	< 0.070	MG/KG
AROCLOR 1254	< 0.071	< 0.070	MG/KG
BETA-BHC	< 0.0071	< 0.007	MG/KG
DELTA-BHC	< 0.0071	< 0.007	MG/KG
ENDOSULFAN I	< 0.0071	< 0.035	MG/KG
ENDOSULFAN II	< 0.0071	< 0.035	MG/KG
ENDOSULFAN SULFATE	< 0.0071	< 0.035	MG/KG
ENDRIN ALDEHYDE	< 0.0079	< 0.035	MG/KG
AROCLOR 1016	< 0.071	< 0.070	MG/KG
AROCLOR 1221	< 0.071	< 0.070	MG/KG
AROCLOR 1232	< 0.071	< 0.070	MG/KG
AROCLOR 1248	< 0.071	< 0.070	MG/KG
AROCLOR 1260	< 0.071	< 0.070	MG/KG
N-NITROSODIMETHYLAMINE	< 0.031	< 0.031	MG/KG
CHLOROFORM	< 0.035	< 0.350	MG/KG
1,1,1-TRICHLOROETHANE	< 0.035	< 0.350	MG/KG
CARBON TETRACHLORIDE	< 0.035	< 0.350	MG/KG

JWPCP BIOSOLIDS CAKE
2021 SEMI - ANNUAL 24-HOUR COMPOSITE SAMPLES

Sample Numbers	22011200277	22071300242	
	22011200278	22071300243	
		22071300244	
Sample Date:	**1/11/2022**	**7/13/2022**	**Dry Weight**
Description	**Result**	**Result**	**Unit of Measure**
TRICHLOROETHYLENE	< 0.035	< 0.700	MG/KG
TETRACHLOROETHYLENE	< 0.035	< 0.350	MG/KG
CHLOROBENZENE	< 0.035	< 0.350	MG/KG
VINYL CHLORIDE	< 0.035	< 0.350	MG/KG
1,1,2-TRICHLOROETHANE	< 0.035	< 0.350	MG/KG
1,2-DICHLOROETHANE	< 0.035	< 0.350	MG/KG
TOLUENE	< 0.035	< 0.350	MG/KG
ETHYL BENZENE	< 0.035	0.480	MG/KG
TRANS-1,2-DICHLOROETHYLENE	< 0.035	< 0.350	MG/KG
BROMOMETHANE	< 0.035	< 7.000	MG/KG
CHLOROETHANE	< 0.035	< 0.700	MG/KG
2-CHLOROETHYLVINYLETHER	< 0.350	< 0.700	MG/KG
1,2-DICHLOROPROPANE	< 0.035	< 0.350	MG/KG
1,1,2,2-TETRACHLOROETHANE	< 0.035	< 0.700	MG/KG
ACROLEIN	< 0.035	< 17.000	MG/KG
ACRYLONITRILE	< 0.035	< 8.700	MG/KG
ACENAPHTHENE	< 0.031	< 0.031	MG/KG
ACENAPHTHYLENE	< 0.031	< 0.031	MG/KG
ANTHRACENE	< 0.031	< 0.031	MG/KG
BENZIDINE	< 0.310	< 0.310	MG/KG
BENZO(A)ANTHRACENE	< 0.031	< 0.310	MG/KG
BENZO(A)PYRENE	< 0.031	< 0.031	MG/KG
BENZO(B)FLUORANTHENE	< 0.031	< 0.031	MG/KG
BIS(2-CL-ETHOXY)METHANE	< 0.031	< 0.031	MG/KG
BIS(2-CHLOROETHYL)ETHER	< 0.031	< 0.031	MG/KG
BIS(2-CL-ISOPROPYL)ETHER	< 0.031	< 0.031	MG/KG
DIETHYLHEXYL PHTHALATE	0.052	< 0.063	MG/KG
BUTYLBENZYL PHTHALATE	< 0.031	< 0.031	MG/KG
2-CHLORONAPHTHALENE	< 0.031	< 0.031	MG/KG
CHRYSENE	< 0.031	< 0.031	MG/KG
DIBENZO(A,H)ANTHRACENE	< 0.061	< 0.063	MG/KG
1,2-DICHLOROBENZENE	< 0.035	< 0.350	MG/KG
1,3-DICHLOROBENZENE	< 0.035	< 0.350	MG/KG
1,4-DICHLOROBENZENE	< 0.035	< 0.350	MG/KG
3,3'-DICHLOROBENZIDINE	< 0.150	< 0.310	MG/KG
DIETHYL PHTHALATE	< 0.031	< 0.031	MG/KG
METHYLENE CHLORIDE	< 0.035	< 3.500	MG/KG
DI-N-BUTYL PHTHALATE	< 0.031	< 0.031	MG/KG
2,4-DINITROTOLUENE	< 0.031	< 0.031	MG/KG
DI-N-OCTYL PHTHALATE	< 0.031	< 0.031	MG/KG
1,2-DIPHENYLHYDRAZINE	< 0.031	< 0.031	MG/KG
FLUORANTHENE	< 0.031	< 0.031	MG/KG
FLUORENE	< 0.031	< 0.031	MG/KG
HEXACHLOROBENZENE	< 0.031	< 0.031	MG/KG
HEXACHLOROBUTADIENE	< 0.031	< 0.031	MG/KG
HEXACHLOROETHANE	< 0.031	< 0.031	MG/KG
INDENO(1,2,3-C,D)PYRENE	< 0.061	< 0.063	MG/KG
ISOPHORONE	< 0.031	< 0.031	MG/KG
NAPHTHALENE	< 0.031	< 0.031	MG/KG
NITROBENZENE	< 0.031	< 0.031	MG/KG
DIMETHYL PHTHALATE	< 0.150	< 0.063	MG/KG
N-NITROSODI-N-PROPYLAMINE	< 0.031	< 0.031	MG/KG
PHENANTHRENE	< 0.031	< 0.031	MG/KG

JWPCP BIOSOLIDS CAKE
2021 SEMI - ANNUAL 24-HOUR COMPOSITE SAMPLES

Sample Numbers	22011200277	22071300242	
	22011200278	22071300243	
		22071300244	
Sample Date:	**1/11/2022**	**7/13/2022**	**Dry Weight**
Description	**Result**	**Result**	**Unit of Measure**
PYRENE	< 0.031	< 0.031	MG/KG
2,3,7,8-TCDD	< 0.000007	< 0.000014	NG/KG
2-CHLOROPHENOL	< 0.031	< 0.031	MG/KG
1,2,4-TRICHLOROBENZENE	< 0.031	< 0.031	MG/KG
2,4-DICHLOROPHENOL	< 0.031	< 0.031	MG/KG
4-CHLORO-3-METHYLPHENOL	< 0.031	< 0.031	MG/KG
2,4-DINITROPHENOL	< 1.5	< 0.31	MG/KG
2-NITROPHENOL	< 0.031	< 0.31	MG/KG
4-NITROPHENOL	< 0.031	< 0.31	MG/KG
PENTACHLOROPHENOL	< 0.031	< 0.031	MG/KG
PHENOL	< 0.031	< 0.031	MG/KG
2,4,6-TRICHLOROPHENOL	< 0.031	< 0.031	MG/KG
N-NITROSODIPHENYLAMINE	< 0.031	< 0.031	MG/KG
O-CRESOL	< 0.031	< 0.031	MG/KG
M+P CRESOL	< 0.031	< 0.031	MG/KG
MALATHION	30.0	< 30.0	MG/KG
PP'-DDE	0.014	< 0.007	MG/KG
OP'-DDD	< 0.0071	< 0.007	MG/KG
OP'-DDT	< 0.0071	< 0.007	MG/KG
METHOXYCLOR	< 0.035	< 0.035	MG/KG
2,4-D(ACID)	< 2.3	< 2.5	MG/KG
2,4,5-TP(SILVEX)	< 1.1	< 1.3	MG/KG
TECHNICAL CHLORDANE	< 0.071	< 0.070	MG/KG
TOTAL DETECTED PESTICIDES	0.078	ND	MG/KG
MIREX	< 0.0071	< 0.007	MG/KG
1,1-DICHLOROETHENE	< 0.035	< 0.350	MG/KG
BROMODICHLOROMETHANE	< 0.035	< 0.350	MG/KG
DIBROMOCHLOROMETHANE	< 0.035	< 0.700	MG/KG
BROMOFORM	< 0.035	< 1.700	MG/KG
O-DICHLOROBENZENE	< 0.031	< 0.031	MG/KG
M-DICHLOROBENZENE	< 0.031	< 0.031	MG/KG
P-DICHLOROBENZENE	< 0.031	< 0.031	MG/KG
1,1-DICHLOROETHANE	< 0.035	< 0.350	MG/KG
BENZENE	< 0.035	< 0.350	MG/KG
CHLOROMETHANE	< 0.035	< 7.000	MG/KG
CIS-1,3-DICHLOROPROPENE	< 0.035	< 0.350	MG/KG
TRANS-1,3-DICHLOROPROPENE	< 0.035	< 0.700	MG/KG
FREON 12	< 0.035	< 0.700	MG/KG
FREON 11	< 0.035	< 3.500	MG/KG
BENZO(G.H.I.)PERYLENE	< 0.061	< 0.063	MG/KG
BENZO(K)FLUORANTHENE	< 0.031	< 0.031	MG/KG
4-BROMOPHENYL PHENYLETHER	< 0.031	< 0.031	MG/KG
4-CHLOROPHENYLPHENYLETHER	< 0.031	< 0.031	MG/KG
2,6-DINITROTOLUENE	< 0.031	< 0.031	MG/KG
HEXACHLOROCYCLOPENTADIENE	< 0.031	< 0.063	MG/KG
2-METHYL-4,6DINITROPHENOL	< 0.31	< 0.031	MG/KG
2,4-DIMETHYLPHENOL	< 0.031	< 0.031	MG/KG
PYRIDINE	< 0.061	< 0.063	MG/KG

ND = None Detected

Annual Biosolids Report

Los Angeles County Sanitation District

2022

February 14, 2023

Los Angeles County Sanitation District

Re: 2022 Annual Report

Attached is Denali Water Solutions 2022 Annual Report for the Los Angeles County Sanitation District biosolids. Included in this report are annual application reports, site maps, and a certification statement certifying federal and state requirements were met with our land application operations.

If you have any questions, feel free to call me at (602) 290-4385

Sincerely,

Ken Johnson

Table of Contents

Annual Application Reports - 2022

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source:	Sanitation District	**Wet Tons Applied:**	1,036.51
Waste Type:	WWTP BIOSOLIDS	**Dry Tons Applied:**	293.74
Analysis Date:	03/26/2022	**Wet Metric Tons Applied:**	940.94
Field Name:	MA 7-0904	**Dry Metric Tons Applied:**	266.65
Acreage:	72.60	**Wet Tons/Acre Applied:**	14.28
Application Method:	Surface	**Dry Tons/Acre Applied:**	4.05
Volume Applied:	1,036.51 WET TONS	**Wet Metric Tons/ha Applied:**	12.96
		Dry Metric Tons/ha Applied:	3.67

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	28.40%		
TKN	64,870.00	562.5926	501.9339
NH3	6,930.00	46.4841	41.4722
NO3	1.00	0.0426	0.0380
Organic N	57,800.00	514.8333	459.3240
As	8.38	0.0011	0.0729
Cd	1.30	0.0134	0.0120
Cr	66.30	0.2347	0.2094
Cu	262.00	2.6196	2.3372
Pb	12.50	0.1139	0.1016
Hg	0.48	0.0050	0.0045
Mo	22.30	0.1912	0.1706
Ni	33.10	0.3162	0.2822
Se	24.80	0.2360	0.2105
Zn	601.00	6.2031	5.5343
PAN	3,444.89 lbs	126.2513	112.6389

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 01/08/2022
Field Name: MA 7-1001
Acreage: 78.20
Application Method: Surface
Volume Applied: 1,595.70 WET TONS

Wet Tons Applied: 1,595.70
Dry Tons Applied: 467.54
Wet Metric Tons Applied: 1,448.58
Dry Metric Tons Applied: 424.43
Wet Tons/Acre Applied: 20.41
Dry Tons/Acre Applied: 5.98
Wet Metric Tons/ha Applied: 18.52
Dry Metric Tons/ha Applied: 5.43

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	29.30%		
TKN	46,913.00	628.7570	560.9644
NH3	2,980.00	39.9398	35.6335
NO3	140.00	1.8764	1.6741
Organic N	43,800.00	587.0346	523.7406
As	7.44	0.0013	0.0890
Cd	4.10	0.0550	0.0490
Cr	66.70	0.8940	0.7976
Cu	296.00	3.9672	3.5394
Pb	10.20	0.1367	0.1220
Hg	0.58	0.0078	0.0069
Mo	19.40	0.2600	0.2320
Ni	33.80	0.4530	0.4042
Se	28.90	0.3873	0.3456
Zn	752.00	10.0788	8.9921
PAN	9,722.06 lbs	139.3474	124.3230

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 02/01/2022
Field Name: MA 7-1002
Acreage: 76.10
Application Method: Surface
Volume Applied: 1,565.20 WET TONS

Wet Tons Applied:	1,565.20
Dry Tons Applied:	444.37
Wet Metric Tons Applied:	1,420.89
Dry Metric Tons Applied:	403.40
Wet Tons/Acre Applied:	20.57
Dry Tons/Acre Applied:	5.84
Wet Metric Tons/ha Applied:	18.67
Dry Metric Tons/ha Applied:	5.30

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	28.20%		
TKN	59,522.00	845.7888	754.5959
NH3	3,980.00	88.8657	79.2842
NO3	142.00	0.1014	0.0904
Organic N	55,400.00	755.0893	673.6756
As	8.56	0.0014	0.0980
Cd	4.50	0.0190	0.0170
Cr		0.8264	0.7373
Cu	306.00	3.4571	3.0843
Pb	10.50	0.1624	0.1449
Hg	0.48	0.0063	0.0056
Mo	20.20	0.2906	0.2593
Ni	37.70	0.4362	0.3891
Se	29.00	0.3273	0.2920
Zn	649.00	7.8970	7.0456
PAN	561.85 lbs	195.5565	174.4716

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 04/15/2022
Field Name: MA 7-1004
Acreage: 50.20
Application Method: Surface
Volume Applied: 911.26 WET TONS

Wet Tons Applied: 911.26
Dry Tons Applied: 258.91
Wet Metric Tons Applied: 827.24
Dry Metric Tons Applied: 235.04
Wet Tons/Acre Applied: 18.15
Dry Tons/Acre Applied: 5.16
Wet Metric Tons/ha Applied: 16.48
Dry Metric Tons/ha Applied: 4.68

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	28.30%		
TKN	60,211.00	685.2421	611.3594
NH3	3,970.00	46.3210	41.3267
NO3	7.06	0.0813	0.0726
Organic N	56,100.00	637.2962	568.5829
As	9.41	0.0022	0.0968
Cd	1.60	0.0219	0.0196
Cr			
Cu	306.00	3.6431	3.2503
Pb	12.60	0.1449	0.1293
Hg	0.60	0.0070	0.0063
Mo	20.30	0.2394	0.2136
Ni	36.00	0.4254	0.3796
Se	26.80	0.3222	0.2875
Zn	737.00	8.5789	7.6539
PAN	5,284.27 lbs	150.7011	134.4525

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 01/30/2022
Field Name: MA 7-1005
Acreage: 68.50
Application Method: Surface
Volume Applied: 1,641.25 WET TONS

Wet Tons Applied: 1,641.25
Dry Tons Applied: 463.92
Wet Metric Tons Applied: 1,489.93
Dry Metric Tons Applied: 421.15
Wet Tons/Acre Applied: 23.96
Dry Tons/Acre Applied: 6.77
Wet Metric Tons/ha Applied: 21.75
Dry Metric Tons/ha Applied: 6.15

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	29.30%		
TKN	46,913.00	891.7226	795.5771
NH3	2,980.00	59.4774	53.0645
NO3	140.00	2.1539	1.9217
Organic N	43,800.00	830.0979	740.5968
As	7.44	0.0019	0.1150
Cd	4.10	0.0679	0.0606
Cr	66.70	0.0632	0.0564
Cu	296.00	4.6362	4.1363
Pb	10.20	0.1591	0.1420
Hg	0.58	0.0074	0.0066
Mo	19.40	0.3059	0.2729
Ni	33.80	0.5687	0.5074
Se	28.90	0.4402	0.3927
Zn	752.00	9.9507	8.8778
PAN	601.71 lbs	198.0198	176.6693

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 09/09/2022
Field Name: MA 7-14B
Acreage: 74
Application Method: Surface
Volume Applied: 354.87 WET TONS

Wet Tons Applied: 354.87
Dry Tons Applied: 101.14
Wet Metric Tons Applied: 322.15
Dry Metric Tons Applied: 91.81
Wet Tons/Acre Applied: 4.80
Dry Tons/Acre Applied: 1.37
Wet Metric Tons/ha Applied: 4.35
Dry Metric Tons/ha Applied: 1.24

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	28.50%		
TKN	65,939.00	202.0237	180.2415
NH3	4,800.00	14.7062	13.1206
NO3	139.00	0.4259	0.3800
Organic N	61,139.00	187.3175	167.1209
As	7.44	0.0003	0.0203
Cd	3.30	0.0101	0.0090
Cr			
Cu	318.00	0.9743	0.8692
Pb	12.40	0.0380	0.0339
Hg	0.52	0.0016	0.0014
Mo	23.90	0.0732	0.0653
Ni	39.90	0.1222	0.1091
Se	32.40	0.0993	0.0886
Zn	746.00	2.2856	2.0392
PAN	2,986.97 lbs	45.2425	40.3644

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 09/19/2022
Field Name: MA 7-18B
Acreage: 61
Application Method: Surface
Volume Applied: 457.46 WET TONS

Wet Tons Applied: 457.46
Dry Tons Applied: 130.38
Wet Metric Tons Applied: 415.28
Dry Metric Tons Applied: 118.36
Wet Tons/Acre Applied: 7.50
Dry Tons/Acre Applied: 2.14
Wet Metric Tons/ha Applied: 6.81
Dry Metric Tons/ha Applied: 1.94

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	28.50%		
TKN	65,939.00	315.9279	281.8646
NH3	4,800.00	22.9978	20.5182
NO3	139.00	0.6660	0.5942
Organic N	61,139.00	292.9301	261.3464
As	7.44	0.0006	0.0318
Cd	3.30	0.0158	0.0141
Cr			
Cu	318.00	1.5236	1.3593
Pb	12.40	0.0594	0.0530
Hg	0.52	0.0025	0.0022
Mo	23.90	0.1145	0.1022
Ni	39.90	0.1912	0.1706
Se	32.40	0.1552	0.1385
Zn	746.00	3.5742	3.1889
PAN	3,850.48 lbs	70.7509	63.1226

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 09/23/2022
Field Name: MA 7-20B
Acreage: 73
Application Method: Surface
Volume Applied: 152.31 WET TONS

Wet Tons Applied: 152.31
Dry Tons Applied: 43.41
Wet Metric Tons Applied: 138.27
Dry Metric Tons Applied: 39.41
Wet Tons/Acre Applied: 2.09
Dry Tons/Acre Applied: 0.59
Wet Metric Tons/ha Applied: 1.89
Dry Metric Tons/ha Applied: 0.54

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	28.50%		
TKN	65,939.00	87.8962	78.4193
NH3	4,800.00	6.3984	5.7085
NO3	139.00	0.1853	0.1653
Organic N	61,139.00	81.4979	72.7108
As	7.44	0.0001	0.0088
Cd	3.30	0.0044	0.0039
Cr			
Cu	318.00	0.4239	0.3782
Pb	12.40	0.0165	0.0147
Hg	0.52	0.0007	0.0006
Mo	23.90	0.0319	0.0284
Ni	39.90	0.0532	0.0475
Se	32.40	0.0432	0.0385
Zn	746.00	0.9944	0.8872
PAN	1,282.00 lbs	19.6840	17.5617

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 05/03/2022
Field Name: MA 7-2311
Acreage: 48.90
Application Method: Surface
Volume Applied: 1,589.50 WET TONS

Wet Tons Applied: 1,589.50
Dry Tons Applied: 456.89
Wet Metric Tons Applied: 1,442.95
Dry Metric Tons Applied: 414.77
Wet Tons/Acre Applied: 32.51
Dry Tons/Acre Applied: 9.34
Wet Metric Tons/ha Applied: 29.51
Dry Metric Tons/ha Applied: 8.48

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	28.80%		
TKN	56,069.00	1,168.3653	1,042.3922
NH3	4,130.00	86.8450	77.4814
NO3	6.95	0.1459	0.1301
Organic N	51,800.00	1,078.6041	962.3090
As	9.28	0.0039	0.1719
Cd	2.90	0.0607	0.0542
Cr		0.1384	0.1235
Cu	346.00	7.2177	6.4395
Pb	12.30	0.2594	0.2314
Hg	0.64	0.0136	0.0121
Mo	22.10	0.4652	0.4150
Ni	39.50	0.8241	0.7352
Se	31.50	0.6620	0.5907
Zn	759.00	15.9054	14.1905
PAN	10,477.04 lbs	259.2892	231.3326

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 06/05/2022
Field Name: MA 7-2312
Acreage: 47.60
Application Method: Surface
Volume Applied: 829.98 WET TONS

Wet Tons Applied: 829.98
Dry Tons Applied: 233.22
Wet Metric Tons Applied: 753.46
Dry Metric Tons Applied: 211.72
Wet Tons/Acre Applied: 17.44
Dry Tons/Acre Applied: 4.90
Wet Metric Tons/ha Applied: 15.83
Dry Metric Tons/ha Applied: 4.45

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	28.10%		
TKN	52,382.00	575.3427	513.3092
NH3	4,340.00	47.6688	42.5292
NO3	7.13	0.0783	0.0699
Organic N	47,900.00	526.1142	469.3886
As	8.22	0.0019	0.0806
Cd	2.90	0.0319	0.0284
Cr	85.00	0.9336	0.8329
Cu	328.00	3.6026	3.2142
Pb	13.40	0.1472	0.1313
Hg	0.75	0.0082	0.0073
Mo	23.50	0.2581	0.2303
Ni	37.50	0.4119	0.3675
Se	32.90	0.3614	0.3224
Zn	764.00	8.3915	7.4867
PAN	5,484.10 lbs	129.1355	115.2122

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 09/30/2022
Field Name: MA 7-2402
Acreage: 73.70
Application Method: Surface
Volume Applied: 1,320.79 WET TONS

Wet Tons Applied: 1,296.09
Dry Tons Applied: 361.61
Wet Metric Tons Applied: 1,176.59
Dry Metric Tons Applied: 328.27
Wet Tons/Acre Applied: 17.59
Dry Tons/Acre Applied: 4.91
Wet Metric Tons/ha Applied: 15.96
Dry Metric Tons/ha Applied: 4.45

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	28.50%		
TKN	65,939.00	593.4038	529.4230
NH3	4,800.00	55.7757	49.7620
NO3	139.00	0.5752	0.5132
Organic N	61,139.00	537.6281	479.6610
As	7.44	0.0013	0.0839
Cd	3.30	0.0445	0.0397
Cr		0.0526	0.0470
Cu	318.00	4.0667	3.6283
Pb	12.40	0.1500	0.1338
Hg	0.52	0.0059	0.0052
Mo	23.90	0.4861	0.4337
Ni	39.90	0.5037	0.4494
Se	32.40	0.3354	0.2992
Zn	746.00	8.7707	7.8251
PAN	2,571.25 lbs	133.4024	119.0190

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 08/01/2022
Field Name: MA 7-2404
Acreage: 74.20
Application Method: Surface
Volume Applied: 1,187.61 WET TONS

Wet Tons Applied: 1,187.61
Dry Tons Applied: 340.84
Wet Metric Tons Applied: 1,078.11
Dry Metric Tons Applied: 309.42
Wet Tons/Acre Applied: 16.01
Dry Tons/Acre Applied: 4.59
Wet Metric Tons/ha Applied: 14.53
Dry Metric Tons/ha Applied: 4.17

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	28.70%		
TKN	69,437.00	715.0235	637.9297
NH3	5,300.00	54.5764	48.6920
NO3	137.00	1.4107	1.2586
Organic N	64,137.00	660.4470	589.2377
As	7.06	0.0010	0.0649
Cd	2.30	0.0237	0.0211
Cr			
Cu	292.00	3.0069	2.6827
Pb	12.70	0.1308	0.1167
Hg	0.49	0.0050	0.0045
Mo	23.80	0.2451	0.2187
Ni	36.00	0.3707	0.3307
Se	33.10	0.3408	0.3041
Zn	698.00	7.1876	6.4126
PAN	10,644.15 lbs	160.7884	143.4522

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 06/23/2022
Field Name: MA 7-2405
Acreage: 71.30
Application Method: Surface
Volume Applied: 2,208.27 WET TONS

Wet Tons Applied: 2,208.27
Dry Tons Applied: 640.42
Wet Metric Tons Applied: 2,004.67
Dry Metric Tons Applied: 581.37
Wet Tons/Acre Applied: 30.97
Dry Tons/Acre Applied: 8.98
Wet Metric Tons/ha Applied: 28.12
Dry Metric Tons/ha Applied: 8.15

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	28.10%		
TKN	52,382.00	1,040.6836	928.4772
NH3	4,340.00	138.2002	123.2994
NO3	7.13	2.3002	2.0522
Organic N	47,900.00	899.7073	802.7009
As	8.22	0.0021	0.1306
Cd	2.90	0.0567	0.0506
Cr	85.00	0.3000	0.2676
Cu	328.00	6.3054	5.6256
Pb	13.40	0.2681	0.2392
Hg	0.75	0.0133	0.0118
Mo	23.50	0.5844	0.5214
Ni	37.50	0.7733	0.6900
Se	32.90	0.6757	0.6029
Zn	764.00	15.1175	13.4875
PAN	2,639.50 lbs	324.5219	289.5320

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 01/01/2022
Field Name: MA 7-C04
Acreage: 151.70
Application Method: Surface
Volume Applied: 529.03 WET TONS

Wet Tons Applied: 529.03
Dry Tons Applied: 155.01
Wet Metric Tons Applied: 480.25
Dry Metric Tons Applied: 140.71
Wet Tons/Acre Applied: 3.49
Dry Tons/Acre Applied: 1.02
Wet Metric Tons/ha Applied: 3.17
Dry Metric Tons/ha Applied: 0.93

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	29.30%		
TKN	46,913.00	107.4566	95.8706
NH3	2,980.00	6.8258	6.0899
NO3	140.00	0.3207	0.2861
Organic N	43,800.00	100.3261	89.5089
As	7.44	0.0001	0.0152
Cd	4.10	0.0094	0.0084
Cr	66.70	0.1528	0.1363
Cu	296.00	0.6780	0.6049
Pb	10.20	0.0234	0.0208
Hg	0.58	0.0013	0.0012
Mo	19.40	0.0444	0.0396
Ni	33.80	0.0774	0.0691
Se	28.90	0.0662	0.0591
Zn	752.00	1.7225	1.5368
PAN	3,223.20 lbs	23.8149	21.2472

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 10/17/2022
Field Name: YM 2-2107
Acreage: 18
Application Method: Surface
Volume Applied: 604.66 WET TONS

Wet Tons Applied:	604.66
Dry Tons Applied:	149.96
Wet Metric Tons Applied:	548.91
Dry Metric Tons Applied:	136.13
Wet Tons/Acre Applied:	33.59
Dry Tons/Acre Applied:	8.33
Wet Metric Tons/ha Applied:	30.50
Dry Metric Tons/ha Applied:	7.56

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	24.80%		
TKN	54,090.00	1,010.1477	901.2336
NH3	6,090.00	113.7327	101.4700
NO3	24.20	0.4519	0.4032
Organic N	48,000.00	896.4151	799.7636
As	6.57	0.0068	0.1095
Cd	15.40	0.2876	0.2566
Cr	54.00	1.0085	0.8997
Cu	778.00	14.5294	12.9628
Pb	22.60	0.4221	0.3766
Hg	0.63	0.0117	0.0105
Mo	14.60	0.2727	0.2433
Ni	38.20	0.7134	0.6365
Se	11.90	0.2222	0.1983
Zn	1,200.00	22.4104	19.9941
PAN	157.60 lbs	236.6013	211.0909

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 11/08/2022
Field Name: YM 8-7
Acreage: 63.30
Application Method: Surface
Volume Applied: 230.61 WET TONS

Wet Tons Applied: 230.61
Dry Tons Applied: 65.49
Wet Metric Tons Applied: 209.35
Dry Metric Tons Applied: 59.45
Wet Tons/Acre Applied: 3.64
Dry Tons/Acre Applied: 1.03
Wet Metric Tons/ha Applied: 3.31
Dry Metric Tons/ha Applied: 0.94

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	28.40%		
TKN	44,760.00	103.8151	92.6217
NH3	4,760.00	11.0402	9.8499
NO3	24.20	0.0561	0.0501
Organic N	40,000.00	92.7748	82.7719
As	9.09	0.0003	0.0188
Cd	3.10	0.0072	0.0064
Cr			
Cu	334.00	0.7747	0.6911
Pb	12.80	0.0297	0.0265
Hg	0.49	0.0011	0.0010
Mo	66.70	0.1547	0.1380
Ni	49.30	0.1143	0.1020
Se	30.50	0.0707	0.0631
Zn	748.00	1.7349	1.5478
PAN	148.21 lbs	24.1312	21.5294

Denali WATER SOLUTIONS

FARM APPLICATION SUMMARY REPORT

For: 1/1/2022 To: 12/31/2022

Waste Source: Sanitation District
Waste Type: WWTP BIOSOLIDS
Analysis Date: 11/02/2022
Field Name: YM 8-8
Acreage: 58.60
Application Method: Surface
Volume Applied: 333.79 WET TONS

Wet Tons Applied: 333.79
Dry Tons Applied: 88.32
Wet Metric Tons Applied: 303.01
Dry Metric Tons Applied: 80.18
Wet Tons/Acre Applied: 5.70
Dry Tons/Acre Applied: 1.51
Wet Metric Tons/ha Applied: 5.17
Dry Metric Tons/ha Applied: 1.37

Constituent	Analysis (mg/kg)	Applied (kg/ha)	Applied (lb/ac)
% Solids	28.40%		
TKN	44,760.00	167.1505	149.1284
NH3	4,760.00	18.3521	16.3734
NO3	24.20	0.0818	0.0729
Organic N	40,000.00	148.7984	132.7550
As	9.09	0.0005	0.0236
Cd	3.10	0.0315	0.0281
Cr		0.0922	0.0822
Cu	334.00	1.8862	1.6829
Pb	12.80	0.0600	0.0535
Hg	0.49	0.0019	0.0017
Mo	66.70	0.1364	0.1217
Ni	49.30	0.1476	0.1317
Se	30.50	0.0713	0.0636
Zn	748.00	3.2986	2.9430
PAN	147.03 lbs	39.0175	34.8106

Field Application Summary Report - 2022

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: MA 7-0904
Total Acres: 72.60

Latitude: 33°30'55.0008"
Longitude: 113°9'27."

Crop: Alfalfa 406
Crop Nitrogen Rate: 406

Application Started: 2022-03-26

Wet Tons Applied: 3,048.19
Dry Tons Applied: 714.44

Wet Metric Tons Applied: 2,765.27
Dry Metric Tons Applied: 648.13

Wet Tons/Acre Applied: 41.99
Dry Tons/Acre Applied: 9.84

Wet Metric Tons/ha Applied: 94.18
Dry Metric Tons/ha Applied: 22.07

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	1,044.4560	931.8428	N/A	N/A
NH3	103.7594	92.5721	N/A	N/A
NO3	0.4606	0.4109	N/A	N/A
Organic N	939.4213	838.1329	N/A	N/A
As	0.1222	0.1090	0.1222	0.1090
Cd	0.0249	0.0222	0.0249	0.0222
Cr	0.4162	0.3713	0.4162	0.3713
Cu	5.6427	5.0343	5.6427	5.0343
Pb	0.1767	0.1577	0.1767	0.1577
Hg	0.0114	0.0102	0.0114	0.0102
Mo	0.3161	0.2820	0.3161	0.2820
Ni	0.4677	0.4172	0.4677	0.4172
Se	0.3061	0.2731	0.3061	0.2731
Zn	13.5158	12.0586	13.5158	12.0586
PAN	240.2336	214.3316	N/A	N/A
P	161.6305	144.2035	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: MA 7-1001
Total Acres: 78.20

Latitude: 33°30'45."
Longitude: 113°9'27."

Crop: Alfalfa 550
Crop Nitrogen Rate: 550

Application Started: 2022-01-08

Wet Tons Applied: 2,757.17
Dry Tons Applied: 735.87

Wet Metric Tons Applied: 2,501.26
Dry Metric Tons Applied: 667.57

Wet Tons/Acre Applied: 35.26
Dry Tons/Acre Applied: 9.41

Wet Metric Tons/ha Applied: 79.09
Dry Metric Tons/ha Applied: 21.11

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	1,105.7544	986.5320	N/A	N/A
NH3	54.6060	48.7184	N/A	N/A
NO3	1.9277	1.7198	N/A	N/A
Organic N	1,049.3659	936.2233	N/A	N/A
As	0.1301	0.1161	0.1301	0.1161
Cd	0.0624	0.0557	0.0624	0.0557
Cr	1.0539	0.9402	1.0539	0.9402
Cu	6.3454	5.6613	6.3454	5.6613
Pb	0.1762	0.1572	0.1762	0.1572
Hg	0.0141	0.0126	0.0141	0.0126
Mo	0.3667	0.3272	0.3667	0.3272
Ni	0.5736	0.5117	0.5736	0.5117
Se	0.4207	0.3753	0.4207	0.3753
Zn	15.8204	14.1147	15.8204	14.1147
PAN	239.2287	213.4351	N/A	N/A
P	146.7522	130.9294	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: MA 7-1002
Total Acres: 76.10

Latitude: 33°30'45."
Longitude: 113°8'54.9996"

Crop: Alfalfa 390
Crop Nitrogen Rate: 390

Application Started: 2022-02-01

Wet Tons Applied: 3,406.43
Dry Tons Applied: 806.54

Wet Metric Tons Applied: 3,090.26
Dry Metric Tons Applied: 731.68

Wet Tons/Acre Applied: 44.76
Dry Tons/Acre Applied: 10.60

Wet Metric Tons/ha Applied: 100.41
Dry Metric Tons/ha Applied: 23.77

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	1,382.8798	1,233.7777	N/A	N/A
NH3	188.4190	168.1037	N/A	N/A
NO3	0.1807	0.1613	N/A	N/A
Organic N	1,192.6270	1,064.0380	N/A	N/A
As	0.1518	0.1354	0.1518	0.1354
Cd	0.0249	0.0222	0.0249	0.0222
Cr	1.0400	0.9279	1.0400	0.9279
Cu	6.2731	5.5967	6.2731	5.5967
Pb	0.2053	0.1832	0.2053	0.1832
Hg	0.0145	0.0129	0.0145	0.0129
Mo	0.4105	0.3662	0.4105	0.3662
Ni	0.5913	0.5275	0.5913	0.5275
Se	0.3993	0.3562	0.3993	0.3562
Zn	14.1322	12.6084	14.1322	12.6084
PAN	332.9225	297.0269	N/A	N/A
P	197.6174	176.3103	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: MA 7-1004
Total Acres: 50.20

Latitude: 33°29'44.9988"
Longitude: 113°8'33."

Crop: Alfalfa 508
Crop Nitrogen Rate: 508

Application Started: 2022-04-15

Wet Tons Applied: 3,010.69
Dry Tons Applied: 677.98

Wet Metric Tons Applied: 2,731.25
Dry Metric Tons Applied: 615.05

Wet Tons/Acre Applied: 59.97
Dry Tons/Acre Applied: 13.51

Wet Metric Tons/ha Applied: 134.53
Dry Metric Tons/ha Applied: 30.30

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	1,455.2728	1,298.3654	N/A	N/A
NH3	183.4510	163.6713	N/A	N/A
NO3	0.4014	0.3581	N/A	N/A
Organic N	1,270.1969	1,133.2443	N/A	N/A
As	0.1507	0.1344	0.1507	0.1344
Cd	0.0331	0.0296	0.0331	0.0296
Cr	0.2577	0.2299	0.2577	0.2299
Cu	7.6157	6.7946	7.6157	6.7946
Pb	0.2171	0.1937	0.2171	0.1937
Hg	0.0167	0.0149	0.0167	0.0149
Mo	0.4026	0.3592	0.4026	0.3592
Ni	0.6285	0.5607	0.6285	0.5607
Se	0.4100	0.3658	0.4100	0.3658
Zn	17.2670	15.4053	17.2670	15.4053
PAN	319.6587	285.1931	N/A	N/A
P	224.8258	200.5851	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: MA 7-1005
Total Acres: 68.50

Latitude: 33°30'23.0004"
Longitude: 113°7'59.9988"

Crop: Alfalfa 565
Crop Nitrogen Rate: 565

Application Started: 2022-01-30

Wet Tons Applied: 3,433.05
Dry Tons Applied: 883.62

Wet Metric Tons Applied: 3,114.41
Dry Metric Tons Applied: 801.60

Wet Tons/Acre Applied: 50.12
Dry Tons/Acre Applied: 12.90

Wet Metric Tons/ha Applied: 112.42
Dry Metric Tons/ha Applied: 28.94

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	1,707.0285	1,522.9768	N/A	N/A
NH3	89.3248	79.6938	N/A	N/A
NO3	2.2680	2.0234	N/A	N/A
Organic N	1,615.5564	1,441.3672	N/A	N/A
As	0.1828	0.1631	0.1828	0.1631
Cd	0.0818	0.0730	0.0818	0.0730
Cr	0.3537	0.3156	0.3537	0.3156
Cu	9.0728	8.0946	9.0728	8.0946
Pb	0.2347	0.2094	0.2347	0.2094
Hg	0.0183	0.0163	0.0183	0.0163
Mo	0.5102	0.4552	0.5102	0.4552
Ni	0.8181	0.7299	0.8181	0.7299
Se	0.5015	0.4474	0.5015	0.4474
Zn	20.8724	18.6220	20.8724	18.6220
PAN	370.2022	330.2870	N/A	N/A
P	252.6256	225.3876	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: MA 7-14B
Total Acres: 74

Latitude:
Longitude:

Crop: Alfalfa 394
Crop Nitrogen Rate: 394

Application Started: 2022-09-09

Wet Tons Applied: 870.83
Dry Tons Applied: 360.23

Wet Metric Tons Applied: 790.00
Dry Metric Tons Applied: 326.79

Wet Tons/Acre Applied: 11.77
Dry Tons/Acre Applied: 4.87

Wet Metric Tons/ha Applied: 26.40
Dry Metric Tons/ha Applied: 10.92

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	680.2556	606.9105	N/A	N/A
NH3	57.9263	51.6807	N/A	N/A
NO3	0.4686	0.4180	N/A	N/A
Organic N	622.3293	555.2298	N/A	N/A
As	0.0576	0.0513	0.0576	0.0513
Cd	0.0192	0.0171	0.0192	0.0171
Cr	0.1830	0.1632	0.1830	0.1632
Cu	3.5132	3.1344	3.5132	3.1344
Pb	0.0838	0.0747	0.0838	0.0747
Hg	0.0066	0.0059	0.0066	0.0059
Mo	0.1862	0.1661	0.1862	0.1661
Ni	0.2493	0.2224	0.2493	0.2224
Se	0.1712	0.1528	0.1712	0.1528
Zn	8.1242	7.2482	8.1242	7.2482
PAN	153.8976	137.3043	N/A	N/A
P	138.2554	123.3487	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: MA 7-18B
Total Acres: 61

Latitude:
Longitude:

Crop: Alfalfa 476
Crop Nitrogen Rate: 476

Application Started: 2022-09-10

Wet Tons Applied: 1,039.69
Dry Tons Applied: 451.15

Wet Metric Tons Applied: 943.19
Dry Metric Tons Applied: 409.28

Wet Tons/Acre Applied: 17.04
Dry Tons/Acre Applied: 7.40

Wet Metric Tons/ha Applied: 38.23
Dry Metric Tons/ha Applied: 16.59

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	1,065.2657	950.4088	N/A	N/A
NH3	91.9956	82.0766	N/A	N/A
NO3	0.7261	0.6478	N/A	N/A
Organic N	973.2701	868.3322	N/A	N/A
As	0.0879	0.0784	0.0879	0.0784
Cd	0.0284	0.0253	0.0284	0.0253
Cr	0.2689	0.2399	0.2689	0.2399
Cu	5.3488	4.7721	5.3488	4.7721
Pb	0.1235	0.1102	0.1235	0.1102
Hg	0.0105	0.0094	0.0105	0.0094
Mo	0.2854	0.2546	0.2854	0.2546
Ni	0.3827	0.3414	0.3827	0.3414
Se	0.2615	0.2333	0.2615	0.2333
Zn	12.4359	11.0951	12.4359	11.0951
PAN	241.3779	215.3525	N/A	N/A
P	209.9748	187.3353	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: MA 7-20B
Total Acres: 73

Latitude:
Longitude:

Crop: Alfalfa 478
Crop Nitrogen Rate: 478

Application Started: 2022-09-21

Wet Tons Applied: 420.42
Dry Tons Applied: 192.03

Wet Metric Tons Applied: 381.40
Dry Metric Tons Applied: 174.20

Wet Tons/Acre Applied: 5.76
Dry Tons/Acre Applied: 2.63

Wet Metric Tons/ha Applied: 12.92
Dry Metric Tons/ha Applied: 5.90

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	395.7092	353.0438	N/A	N/A
NH3	34.5506	30.8253	N/A	N/A
NO3	0.2049	0.1828	N/A	N/A
Organic N	361.1586	322.2185	N/A	N/A
As	0.0314	0.0280	0.0314	0.0280
Cd	0.0211	0.0188	0.0211	0.0188
Cr	0.1303	0.1162	0.1303	0.1162
Cu	2.2532	2.0102	2.2532	2.0102
Pb	0.0474	0.0423	0.0474	0.0423
Hg	0.0040	0.0036	0.0040	0.0036
Mo	0.1068	0.0953	0.1068	0.0953
Ni	0.1517	0.1354	0.1517	0.1354
Se	0.1009	0.0900	0.1009	0.0900
Zn	4.9962	4.4575	4.9962	4.4575
PAN	89.7119	80.0392	N/A	N/A
P	72.5209	64.7017	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: MA 7-2311
Total Acres: 48.90

Latitude: 33°31'46.9992"
Longitude: 113°9'33.9984"

Crop: Alfalfa 536
Crop Nitrogen Rate: 536

Application Started: 2022-05-03

Wet Tons Applied: 5,562.24
Dry Tons Applied: 1,457.97

Wet Metric Tons Applied: 5,045.98
Dry Metric Tons Applied: 1,322.65

Wet Tons/Acre Applied: 113.75
Dry Tons/Acre Applied: 29.82

Wet Metric Tons/ha Applied: 255.15
Dry Metric Tons/ha Applied: 66.88

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	3,143.6493	2,804.7012	N/A	N/A
NH3	293.7829	262.1073	N/A	N/A
NO3	0.6298	0.5619	N/A	N/A
Organic N	2,846.9501	2,539.9921	N/A	N/A
As	0.3126	0.2789	0.3126	0.2789
Cd	0.0882	0.0787	0.0882	0.0787
Cr	0.6269	0.5593	0.6269	0.5593
Cu	13.4367	11.9879	13.4367	11.9879
Pb	0.3967	0.3539	0.3967	0.3539
Hg	0.0290	0.0259	0.0290	0.0259
Mo	0.7404	0.6606	0.7404	0.6606
Ni	1.5208	1.3568	1.5208	1.3568
Se	0.8622	0.7693	0.8622	0.7693
Zn	31.0117	27.6680	31.0117	27.6680
PAN	797.1810	711.2290	N/A	N/A
P	453.8468	404.9131	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: MA 7-2312
Total Acres: 47.60

Latitude: 33°31'26.0004"
Longitude: 113°9'33.9984"

Crop: Alfalfa 242
Crop Nitrogen Rate: 242

Application Started: 2022-06-05

Wet Tons Applied: 1,590.39
Dry Tons Applied: 419.99

Wet Metric Tons Applied: 1,442.78
Dry Metric Tons Applied: 381.01

Wet Tons/Acre Applied: 33.41
Dry Tons/Acre Applied: 8.82

Wet Metric Tons/ha Applied: 74.95
Dry Metric Tons/ha Applied: 19.79

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	1,094.2303	976.2504	N/A	N/A
NH3	118.8189	106.0078	N/A	N/A
NO3	0.1554	0.1387	N/A	N/A
Organic N	973.8517	868.8511	N/A	N/A
As	0.1348	0.1203	0.1348	0.1203
Cd	0.0400	0.0357	0.0400	0.0357
Cr	1.1800	1.0527	1.1800	1.0527
Cu	6.5087	5.8069	6.5087	5.8069
Pb	0.1999	0.1783	0.1999	0.1783
Hg	0.0149	0.0133	0.0149	0.0133
Mo	0.3852	0.3437	0.3852	0.3437
Ni	0.5810	0.5183	0.5810	0.5183
Se	0.4440	0.3961	0.4440	0.3961
Zn	14.9293	13.3196	14.9293	13.3196
PAN	254.3352	226.9128	N/A	N/A
P	220.1750	196.4357	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: MA 7-2402
Total Acres: 73.70

Latitude: 33°26'22.5996"
Longitude: 113°8'13.8012"

Crop: Alfalfa 450
Crop Nitrogen Rate: 450

Application Started: 2022-09-24

Wet Tons Applied: 3,421.42
Dry Tons Applied: 1,219.15

Wet Metric Tons Applied: 3,103.86
Dry Metric Tons Applied: 1,106.00

Wet Tons/Acre Applied: 46.42
Dry Tons/Acre Applied: 16.54

Wet Metric Tons/ha Applied: 104.14
Dry Metric Tons/ha Applied: 37.11

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	2,044.3030	1,823.8863	N/A	N/A
NH3	214.4710	191.3467	N/A	N/A
NO3	0.7390	0.6593	N/A	N/A
Organic N	1,882.9842	1,679.9610	N/A	N/A
As	0.2106	0.1879	0.2106	0.1879
Cd	0.1110	0.0990	0.1110	0.0990
Cr	0.7664	0.6838	0.7664	0.6838
Cu	12.2605	10.9386	12.2605	10.9386
Pb	0.4687	0.4182	0.4687	0.4182
Hg	0.0201	0.0179	0.0201	0.0179
Mo	0.8338	0.7439	0.8338	0.7439
Ni	1.0327	0.9213	1.0327	0.9213
Se	0.5543	0.4946	0.5543	0.4946
Zn	28.5363	25.4595	28.5363	25.4595
PAN	479.0963	427.4401	N/A	N/A
P	396.7142	353.9405	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: MA 7-2404
Total Acres: 74.20

Latitude: 33°26'22.0992"
Longitude: 113°7'53.9004"

Crop: Alfalfa 462
Crop Nitrogen Rate: 462

Application Started: 2022-08-01

Wet Tons Applied: 2,650.10
Dry Tons Applied: 686.28

Wet Metric Tons Applied: 2,404.13
Dry Metric Tons Applied: 622.59

Wet Tons/Acre Applied: 35.72
Dry Tons/Acre Applied: 9.25

Wet Metric Tons/ha Applied: 80.12
Dry Metric Tons/ha Applied: 20.75

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	1,353.6234	1,207.6758	N/A	N/A
NH3	78.2605	69.8225	N/A	N/A
NO3	1.5626	1.3941	N/A	N/A
Organic N	1,275.3629	1,137.8533	N/A	N/A
As	0.1177	0.1050	0.1177	0.1050
Cd	0.0561	0.0501	0.0561	0.0501
Cr	0.2781	0.2481	0.2781	0.2481
Cu	6.4506	5.7551	6.4506	5.7551
Pb	0.2036	0.1816	0.2036	0.1816
Hg	0.0081	0.0072	0.0081	0.0072
Mo	0.3877	0.3459	0.3877	0.3459
Ni	0.5523	0.4928	0.5523	0.4928
Se	0.4004	0.3572	0.4004	0.3572
Zn	13.9798	12.4725	13.9798	12.4725
PAN	295.7654	263.8760	N/A	N/A
P	178.6545	159.3920	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: MA 7-2405
Total Acres: 71.30

Latitude: 33°26'21.9012"
Longitude: 113°7'43.3992"

Crop: Alfalfa 450
Crop Nitrogen Rate: 450

Application Started: 2022-06-23

Wet Tons Applied: 3,220.18
Dry Tons Applied: 900.65

Wet Metric Tons Applied: 2,921.30
Dry Metric Tons Applied: 817.06

Wet Tons/Acre Applied: 45.16
Dry Tons/Acre Applied: 12.63

Wet Metric Tons/ha Applied: 101.31
Dry Metric Tons/ha Applied: 28.34

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	1,674.2110	1,493.6976	N/A	N/A
NH3	160.1736	142.9037	N/A	N/A
NO3	2.4308	2.1687	N/A	N/A
Organic N	1,511.2612	1,348.3171	N/A	N/A
As	0.2018	0.1800	0.2018	0.1800
Cd	0.0632	0.0564	0.0632	0.0564
Cr	0.5466	0.4877	0.5466	0.4877
Cu	9.0303	8.0567	9.0303	8.0567
Pb	0.3046	0.2718	0.3046	0.2718
Hg	0.0161	0.0144	0.0161	0.0144
Mo	0.7216	0.6438	0.7216	0.6438
Ni	0.9286	0.8285	0.9286	0.8285
Se	0.7401	0.6603	0.7401	0.6603
Zn	21.2292	18.9403	21.2292	18.9403
PAN	457.9500	408.5739	N/A	N/A
P	169.4475	151.1776	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: MA 7-C04
Total Acres: 151.70

Latitude: 33°27'27."
Longitude: 113°13'59.0016"

Crop: Alfalfa 522
Crop Nitrogen Rate: 522

Application Started: 2022-01-01

Wet Tons Applied: 921.33
Dry Tons Applied: 239.93

Wet Metric Tons Applied: 835.82
Dry Metric Tons Applied: 217.66

Wet Tons/Acre Applied: 6.07
Dry Tons/Acre Applied: 1.58

Wet Metric Tons/ha Applied: 13.62
Dry Metric Tons/ha Applied: 3.55

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	186.1129	166.0462	N/A	N/A
NH3	8.9592	7.9932	N/A	N/A
NO3	0.3281	0.2927	N/A	N/A
Organic N	176.8491	157.7812	N/A	N/A
As	0.0220	0.0197	0.0220	0.0197
Cd	0.0104	0.0092	0.0104	0.0092
Cr	0.1813	0.1618	0.1813	0.1618
Cu	1.0645	0.9497	1.0645	0.9497
Pb	0.0284	0.0253	0.0284	0.0253
Hg	0.0024	0.0022	0.0024	0.0022
Mo	0.0606	0.0541	0.0606	0.0541
Ni	0.0968	0.0864	0.0968	0.0864
Se	0.0708	0.0632	0.0708	0.0632
Zn	2.6224	2.3396	2.6224	2.3396
PAN	40.1991	35.8649	N/A	N/A
P	26.1611	23.3405	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: YM 2-2007
Total Acres: 20

Latitude: 32°42'32.0004"
Longitude: 113°55'55.9992"

Crop: Alfalfa 586
Crop Nitrogen Rate: 586

Application Started: 2022-05-23

Wet Tons Applied: 512.62
Dry Tons Applied: 101.03

Wet Metric Tons Applied: 465.04
Dry Metric Tons Applied: 91.66

Wet Tons/Acre Applied: 25.63
Dry Tons/Acre Applied: 5.05

Wet Metric Tons/ha Applied: 57.49
Dry Metric Tons/ha Applied: 11.33

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	587.7000	524.3342	N/A	N/A
NH3	82.8170	73.8877	N/A	N/A
NO3	0.0434	0.0387	N/A	N/A
Organic N	504.8830	450.4465	N/A	N/A
As	0.0549	0.0490	0.0549	0.0490
Cd	0.0237	0.0212	0.0237	0.0212
Cr	0.4065	0.3627	0.4065	0.3627
Cu	4.8451	4.3227	4.8451	4.3227
Pb	0.0745	0.0665	0.0745	0.0665
Hg	0.0065	0.0058	0.0065	0.0058
Mo	0.1946	0.1736	0.1946	0.1736
Ni	0.3954	0.3528	0.3954	0.3528
Se	0.0855	0.0763	0.0855	0.0763
Zn	9.3620	8.3526	9.3620	8.3526
PAN	142.4285	127.0719	N/A	N/A
P	248.3320	221.5568	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: YM 8-7
Total Acres: 63.30

Latitude: 32°54'51.9984"
Longitude: 113°31'9.9984"

Crop: Bermuda 370
Crop Nitrogen Rate: 370

Application Started: 2022-11-08

Wet Tons Applied: 2,142.99
Dry Tons Applied: 1,039.43

Wet Metric Tons Applied: 1,944.09
Dry Metric Tons Applied: 942.96

Wet Tons/Acre Applied: 33.85
Dry Tons/Acre Applied: 16.42

Wet Metric Tons/ha Applied: 75.94
Dry Metric Tons/ha Applied: 36.83

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	2,405.6404	2,146.2644	N/A	N/A
NH3	246.4619	219.8884	N/A	N/A
NO3	6.2888	5.6107	N/A	N/A
Organic N	2,163.4345	1,930.1731	N/A	N/A
As	0.1693	0.1510	0.1693	0.1510
Cd	0.0310	0.0276	0.0310	0.0276
Cr	0.6158	0.5494	0.6158	0.5494
Cu	10.1040	9.0146	10.1040	9.0146
Pb	0.2454	0.2189	0.2454	0.2189
Hg	0.0354	0.0316	0.0354	0.0316
Mo	0.5338	0.4762	0.5338	0.4762
Ni	0.6766	0.6036	0.6766	0.6036
Se	0.2478	0.2211	0.2478	0.2211
Zn	23.0025	20.5224	23.0025	20.5224
PAN	562.2066	501.5895	N/A	N/A
P	451.3765	402.7091	N/A	N/A

Denali WATER SOLUTIONS

FIELD APPLICATION SUMMARY REPORT

For: 1/1/2022 to 12/31/2022

Permit: CA1 Biosolids

Field Name: YM 8-8
Total Acres: 58.60

Latitude: 32°54'51.9984"
Longitude: 113°30'38.9988"

Crop: Bermuda 365
Crop Nitrogen Rate: 365

Application Started: 2022-10-21

Wet Tons Applied: 2,386.80
Dry Tons Applied: 1,076.38

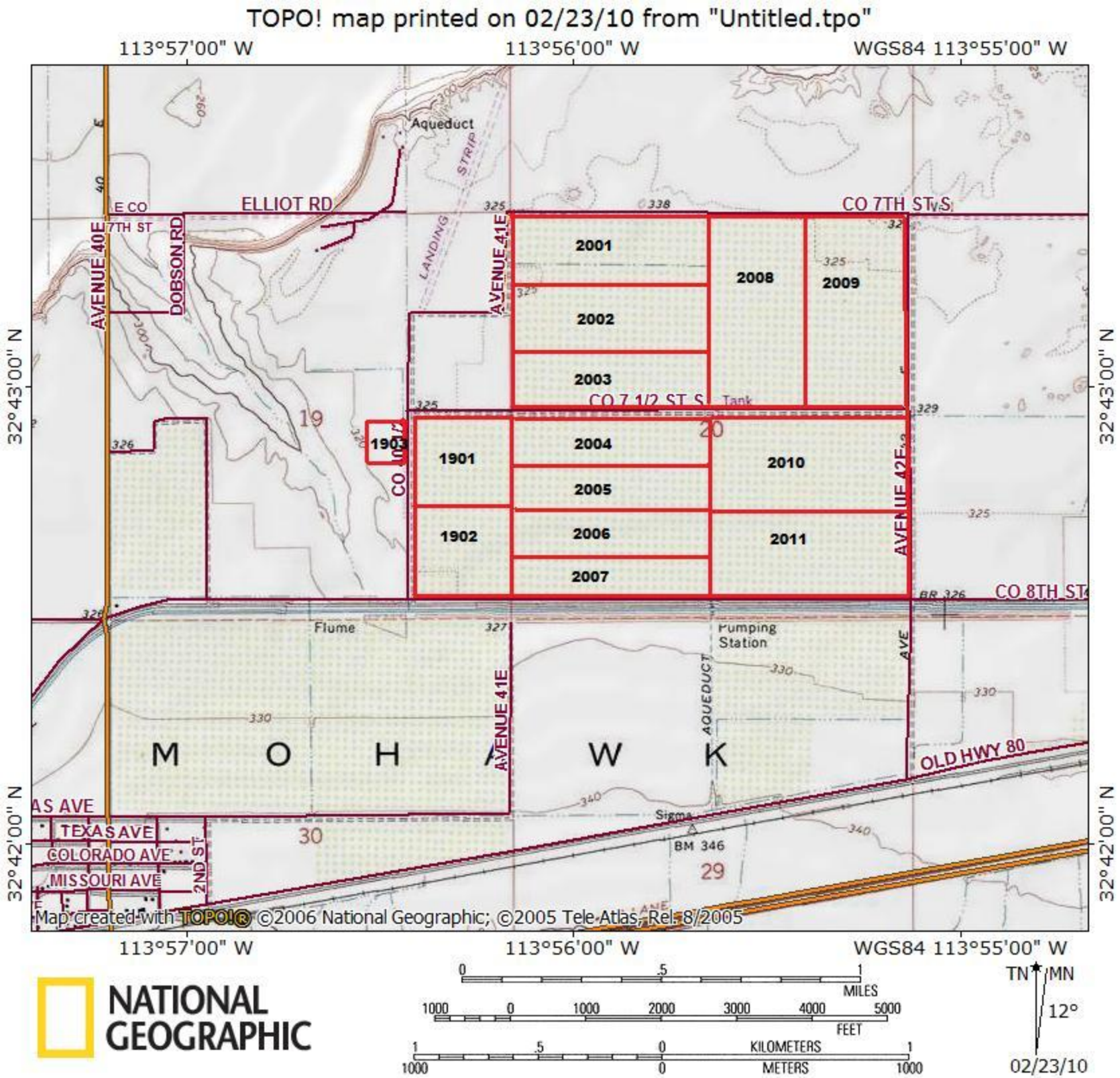
Wet Metric Tons Applied: 2,165.27
Dry Metric Tons Applied: 976.48

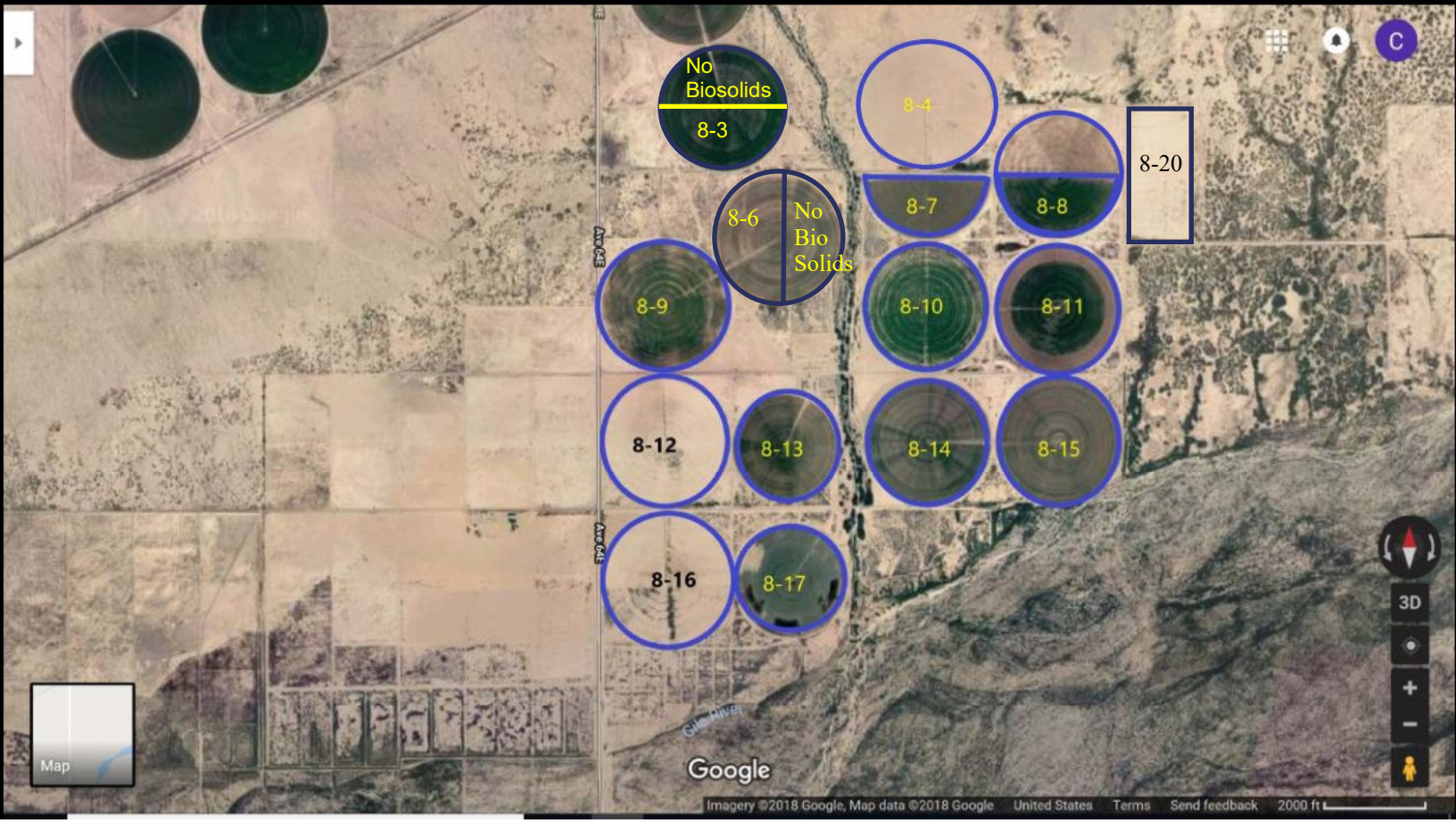
Wet Tons/Acre Applied: 40.73
Dry Tons/Acre Applied: 18.37

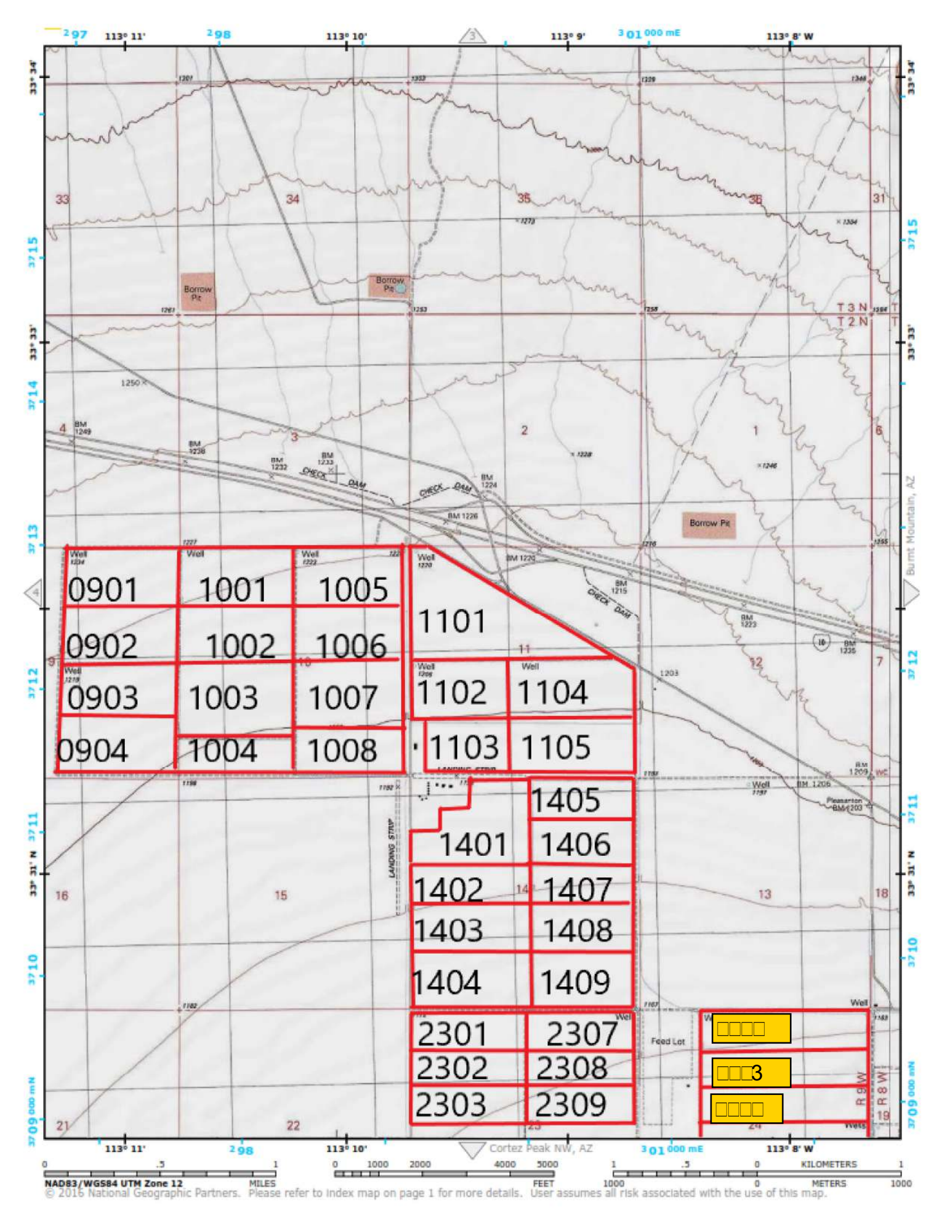
Wet Metric Tons/ha Applied: 91.37
Dry Metric Tons/ha Applied: 41.20

Constituent	kg Applied (kg/ha)	lbs Applied (lbs/ac)	kg Applied YTD (kg/ha)	lbs Applied YTD (lbs/ac)
TKN	2,641.5566	2,356.7440	N/A	N/A
NH3	276.5859	246.7644	N/A	N/A
NO3	3.3687	3.0055	N/A	N/A
Organic N	2,373.3976	2,117.4980	N/A	N/A
As	0.1767	0.1577	0.1767	0.1577
Cd	0.0618	0.0552	0.0618	0.0552
Cr	0.8324	0.7427	0.8324	0.7427
Cu	12.8751	11.4869	12.8751	11.4869
Pb	0.2696	0.2405	0.2696	0.2405
Hg	0.0366	0.0327	0.0366	0.0327
Mo	0.5908	0.5271	0.5908	0.5271
Ni	0.8468	0.7555	0.8468	0.7555
Se	0.2578	0.2300	0.2578	0.2300
Zn	27.8887	24.8818	27.8887	24.8818
PAN	616.3412	549.8873	N/A	N/A
P	592.9250	528.9958	N/A	N/A

Field Maps


TOPO! map printed on 02/23/10 from "Untitled.tpo"
113°57'00" W
113°56'00" W
WGS84 113°55'00" W
32°43'00" N
32°42'00" N
Aqueduct
ELLIOT RD
E CO 7TH ST
DOBSON RD
AVENUE 40E
AVENUE 41E
CO 7TH ST S
CO 7 1/2 ST S
CO 8TH ST
2001
2002
2003
2008
2009
1901
1902
1903
2004
2005
2006
2007
2010
2011
19
20
30
29
Flume
Pumping Station
AQUEDUCT
AVE
M O H A W K
OLD HWY 80
TEXAS AVE
COLORADO AVE
MISSOURI AVE
2ND ST
Sigma
BM 346
Tank
Map created with TOPO!® ©2006 National Geographic; ©2005 Tele Atlas, Rel. 8/2005
NATIONAL GEOGRAPHIC
MILES
FEET
KILOMETERS
METERS
TN
MN
12°
02/23/10


No
Biosolids
8-3
8-4
8-20
8-6
No
Bio
Solids
8-7
8-8
8-9
8-10
8-11
8-12
8-13
8-14
8-15
8-16
8-17
Map
Google
3D
Imagery ©2018 Google, Map data ©2018 Google
United States
Terms
Send feedback
2000 ft



Certification Statement

Denali Water Solutions
3308 Bernice Avenue
Russellville, AR 72802

Arizona
Biosolids Land Application
2022

Biosolids Certification Statement

"I certify, under penalty of law, that the management practices in §503.14 and the Merced County Ordinance Chapter 9.52, and the site restrictions in §503.32(b)(5) and the Merced County Ordinance Chapter 9.52 have been met for each site on which bulk sewage sludge was applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices and site restrictions have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."

By: _____ Date: 2/10/22

Lancaster WRP Influent Monitoring

Table 4.5
Lancaster Water Reclamation Plant
2022 Influent Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022
1,1,1-Trichloroethane	ug/L			ND						
1,1,2,2-Tetrachloroethane	ug/L			ND						
1,1,2-Trichloroethane	ug/L			ND						
1,1-Dichloroethane	ug/L			ND						
1,1-Dichloroethene	ug/L			ND						
1,2,4-Trichlorobenzene	ug/L			ND						
1,2-Dichlorobenzene	ug/L			ND						
1,2-Dichloroethane	ug/L			ND						
1,2-Dichloropropane	ug/L			ND						
1,2-Diphenylhydrazine	ug/L			ND						
1,3-Dichlorobenzene	ug/L			ND						
1,4-Dichlorobenzene	ug/L			ND						
2,4,6-Trichlorophenol	ug/L			ND						
2,4-Dichlorophenol	ug/L			ND						
2,4-Dimethylphenol	ug/L			ND						
2,4-Dinitrophenol	ug/L			ND						
2,4-Dinitrotoluene	ug/L			ND						
2,6-Dinitrotoluene	ug/L			ND						
2-Chloroethyl vinyl ether (mixed)	ug/L			ND						
2-Chloronaphthalene	ug/L			ND						
2-Chlorophenol	ug/L			ND						
2-Methyl-4,6-dinitrophenol	ug/L			ND						
2-Nitrophenol	ug/L			ND						
3,3'-Dichlorobenzidine	ug/L			ND						
3-Methyl-4-chlorophenol	ug/L			ND						
4,4'-DDD	ug/L			ND						
4,4'-DDE	ug/L			ND						
4,4'-DDT	ug/L			ND						
4-Bromophenyl phenyl ether	ug/L			ND						
4-Chlorophenyl phenyl ether	ug/L			ND						
4-Nitrophenol	ug/L			ND						
Acenaphthene	ug/L			ND						
Acenaphthylene	ug/L			ND						
Acrolein	ug/L			ND						
Acrylonitrile	ug/L			ND						
Aldrin	ug/L			ND						
alpha-BHC	ug/L			ND						
Aluminum	ug/L			315						
Ammonia as nitrogen	mg/L	34.5			33.8			31.1		
Anthracene	ug/L			ND						
Antimony	ug/L			0.87						
Aroclor 1016	ug/L			ND						
Aroclor 1221	ug/L			ND						
Aroclor 1232	ug/L			ND						
Aroclor 1242	ug/L			ND						
Aroclor 1248	ug/L			ND						
Aroclor 1254	ug/L			ND						
Aroclor 1260	ug/L			ND						
Arsenic	ug/L			4.23						
Barium	ug/L			64.5						
Benzene	ug/L			ND						
Benzidine	ug/L			ND						
Benzo(a)anthracene	ug/L			ND						
Benzo(a)pyrene	ug/L			ND						
Benzo(b)fluoranthene	ug/L			ND						
Benzo(g,h,i)perylene	ug/L			ND						
Benzo(k)fluoranthene	ug/L			ND						
Beryllium	ug/L			ND						
beta-BHC	ug/L			ND						
bis(2-Chloroethoxy) methane	ug/L			ND						
bis(2-Chloroethyl) ether	ug/L			ND						
bis(2-Chloroisopropyl) ether	ug/L			ND						
bis(2-Ethylhexyl) phthalate	ug/L			ND						
Bromodichloromethane	ug/L			ND						
Bromoform	ug/L			DNQ Est. Conc. 0.24						
Butyl benzyl phthalate	ug/L			ND						
Cadmium	ug/L			DNQ Est. Conc. 0.15						
Calcium	mg/L			56						
Carbon tetrachloride	ug/L			ND						
Chemical oxygen demand (COD)	mg/L	1091	635	693	708	652	765	742	659	633
Chloride	mg/L			92.6		106				109
Chlorobenzene	ug/L			ND						
Chlorodibromomethane	ug/L			DNQ Est. Conc. 0.13						
Chloroethane	ug/L			ND						
Chloroform	ug/L			0.71						
Chromium VI	ug/L			0.11						
Chromium, total	ug/L			7.6						

Table 4.5
Lancaster Water Reclamation Plant
2022 Influent Monitoring Results

Parameter	Units	October 2022	November 2022	December 2022	Monthly Average			Method	ML	MDL	RL
					Minimum	Average	Maximum				
1,1,1-Trichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.16	0.50
1,1,2,2-Tetrachloroethane	ug/L				ND	ND	ND	EPA 624.1		0.21	0.50
1,1,2-Trichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.13	0.50
1,1-Dichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.08	0.50
1,1-Dichloroethene	ug/L				ND	ND	ND	EPA 624.1		0.21	0.50
1,2,4-Trichlorobenzene	ug/L				ND	ND	ND	EPA 625.1		0.51	20.0
1,2-Dichlorobenzene	ug/L				ND	ND	ND	EPA 624.1		0.15	0.50
1,2-Dichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.22	0.50
1,2-Dichloropropane	ug/L				ND	ND	ND	EPA 624.1		0.14	0.50
1,2-Diphenylhydrazine	ug/L				ND	ND	ND	EPA 625.1		0.63	20.0
1,3-Dichlorobenzene	ug/L				ND	ND	ND	EPA 624.1		0.15	0.50
1,4-Dichlorobenzene	ug/L				ND	ND	ND	EPA 624.1		0.25	0.50
2,4,6-Trichlorophenol	ug/L				ND	ND	ND	EPA 625.1		0.64	20.0
2,4-Dichlorophenol	ug/L				ND	ND	ND	EPA 625.1		0.60	20.0
2,4-Dimethylphenol	ug/L				ND	ND	ND	EPA 625.1		0.44	20.0
2,4-Dinitrophenol	ug/L				ND	ND	ND	EPA 625.1		1.5	100
2,4-Dinitrotoluene	ug/L				ND	ND	ND	EPA 625.1		0.37	20.0
2,6-Dinitrotoluene	ug/L				ND	ND	ND	EPA 625.1		0.50	20.0
2-Chloroethyl vinyl ether (mixed)	ug/L				ND	ND	ND	EPA 624.1		0.28	0.50
2-Chloronaphthalene	ug/L				ND	ND	ND	EPA 625.1		0.41	20.0
2-Chlorophenol	ug/L				ND	ND	ND	EPA 625.1		0.41	20.0
2-Methyl-4,6-dinitrophenol	ug/L				ND	ND	ND	EPA 625.1		1.3	100
2-Nitrophenol	ug/L				ND	ND	ND	EPA 625.1		0.31	20.0
3,3'-Dichlorobenzidine	ug/L				ND	ND	ND	EPA 625.1		0.54	20.0
3-Methyl-4-chlorophenol	ug/L				ND	ND	ND	EPA 625.1		0.69	20.0
4,4'-DDD	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
4,4'-DDE	ug/L				ND	ND	ND	EPA 608.3		0.002	0.10
4,4'-DDT	ug/L				ND	ND	ND	EPA 608.3		0.004	0.10
4-Bromophenyl phenyl ether	ug/L				ND	ND	ND	EPA 625.1		0.58	20.0
4-Chlorophenyl phenyl ether	ug/L				ND	ND	ND	EPA 625.1		0.63	20.0
4-Nitrophenol	ug/L				ND	ND	ND	EPA 625.1		1.6	100
Acenaphthene	ug/L				ND	ND	ND	EPA 625.1		0.50	20.0
Acenaphthylene	ug/L				ND	ND	ND	EPA 625.1		0.50	20.0
Acrolein	ug/L				ND	ND	ND	EPA 624.1		0.64	2.0
Acrylonitrile	ug/L				ND	ND	ND	EPA 624.1		0.64	2.0
Aldrin	ug/L				ND	ND	ND	EPA 608.3		0.002	0.05
alpha-BHC	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Aluminum	ug/L				315	315	315	EPA 200.8		7.67	10.0
Ammonia as nitrogen	mg/L	33.5			31.1	33.2	34.5	SM 4500 NH3 H		0.030 - 0.069	1.00
Anthracene	ug/L				ND	ND	ND	EPA 625.1		0.56	20.0
Antimony	ug/L				0.87	0.87	0.87	EPA 200.8		0.12	0.50
Aroclor 1016	ug/L				ND	ND	ND	EPA 608.3		0.1	5.0
Aroclor 1221	ug/L				ND	ND	ND	EPA 608.3		0.1	5.0
Aroclor 1232	ug/L				ND	ND	ND	EPA 608.3		0.1	5.0
Aroclor 1242	ug/L				ND	ND	ND	EPA 608.3		0.1	5.0
Aroclor 1248	ug/L				ND	ND	ND	EPA 608.3		0.1	5.0
Aroclor 1254	ug/L				ND	ND	ND	EPA 608.3		0.1	5.0
Aroclor 1260	ug/L				ND	ND	ND	EPA 608.3		0.1	5.0
Arsenic	ug/L				4.23	4.23	4.23	EPA 200.8	2	0.05	1.00
Barium	ug/L				64.5	64.5	64.5	EPA 200.8		0.07	0.50
Benzene	ug/L				ND	ND	ND	EPA 624.1		0.09	0.50
Benzidine	ug/L				ND	ND	ND	EPA 625.1		0.77	100
Benzo(a)anthracene	ug/L				ND	ND	ND	EPA 625.1		0.46	20.0
Benzo(a)pyrene	ug/L				ND	ND	ND	EPA 625.1		0.54	20.0
Benzo(b)fluoranthene	ug/L				ND	ND	ND	EPA 625.1		0.61	20.0
Benzo(g,h,i)perylene	ug/L				ND	ND	ND	EPA 625.1		0.52	20.0
Benzo(k)fluoranthene	ug/L				ND	ND	ND	EPA 625.1		0.53	20.0
Beryllium	ug/L				ND	ND	ND	EPA 200.8		0.026	0.25
beta-BHC	ug/L				ND	ND	ND	EPA 608.3		0.003	0.05
bis(2-Chloroethoxy) methane	ug/L				ND	ND	ND	EPA 625.1		0.003	0.10
bis(2-Chloroethyl) ether	ug/L				ND	ND	ND	EPA 625.1		0.003	0.10
bis(2-Chloroisopropyl) ether	ug/L				ND	ND	ND	EPA 625.1		0.003	0.10
bis(2-Ethylhexyl) phthalate	ug/L				ND	ND	ND	EPA 625.1		0.003	0.10
Bromodichloromethane	ug/L				ND	ND	ND	EPA 624.1		0.003	0.10
Bromoform	ug/L				DNQ Est. Conc. 0.24	ND	DNQ Est. Conc. 0.24	EPA 624.1		0.003	0.10
Butyl benzyl phthalate	ug/L				ND	ND	ND	EPA 625.1		0.003	0.10
Cadmium	ug/L				DNQ Est. Conc. 0.15	ND	DNQ Est. Conc. 0.15	EPA 200.8	0.25	0.003	0.10
Calcium	mg/L				56	56	56	EPA 200.8		0.003	0.10
Carbon tetrachloride	ug/L				ND	ND	ND	EPA 624.1		0.003	0.10
Chemical oxygen demand (COD)	mg/L	601	544	775	544	708	1091	SM 5220D (std)		0.003	0.10
Chloride	mg/L		97.6		92.6	101	109	EPA 300.0		0.003	0.10
Chlorobenzene	ug/L				ND	ND	ND	EPA 624.1		0.003	0.10
Chlorodibromomethane	ug/L				DNQ Est. Conc. 0.13	ND	DNQ Est. Conc. 0.13	EPA 624.1		0.003	0.10
Chloroethane	ug/L				ND	ND	ND	EPA 624.1		0.003	0.10
Chloroform	ug/L				0.71	0.71	0.71	EPA 624.1		0.003	0.10
Chromium VI	ug/L				0.11	0.11	0.11	EPA 218.6 (Dissolved)		0.003	0.10
Chromium, total	ug/L				7.6	7.6	7.6	EPA 200.8	0.5	0.003	0.10

Table 4.5
Lancaster Water Reclamation Plant
2022 Influent Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022
Chrysene	ug/L			ND						
cis-1,3-Dichloropropene	ug/L			ND						
Cobalt	ug/L			0.27						
Copper	ug/L			40.4						
delta-BHC	ug/L			ND						
Di-n-butyl phthalate	ug/L			ND						
Di-n-octyl phthalate	ug/L			ND						
Dibenzo(a,h)anthracene	ug/L			ND						
Dibromoacetic acid	ug/L			DNQ Est. Conc. 0.59						
Dichloroacetic acid	ug/L			1.7						
Dieldrin	ug/L			ND						
Diesel range organics	ug/L			7,600						
Diethyl phthalate	ug/L			ND						
Dimethyl phthalate	ug/L			ND						
Electrical Conductivity as µS/cm	µmho/cm									1250
Endosulfan I	ug/L			ND						
Endosulfan II	ug/L			ND						
Endosulfan sulfate	ug/L			ND						
Endrin	ug/L			ND						
Endrin aldehyde	ug/L			ND						
Ethylbenzene	ug/L			ND						
Fluoranthene	ug/L			ND						
Fluorene	ug/L			ND						
gamma-BHC (Lindane)	ug/L			ND						
Gasoline range organics	ug/L			DNQ Est. Conc. 24						
Haloacetic Acids (HAA5)	ug/L			5.3						
Heptachlor	ug/L			ND						
Heptachlor epoxide	ug/L			ND						
Hexachlorobenzene	ug/L			ND						
Hexachlorobutadiene	ug/L			ND						
Hexachlorocyclopentadiene	ug/L			ND						
Hexachloroethane	ug/L			ND						
Indeno (1,2,3-cd) pyrene	ug/L			ND						
Iron	mg/L			0.56						
Isophorone	ug/L			ND						
Lead	ug/L			1.28						
m+p-Xylenes	ug/L			ND						
Magnesium	mg/L			7.7						
Manganese	ug/L			22.4						
Mercury	ug/L			0.068						
Methyl bromide (Bromomethane)	ug/L			ND						
Methyl chloride (Chloromethane)	ug/L			ND						
Methyl tert-butyl ether (MTBE)	ug/L			ND						
Methylene chloride	ug/L			ND						
Molybdenum	ug/L			6.41						
Monobromoacetic acid	ug/L			ND						
Monochloroacetic acid	ug/L			DNQ Est. Conc. 0.81						
n-Nitrosodi-n-propylamine	ug/L			ND						
n-Nitrosodimethylamine (NDMA)	ug/L			3.8						
n-Nitrosodiphenylamine	ug/L			ND						
Naphthalene	ug/L			ND						
Nickel	ug/L			2.23						
Nitrate as nitrogen	mg/L	0.082			0.027			DNQ Est. Conc. 0.108		
Nitrite as nitrogen	mg/L	ND			ND			ND		
Nitrobenzene	ug/L			ND						
o-Xylene	ug/L			ND						
Oil range organics	ug/L			5,400						
Pentachlorophenol	ug/L			ND						
pH	SU	7.7	7.8	7.8	7.9	7.7	7.6	7.7	7.8	8.1
Phenanthrene	ug/L			ND						
Phenol	ug/L			ND						
Phenols	ug/L			103						
Potassium	mg/L			14.5						
Pyrene	ug/L			ND						
Selenium	ug/L			1.96						
Silver	ug/L			0.3						
Sodium	mg/L			94.8						
Sulfate	mg/L			56.9						
Surfactant (MBAS)	mg/L	4.92			8.82			8.30		
Technical Chlordane	ug/L			ND						
Tetrachloroethene	ug/L			ND						
Thallium	ug/L			ND						
Toluene	ug/L			0.85						
Total BOD	mg/L	260	236	285	296	299	385	284	315	261
Total Carbonaceous BOD5	mg/L	212	226	258	184	224	353	239	199	173
Total cyanide	ug/L			ND						
Total dissolved solids	mg/L	573								

Table 4.5
Lancaster Water Reclamation Plant
2022 Influent Monitoring Results

Parameter	Units	October 2022	November 2022	December 2022	Monthly Average			Method	ML	MDL	RL
					Minimum	Average	Maximum				
Chrysene	ug/L				ND	ND	ND	EPA 625.1		0.003	0.10
cis-1,3-Dichloropropene	ug/L				ND	ND	ND	EPA 624.1		0.003	0.10
Cobalt	ug/L				0.27	0.27	0.27	EPA 200.8		0.003	0.10
Copper	ug/L				40.4	40.4	40.4	EPA 200.8	0.5	0.003	0.10
delta-BHC	ug/L				ND	ND	ND	EPA 608.3		0.003	0.05
Di-n-butyl phthalate	ug/L				ND	ND	ND	EPA 625.1		0.59	20.0
Di-n-octyl phthalate	ug/L				ND	ND	ND	EPA 625.1		0.69	20.0
Dibenzo(a,h)anthracene	ug/L				ND	ND	ND	EPA 625.1		0.58	20.0
Dibromoacetic acid	ug/L				DNQ Est. Conc. 0.59	ND	DNQ Est. Conc. 0.59	EPA 552.3		0.28	1.0
Dichloroacetic acid	ug/L				1.7	1.7	1.7	EPA 552.3		0.29	1.0
Dieldrin	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Diesel range organics	ug/L				7,600	7,600	7,600	SW8015 Diesel/Oil Organics		64	500
Diethyl phthalate	ug/L				ND	ND	ND	EPA 625.1		0.42	20.0
Dimethyl phthalate	ug/L				ND	ND	ND	EPA 625.1		0.41	20.0
Electrical Conductivity as µS/cm	µmho/cm	1190			1190	1220	1250	SM 2150B		Not applicable	Not applicable
Endosulfan I	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Endosulfan II	ug/L				ND	ND	ND	EPA 608.3		0.004	0.10
Endosulfan sulfate	ug/L				ND	ND	ND	EPA 608.3		0.004	0.10
Endrin	ug/L				ND	ND	ND	EPA 608.3		0.004	0.10
Endrin aldehyde	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Ethylbenzene	ug/L				ND	ND	ND	EPA 624.1		0.15	0.50
Fluoranthene	ug/L				ND	ND	ND	EPA 625.1		0.69	20.0
Fluorene	ug/L				ND	ND	ND	EPA 625.1		0.58	20.0
gamma-BHC (Lindane)	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Gasoline range organics	ug/L				DNQ Est. Conc. 24	ND	DNQ Est. Conc. 24	SW8015 Gas-Range Organics		15	50
Haloacetic Acids (HAA5)	ug/L				5.3	5.3	5.3	EPA 552.3		0.28	1.0
Heptachlor	ug/L				ND	ND	ND	EPA 608.3		0.002	0.10
Heptachlor epoxide	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Hexachlorobenzene	ug/L				ND	ND	ND	EPA 625.1		0.47	20.0
Hexachlorobutadiene	ug/L				ND	ND	ND	EPA 625.1		0.96	20.0
Hexachlorocyclopentadiene	ug/L				ND	ND	ND	EPA 625.1		2.0	100
Hexachloroethane	ug/L				ND	ND	ND	EPA 625.1		0.81	20.0
Indeno (1,2,3-cd) pyrene	ug/L				ND	ND	ND	EPA 625.1		0.53	20.0
Iron	mg/L				0.56	0.56	0.56	EPA 200.8		0.009	0.020
Isophorone	ug/L				ND	ND	ND	EPA 625.1		0.28	20.0
Lead	ug/L				1.28	1.28	1.28	EPA 200.8	0.5	0.02	0.25
m+p-Xylenes	ug/L				ND	ND	ND	EPA 624.1		0.38	1.0
Magnesium	mg/L				7.7	7.7	7.7	EPA 200.8		0.002	0.020
Manganese	ug/L				22.4	22.4	22.4	EPA 200.8		0.09	1.00
Mercury	ug/L				0.068	0.068	0.068	EPA 245.1	0.5	0.019	0.040
Methyl bromide (Bromomethane)	ug/L				ND	ND	ND	EPA 624.1		0.30	0.50
Methyl chloride (Chloromethane)	ug/L				ND	ND	ND	EPA 624.1		0.41	0.50
Methyl tert-butyl ether (MTBE)	ug/L				ND	ND	ND	EPA 624.1		0.08	0.50
Methylene chloride	ug/L				ND	ND	ND	EPA 624.1		0.46	0.50
Molybdenum	ug/L				6.41	6.41	6.41	EPA 200.8		0.04	0.25
Monobromoacetic acid	ug/L				ND	ND	ND	EPA 552.3		0.34	1.0
Monochloroacetic acid	ug/L				DNQ Est. Conc. 0.81	ND	DNQ Est. Conc. 0.81	EPA 552.3		0.31	2.0
n-Nitrosodi-n-propylamine	ug/L				ND	ND	ND	EPA 625.1		0.36	20.0
n-Nitrosodimethylamine (NDMA)	ug/L				3.8	3.8	3.8	EPA 1625B (Modified)		0.0005	0.020
n-Nitrosodiphenylamine	ug/L				ND	ND	ND	EPA 625.1		0.64	20.0
Naphthalene	ug/L				ND	ND	ND	EPA 625.1		0.20	20.0
Nickel	ug/L				2.23	2.23	2.23	EPA 200.8	1	0.50	1.00
Nitrate as nitrogen	mg/L	DNQ Est. Conc. 0.125			0.027	ND	DNQ Est. Conc. 0.125	Calculated		Not applicable	Not applicable
Nitrite as nitrogen	mg/L	ND			ND	ND	ND	SM 4500 NO3 F		0.012	0.030
Nitrobenzene	ug/L				ND	ND	ND	EPA 625.1		0.31	20.0
o-Xylene	ug/L				ND	ND	ND	EPA 624.1		0.16	0.50
Oil range organics	ug/L				5,400	5,400	5,400	SW8015 Diesel/Oil Organics		75	2500
Pentachlorophenol	ug/L				ND	ND	ND	EPA 625.1		0.82	20.0
pH	SU	8.0	7.7	7.8	7.6	7.8	8.1	SM 4500 H+ B		Not applicable	Not applicable
Phenanthrene	ug/L				ND	ND	ND	EPA 625.1		0.59	20.0
Phenol	ug/L				ND	ND	ND	EPA 625.1		0.24	20.0
Phenols	ug/L				103	103	103	EPA 420.1		3	30
Potassium	mg/L				14.5	14.5	14.5	EPA 200.8		0.020	0.20
Pyrene	ug/L				ND	ND	ND	EPA 625.1		0.60	20.0
Selenium	ug/L				1.96	1.96	1.96	EPA 200.8	2	0.04	1.00
Silver	ug/L				0.3	0.3	0.3	EPA 200.8	0.25	0.02	0.20
Sodium	mg/L				94.8	94.8	94.8	EPA 200.8		0.053	0.20
Sulfate	mg/L				56.9	56.9	56.9	EPA 300.0		0.040	5.00
Surfactant (MBAS)	mg/L	7.79			4.92	7.5	8.82	SM 5540C		0.02 - 0.05	2.00 - 4.00
Technical Chlordane	ug/L				ND	ND	ND	EPA 608.3		0.02	0.50
Tetrachloroethene	ug/L				ND	ND	ND	EPA 624.1		0.18	0.50
Thallium	ug/L				ND	ND	ND	EPA 200.8	1	0.024	0.25
Toluene	ug/L				0.85	0.85	0.85	EPA 624.1		0.15	0.50
Total BOD	mg/L	269	286	421	236	300	421	SM 5210B		Not applicable	86
Total Carbonaceous BOD5	mg/L	234	216	320	173	237	353	SM 5210B		Not applicable	86
Total cyanide	ug/L				ND	ND	ND	SM 4500 CN E	5	2.00	5.00
Total dissolved solids	mg/L				573	573	573	SM 2540C		Not applicable	25.0

Table 4.5
Lancaster Water Reclamation Plant
2022 Influent Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022
Total Kjeldahl Nitrogen (TKN)	mg/L	48.8			50.5			45.2		
Total organic carbon	mg/L			63.1		57.4				
Total Petroleum Hydrocarbons	ug/L			13,000						
Total Suspended Solids	mg/L	1255	285	349	308	286	366	272	232	235
Total Trihalomethanes	ug/l			0.71						
Toxaphene	ug/L			ND						
trans-1,2-Dichloroethene	ug/L			ND						
trans-1,3-Dichloropropene	ug/L			ND						
Trichloroacetic acid	ug/L			2.3						
Trichloroethene	ug/L			ND						
Vanadium	ug/L			12.7						
Vinyl chloride	ug/L			ND						
Zinc	ug/L			208						

Table 4.5
Lancaster Water Reclamation Plant
2022 Influent Monitoring Results

Parameter	Units	October 2022	November 2022	December 2022	Monthly Average			Method	ML	MDL	RL
					Minimum	Average	Maximum				
Total Kjeldahl Nitrogen (TKN)	mg/L	46.8			45.2	47.8	50.5	EPA 351.2		0.132	5.00
Total organic carbon	mg/L				57.4	60.3	63.1	SM 5310C		0.15 - 0.18	12.5 - 25.0
Total Petroleum Hydrocarbons	ug/L				13,000	13,000	13,000	Calculated		Not applicable	Not applicable
Total Suspended Solids	mg/L	214	225	542	214	381	1255	SM 2540D		Not applicable	25.0 - 100
Total Trihalomethanes	ug/l				0.71	0.71	0.71	Calculated		Not applicable	Not applicable
Toxaphene	ug/L				ND	ND	ND	EPA 608.3		0.05	5.0
trans-1,2-Dichloroethene	ug/L				ND	ND	ND	EPA 624.1		0.06	0.50
trans-1,3-Dichloropropene	ug/L				ND	ND	ND	EPA 624.1		0.19	0.50
Trichloroacetic acid	ug/L				2.3	2.3	2.3	EPA 552.3		0.29	1.0
Trichloroethene	ug/L				ND	ND	ND	EPA 624.1		0.15	0.50
Vanadium	ug/L				12.7	12.7	12.7	EPA 200.8		0.32	1.00
Vinyl chloride	ug/L				ND	ND	ND	EPA 624.1		0.25	0.50
Zinc	ug/L				208	208	208	EPA 200.8	1	0.95	5.00

Lancaster WRP Effluent Monitoring

Table 4.6
Lancaster Water Reclamation Plant
2022 Chlorinated Tertiary Effluent Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022
1,1,1-Trichloroethane	ug/L			ND						ND
1,1,2,2-Tetrachloroethane	ug/L			ND						ND
1,1,2-Trichloroethane	ug/L			ND						ND
1,1-Dichloroethane	ug/L			ND						ND
1,1-Dichloroethene	ug/L			ND						ND
1,2,4-Trichlorobenzene	ug/L			ND						ND
1,2-Dichlorobenzene	ug/L			ND						ND
1,2-Dichloroethane	ug/L			ND						ND
1,2-Dichloropropane	ug/L			ND						ND
1,2-Diphenylhydrazine	ug/L			ND						ND
1,3-Dichlorobenzene	ug/L			ND						ND
1,3-Dichloropropene (Total)	ug/L			ND						ND
1,4-Dichlorobenzene	ug/L			ND						ND
2,3,7,8-TCDD	ug/L			ND						ND
2,4,6-Trichlorophenol	ug/L			ND						ND
2,4-Dichlorophenol	ug/L			ND						ND
2,4-Dimethylphenol	ug/L			ND						ND
2,4-Dinitrophenol	ug/L			ND						ND
2,4-Dinitrotoluene	ug/L			ND						ND
2,6-Dinitrotoluene	ug/L			ND						ND
2-Chloroethyl vinyl ether (mixed)	ug/L			ND						ND
2-Chloronaphthalene	ug/L			ND						ND
2-Chlorophenol	ug/L			ND						ND
2-Methyl-4,6-dinitrophenol	ug/L			ND						ND
2-Nitrophenol	ug/L			ND						ND
3,3'-Dichlorobenzidine	ug/L			ND						ND
3-Methyl-4-chlorophenol	ug/L			ND						ND
4,4'-DDD	ug/L			ND						ND
4,4'-DDE	ug/L			ND						ND
4,4'-DDT	ug/L			ND						ND
4-Bromophenyl phenyl ether	ug/L			ND						ND
4-Chlorophenyl phenyl ether	ug/L			ND						ND
4-Nitrophenol	ug/L			ND						ND
Acenaphthene	ug/L			ND						ND
Acenaphthylene	ug/L			ND						ND
Acrolein	ug/L			ND						ND
Acrylonitrile	ug/L			ND						ND
Aldrin	ug/L			ND						ND
alpha-BHC	ug/L			ND						ND
Aluminum	ug/L			DNQ Est. Conc. 8.16						DNQ Est. Conc. 7.26
Ammonia as nitrogen	mg/L	4.94	2.92	3.33	1.28	2.44	1.44	2.85	3.33	2.21
Anthracene	ug/L			ND						ND
Antimony	ug/L			0.61						0.56
Aroclor 1016	ug/L			ND						ND
Aroclor 1221	ug/L			ND						ND
Aroclor 1232	ug/L			ND						ND
Aroclor 1242	ug/L			ND						ND
Aroclor 1248	ug/L			ND						ND
Aroclor 1254	ug/L			ND						ND
Aroclor 1260	ug/L			ND						ND
Arsenic	ug/L			1.99						3.11
Barium	ug/L			38.7						25.5
Benzene	ug/L			ND						ND
Benzidine	ug/L			ND						ND
Benzo(a)anthracene	ug/L			ND						ND
Benzo(a)pyrene	ug/L			ND						ND
Benzo(b)fluoranthene	ug/L			ND						ND
Benzo(g,h,i)perylene	ug/L			ND						ND
Benzo(k)fluoranthene	ug/L			ND						ND

Table 4.6
Lancaster Water Reclamation Plant
2022 Chlorinated Tertiary Effluent Monitoring Results

Parameter	Units	October 2022	November 2022	December 2022	Monthly Average			Limit			Method	ML	MDL	RL
					Minimum	Average	Maximum	Max Daily	Monthly Average	Annual Average				
1,1,1-Trichloroethane	ug/L				ND	ND	ND				EPA 624.1		0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L				ND	ND	ND				EPA 624.1		0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L				ND	ND	ND				EPA 624.1		0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L				ND	ND	ND				EPA 624.1		0.08 - 0.19	0.50
1,1-Dichloroethene	ug/L				ND	ND	ND				EPA 624.1		0.21	0.50
1,2,4-Trichlorobenzene	ug/L				ND	ND	ND				EPA 625.1		0.51	1.0
1,2-Dichlorobenzene	ug/L				ND	ND	ND				EPA 624.1		0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L				ND	ND	ND				EPA 624.1		0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L				ND	ND	ND				EPA 624.1		0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L				ND	ND	ND				EPA 625.1		0.63	1.0
1,3-Dichlorobenzene	ug/L				ND	ND	ND				EPA 624.1		0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L				ND	ND	ND				Calculated		Not applicable	Not applicable
1,4-Dichlorobenzene	ug/L				ND	ND	ND				EPA 624.1		0.16 - 0.25	0.50
2,3,7,8-TCDD	ug/L				ND	ND	ND				EPA 1613B		0.25 - 0.51	10
2,4,6-Trichlorophenol	ug/L				ND	ND	ND				EPA 625.1		0.64	1.0
2,4-Dichlorophenol	ug/L				ND	ND	ND				EPA 625.1		0.60	1.0
2,4-Dimethylphenol	ug/L				ND	ND	ND				EPA 625.1		0.44	1.0
2,4-Dinitrophenol	ug/L				ND	ND	ND				EPA 625.1		1.5	5.0
2,4-Dinitrotoluene	ug/L				ND	ND	ND				EPA 625.1		0.37	1.0
2,6-Dinitrotoluene	ug/L				ND	ND	ND				EPA 625.1		0.50	1.0
2-Chloroethyl vinyl ether (mixed)	ug/L				ND	ND	ND				EPA 624.1		0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L				ND	ND	ND				EPA 625.1		0.41	1.0
2-Chlorophenol	ug/L				ND	ND	ND				EPA 625.1		0.41	1.0
2-Methyl-4,6-dinitrophenol	ug/L				ND	ND	ND				EPA 625.1		1.3	5.0
2-Nitrophenol	ug/L				ND	ND	ND				EPA 625.1		0.31	1.0
3,3'-Dichlorobenzidine	ug/L				ND	ND	ND				EPA 625.1		0.54	1.0
3-Methyl-4-chlorophenol	ug/L				ND	ND	ND				EPA 625.1		0.69	1.0
4,4'-DDD	ug/L				ND	ND	ND				EPA 608.3		0.003	0.01
4,4'-DDE	ug/L				ND	ND	ND				EPA 608.3		0.002	0.01
4,4'-DDT	ug/L				ND	ND	ND				EPA 608.3		0.004	0.01
4-Bromophenyl phenyl ether	ug/L				ND	ND	ND				EPA 625.1		0.58	1.0
4-Chlorophenyl phenyl ether	ug/L				ND	ND	ND				EPA 625.1		0.63	1.0
4-Nitrophenol	ug/L				ND	ND	ND				EPA 625.1		1.6	5.0
Acenaphthene	ug/L				ND	ND	ND				EPA 625.1		0.50	1.0
Acenaphthylene	ug/L				ND	ND	ND				EPA 625.1		0.50	1.0
Acrolein	ug/L				ND	ND	ND				EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L				ND	ND	ND				EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L				ND	ND	ND				EPA 608.3		0.002	0.005
alpha-BHC	ug/L				ND	ND	ND				EPA 608.3		0.003	0.01
Aluminum	ug/L				DNQ Est. Conc. 7.26	ND	DNQ Est. Conc. 8.16				EPA 200.8		5.10 - 7.67	10.0
Ammonia as nitrogen	mg/L	2.04	1.09	1.25	1.09	2.43	4.94				SM 4500 NH3 H		0.030 - 0.069	0.100
Anthracene	ug/L				ND	ND	ND				EPA 625.1		0.56	1.0
Antimony	ug/L				0.56	0.59	0.61				EPA 200.8		0.12	0.50
Aroclor 1016	ug/L				ND	ND	ND				EPA 608.3		0.1	0.5
Aroclor 1221	ug/L				ND	ND	ND				EPA 608.3		0.1	0.5
Aroclor 1232	ug/L				ND	ND	ND				EPA 608.3		0.1	0.5
Aroclor 1242	ug/L				ND	ND	ND				EPA 608.3		0.1	0.5
Aroclor 1248	ug/L				ND	ND	ND				EPA 608.3		0.1	0.5
Aroclor 1254	ug/L				ND	ND	ND				EPA 608.3		0.1	0.5
Aroclor 1260	ug/L				ND	ND	ND				EPA 608.3		0.1	0.5
Arsenic	ug/L				1.99	2.55	3.11				EPA 200.8	2	0.05 - 0.07	1.00
Barium	ug/L				25.5	32.1	38.7				EPA 200.8		0.07 - 0.10	0.50
Benzene	ug/L				ND	ND	ND				EPA 624.1		0.06 - 0.09	0.50
Benzidine	ug/L				ND	ND	ND				EPA 625.1		0.77	5.0
Benzo(a)anthracene	ug/L				ND	ND	ND				EPA 625.1		0.46	1.0
Benzo(a)pyrene	ug/L				ND	ND	ND				EPA 610	10	0.013	0.020
Benzo(b)fluoranthene	ug/L				ND	ND	ND				EPA 610	10	0.015	0.020
Benzo(g,h,i)perylene	ug/L				ND	ND	ND				EPA 625.1		0.52	1.0
Benzo(k)fluoranthene	ug/L				ND	ND	ND				EPA 610	10	0.014	0.020

Table 4.6
Lancaster Water Reclamation Plant
2022 Chlorinated Tertiary Effluent Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022
Beryllium	ug/L			ND						ND
beta-BHC	ug/L			ND						ND
bis(2-Chloroethoxy) methane	ug/L			ND						ND
bis(2-Chloroethyl) ether	ug/L			ND						ND
bis(2-Chloroisopropyl) ether	ug/L			ND						ND
bis(2-Ethylhexyl) phthalate	ug/L			ND						ND
Bromodichloromethane	ug/L			DNQ Est. Conc. 0.33		0.78				0.69
Bromoform	ug/L			ND		ND				ND
Butyl benzyl phthalate	ug/L			ND						ND
Cadmium	ug/L			ND						ND
Calcium	mg/L			54.5		52.4				47.7
Carbon tetrachloride	ug/L			ND						ND
Chemical oxygen demand (COD)	mg/L	30.0	DNQ Est. Conc. 20.0	DNQ Est. Conc. 20.0	DNQ Est. Conc. 15.1	DNQ Est. Conc. 17.6	DNQ Est. Conc. 12.7	ND	DNQ Est. Conc. 22.9	DNQ Est. Conc. 14.7
Chloride	mg/L			116		121				122
Chlorobenzene	ug/L			ND						ND
Chlorodibromomethane	ug/L			ND		ND				ND
Chloroethane	ug/L			ND						ND
Chloroform	ug/L			2.5		3.4				4.0
Chromium VI	ug/L					0.21				0.19
Chromium, total	ug/L			1.24						1.20
Chrysene	ug/L			ND						ND
cis-1,3-Dichloropropene	ug/L			ND						ND
Cobalt	ug/L			DNQ Est. Conc. 0.09						DNQ Est. Conc. 0.18
Copper	ug/L			1.02						1.39
delta-BHC	ug/L			ND						ND
Di-n-butyl phthalate	ug/L			ND						ND
Di-n-octyl phthalate	ug/L			ND						ND
Dibenzo(a,h)anthracene	ug/L			ND						ND
Dibromoacetic acid	ug/L			DNQ Est. Conc. 0.56		ND				DNQ Est. Conc. 0.51
Dichloroacetic acid	ug/L			12		15				13
Dieldrin	ug/L			ND						ND
Diesel range organics	ug/L									157
Diethyl phthalate	ug/L			ND						ND
Dimethyl phthalate	ug/L			ND						ND
Dissolved oxygen	mg/L	8.5	8.5	8.4	8.2	7.9	7.5	7.1	7.0	7.2
Endosulfan I	ug/L			ND						ND
Endosulfan II	ug/L			ND						ND
Endosulfan sulfate	ug/L			ND						ND
Endrin	ug/L			ND						ND
Endrin aldehyde	ug/L			ND						ND
Electrical Conductivity as µS/cm	µmho/cm									823
Ethylbenzene	ug/L			ND						ND
Fluoranthene	ug/L			ND						ND
Fluorene	ug/L			ND						ND
gamma-BHC (Lindane)	ug/L			ND						ND
Gasoline range organics	ug/L			ND		ND				ND
Haloacetic Acids (HAA5)	ug/L			15		20				19
Heptachlor	ug/L			ND						ND
Heptachlor epoxide	ug/L			ND						ND
Hexachlorobenzene	ug/L			ND						ND
Hexachlorobutadiene	ug/L			ND						ND
Hexachlorocyclopentadiene	ug/L			ND						ND
Hexachloroethane	ug/L			ND						ND
Indeno (1,2,3-cd) pyrene	ug/L			ND						ND
Iron	ug/L			0.06						0.08
Isophorone	ug/L			ND						ND
Lead	ug/L			DNQ Est. Conc. 0.07						DNQ Est. Conc. 0.02
m+p-Xylenes	ug/L			ND						ND
Magnesium	mg/L			6.7		6.3				7.6

Table 4.6
Lancaster Water Reclamation Plant
2022 Chlorinated Tertiary Effluent Monitoring Results

Parameter	Units	October 2022	November 2022	December 2022	Monthly Average			Limit			Method	ML	MDL	RL
					Minimum	Average	Maximum	Max Daily	Monthly Average	Annual Average				
Beryllium	ug/L				ND	ND	ND				EPA 200.8		0.02 - 0.03	0.25
beta-BHC	ug/L				ND	ND	ND				EPA 608.3		0.003	0.005
bis(2-Chloroethoxy) methane	ug/L				ND	ND	ND				EPA 625.1		0.28	1.0
bis(2-Chloroethyl) ether	ug/L				ND	ND	ND				EPA 625.1		0.27	1.0
bis(2-Chloroisopropyl) ether	ug/L				ND	ND	ND				EPA 625.1		0.25	1.0
bis(2-Ethylhexyl) phthalate	ug/L				ND	ND	ND				EPA 625.1		0.55	1.0
Bromodichloromethane	ug/L		3.5		DNQ Est. Conc. 0.33	1.2	3.5				EPA 624.1		0.11 - 0.15	0.50
Bromoform	ug/L		ND		ND	ND	ND				EPA 624.1		0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L				ND	ND	ND				EPA 625.1		0.58	1.0
Cadmium	ug/L				ND	ND	ND				EPA 200.8	0.25	0.030 - 0.035	0.20
Calcium	mg/L		50.9		47.7	51.4	54.5				EPA 200.8		0.016	0.020 - 0.02
Carbon tetrachloride	ug/L				ND	ND	ND				EPA 624.1		0.18 - 0.34	0.50
Chemical oxygen demand (COD)	mg/L	30.2	DNQ Est. Conc. 14.9	25.3	ND	7.13	30.2				SM 5220D (std)		7.7	25.0
Chloride	mg/L		121		116	120	122				EPA 300.0		0.024 - 0.144	10.0
Chlorobenzene	ug/L				ND	ND	ND				EPA 624.1		0.07 - 0.10	0.50
Chlorodibromomethane	ug/L		0.59		ND	0.15	0.59				EPA 624.1		0.11 - 0.13	0.50
Chloroethane	ug/L				ND	ND	ND				EPA 624.1		0.22 - 0.31	0.50
Chloroform	ug/L		8.9		2.5	4.7	8.9				EPA 624.1		0.08 - 0.35	0.50
Chromium VI	ug/L				0.19	0.20	0.21				EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total	ug/L				1.20	1.22	1.24				EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L				ND	ND	ND				EPA 610	10	0.014	0.020
cis-1,3-Dichloropropene	ug/L				ND	ND	ND				EPA 624.1		0.08 - 0.16	0.50
Cobalt	ug/L				DNQ Est. Conc. 0.09	ND	DNQ Est. Conc. 0.18				EPA 200.8		0.01 - 0.02	0.25
Copper	ug/L				1.02	1.21	1.39				EPA 200.8	0.5	0.12 - 0.14	0.50
delta-BHC	ug/L				ND	ND	ND				EPA 608.3		0.003	0.005
Di-n-butyl phthalate	ug/L				ND	ND	ND				EPA 625.1		0.59	1.0
Di-n-octyl phthalate	ug/L				ND	ND	ND				EPA 625.1		0.69	1.0
Dibenzo(a,h)anthracene	ug/L				ND	ND	ND				EPA 610	10	0.014	0.020
Dibromoacetic acid	ug/L		1.2		ND	0.30	1.2				EPA 552.3		0.28	1.0
Dichloroacetic acid	ug/L		13		12	13	15				EPA 552.3		0.29	1.0
Dieldrin	ug/L				ND	ND	ND				EPA 608.3		0.003	0.01
Diesel range organics	ug/L				157	157	157				SW8015 Diesel/Oil Organics		64	100
Diethyl phthalate	ug/L				ND	ND	ND				EPA 625.1		0.42	1.0
Dimethyl phthalate	ug/L				ND	ND	ND				EPA 625.1		0.41	1.0
Dissolved oxygen	mg/L	7.4	7.9	8.1	7.0	7.8	8.5		>3.0		HACH 10360 LDO		Not applicable	0.2
Endosulfan I	ug/L				ND	ND	ND				EPA 608.3		0.003	0.01
Endosulfan II	ug/L				ND	ND	ND				EPA 608.3		0.004	0.01
Endosulfan sulfate	ug/L				ND	ND	ND				EPA 608.3		0.004	0.01
Endrin	ug/L				ND	ND	ND				EPA 608.3		0.004	0.01
Endrin aldehyde	ug/L				ND	ND	ND				EPA 608.3		0.003	0.01
Electrical Conductivity as µS/cm	µmho/cm	831			823	827	831				SM 2510B		Not applicable	Not applicable
Ethylbenzene	ug/L				ND	ND	ND				EPA 624.1		0.11 - 0.15	0.50
Fluoranthene	ug/L				ND	ND	ND				EPA 625.1		0.69	1.0
Fluorene	ug/L				ND	ND	ND				EPA 625.1		0.58	1.0
gamma-BHC (Lindane)	ug/L				ND	ND	ND				EPA 608.3		0.003	0.01
Gasoline range organics	ug/L				ND	ND	ND				SW8015 Gas-Range Organics		15	50
Haloacetic Acids (HAA5)	ug/L		25		15	20	25				EPA 552.3		0.28	1.0
Heptachlor	ug/L				ND	ND	ND				EPA 608.3		0.002	0.01
Heptachlor epoxide	ug/L				ND	ND	ND				EPA 608.3		0.003	0.01
Hexachlorobenzene	ug/L				ND	ND	ND				EPA 625.1		0.47	1.0
Hexachlorobutadiene	ug/L				ND	ND	ND				EPA 625.1		0.96	1.0
Hexachlorocyclopentadiene	ug/L				ND	ND	ND				EPA 625.1		2.0	5.0
Hexachloroethane	ug/L				ND	ND	ND				EPA 625.1		0.81	1.0
Indeno (1,2,3-cd) pyrene	ug/L				ND	ND	ND				EPA 610	10	0.013	0.020
Iron	ug/L				0.06	0.07	0.08				EPA 200.8		0.01	0.02
Isophorone	ug/L				ND	ND	ND				EPA 625.1		0.28	1.0
Lead	ug/L				DNQ Est. Conc. 0.02	ND	DNQ Est. Conc. 0.07				EPA 200.8	0.5	0.01 - 0.02	0.25
m+p-Xylenes	ug/L				ND	ND	ND				EPA 624.1		0.11 - 0.38	1.0
Magnesium	mg/L		7.6		6.3	7.1	7.6				EPA 200.8		0.002 - 0.004	0.020

Table 4.6
Lancaster Water Reclamation Plant
2022 Chlorinated Tertiary Effluent Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022
Manganese	ug/L			16.0						15.0
Mercury	ug/L			0.00095						ND
Methyl bromide (Bromomethane)	ug/L			ND						ND
Methyl chloride (Chloromethane)	ug/L			ND						ND
Methyl tert-butyl ether (MTBE)	ug/L			ND						
Methylene chloride	ug/L			ND						ND
Molybdenum	ug/L			4.97						2.68
Monobromoacetic acid	ug/L			ND		ND				1.1
Monochloroacetic acid	ug/L			ND		DNQ Est. Conc. 1.8				2.3
n-Nitrosodi-n-propylamine	ug/L			ND						ND
n-Nitrosodimethylamine (NDMA)	ug/L			0.044		3.5				1.2
n-Nitrosodiphenylamine	ug/L			ND						ND
Naphthalene	ug/L			ND						ND
Nickel	ug/L			DNQ Est. Conc. 0.80						DNQ Est. Conc. 0.78
Nitrate as nitrogen	mg/L	5.85	6.07	4.44	6.38	6.04	3.96	3.40	4.37	5.12
Nitrite as nitrogen	mg/L	0.181	0.108	0.111	0.051	0.131	0.072	0.162	0.406	0.165
Nitrobenzene	ug/L			ND						ND
o-Xylene	ug/L			ND						ND
Oil range organics	ug/L			ND		ND				DNQ Est. Conc. 76
Pentachlorophenol	ug/L			ND						ND
pH	SU	7.6	7.7	7.6	7.6	7.6	7.6	7.6	7.7	7.8
Phenanthrene	ug/L			ND						ND
Phenol	ug/L			DNQ Est. Conc. 0.52						DNQ Est. Conc. 0.56
Phenols	ug/L			DNQ Est. Conc. 0.004						
Potassium	mg/L			14.1						13.8
Pyrene	ug/L			ND						ND
Selenium	ug/L			DNQ Est. Conc. 0.69						DNQ Est. Conc. 0.36
Silver	ug/L			ND						ND
Sodium	mg/L			104		110				115
Sulfate	mg/L			70.4		70.5				70.0
Surfactant (MBAS)	mg/L	DNQ Est. Conc. 0.06			DNQ Est. Conc. 0.05			DNQ Est. Conc. 0.07		
Technical Chlordane	ug/L			ND						ND
Temperature	°C	19.8	19.6	19.9	21.2	22.6	25.9	27.6	28.1	28.1
Tetrachloroethene	ug/L			ND						ND
Thallium	ug/L			ND						ND
Toluene	ug/L			ND						ND
Total BOD	mg/L	ND	ND	ND	ND	ND	ND	ND	4.1	ND
Total Carbonaceous BOD5	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total coliform	#/100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total cyanide	ug/L					ND				
Total dissolved solids	mg/L	572			576			491		
Total Kjeldahl Nitrogen (TKN)	mg/L	6.05	5.10	4.64	2.17	4.10	2.62	4.10	3.80	3.55
Total Nitrogen	mg/L	12.1	11.3	9.19	8.6	10.3	6.7	7.66	8.58	8.84
Total Petroleum Hydrocarbons	ug/L									157
Total Suspended Solids	mg/l	3.8	ND	ND	ND	ND	ND	ND	ND	ND
Total trihalomethanes	ug/L			2.5		4.2				4.7
Toxaphene	ug/L			ND						ND
trans-1,2-Dichloroethene	ug/L			ND						ND
trans-1,3-Dichloropropene	ug/L			ND						ND
Trichloroacetic acid	ug/L			2.7		4.5				2.5
Trichloroethene	ug/L			ND						ND
Vanadium	ug/L			6.27						6.82
Vinyl chloride	ug/L			ND						ND
Zinc	ug/L			57.9						28.3

Table 4.6
Lancaster Water Reclamation Plant
2022 Chlorinated Tertiary Effluent Monitoring Results

Parameter	Units	October 2022	November 2022	December 2022	Monthly Average			Limit			Method	ML	MDL	RL
					Minimum	Average	Maximum	Max Daily	Monthly Average	Annual Average				
Manganese	ug/L				15.0	15.5	16.0				EPA 200.8		0.09 - 0.21	1.00
Mercury	ug/L				ND	0.00048	0.00095				EPA 245.1 / EPA 1631E	0.5	0.00010 - 0.019	0.00050 - 0.040
Methyl bromide (Bromomethane)	ug/L				ND	ND	ND				EPA 624.1		0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L				ND	ND	ND				EPA 624.1		0.19 - 0.41	0.50
Methyl tert-butyl ether (MTBE)	ug/L				ND	ND	ND				EPA 624.1		0.08	0.50
Methylene chloride	ug/L				ND	ND	ND				EPA 624.1		0.16 - 0.46	0.50
Molybdenum	ug/L				2.68	3.83	4.97				EPA 200.8		0.03 - 0.04	0.25
Monobromoacetic acid	ug/L		3.1		ND	1.1	3.1				EPA 552.3		0.34 - 5.0	1.0 - 5.0
Monochloroacetic acid	ug/L		2.4		ND	1.2	2.4				EPA 552.3		0.31 - 5.0	2.0 - 5.0
n-Nitrosodi-n-propylamine	ug/L				ND	ND	ND				EPA 625.1		0.36	1.0
n-Nitrosodimethylamine (NDMA)	ug/L		1.3		0.044	1.5	3.5				EPA 1625B (Modified)		0.0005	0.010
n-Nitrosodiphenylamine	ug/L				ND	ND	ND				EPA 625.1		0.64	1.0
Naphthalene	ug/L				ND	ND	ND				EPA 625.1		0.20	1.0
Nickel	ug/L				DNQ Est. Conc. 0.78	ND	DNQ Est. Conc. 0.80				EPA 200.8	1	0.08 - 0.50	1.00
Nitrate as nitrogen	mg/L	4.90	7.99	6.47	3.4	5.4	7.99				Calculated		Not applicable	Not applicable
Nitrite as nitrogen	mg/L	0.161	0.063	0.064	0.051	0.140	0.406				SM 4500 NO3 F		0.012 - 0.018	0.030
Nitrobenzene	ug/L				ND	ND	ND				EPA 625.1		0.31	1.0
o-Xylene	ug/L				ND	ND	ND				EPA 624.1		0.11 - 0.16	0.50
Oil range organics	ug/L				ND	ND	DNQ Est. Conc. 76				SW8015 Diesel/Oil Organics		75	500
Pentachlorophenol	ug/L				ND	ND	ND				EPA 625.1		0.82	1.0
pH	SU	7.7	7.7	7.7	7.6	7.7	7.8	6.5≤pH≤8.5			SM 4500 H+ B		Not applicable	Not applicable
Phenanthrene	ug/L				ND	ND	ND				EPA 625.1		0.59	1.0
Phenol	ug/L				DNQ Est. Conc. 0.52	ND	DNQ Est. Conc. 0.56				EPA 625.1		0.24	1.0
Phenols	ug/L				DNQ Est. Conc. 0.004	ND	DNQ Est. Conc. 0.004				EPA 420.1		0.003	0.006
Potassium	mg/L				13.8	14.0	14.1				EPA 200.8		0.020 - 0.022	0.20
Pyrene	ug/L				ND	ND	ND				EPA 625.1		0.60	1.0
Selenium	ug/L				DNQ Est. Conc. 0.36	ND	DNQ Est. Conc. 0.69				EPA 200.8	2	0.04	1.00
Silver	ug/L				ND	ND	ND				EPA 200.8	0.25	0.02	0.20
Sodium	mg/L		115		104	111	115				EPA 200.8		0.053 - 0.067	1.00 - 4.0
Sulfate	mg/L			68.9	68.9	70.0	70.5				EPA 300.0		0.040 - 0.161	2.50
Surfactant (MBAS)	mg/L	DNQ Est. Conc. 0.06			DNQ Est. Conc. 0.05	ND	DNQ Est. Conc. 0.07				SM 5540C		0.02 - 0.05	0.10
Technical Chlordane	ug/L				ND	ND	ND				EPA 608.3		0.02	0.05
Temperature	°C	25.5	22.5	20.6	19.6	23.5	28.1				EPA 170.1 (oC)		Not applicable	Not applicable
Tetrachloroethene	ug/L				ND	ND	ND				EPA 624.1		0.16 - 0.18	0.50
Thallium	ug/L				ND	ND	ND				EPA 200.8	1	0.02	0.25
Toluene	ug/L				ND	ND	ND				EPA 624.1		0.04 - 0.15	0.50
Total BOD	mg/L	ND	ND	ND	ND	0.34	4.1	45	30		SM 5210B		Not applicable	3
Total Carbonaceous BOD5	mg/L	ND	ND	ND	ND	ND	ND				SM5210B		Not applicable	3
Total coliform	#/100mL	ND	ND	ND	ND	ND	ND	(1)			SM 9222B		Not applicable	1
Total cyanide	ug/L	DNQ Est. Conc. 3.23			ND	ND	DNQ Est. Conc. 3.23				SM 4500 CN E	5	2.00	5.00
Total dissolved solids	mg/L	483			483	531	576				SM 2540C		Not applicable	25.0
Total Kjeldahl Nitrogen (TKN)	mg/L	2.92	1.45	1.51	1.45	3.50	6.05				EPA 351.2		0.132	0.500 - 1.00
Total Nitrogen	mg/L	7.98	9.5	8.0	6.7	9.1	12.1			10	Calculated		Not applicable	Not applicable
Total Petroleum Hydrocarbons	ug/L				157	157	157				Calculated		Not applicable	Not applicable
Total Suspended Solids	mg/l	ND	ND	ND	ND	0.32	3.8	45	30		SM 2540D		Not applicable	2.5 - 5.0
Total trihalomethanes	ug/L		13		2.5	6.1	13				Calculated		Not applicable	Not applicable
Toxaphene	ug/L				ND	ND	ND				EPA 608.3		0.05	0.5
trans-1,2-Dichloroethene	ug/L				ND	ND	ND				EPA 624.1		0.06 - 0.20	0.50
trans-1,3-Dichloropropene	ug/L				ND	ND	ND				EPA 624.1		0.11 - 0.19	0.50
Trichloroacetic acid	ug/L		5.1		2.5	3.7	5.1				EPA 552.3		0.29	1.0
Trichloroethene	ug/L				ND	ND	ND				EPA 624.1		0.12 - 0.15	0.50
Vanadium	ug/L				6.27	6.55	6.82				EPA 200.8		0.32 - 0.68	1.00
Vinyl chloride	ug/L				ND	ND	ND				EPA 624.1		0.25 - 0.37	0.50
Zinc	ug/L				28.3	43.1	57.9				EPA 200.8	1	0.92 - 0.95	1.00

(1) Number of coliforms may not exceed 23/100 mL in more than one sample during any 30-day period. No sample shall exceed 240/100 mL at any time.

Table 4.7
Lancaster Water Reclamation Plant
2022 Dechlorinated Tertiary Effluent to Piute Ponds Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022
Dissolved oxygen	mg/L								7.0	7.1
Temperature	°C								28.2	27.8
Total coliform	#/100mL								ND	ND
Total Suspended Solids	mg/l								8.4	2.5

Table 4.7
Lancaster Water Reclamation Plant
2022 Dechlorinated Tertiary Effluent to Piute Ponds Monitoring Results

Parameter	Units	October 2022	November 2022	December 2022	Monthly Average			Method	ML	MDL	RL
					Minimum	Average	Maximum				
Dissolved oxygen	mg/L	7.2	7.8	7.8	7.0	7.4	7.8	HACH 10360 LDO		Not applicable	0.2
Temperature	°C	25.2	22.3	20.7	20.7	24.8	28.2	EPA 170.1 (oC)		Not applicable	Not applicable
Total coliform	#/100mL	ND	ND	ND	ND	ND	ND	SM 9222B		Not applicable	1 - 200
Total Suspended Solids	mg/l	8.3	4.5	2.7	2.5	5.3	8.4	SM 2540D		Not applicable	2.5 - 5.0

Lancaster WRP Biosolids Monitoring

NPDES ID: CAL010513
Biosolids Status: Active
Facility Name: LACSD - LANCASTER WRP
P.O. BOX 4998 WHITTIER, CA 90607

View Annual Report

NPDES FORM 6100-035		UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 BIOSOLIDS ANNUAL REPORT	Form Approved. OMB No. 2040-0004. Exp. 03/31/2022

EPA's sewage sludge regulations require certain publicly owned treatment works (POTWs) and Class I sewage sludge management facilities to submit to a Sewage Sludge (Biosolids) Annual Report (see 40 CFR 503.18 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_118), 503.28 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_128), 503.48 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_148)). Facilities that must submit a Sewage Sludge (Biosolids) Annual Report include POTWs with a design flow rate equal to or greater than one million gallons per day, POTWs that serve 10,000 people or more, Class I Sludge Management Facilities (as defined by 40 CFR 503.9 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19)), and facilities otherwise required to file this report (e.g., permit condition, enforcement action, state law). This is the electronic form for Sewage Sludge (Biosolids) Annual Report filers to use if they are located in one of the states, tribes, or territories (https://www.epa.gov/npdes/npdes-state-program-information) where EPA administers the Federal biosolids program.

For the purposes of this form, the term 'sewage sludge (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19)' also refers to the material that is commonly referred to as 'biosolids'. EPA does not have a regulatory definition for biosolids but this material is commonly referred to as sewage sludge that is placed on, or applied to the land to use the beneficial properties of the material as a soil amendment, conditioner, or fertilizer. EPA's use of the term 'biosolids' in this form is to confirm that information about beneficially used sewage sludge (a.k.a. biosolids) should be reported on this form.

Public Availability of Information Submitted on and with General Permit Reports

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk (NPDESeReporting@epa.gov (mailto:NPDESereporting@epa.gov)) for further guidance.

Please note that EPA may contact you after you submit this report for more information regarding your sewage sludge management program.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with EPA regulations (40 CFR 503.18, 503.28, and 503.48). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 3 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden including through the use of automated collection techniques to the Director, Regulatory Support Division, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Program Information

Please select all of the following that apply to your obligation to submit a Sewage Sludge (Biosolids) Annual Report in compliance with 40 CFR part 503. The facility is:

- a Class I Sludge Management Facility as defined in 40 CFR 503.9
- a POTW with a design flow rate equal to or greater than one million gallons per day
- a POTW that serves 10,000 people or more

In the reporting period, did you manage your sewage sludge or biosolids using any of the following management practices: land application, surface disposal, or incineration?

☐ YES ☑ NO

Unless otherwise required to report (e.g., permit condition, enforcement action, state law), this facility is not required to submit a Sewage Sludge (Biosolids) Annual Report. If you are required to submit this report please select "Yes (Required to Submit)" below. If you wish to voluntarily complete and submit this report please select "Yes (Voluntary Submission)" below. Otherwise, please select "No (Exit Form)" to exit this form or simply close your internet browser. Please note that all Sewage Sludge (Biosolids) Annual Report submissions are made public by EPA through its web pages:

Yes (Voluntary Submission)

If your facility is a POTW, please provide the estimated total amount of sewage sludge produced at your facility for the reporting period (in dry metric tons). If your facility is not a POTW, please provide the estimated total amount of biosolids produced at your facility for the reporting period (in dry metric tons).

2016

Reporting Period Start Date: 01/01/2022 **Reporting Period End Date:** 12/31/2022

Treatment Processes

Processes to Significantly Reduce Pathogens (PSRP):
Air Drying (or Sludge Drying Beds)
Anaerobic Digestion

Processes to Further Reduce Pathogens (PFRP):

Physical Treatment Options:
Preliminary Operations (e.g., sludge grinding, degritting, blending)
Thickening (e.g., Gravity and/or Flotation Thickening, Centrifugation, Belt Filter Press, Vacuum Filter, Screw Press)

Other Processes to Manage Sewage Sludge:
Methane or Biogas Capture and Recovery

Analytical Methods

Did you or your facility collect sewage sludge or biosolids samples for laboratory analysis? ☑ YES ☐ NO

Analytical Methods

- EPA Method 6020 - Arsenic (ICP-MS)
- EPA Method 6020 - Cadmium (ICP-MS)
- EPA Method 6020 - Chromium (ICP-MS)
- EPA Method 6020 - Copper (ICP-MS)
- EPA Method 6020 - Lead (ICP-MS)
- EPA Method 7471 - Mercury (CVAA)

- EPA Method 6020 - Molybdenum (ICP-MS)
- EPA Method 6020 - Nickel (ICP-MS)
- EPA Method 6020 - Selenium (ICP-MS)
- EPA Method 6020 - Zinc (ICP-MS)
- Standard Method 4500-NH3 - Ammonia Nitrogen
- Standard Method 4500-Norg - Organic Nitrogen
- Standard Method 2540 - Total Solids

Other Analytical Methods

- Other Nitrate Nitrogen Analytical Method
  Other Analytical Methods Text Area:
  SM4500-NO-3

- Other Nitrogen Analytical Method
  Other Analytical Methods Text Area:
  Total Nitrogen Calculation

- Other Total Kjeldahl Nitrogen Analytical Method
  Other Analytical Methods Text Area:
  SM 4500 NH3

Sludge Management - Land Application

Sludge Management - Surface Disposal

Sludge Management - Incineration

Sludge Management - Other Management Practice

ID: 001

Amount: 1460

Management Practice Detail: Other

Other Management Practice Detail Description: Compost

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler: CAL010500

Facility Information:
NURSERY PRODUCTS HAWES COMPOSTING FACILITY
P.O. Box 1439
Helendale, CA 94342
US

Contact Information:
Venny Vasquez
Site Manager
209-725-2828
vvasquez@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☐ NO ☑ UNKNOWN

ID: 002

Amount: 26

Management Practice Detail: Other

Other Management Practice Detail Description: Compost

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler: CAL000718

Facility Information:
SYNAGRO SOUTH KERN COMPOST MANUFACTURING
P.O. Box 265
Taft, CA 93268
US

Contact Information:
Robert Rankin
Site Manager
661-765-2200
RRankin@SYNAGRO.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☐ NO ☑ UNKNOWN

ID: 003

Amount: 530

Management Practice Detail: Other

Other Management Practice Detail Description: Compost

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler: CAL000243

Facility Information:
LIBERTY COMPOSTING
P.O. Box 5
Lost Hills, CA 93249
US

Contact Information:
Wilson Nolan
Site Manager
661-619-7320
wnolan@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☐ NO ☑ UNKNOWN

Additional Information

Please enter any additional information that you would like to provide in the comment box below.

Additional Attachments

Name	Created Date	Size
Lancaster_NANI_Data_Summary with December Digester.pdf	01/19/2023 2:33 PM	174.03 KB

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

Certified By: Matthew J. Bao (MATTHEWBAO)

Certified On: 02/02/2023 1:26 PM

Notice and Necessary Information

To be Completed by Preparers of Class B Biosolids

Facility Name: Lancaster Water Reclamation Plant **Monitoring Period:** 11/01/2022 to 11/30/2022

1. Pollutant and Nitrogen concentrations (report results in mg/kg on a 100% dry weight basis. Attach lab analyses).

	As	Cd	Cu	Pb	Hg	Mo	Ni	Se	Zn	Org-N	NH_3-N	% solids
Result	11.8	0.66	319	7.46	0.59	15.3	26.3	8.74	1,040	38,200	7,530	14.7
Table 3	41	39	1,500	300	17	na	420	100	2,800	na	na	na
Table 1	75	85	4,300	840	57	75	420	100	7,500	na	na	na

Sampling date(s): 11/02/2022 **Sample Number(s):** 22110200340

2. Class B Pathogen Reduction: (Check off and fill in applicable portion)

√ anaerobic for 59 days at 37 °C (99 °F) (range for past month)
Class B: either 15 days at 35°C to 55°C or 60 days at 20°C
___ aerobic digestion for ____to ____ days at _____to ____ degrees F / C (range for past month)
Class B: time (days) ≥ 20 - 15(temp, degrees C) for times between 40 and 60 days
___ drying beds for ____to_____ months (attach records of dates in and out)
Class B: time > 3 months; 2 months > 0 degrees C
___ fecal coliform: geometric mean of seven samples = _____ (attach lab results)
Class B: geometric mean of seven samples is < 2,000,000 mpn
___ lime stabilization: pH at 2 hours after addition = _____
Class B: pH 2 hours after addition of lime is ≥ 12

3. Vector Attraction Reduction:

√ Option 1: % VS_{in} = 89 % VS_{out} = 72 % VSR = 69 % per Van Kleeck method
VAR: VSR > 38%
____ Option 2/3: Bench scale test: % VSR = _____ after ____ days
VAR: additional VSR < 17% after 40 days (anaerobic), < 15% after 30 days (aerobic)
____ Option 4: SOUR = _____39
VAR: SOUR < 1.5 mg O_2/hr/gram (dry weight)
____ Option 5: Composted _____ days at temps of _____ to _____degrees F/C (attach times/temps)
VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C
____ Option 6: time alkali added: _____ pH after 2 hours = ___ pH after 22 hours = ___
VAR: pH ≥ 12 for 2 hours after alkali addition, ≥ 11.5 for additional 22 hrs
____ Option 7: % solids = _____ Stabilization method: _____
VAR: stabilized solids > 75%
____ Option 8: % solids = _____
VAR: unstabilized solids > 90%
____ Option 9/10: Applier will inject/incorporate within _____ hours
VAR: injection within 1 hour, incorporation within 6 hours

Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Official Title: Matthew J. Bao – Supervising Engineer

Phone: (562) 908-4288 Extension 2824 **E-mail:** mbao@lacsd.org

Signature: Matthew Bao **Date:** 12/23/22

2022 BIOSOLIDS MANAGEMENT PROGRAM
Lancaster Water Reclamation Plant
mg/kg Dry Weight (unless otherwise noted)

Sample No.	Date	% TS	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn
22011900288	1/19/2022	17.7	11.6	0.61	75.2	284	6.39	0.70	13.1	22.2	7.84	992
22030200315	3/2/2022	16.7	10.5	0.86	71.9	302	6.40	1.01	14.1	20.0	7.75	940
22050400378	5/4/2022	15.7	10.7	0.90	81.9	288	6.54	0.60	16.3	23.5	7.87	879
22071300405	7/13/2022	16.5	10.5	0.90	85.1	288	7.04	0.93	16.0	25.5	8.10	892
22090700395	9/7/2022	15.2	12.2	0.90	92.0	311	7.12	0.50	16.8	29.4	9.44	1,050
22110200340	11/2/2022	14.7	11.8	0.66	87.8	319	7.46	0.59	15.3	26.3	8.74	1,040
MEAN		**16.1**	**11.2**	**0.81**	**82.3**	**299**	**6.83**	**0.72**	**15.3**	**24.5**	**8.3**	**966**
MAX			**12.2**	**0.90**	**92.0**	**319**	**7.46**	**1.01**	**16.8**	**29.4**	**9.4**	**1,050**
TABLE 1 LIMITS		****	**75**	**85**	****	**4,300**	**840**	**57**	**75**	**420**	**100**	**7,500**
TABLE 3 LIMITS		****	**41**	**39**	****	**1,500**	**300**	**17**	****	**420**	**100**	**2,800**

Sample No.	Date	Amm-N	Org-N	NO_3-N	NO2-N	PO_4	K	TN	TKN
22011900288	1/19/2022	5,370	57,800	< 13.5	2.15	99,500	1,580	63,200	63,200
22030200315	3/2/2022	6,770	60,400	< 12.0	3.63	98,700	1,860	67,200	67,100
22050400378 *	5/4/2022	14,000	40,000	< 12.7	2.44	104,000	2,010	54,000	54,000
22071300405	7/13/2022	12,000	54,000	14.4	3.04	102,000	1,560	66,000	66,000
22090700395	9/7/2022	6,570	62,600	< 13.1	< 1.96	119,000	1,800	69,200	69,200
22110200340	11/2/2022	7,530	38,200	< 13.6	< 2.04	110,000	1,840	45,700	45,700
MEAN		**9,000**	**52,000**	**14.4**	**2.82**	**106,000**	**1,780**		
MAX		**14,000**	**62,600**	**14.4**	**3.63**	**119,000**	**2,010**		

\ = No Limit

* = Lab ID: 22053100395 May results for Ammonia as N, Organic Nitrogen, and TKN were resampled due to instrument errors.

2022 BIOSOLIDS MANAGEMENT PROGRAM

Lancaster WRP Digester Performance

Month	Temp (°F)	Detention Time (Days)	VSD (%)
January	99	64	70
February	98	69	73
March	99	57	74
April	99	63	75
May	99	103	72
June	99	71	71
July	99	64	72
August	98	90	65
September	99	57	68
October	98	53	70
November	99	59	69
December	99	44	71
MEAN	**99**	**66**	**71**
MIN	**98**	**44**	**65**

Long Beach WRP Influent Monitoring

Long Beach Water Reclamation Plant
2022 INF-001 and Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
1,1,1-Trichloroethane	ug/L	ND						ND		
1,1,2,2-Tetrachloroethane	ug/L	ND						ND		
1,1,2-Trichloroethane	ug/L	ND						ND		
1,1-Dichloroethane	ug/L	ND						ND		
1,1-Dichloroethene	ug/L	ND						ND		
1,2,4-Trichlorobenzene	ug/L	ND						ND		
1,2-Dichlorobenzene	ug/L	ND						ND		
1,2-Dichloroethane	ug/L	ND						ND		
1,2-Dichloropropane	ug/L	ND						ND		
1,2-Diphenylhydrazine	ug/L	ND						ND		
1,3-Dichlorobenzene	ug/L	ND						ND		
1,3-Dichloropropene (Total)	ug/L	ND						ND		
1,4-Dichlorobenzene	ug/L	DNQ Est. Conc. 0.29						DNQ Est. Conc. 0.20		
2,3,7,8-TCDD	pg/L	ND						ND		
2,4,6-Trichlorophenol	ug/L	ND						ND		
2,4'-D	ug/L	ND						ND		
2,4-Dichlorophenol	ug/L	ND						ND		
2,4-Dimethylphenol	ug/L	ND						ND		
2,4-Dinitrophenol	ug/L	ND						ND		
2,4-Dinitrotoluene	ug/L	ND						ND		
2,6-Dinitrotoluene	ug/L	ND						ND		
2-Chloroethyl vinyl ether (mixed)	ug/L	ND						ND		
2-Chloronaphthalene	ug/L	ND						ND		
2-Chlorophenol	ug/L	ND						ND		
2-Methyl-4,6-dinitrophenol	ug/L	ND						ND		
2-Nitrophenol	ug/L	ND						ND		
3,3'-Dichlorobenzidine	ug/L	ND						ND		
3-Methyl-4-chlorophenol	ug/L	ND						ND		
4,4'-DDD	ug/L	ND						ND		
4,4'-DDE	ug/L	ND						ND		
4,4'-DDT	ug/L	ND						ND		
4-Bromophenyl phenyl ether	ug/L	ND						ND		
4-Chlorophenyl phenyl ether	ug/L	ND						ND		
4-Nitrophenol	ug/L	ND						ND		
Acenaphthene	ug/L	ND						ND		
Acenaphthylene	ug/L	ND						ND		
Acrolein	ug/L	ND						ND		
Acrylonitrile	ug/L	ND						ND		
Aldrin	ug/L	ND						ND		
alpha-BHC	ug/L	ND						ND		
Anthracene	ug/L	ND						ND		
Antimony	ug/L	0.58						0.70		
Aroclor 1016	ug/L	ND						ND		
Aroclor 1221	ug/L	ND						ND		
Aroclor 1232	ug/L	ND						ND		
Aroclor 1242	ug/L	ND						ND		
Aroclor 1248	ug/L	ND						ND		
Aroclor 1254	ug/L	ND						ND		
Aroclor 1260	ug/L	ND						ND		
Arsenic	ug/L	7.85						7.76		
Benzene	ug/L	ND						ND		
Benzidine	ug/L	ND						ND		
Benzo(a)anthracene	ug/L	ND						ND		
Benzo(a)pyrene	ug/L	ND						ND		
Benzo(b)fluoranthene	ug/L	ND						ND		
Benzo(g,h,i)perylene	ug/L	ND						ND		
Benzo(k)fluoranthene	ug/L	ND						ND		
Beryllium	ug/L	ND						ND		
beta-BHC	ug/L	ND						ND		

Long Beach Water Reclamation Plant
2022 INF-001 and Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	Method	ML	MDL	RL
1,1,1-Trichloroethane	ug/L				ND	ND	ND	EPA 624.1	2	0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L				ND	ND	ND	EPA 624.1	1	0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L				ND	ND	ND	EPA 624.1	2	0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L				ND	ND	ND	EPA 624.1	1	0.08 - 0.19	0.50
1,1-Dichloroethene	ug/L				ND	ND	ND	EPA 624.1	2	0.21	0.50
1,2,4-Trichlorobenzene	ug/L				ND	ND	ND	EPA 625.1	5	0.51	20.0
1,2-Dichlorobenzene	ug/L				ND	ND	ND	EPA 624.1	2	0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L				ND	ND	ND	EPA 624.1	2	0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L				ND	ND	ND	EPA 624.1	1	0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L				ND	ND	ND	EPA 625.1	1	0.63	20.0
1,3-Dichlorobenzene	ug/L				ND	ND	ND	EPA 624.1	2	0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L				ND	ND	ND	Calculated	2		
1,4-Dichlorobenzene	ug/L				DNQ Est. Conc. 0.20	ND	DNQ Est. Conc. 0.29	EPA 624.1	2	0.16 - 0.25	0.50
2,3,7,8-TCDD	pg/L				ND	ND	ND	EPA 1613B		0.92 - 2.1	9.4 -12
2,4,6-Trichlorophenol	ug/L				ND	ND	ND	EPA 625.1	10	0.64	20.0
2,4'-D	ug/L				ND	ND	ND	EPA 515.4		0.28 - 0.70	0.80 - 2.0
2,4-Dichlorophenol	ug/L				ND	ND	ND	EPA 625.1	5	0.60	20.0
2,4-Dimethylphenol	ug/L				ND	ND	ND	EPA 625.1	2	0.44	20.0
2,4-Dinitrophenol	ug/L				ND	ND	ND	EPA 625.1	5	1.5	100
2,4-Dinitrotoluene	ug/L				ND	ND	ND	EPA 625.1	5	0.37	20.0
2,6-Dinitrotoluene	ug/L				ND	ND	ND	EPA 625.1	5	0.50	20.0
2-Chloroethyl vinyl ether (mixed)	ug/L				ND	ND	ND	EPA 624.1	1	0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L				ND	ND	ND	EPA 625.1	10	0.41	20.0
2-Chlorophenol	ug/L				ND	ND	ND	EPA 625.1	5	0.41	20.0
2-Methyl-4,6-dinitrophenol	ug/L				ND	ND	ND	EPA 625.1	5	1.3	100
2-Nitrophenol	ug/L				ND	ND	ND	EPA 625.1	10	0.31	20.0
3,3'-Dichlorobenzidine	ug/L				ND	ND	ND	EPA 625.1	5	0.54	20.0
3-Methyl-4-chlorophenol	ug/L				ND	ND	ND	EPA 625.1	1	0.69	20.0
4,4'-DDD	ug/L				ND	ND	ND	EPA 608.3	0.05	0.003	0.10
4,4'-DDE	ug/L				ND	ND	ND	EPA 608.3	0.05	0.002	0.10
4,4'-DDT	ug/L				ND	ND	ND	EPA 608.3	0.01	0.004	0.10
4-Bromophenyl phenyl ether	ug/L				ND	ND	ND	EPA 625.1	5	0.58	20.0
4-Chlorophenyl phenyl ether	ug/L				ND	ND	ND	EPA 625.1	5	0.63	20.0
4-Nitrophenol	ug/L				ND	ND	ND	EPA 625.1	10	1.6	100
Acenaphthene	ug/L				ND	ND	ND	EPA 625.1	1	0.50	20.0
Acenaphthylene	ug/L				ND	ND	ND	EPA 625.1	10	0.50	20.0
Acrolein	ug/L				ND	ND	ND	EPA 624.1	5	0.64 - 0.88	2.0
Acrylonitrile	ug/L				ND	ND	ND	EPA 624.1	2	0.31 - 0.64	2.0
Aldrin	ug/L				ND	ND	ND	EPA 608.3	0.005	0.002	0.05
alpha-BHC	ug/L				ND	ND	ND	EPA 608.3	0.01	0.003	0.10
Anthracene	ug/L				ND	ND	ND	EPA 625.1	10	0.56	20.0
Antimony	ug/L				0.58	0.64	0.70	EPA 200.8	0.5	0.12	0.50
Aroclor 1016	ug/L				ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1221	ug/L				ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1232	ug/L				ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1242	ug/L				ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1248	ug/L				ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1254	ug/L				ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1260	ug/L				ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Arsenic	ug/L				7.76	7.8	7.85	EPA 200.8	2	0.05 - 0.07	1.00
Benzene	ug/L				ND	ND	ND	EPA 624.1	2	0.06 - 0.09	0.50
Benzidine	ug/L				ND	ND	ND	EPA 625.1	5	0.77	100
Benzo(a)anthracene	ug/L				ND	ND	ND	EPA 625.1	5	0.46	20.0
Benzo(a)pyrene	ug/L				ND	ND	ND	EPA 625.1	10	0.54	20.0
Benzo(b)fluoranthene	ug/L				ND	ND	ND	EPA 625.1	10	0.61	20.0
Benzo(g,h,i)perylene	ug/L				ND	ND	ND	EPA 625.1	5	0.52	20.0
Benzo(k)fluoranthene	ug/L				ND	ND	ND	EPA 625.1	10	0.53	20.0
Beryllium	ug/L				ND	ND	ND	EPA 200.8	0.5	0.023 - 0.026	0.25
beta-BHC	ug/L				ND	ND	ND	EPA 608.3	0.005	0.003	0.05

Long Beach Water Reclamation Plant
2022 INF-001 and Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
bis(2-Chloroethoxy) methane	ug/L	ND						ND		
bis(2-Chloroethyl) ether	ug/L	ND						ND		
bis(2-Chloroisopropyl) ether	ug/L	ND						ND		
bis(2-Ethylhexyl) phthalate	ug/L	ND						ND		
BOD5 20°C	mg/L	395	323	331	387	313	338	331	301	344
Bromodichloromethane	ug/L	0.57						DNQ Est. Conc. 0.26		
Bromoform	ug/L	DNQ Est. Conc. 0.24						DNQ Est. Conc. 0.14		
Butyl benzyl phthalate	ug/L	ND						ND		
Cadmium	ug/L	DNQ Est. Conc. 0.098						DNQ Est. Conc. 0.071		
Carbon tetrachloride	ug/L	ND						ND		
Chlordane	ug/L	ND						ND		
Chlorobenzene	ug/L	ND						ND		
Chlorodibromomethane	ug/L	DNQ Est. Conc. 0.49						DNQ Est. Conc. 0.24		
Chloroethane	ug/L	ND						ND		
Chloroform	ug/L	4.8						3.6		
Chromium VI	ug/L	DNQ Est. Conc. 0.02						0.08		
Chromium, total	ug/L	1.78						1.51		
Chrysene	ug/L	ND						ND		
Copper	ug/L	36.6			43.6			38.2		
delta-BHC	ug/L	ND						ND		
Di-n-butyl phthalate	ug/L	ND						ND		
Di-n-octyl phthalate	ug/L	ND						ND		
Dibenzo(a,h)anthracene	ug/L	ND						ND		
Dieldrin	ug/L	ND			ND			ND		
Diethyl phthalate	ug/L	ND						DNQ Est. Conc. 11.2		
Dimethyl phthalate	ug/L	ND						ND		
Endosulfan I	ug/L	ND						ND		
Endosulfan II	ug/L	ND						ND		
Endosulfan sulfate	ug/L	ND						ND		
Endrin	ug/L	ND						ND		
Endrin aldehyde	ug/L	ND						DNQ Est. Conc. 0.03		
Ethylbenzene	ug/L	ND						ND		
Fluoranthene	ug/L	ND						ND		
Fluorene	ug/L	ND						ND		
gamma-BHC (Lindane)	ug/L	ND						ND		
Heptachlor	ug/L	ND						ND		
Heptachlor epoxide	ug/L	ND						ND		
Hexachlorobenzene	ug/L	ND						ND		
Hexachlorobutadiene	ug/L	ND						ND		
Hexachlorocyclopentadiene	ug/L	ND						ND		
Hexachloroethane	ug/L	ND						ND		
Indeno (1,2,3-cd) pyrene	ug/L	ND						ND		
Isophorone	ug/L	ND						ND		
Lead	ug/L	0.66			0.71			0.78		
Mercury	ug/L	0.04						0.04		
Methyl bromide (Bromomethane)	ug/L	ND						ND		
Methyl chloride (Chloromethane)	ug/L	ND						ND		
Methylene chloride	ug/L	ND						ND		
n-Nitrosodi-n-propylamine	ug/L	ND						ND		
n-Nitrosodimethylamine (NDMA)	ug/L	DNQ Est. Conc. 0.0078						DNQ Est. Conc. 0.013		
n-Nitrosodiphenylamine	ug/L	ND						ND		
Naphthalene	ug/L	ND						ND		
Nickel	ug/L	4.69						3.31		
Nitrobenzene	ug/L	ND						ND		
PCB-018 (Co: 18,30)	pg/L							DNQ Est. Conc. 55		
PCB-037	pg/L							DNQ Est. Conc. 41		
PCB-044 (Co: 44,47,65)	pg/L							DNQ Est. Conc. 200(1)		
PCB-049 (Co: 49,69)	pg/L							DNQ Est. Conc. 69		
PCB-052	pg/L							210(1)		

Long Beach Water Reclamation Plant
2022 INF-001 and Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	Method	ML	MDL	RL
bis(2-Chloroethoxy) methane	ug/L				ND	ND	ND	EPA 625.1	5	0.28	20.0
bis(2-Chloroethyl) ether	ug/L				ND	ND	ND	EPA 625.1	1	0.27	20.0
bis(2-Chloroisopropyl) ether	ug/L				ND	ND	ND	EPA 625.1	2	0.25	20.0
bis(2-Ethylhexyl) phthalate	ug/L				ND	ND	ND	EPA 625.1	5	0.55	20.0
BOD5 20°C	mg/L	339	348	362	301	343	395	SM 5210B			120
Bromodichloromethane	ug/L				DNQ Est. Conc. 0.26	0.29	0.57	EPA 624.1	2	0.11 - 0.15	0.50
Bromoform	ug/L				DNQ Est. Conc. 0.14	ND	DNQ Est. Conc. 0.24	EPA 624.1	2	0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L				ND	ND	ND	EPA 625.1	10	0.58	20.0
Cadmium	ug/L				DNQ Est. Conc. 0.071	ND	DNQ Est. Conc. 0.098	EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L				ND	ND	ND	EPA 624.1	2	0.18 - 0.34	0.50
Chlordane	ug/L				ND	ND	ND	EPA 608.3	0.1	0.02	0.50
Chlorobenzene	ug/L				ND	ND	ND	EPA 624.1	2	0.07 - 0.10	0.50
Chlorodibromomethane	ug/L				DNQ Est. Conc. 0.24	ND	DNQ Est. Conc. 0.49	EPA 624.1	2	0.11 - 0.13	0.50
Chloroethane	ug/L				ND	ND	ND	EPA 624.1	2	0.22 - 0.31	0.50
Chloroform	ug/L				3.6	4.2	4.8	EPA 624.1	2	0.08 - 0.35	0.50
Chromium VI	ug/L				DNQ Est. Conc. 0.02	0.04	0.08	EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total	ug/L				1.51	1.64	1.78	EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L				ND	ND	ND	EPA 625.1	10	0.41	20.0
Copper	ug/L	72.6			36.6	47.8	72.6	EPA 200.8	0.5	0.12 - 0.14	0.50
delta-BHC	ug/L				ND	ND	ND	EPA 608.3	0.005	0.003	0.05
Di-n-butyl phthalate	ug/L				ND	ND	ND	EPA 625.1	10	0.59	20.0
Di-n-octyl phthalate	ug/L				ND	ND	ND	EPA 625.1	10	0.69	20.0
Dibenzo(a,h)anthracene	ug/L				ND	ND	ND	EPA 625.1	10	0.58	20.0
Dieldrin	ug/L	ND			ND	ND	ND	EPA 608.3	0.01	0.003	0.10
Diethyl phthalate	ug/L				ND	ND	DNQ Est. Conc. 11.2	EPA 625.1	2	0.42	20.0
Dimethyl phthalate	ug/L				ND	ND	ND	EPA 625.1	2	0.41	20.0
Endosulfan I	ug/L				ND	ND	ND	EPA 608.3	0.02	0.003	0.10
Endosulfan II	ug/L				ND	ND	ND	EPA 608.3	0.01	0.004	0.10
Endosulfan sulfate	ug/L				ND	ND	ND	EPA 608.3	0.05	0.004	0.10
Endrin	ug/L				ND	ND	ND	EPA 608.3	0.01	0.004	0.10
Endrin aldehyde	ug/L				ND	ND	DNQ Est. Conc. 0.03	EPA 608.3	0.01	0.003	0.10
Ethylbenzene	ug/L				ND	ND	ND	EPA 624.1	2	0.11 - 0.15	0.50
Fluoranthene	ug/L				ND	ND	ND	EPA 625.1	1	0.69	20.0
Fluorene	ug/L				ND	ND	ND	EPA 625.1	10	0.58	20.0
gamma-BHC (Lindane)	ug/L				ND	ND	ND	EPA 608.3	0.02	0.003	0.10
Heptachlor	ug/L				ND	ND	ND	EPA 608.3	0.01	0.002	0.10
Heptachlor epoxide	ug/L				ND	ND	ND	EPA 608.3	0.01	0.003	0.10
Hexachlorobenzene	ug/L				ND	ND	ND	EPA 625.1	1	0.47	20.0
Hexachlorobutadiene	ug/L				ND	ND	ND	EPA 625.1	1	0.96	20.0
Hexachlorocyclopentadiene	ug/L				ND	ND	ND	EPA 625.1	5	2.0	100
Hexachloroethane	ug/L				ND	ND	ND	EPA 625.1	1	0.81	20.0
Indeno (1,2,3-cd) pyrene	ug/L				ND	ND	ND	EPA 625.1	10	0.53	20.0
Isophorone	ug/L				ND	ND	ND	EPA 625.1	1	0.28	20.0
Lead	ug/L	2.14			0.66	1.1	2.14	EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L				0.04	0.04	0.04	EPA 245.1	0.2	0.019	0.04
Methyl bromide (Bromomethane)	ug/L				ND	ND	ND	EPA 624.1	2	0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L				ND	ND	ND	EPA 624.1	2	0.19 - 0.41	0.50
Methylene chloride	ug/L				ND	ND	ND	EPA 624.1	2	0.16 - 0.46	0.50
n-Nitrosodi-n-propylamine	ug/L				ND	ND	ND	EPA 1625B (Modified)	5	0.00063	0.020
n-Nitrosodimethylamine (NDMA)	ug/L				DNQ Est. Conc. 0.0078	ND	DNQ Est. Conc. 0.013	EPA 1625B (Modified)	5	0.00052	0.020
n-Nitrosodiphenylamine	ug/L				ND	ND	ND	EPA 1625B (Modified)	1	0.00132 - 0.00566	0.10
Naphthalene	ug/L				ND	ND	ND	EPA 625.1	1	0.20	20.0
Nickel	ug/L				3.31	4.00	4.69	EPA 200.8	1	0.08 - 0.50	1.00
Nitrobenzene	ug/L				ND	ND	ND	EPA 625.1	1	0.31	20.0
PCB-018 (Co: 18,30)	pg/L				DNQ Est. Conc. 55	ND	DNQ Est. Conc. 55	EPA 1668		3.0	380
PCB-037	pg/L				DNQ Est. Conc. 41	ND	DNQ Est. Conc. 41	EPA 1668		6.2	190
PCB-044 (Co: 44,47,65)	pg/L				DNQ Est. Conc. 200(1)	ND	DNQ Est. Conc. 200(1)	EPA 1668		3.4	570
PCB-049 (Co: 49,69)	pg/L				DNQ Est. Conc. 69	ND	DNQ Est. Conc. 69	EPA 1668		3.0	380
PCB-052	pg/L				210(1)	210	210(1)	EPA 1668		3.4	190

Long Beach Water Reclamation Plant
2022 INF-001 and Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
PCB-066	pg/L							DNQ Est. Conc. 110		
PCB-070 and 074 (Co: 61,70,74,76)	pg/L							DNQ Est. Conc. 270(1)		
PCB-077	pg/L							DNQ Est. Conc. 15		
PCB-081	pg/L							ND		
PCB-087 and 119 (Co: 86,87,97,108,119,125)	pg/L							DNQ Est. Conc. 190		
PCB-099	pg/L							DNQ Est. Conc. 100		
PCB-101 (Co: 90/101/113)	pg/L							DNQ Est. Conc. 280		
PCB-105	pg/L							91		
PCB-110 (Co: 110/115)	pg/L							DNQ Est. Conc. 290		
PCB-114	pg/L							ND		
PCB-118	pg/L							220		
PCB-123	pg/L							ND		
PCB-126	pg/L							ND		
PCB-128 (Co: 128/166)	pg/L							DNQ Est. Conc. 34		
PCB-138 (Co: 129,138,163)	pg/L							DNQ Est. Conc. 260(1)		
PCB-149 (Co: 147,149)	pg/L							DNQ Est. Conc. 190		
PCB-151 (Co: 135,151)	pg/L							DNQ Est. Conc. 85		
PCB-153 and 168 (Co: 153,168)	pg/L							DNQ Est. Conc. 220(1)		
PCB-156 and 157 (Co: 156,157)	pg/L							DNQ Est. Conc. 37(1)		
PCB-158	pg/L							DNQ Est. Conc. 25		
PCB-167	pg/L							DNQ Est. Conc. 8.9(2)		
PCB-169	pg/L							ND		
PCB-170	pg/L							DNQ Est. Conc. 59		
PCB-177	pg/L							DNQ Est. Conc. 39		
PCB-180 (Co: 180,193)	pg/L							DNQ Est. Conc. 170(1)		
PCB-183	pg/L							DNQ Est. Conc. 48(1)		
PCB-187	pg/L							DNQ Est. Conc. 94		
PCB-189	pg/L							DNQ Est. Conc. 2.4(2)		
PCB-194	pg/L							DNQ Est. Conc. 28		
PCB-201	pg/L							DNQ Est. Conc. 8.3		
PCB-206	pg/L							DNQ Est. Conc. 28		
PCB-28 (Co: 20,28)	pg/L							DNQ Est. Conc. 120(1)		
Pentachlorophenol	ug/L	ND						ND		
pH	SU	7.5	7.3	7.4	7.4	7.2	7.2	7.4	7.3	7.3
Phenanthrene	ug/L	ND						ND		
Phenol	ug/L	44.3						49.6		
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L	ND						ND		
Polychlorinated Biphenyls (PCBs), Sum as Congeners	pg/L							521		
Pyrene	ug/L	ND						ND		
Selenium	ug/L	1.00			1.65			DNQ Est. Conc. 0.91		
Silver	ug/L	DNQ Est. Conc. 0.08						DNQ Est. Conc. 0.17		
Tetrachloroethene	ug/L	ND						ND		
Thallium	ug/L	ND						ND		
Toluene	ug/L	1.9						3.5		
Total cyanide	ug/L	ND						ND		
Total suspended solids	mg/L	508	576	350	377	382	321	330	297	329
Toxaphene	ug/L	ND						ND		
trans-1,2-Dichloroethene	ug/L	ND						ND		
Trichloroethene	ug/L	ND						ND		
Vinyl chloride	ug/L	ND						ND		
Zinc	ug/L	89.7			101			101		

Long Beach Water Reclamation Plant
2022 INF-001 and Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	Method	ML	MDL	RL
PCB-066	pg/L				DNQ Est. Conc. 110	ND	DNQ Est. Conc. 110	EPA 1668		2.0	190
PCB-070 and 074 (Co: 61,70,74,76)	pg/L				DNQ Est. Conc. 270(1)	ND	DNQ Est. Conc. 270(1)	EPA 1668		2.1	760
PCB-077	pg/L				DNQ Est. Conc. 15	ND	DNQ Est. Conc. 15	EPA 1668		2.5	19
PCB-081	pg/L				ND	ND	ND	EPA 1668		2.6	19
PCB-087 and 119 (Co: 86,87,97,108,119,125)	pg/L				DNQ Est. Conc. 190	ND	DNQ Est. Conc. 190	EPA 1668		4.5	1100
PCB-099	pg/L				DNQ Est. Conc. 100	ND	DNQ Est. Conc. 100	EPA 1668		4.2	190
PCB-101 (Co: 90/101/113)	pg/L				DNQ Est. Conc. 280	ND	DNQ Est. Conc. 280	EPA 1668		4.9	570
PCB-105	pg/L				91	91	91	EPA 1668		4.0	19
PCB-110 (Co: 110/115)	pg/L				DNQ Est. Conc. 290	ND	DNQ Est. Conc. 290	EPA 1668		3.9	380
PCB-114	pg/L				ND	ND	ND	EPA 1668		4.3	19
PCB-118	pg/L				220	220	220	EPA 1668		3.7	19
PCB-123	pg/L				ND	ND	ND	EPA 1668		4.1	19
PCB-126	pg/L				ND	ND	ND	EPA 1668		4.8	19
PCB-128 (Co: 128/166)	pg/L				DNQ Est. Conc. 34	ND	DNQ Est. Conc. 34	EPA 1668		2.3	380
PCB-138 (Co: 129,138,163)	pg/L				DNQ Est. Conc. 260(1)	ND	DNQ Est. Conc. 260(1)	EPA 1668		2.4	570
PCB-149 (Co: 147,149)	pg/L				DNQ Est. Conc. 190	ND	DNQ Est. Conc. 190	EPA 1668		2.4	380
PCB-151 (Co: 135,151)	pg/L				DNQ Est. Conc. 85	ND	DNQ Est. Conc. 85	EPA 1668		2.4	380
PCB-153 and 168 (Co: 153,168)	pg/L				DNQ Est. Conc. 220(1)	ND	DNQ Est. Conc. 220(1)	EPA 1668		1.9	380
PCB-156 and 157 (Co: 156,157)	pg/L				DNQ Est. Conc. 37(1)	ND	DNQ Est. Conc. 37(1)	EPA 1668		5.6	38
PCB-158	pg/L				DNQ Est. Conc. 25	ND	DNQ Est. Conc. 25	EPA 1668		1.8	190
PCB-167	pg/L				DNQ Est. Conc. 8.9(2)	ND	DNQ Est. Conc. 8.9(2)	EPA 1668		4.3	19
PCB-169	pg/L				ND	ND	ND	EPA 1668		5.2	19
PCB-170	pg/L				DNQ Est. Conc. 59	ND	DNQ Est. Conc. 59	EPA 1668		1.6	190
PCB-177	pg/L				DNQ Est. Conc. 39	ND	DNQ Est. Conc. 39	EPA 1668		1.4	190
PCB-180 (Co: 180,193)	pg/L				DNQ Est. Conc. 170(1)	ND	DNQ Est. Conc. 170(1)	EPA 1668		1.3	380
PCB-183	pg/L				DNQ Est. Conc. 48(1)	ND	DNQ Est. Conc. 48(1)	EPA 1668		1.2	190
PCB-187	pg/L				DNQ Est. Conc. 94	ND	DNQ Est. Conc. 94	EPA 1668		0.64	190
PCB-189	pg/L				DNQ Est. Conc. 2.4(2)	ND	DNQ Est. Conc. 2.4(2)	EPA 1668		0.89	19
PCB-194	pg/L				DNQ Est. Conc. 28	ND	DNQ Est. Conc. 28	EPA 1668		0.92	190
PCB-201	pg/L				DNQ Est. Conc. 8.3	ND	DNQ Est. Conc. 8.3	EPA 1668		0.44	190
PCB-206	pg/L				DNQ Est. Conc. 28	ND	DNQ Est. Conc. 28	EPA 1668		1.1	190
PCB-28 (Co: 20,28)	pg/L				DNQ Est. Conc. 120(1)	ND	DNQ Est. Conc. 120(1)	EPA 1668		5.4	380
Pentachlorophenol	ug/L				ND	ND	ND	EPA 625.1	5	0.82	20.0
pH	SU	7.4	7.4	7.4	7.2	7.4	7.5	SM 4500 H+ B			
Phenanthrene	ug/L				ND	ND	ND	EPA 625.1	5	0.59	20.0
Phenol	ug/L				44.3	47.0	49.6	EPA 625.1	1	0.24	20.0
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L				ND	ND	ND	Calculated			
Polychlorinated Biphenyls (PCBs), Sum as Congeners	pg/L				521	521	521	Calculated			
Pyrene	ug/L				ND	ND	ND	EPA 625.1	10	0.60	20.0
Selenium	ug/L	1.47			DNQ Est. Conc. 0.91	1.03	1.65	EPA 200.8	2	0.04	1.00
Silver	ug/L				DNQ Est. Conc. 0.08	ND	DNQ Est. Conc. 0.17	EPA 200.8	0.25	0.02	0.20
Tetrachloroethene	ug/L				ND	ND	ND	EPA 624.1	2	0.16 - 0.18	0.50
Thallium	ug/L				ND	ND	ND	EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L				1.9	2.7	3.5	EPA 624.1	2	0.04 - 0.15	0.50
Total cyanide	ug/L				ND	ND	ND	SM 4500 CN E	5	2.00	5.00
Total suspended solids	mg/L	307	353	356	297	374	576	SM 2540D			50.0 - 100
Toxaphene	ug/L				ND	ND	ND	EPA 608.3	0.5	0.05	5.0
trans-1,2-Dichloroethene	ug/L				ND	ND	ND	EPA 624.1	1	0.06 - 0.20	0.50
Trichloroethene	ug/L				ND	ND	ND	EPA 624.1	2	0.12 - 0.15	0.50
Vinyl chloride	ug/L				ND	ND	ND	EPA 624.1	2	0.25 - 0.37	0.50
Zinc	ug/L	172			89.7	116	172	EPA 200.8	1	0.92 - 0.95	1.00

(1) Blank contamination observed.

(2) Possible interference observed. The measured ion ratio did not meet qualitative criteria for analysis and results are considered to be an estimated maximum possible concentration.

Long Beach WRP Effluent Monitoring

Long Beach Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
1,1,1-Trichloroethane	ug/L	ND						ND		
1,1,2,2-Tetrachloroethane	ug/L	ND						ND		
1,1,2-Trichloroethane	ug/L	ND						ND		
1,1-Dichloroethane	ug/L	ND						ND		
1,1-Dichloroethene	ug/L	ND						ND		
1,2,3,4,6,7,8-HeptaCDD	pg/L	ND(1)						ND(1)		
1,2,3,4,6,7,8-HeptaCDF	pg/L	ND(1)						ND(1)		
1,2,3,4,7,8,9-HeptaCDF	pg/L	ND						ND(1)		
1,2,3,4,7,8-HexaCDD	pg/L	ND						ND(1)		
1,2,3,4,7,8-HexaCDF	pg/L	ND						DNQ Est. Conc. 4.2(1)		
1,2,3,6,7,8-HexaCDD	pg/L	ND						DNQ Est. Conc. 4.6		
1,2,3,6,7,8-HexaCDF	pg/L	ND						DNQ Est. Conc. 4.0(1)		
1,2,3,7,8,9-HexaCDD	pg/L	ND						DNQ Est. Conc. 4.7		
1,2,3,7,8,9-HexaCDF	pg/L	ND(1)						ND(1)		
1,2,3,7,8-PentaCDD	pg/L	ND						DNQ Est. Conc. 4.0		
1,2,3,7,8-PentaCDF	pg/L	ND						DNQ Est. Conc. 4.5		
1,2,3-Trichloropropane	ug/L	DNQ Est. Conc. 0.0035						DNQ Est. Conc. 0.0012		
1,2,4-Trichlorobenzene	ug/L	ND						ND		
1,2-Dichlorobenzene	ug/L	ND						ND		
1,2-Dichloroethane	ug/L	ND						ND		
1,2-Dichloropropane	ug/L	ND						ND		
1,2-Diphenylhydrazine	ug/L	ND						ND		
1,3-Dichlorobenzene	ug/L	ND						ND		
1,3-Dichloropropene (Total)	ug/L	ND						0.02		
1,4-Dichlorobenzene	ug/L	ND						ND		
1,4-Dioxane	ug/L	1.7						1.1		
2,3,4,6,7,8-HexaCDF	pg/L	ND						DNQ Est. Conc. 3.4		
2,3,4,7,8-PentaCDF	pg/L	ND						DNQ Est. Conc. 3.4		
2,3,7,8-TCDD	pg/L	ND						ND		
2,3,7,8-TetraCDF	pg/L	ND						ND		
2,4,6-Trichlorophenol	ug/L	ND						ND		
2,4-D	ug/L	ND						ND		
2,4-Dichlorophenol	ug/L	ND						ND		
2,4-Dimethylphenol	ug/L	ND						ND		
2,4-Dinitrophenol	ug/L	ND						ND		
2,4-Dinitrotoluene	ug/L	ND						ND		
2,6-Dinitrotoluene	ug/L	ND						ND		
2-Chloroethyl vinyl ether (mixed)	ug/L	ND						ND		
2-Chloronaphthalene	ug/L	ND						ND		
2-Chlorophenol	ug/L	ND						ND		
2-Methyl-4,6-dinitrophenol	ug/L	ND						ND		
2-Nitrophenol	ug/L	ND						ND		
3,3'-Dichlorobenzidine	ug/L	ND						ND		
3-Methyl-4-chlorophenol	ug/L	ND						ND		
4,4'-DDD	ug/L	ND						ND		
4,4'-DDE	ug/L	ND				ND	ND	ND	ND	ND
4,4'-DDT	ug/L	ND						ND		
4-Bromophenyl phenyl ether	ug/L	ND						ND		
4-Chlorophenyl phenyl ether	ug/L	ND						ND		
4-Nitrophenol	ug/L	ND						ND		
Acenaphthene	ug/L	ND						ND		
Acenaphthylene	ug/L	ND						ND		
Acrolein	ug/L	ND						DNQ Est. Conc. 1.8		
Acrylonitrile	ug/L	ND						ND		
Aldrin	ug/L	ND						ND		
alpha-BHC	ug/L	ND						ND		
Ammonia as nitrogen	mg/L	4.79	2.76	2.49	2.44	2.82	3.64	2.79	3.0	1.88
Anthracene	ug/L	ND						ND		
Antimony	ug/L	0.50			0.60			0.57		
Aroclor 1016	ug/L	ND						ND		
Aroclor 1221	ug/L	ND						ND		
Aroclor 1232	ug/L	ND						ND		
Aroclor 1242	ug/L	ND						ND		
Aroclor 1248	ug/L	ND						ND		
Aroclor 1254	ug/L	ND						ND		
Aroclor 1260	ug/L	ND						ND		
Arsenic	ug/L	DNQ Est. Conc. 0.94			1.16			2.15		
Barium	ug/L	42.0			53.8			42.9		
Benzene	ug/L	ND						ND		
Benzidine	ug/L	ND						ND		

Long Beach Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	Limit		Method	ML	MDL	RL
								Max Daily	Monthly Average				
1,1,1-Trichloroethane	ug/L				ND	ND	ND			EPA 624.1	2	0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L				ND	ND	ND			EPA 624.1	1	0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L				ND	ND	ND			EPA 624.1	2	0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L				ND	ND	ND			EPA 624.1	1	0.08 - 0.19	0.50
1,1-Dichloroethene	ug/L				ND	ND	ND			EPA 624.1	2	0.21	0.50
1,2,3,4,6,7,8-HeptaCDD	pg/L				ND(1)	ND	ND(1)			EPA 1613B		0.22 - 0.24	47 - 50
1,2,3,4,6,7,8-HeptaCDF	pg/L				ND(1)	ND	ND(1)			EPA 1613B		0.35 - 0.64	47 - 50
1,2,3,4,7,8,9-HeptaCDF	pg/L				ND(1)	ND	ND(1)			EPA 1613B		0.39 - 0.57	47 - 50
1,2,3,4,7,8-HexaCDD	pg/L				ND(1)	ND	ND(1)			EPA 1613B		0.29 - 0.7	47 - 50
1,2,3,4,7,8-HexaCDF	pg/L				ND(1)	ND	DNQ Est. Conc. 4.2(1)			EPA 1613B		0.26 - 0.35	47 - 50
1,2,3,6,7,8-HexaCDD	pg/L				ND	ND	DNQ Est. Conc. 4.6			EPA 1613B		0.32 - 0.87	47 - 50
1,2,3,6,7,8-HexaCDF	pg/L				ND(1)	ND	DNQ Est. Conc. 4.0(1)			EPA 1613B		0.27 - 0.39	47 - 50
1,2,3,7,8,9-HexaCDD	pg/L				ND	ND	DNQ Est. Conc. 4.7			EPA 1613B		0.29 - 0.75	47 - 50
1,2,3,7,8,9-HexaCDF	pg/L				ND(1)	ND	ND(1)			EPA 1613B		0.28 - 0.36	47 - 50
1,2,3,7,8-PentaCDD	pg/L				ND	ND	DNQ Est. Conc. 4.0			EPA 1613B		0.51 - 0.83	47 - 50
1,2,3,7,8-PentaCDF	pg/L				ND	ND	DNQ Est. Conc. 4.5			EPA 1613B		0.39 - 0.72	47 - 50
1,2,3-Trichloropropane	ug/L				DNQ Est. Conc. 0.0012	ND	DNQ Est. Conc. 0.0035			SRL-524M-TCP		0.0012	0.005
1,2,4-Trichlorobenzene	ug/L				ND	ND	ND			EPA 625.1	5	0.51	1.0
1,2-Dichlorobenzene	ug/L				ND	ND	ND			EPA 624.1	2	0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L				ND	ND	ND			EPA 624.1	2	0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L				ND	ND	ND			EPA 624.1	1	0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L				ND	ND	ND			EPA 625.1	1	0.63	1.0
1,3-Dichlorobenzene	ug/L				ND	ND	ND			EPA 624.1	2	0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L				ND	0.01	0.02			Calculated	2		
1,4-Dichlorobenzene	ug/L				ND	ND	ND			EPA 624.1	2	0.16 - 0.25	0.50
1,4-Dioxane	ug/L				1.1	1.4	1.7			SW-846/8270MOD 1,4-Dioxane		0.26	0.40
2,3,4,6,7,8-HexaCDF	pg/L				ND	ND	DNQ Est. Conc. 3.4			EPA 1613B		0.26 - 0.35	47 - 50
2,3,4,7,8-PentaCDF	pg/L				ND	ND	DNQ Est. Conc. 3.4			EPA 1613B		0.43 - 0.73	47 - 50
2,3,7,8-TCDD	pg/L				ND	ND	ND			EPA 1613B		0.63 - 1.1	9.4 - 10
2,3,7,8-TetraCDF	pg/L				ND	ND	ND			EPA 1613B		0.28 - 0.6	9.4 - 10
2,4,6-Trichlorophenol	ug/L				ND	ND	ND			EPA 625.1	10	0.64	1.0
2,4-D	ug/L				ND	ND	ND			EPA 515.4		0.14 - 0.70	0.40 -2.0
2,4-Dichlorophenol	ug/L				ND	ND	ND			EPA 625.1	5	0.60	1.0
2,4-Dimethylphenol	ug/L				ND	ND	ND			EPA 625.1	2	0.44	1.0
2,4-Dinitrophenol	ug/L				ND	ND	ND			EPA 625.1	5	1.5	5.0
2,4-Dinitrotoluene	ug/L				ND	ND	ND			EPA 625.1	5	0.37	1.0
2,6-Dinitrotoluene	ug/L				ND	ND	ND			EPA 625.1	5	0.50	1.0
2-Chloroethyl vinyl ether (mixed)	ug/L				ND	ND	ND			EPA 624.1	1	0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L				ND	ND	ND			EPA 625.1	10	0.41	1.0
2-Chlorophenol	ug/L				ND	ND	ND			EPA 625.1	5	0.41	1.0
2-Methyl-4,6-dinitrophenol	ug/L				ND	ND	ND			EPA 625.1	5	1.3	5.0
2-Nitrophenol	ug/L				ND	ND	ND			EPA 625.1	10	0.31	1.0
3,3'-Dichlorobenzidine	ug/L				ND	ND	ND			EPA 625.1	5	0.54	1.0
3-Methyl-4-chlorophenol	ug/L				ND	ND	ND			EPA 625.1	1	0.69	1.0
4,4'-DDD	ug/L				ND	ND	ND			EPA 608.3	0.05	0.003	0.01
4,4'-DDE	ug/L		ND	ND	ND	ND	ND			EPA 608.3	0.05	0.002	0.01
4,4'-DDT	ug/L				ND	ND	ND			EPA 608.3	0.01	0.004	0.01
4-Bromophenyl phenyl ether	ug/L				ND	ND	ND			EPA 625.1	5	0.58	1.0
4-Chlorophenyl phenyl ether	ug/L				ND	ND	ND			EPA 625.1	5	0.63	1.0
4-Nitrophenol	ug/L				ND	ND	ND			EPA 625.1	10	1.6	5.0
Acenaphthene	ug/L				ND	ND	ND			EPA 625.1	1	0.50	1.0
Acenaphthylene	ug/L				ND	ND	ND			EPA 625.1	10	0.50	1.0
Acrolein	ug/L				ND	ND	DNQ Est. Conc. 1.8			EPA 624.1	5	0.64 - 0.88	2.0
Acrylonitrile	ug/L				ND	ND	ND			EPA 624.1	2	0.31 - 0.64	2.0
Aldrin	ug/L				ND	ND	ND			EPA 608.3	0.005	0.002	0.005
alpha-BHC	ug/L				ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Ammonia as nitrogen	mg/L	2.05	1.45	1.81	1.45	2.66	4.79	7.9(8) 11(7)	4.1(8) 4.4(7)	SM 4500 NH3 H		0.020 - 0.030	0.100
Anthracene	ug/L				ND	ND	ND			EPA 625.1	10	0.56	1.0
Antimony	ug/L	0.66			0.50	0.58	0.66			EPA 200.8	0.5	0.12	0.50
Aroclor 1016	ug/L				ND	ND	ND			EPA 608.3	0.5	0.1	0.5
Aroclor 1221	ug/L				ND	ND	ND			EPA 608.3	0.5	0.1	0.5
Aroclor 1232	ug/L				ND	ND	ND			EPA 608.3	0.5	0.1	0.5
Aroclor 1242	ug/L				ND	ND	ND			EPA 608.3	0.5	0.1	0.5
Aroclor 1248	ug/L				ND	ND	ND			EPA 608.3	0.5	0.1	0.5
Aroclor 1254	ug/L				ND	ND	ND			EPA 608.3	0.5	0.1	0.5
Aroclor 1260	ug/L				ND	ND	ND			EPA 608.3	0.5	0.1	0.5
Arsenic	ug/L	3.27			DNQ Est. Conc. 0.94	1.64	3.27			EPA 200.8	2	0.05 - 0.07	1.00
Barium	ug/L	41.1			41.1	44.9	53.8			EPA 200.8		0.07 - 0.10	0.50
Benzene	ug/L				ND	ND	ND			EPA 624.1	2	0.06 - 0.09	0.50
Benzidine	ug/L				ND	ND	ND			EPA 625.1	5	0.77	5.0

Long Beach Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
Benzo(a)anthracene	ug/L	ND						ND		
Benzo(a)pyrene	ug/L	ND	ND	ND				ND		
Benzo(b)fluoranthene	ug/L	ND	ND	ND				ND		
Benzo(g,h,i)perylene	ug/L	ND						ND		
Benzo(k)fluoranthene	ug/L	ND	ND	ND				ND		
Beryllium	ug/L	ND			ND			ND		
beta-BHC	ug/L	ND						ND		
bis(2-Chloroethoxy) methane	ug/L	ND						ND		
bis(2-Chloroethyl) ether	ug/L	ND						ND		
bis(2-Chloroisopropyl) ether	ug/L	ND						ND		
bis(2-Ethylhexyl) phthalate	ug/L	ND						ND		
BOD5 20°C	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	mg/L	0.39	0.38	0.39	0.36	0.34	0.39	0.36	0.34	0.39
Bromodichloromethane	ug/L	9.2						1.7		
Bromoform	ug/L	0.57						ND		
Butyl benzyl phthalate	ug/L	ND						ND		
Cadmium	ug/L	ND			ND			ND		
Carbon tetrachloride	ug/L	ND						ND		
Chlordane	ug/L	ND						ND		
Chloride	mg/L	169	188	187	194	181	156	176	163	157
Chlorobenzene	ug/L	ND						ND		
Chlorodibromomethane	ug/L	3.5						DNQ Est. Conc. 0.23		
Chloroethane	ug/L	ND						ND		
Chloroform	ug/L	11.7						9.5		
Chromium III	ug/L	ND			ND			ND		
Chromium VI	ug/L	DNQ Est. Conc. 0.04			DNQ Est. Conc. 0.04			0.08		
Chromium, total (24-hr composite)	ug/L	ND			ND			ND		
Chromium, total (Grab)	ug/L	DNQ Est. Conc. 0.32			DNQ Est. Conc. 0.34		DNQ Est. Conc. 0.38	DNQ Est. Conc. 0.42		
Chrysene	ug/L	ND	ND	ND				ND		
Copper	ug/L	0.86	1.01	0.88	1.06	1.15	1.37	0.97	1.69	1.41
delta-BHC	ug/L	ND						ND		
Di-n-butyl phthalate	ug/L	ND						ND		
Di-n-octyl phthalate	ug/L	ND						ND		
Diazinon	ug/L	ND						ND		
Dibenzo(a,h)anthracene	ug/L	ND	ND	ND				ND		
Dieldrin	ug/L	ND			ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/L	ND						ND		
Dimethyl phthalate	ug/L	ND						ND		
Dissolved oxygen	mg/L	5.7	6.0	5.9	5.6	6.6	5.3	5.5	6.9	7.0
E. coli	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ug/L	ND						ND		
Endosulfan II	ug/L	ND						ND		
Endosulfan sulfate	ug/L	ND						ND		
Endrin	ug/L	ND						ND		
Endrin aldehyde	ug/L	ND						ND		
Ethylbenzene	ug/L	ND						ND		
Fecal coliform	No./100mL	ND	ND	ND	ND					
Fluoranthene	ug/L	ND						ND		
Fluorene	ug/L	ND						ND		
Fluoride	mg/L	0.581			0.571			0.505		
gamma-BHC (Lindane)	ug/L	ND						ND		
Gross alpha radioactivity	pCi/L	2.34			0.389			-1.09		
Gross beta radioactivity	pCi/L	13.3			14.3			12.8		
Heptachlor	ug/L	ND						ND		
Heptachlor epoxide	ug/L	ND						ND		
Hexachlorobenzene	ug/L	ND						ND		
Hexachlorobutadiene	ug/L	ND						ND		
Hexachlorocyclopentadiene	ug/L	ND						ND		
Hexachloroethane	ug/L	ND						ND		
Indeno (1,2,3-cd) pyrene	ug/L	ND	ND	ND				ND		
Iron	ug/L						90.1	108		
Isophorone	ug/L	ND						ND		
Lead	ug/L	DNQ Est. Conc. 0.05	DNQ Est. Conc. 0.05	DNQ Est. Conc. 0.04	DNQ Est. Conc. 0.04	DNQ Est. Conc. 0.04	DNQ Est. Conc. 0.07	DNQ Est. Conc. 0.04	DNQ Est. Conc. 0.03	DNQ Est. Conc. 0.04
Malathion	ug/L						ND	ND		
Mercury	ug/L	0.0044			0.0079			0.027		
Methoxychlor	ug/L	ND						ND		
Methyl bromide (Bromomethane)	ug/L	ND						ND		
Methyl chloride (Chloromethane)	ug/L	ND						ND		
Methyl tert-butyl ether (MTBE)	ug/L	ND						ND		
Methylene chloride	ug/L	ND						ND		

Long Beach Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	Limit		Method	ML	MDL	RL
								Max Daily	Monthly Average				
Benzo(a)anthracene	ug/L				ND	ND	ND			EPA 625.1	5	0.46	1.0
Benzo(a)pyrene	ug/L				ND	ND	ND	0.098(9)	0.049(9)	EPA 610		0.013	0.020
Benzo(b)fluoranthene	ug/L				ND	ND	ND	0.098(9)	0.049(9)	EPA 610		0.015	0.020
Benzo(g,h,i)perylene	ug/L				ND	ND	ND			EPA 625.1	5	0.52	1.0
Benzo(k)fluoranthene	ug/L				ND	ND	ND	0.098(9)	0.049(9)	EPA 610		0.014	0.020
Beryllium	ug/L	ND			ND	ND	ND			EPA 200.8	0.5	0.023 - 0.026	0.25
beta-BHC	ug/L				ND	ND	ND			EPA 608.3	0.005	0.003	0.005
bis(2-Chloroethoxy) methane	ug/L				ND	ND	ND			EPA 625.1	5	0.28	1.0
bis(2-Chloroethyl) ether	ug/L				ND	ND	ND			EPA 625.1	1	0.27	1.0
bis(2-Chloroisopropyl) ether	ug/L				ND	ND	ND			EPA 625.1	2	0.25	1.0
bis(2-Ethylhexyl) phthalate	ug/L				ND	ND	ND			EPA 625.1	5	0.55	1.0
BOD5 20°C	mg/L	ND	ND	ND	ND	ND	ND	45	20	SM 5210B			3
Boron	mg/L	0.45	0.45	0.40	0.34	0.39	0.45			EPA 200.8		0.008 - 0.013	0.020
Bromodichloromethane	ug/L				1.7	5.5	9.2			EPA 624.1	2	0.11 - 0.15	0.50
Bromoform	ug/L				ND	0.28	0.57			EPA 624.1	2	0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L				ND	ND	ND			EPA 625.1	10	0.58	1.0
Cadmium	ug/L	ND			ND	ND	ND			EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L				ND	ND	ND			EPA 624.1	2	0.18 - 0.34	0.50
Chlordane	ug/L				ND	ND	ND			EPA 608.3	0.1	0.02	0.05
Chloride	mg/L	146	155	158	146	169	194			EPA 300.0		0.024 - 0.144	10.0
Chlorobenzene	ug/L				ND	ND	ND			EPA 624.1	2	0.07 - 0.10	0.50
Chlorodibromomethane	ug/L				DNQ Est. Conc. 0.23	1.8	3.5			EPA 624.1	2	0.11 - 0.13	0.50
Chloroethane	ug/L				ND	ND	ND			EPA 624.1	2	0.22 - 0.31	0.50
Chloroform	ug/L				9.5	10.6	11.7			EPA 624.1	2	0.08 - 0.35	0.50
Chromium III	ug/L	ND			ND	ND	ND			Calculated			
Chromium VI	ug/L	0.06			DNQ Est. Conc. 0.04	0.04	0.08			EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total (24-hr composite)	ug/L	DNQ Est. Conc. 0.28			ND	ND	DNQ Est. Conc. 0.28			EPA 200.8	0.5	0.27 - 0.28	0.50
Chromium, total (Grab)	ug/L	DNQ Est. Conc. 0.42			DNQ Est. Conc. 0.32	ND	DNQ Est. Conc. 0.42			EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L				ND	ND	ND	0.098(9)	0.049(9)	EPA 610		0.014	0.020
Copper	ug/L	1.57	1.12	1.19	0.86	1.2	1.69	20(3)(8) 27(4)(8) 4.2(3)(7) 14.7(4)(7)	18(3)(8) 2.8(3)(7)	EPA 200.8	0.5	0.12 - 0.14	0.50
delta-BHC	ug/L				ND	ND	ND			EPA 608.3	0.005	0.003	0.005
Di-n-butyl phthalate	ug/L				ND	ND	ND			EPA 625.1	10	0.59	1.0
Di-n-octyl phthalate	ug/L				ND	ND	ND			EPA 625.1	10	0.69	1.0
Diazinon	ug/L				ND	ND	ND			SW-846 8141A		0.0035	0.020
Dibenzo(a,h)anthracene	ug/L				ND	ND	ND	0.098(9)	0.049(9)	EPA 610		0.014	0.020
Dieldrin	ug/L	ND	ND	DNQ Est. Conc. 0.002	ND	ND	DNQ Est. Conc. 0.002	0.00028(7)	0.00014(7)	EPA 608.3	0.01	0.002 - 0.003	0.01
Diethyl phthalate	ug/L				ND	ND	ND			EPA 625.1	2	0.42	1.0
Dimethyl phthalate	ug/L				ND	ND	ND			EPA 625.1	2	0.41	1.0
Dissolved oxygen	mg/L	7.0	6.4	6.8	5.3	6.2	7.0			HACH 10360 LDO			0.2
E. coli	No./100mL	ND	ND	ND	ND	ND	ND			SM 9223 Quanti-Tray			1
Endosulfan I	ug/L				ND	ND	ND			EPA 608.3	0.02	0.003	0.01
Endosulfan II	ug/L				ND	ND	ND			EPA 608.3	0.01	0.004	0.01
Endosulfan sulfate	ug/L				ND	ND	ND			EPA 608.3	0.05	0.004	0.01
Endrin	ug/L				ND	ND	ND			EPA 608.3	0.01	0.004	0.01
Endrin aldehyde	ug/L				ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Ethylbenzene	ug/L				ND	ND	ND			EPA 624.1	2	0.11 - 0.15	0.50
Fecal coliform	No./100mL				ND	ND	ND			SM 9222D			1
Fluoranthene	ug/L				ND	ND	ND			EPA 625.1	1	0.69	1.0
Fluorene	ug/L				ND	ND	ND			EPA 625.1	10	0.58	1.0
Fluoride	mg/L	0.656			0.505	0.578	0.656			SM 4500 F C		0.040	0.100
gamma-BHC (Lindane)	ug/L				ND	ND	ND			EPA 608.3	0.02	0.003	0.01
Gross alpha radioactivity	pCi/L	2.47			-1.09	1.30	2.47		15	EPA 900.0		3.61 - 5.76	3.00
Gross beta radioactivity	pCi/L	10.2			10.2	12.7	14.3			EPA 900.0		1 - 1.57	4.00
Heptachlor	ug/L				ND	ND	ND			EPA 608.3	0.01	0.002	0.01
Heptachlor epoxide	ug/L				ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Hexachlorobenzene	ug/L				ND	ND	ND			EPA 625.1	1	0.47	1.0
Hexachlorobutadiene	ug/L				ND	ND	ND			EPA 625.1	1	0.96	1.0
Hexachlorocyclopentadiene	ug/L				ND	ND	ND			EPA 625.1	5	2.0	5.0
Hexachloroethane	ug/L				ND	ND	ND			EPA 625.1	1	0.81	1.0
Indeno (1,2,3-cd) pyrene	ug/L				ND	ND	ND	0.098(9)	0.049(9)	EPA 610		0.013	0.020
Iron	ug/L	82.5			82.5	93.5	108			EPA 200.8		5.7	20.0
Isophorone	ug/L				ND	ND	ND			EPA 625.1	1	0.28	1.0
Lead	ug/L	DNQ Est. Conc. 0.04	DNQ Est. Conc. 0.05	DNQ Est. Conc. 0.05	DNQ Est. Conc. 0.03	ND	DNQ Est. Conc. 0.07	106(4)(8) 87(4)(7)		EPA 200.8	0.5	0.01 - 0.02	0.25
Malathion	ug/L	ND			ND	ND	ND			EPA 625.1		0.0021	0.01
Mercury	ug/L	0.0031			0.0031	0.01	0.027			EPA 1631E		0.00010	0.00050
Methoxychlor	ug/L				ND	ND	ND			EPA 608.3		0.004	0.01
Methyl bromide (Bromomethane)	ug/L				ND	ND	ND			EPA 624.1	2	0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L				ND	ND	ND			EPA 624.1	2	0.19 - 0.41	0.50
Methyl tert-butyl ether (MTBE)	ug/L				ND	ND	ND			EPA 624.1		0.08 - 0.40	0.50
Methylene chloride	ug/L				ND	ND	ND			EPA 624.1	2	0.16 - 0.46	0.50

Long Beach Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
n-Nitrosodi-n-propylamine	ug/L	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 0.0060	ND	ND
n-Nitrosodimethylamine (NDMA)	ug/L	0.012	0.017	0.017	0.017	0.024	0.039	0.05	0.039	0.056
n-Nitrosodiphenylamine	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	ND						ND		
Nickel	ug/L	2.12			2.00			1.19		
Nitrate + nitrite as nitrogen	mg/L	7.96	7.09	8.26	7.69	8.14	7.03	5.31	5.82	5.33
Nitrate as nitrogen	mg/L	7.15	6.40	7.49	7.21	7.50	6.33	4.86	5.35	5.23
Nitrite as nitrogen	mg/L	0.800	0.685	0.770	0.476	0.643	0.703	0.447	0.471	0.097
Nitrobenzene	ug/L	ND						ND		
OctaCDD	pg/L	ND(1)						ND(1)		
OctaCDF	pg/L	ND(1)						ND(1)		
Oil and grease	mg/L	DNQ Est. Conc. 1.1	ND	DNQ Est. Conc. 2.1	ND	ND	ND	ND	ND	ND
Organic nitrogen	mg/L	1.42	1.54	0.585	0.360	1.04	1.41	0.885	0.675	0.620
PCB-018 (Co: 18,30)	pg/L							DNQ Est. Conc. 6.2(1)		
PCB-037	pg/L							DNQ Est. Conc. 3.0		
PCB-044 (Co: 44,47,65)	pg/L							ND(1)		
PCB-049 (Co: 49,69)	pg/L							ND(1)		
PCB-052	pg/L							DNQ Est. Conc. 14(1)		
PCB-066	pg/L							DNQ Est. Conc. 4.1(2)		
PCB-070 and 074 (Co: 61,70,74,76)	pg/L							ND(1)		
PCB-077	pg/L							ND		
PCB-081	pg/L							ND		
PCB-087 and 119 (Co: 86,87,97,108,119,125)	pg/L							DNQ Est. Conc. 6.3		
PCB-099	pg/L							DNQ Est. Conc. 2.9		
PCB-101 (Co: 90/101/113)	pg/L							ND(1)		
PCB-105	pg/L							ND(1)		
PCB-110 (Co: 110/115)	pg/L							ND(1)		
PCB-114	pg/L							ND		
PCB-118	pg/L							ND(1)		
PCB-123	pg/L							ND		
PCB-126	pg/L							ND		
PCB-128 (Co: 128/166)	pg/L							DNQ Est. Conc. 0.75(2)		
PCB-138 (Co: 129,138,163)	pg/L							ND(1)		
PCB-149 (Co: 147,149)	pg/L							ND(1)		
PCB-151 (Co: 135,151)	pg/L							DNQ Est. Conc. 1.6		
PCB-153 and 168 (Co: 153,168)	pg/L							ND(1)		
PCB-156 and 157 (Co: 156,157)	pg/L							DNQ Est. Conc. 0.86		
PCB-158	pg/L							DNQ Est. Conc. 0.65		
PCB-167	pg/L							ND		
PCB-169	pg/L							ND		
PCB-170	pg/L							DNQ Est. Conc. 0.70(2)		
PCB-177	pg/L							DNQ Est. Conc. 0.52		
PCB-180 (Co: 180,193)	pg/L							DNQ Est. Conc. 2.6		
PCB-183	pg/L							DNQ Est. Conc. 1.8		
PCB-187	pg/L							DNQ Est. Conc. 0.89		
PCB-189	pg/L							ND		
PCB-194	pg/L							ND(1)		
PCB-201	pg/L							ND		
PCB-206	pg/L							ND(1)		
PCB-28 (Co: 20,28)	pg/L							ND(1)		
Pentachlorophenol	ug/L	ND						ND		
Perchlorate	ug/L	ND						1.0		
pH	SU	7.4	7.3	7.3	7.3	7.3	7.1	7.3	7.4	7.5
Phenanthrene	ug/L	ND						ND		
Phenol	ug/L	ND						ND		
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L	ND						ND		
Polychlorinated Biphenyls (PCBs), Sum as Congeners	ug/L							ND		
Pyrene	ug/L	ND						ND		
Radium-226 + radium-228	pCi/L	0.606			0.295			0.169		
Selenium	ug/L	DNQ Est. Conc. 0.24	DNQ Est. Conc. 0.25	DNQ Est. Conc. 0.37	DNQ Est. Conc. 0.44	DNQ Est. Conc. 0.26	DNQ Est. Conc. 0.22	DNQ Est. Conc. 0.22	DNQ Est. Conc. 0.21	DNQ Est. Conc. 0.23
Settleable solids	mL/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ug/L	ND			ND			ND		
Strontium-90	pCi/L	-0.276			0.0715			-0.239		
Sulfate	mg/L	98.4	112	121	165	109	92.6	107	98.2	88.7
Surfactant (CTAS)	mg/L	0.10	ND	ND	ND			ND		
Surfactant (MBAS)	mg/L	DNQ Est. Conc. 0.06	DNQ Est. Conc. 0.07		DNQ Est. Conc. 0.06		DNQ Est. Conc. 0.05	DNQ Est. Conc. 0.06		
Tetrachloroethene	ug/L	ND						ND		
Thallium	ug/L	ND			ND			ND		
Temperature	Degrees F	73	72.7	74.5	77	78.7	80.6	83.4	84.7	84.9
Toluene	ug/L	1.9						DNQ Est. Conc. 0.07		

Long Beach Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	Limit		Method	ML	MDL	RL
								Max Daily	Monthly Average				
n-Nitrosodi-n-propylamine	ug/L	ND	ND	ND	ND	ND	DNQ Est. Conc. 0.0060			EPA 1625B (Modified)	5	0.00063 - 0.00138	0.010
n-Nitrosodimethylamine (NDMA)	ug/L	0.046	0.040	0.036	0.012	0.033	0.056			EPA 1625B (Modified)	5	0.00052	0.010
n-Nitrosodiphenylamine	ug/L	ND	ND	ND	ND	ND	ND			EPA 1625B (Modified)	1	0.00132 - 0.00566	0.050
Naphthalene	ug/L				ND	ND	ND			EPA 625.1	1	0.20	1.0
Nickel	ug/L	1.15			1.15	1.61	2.12			EPA 200.8	1	0.08 - 0.50	1.00
Nitrate + nitrite as nitrogen	mg/L	5.88	6.55	7.07	5.31	6.84	8.26		8	SM 4500 NO3 F		0.097 - 0.108	0.230
Nitrate as nitrogen	mg/L	5.64	6.39	6.99	4.86	6.38	7.50			Calculated			
Nitrite as nitrogen	mg/L	0.237	0.160	0.085	0.085	0.460	0.846		1	SM 4500 NO3 F		0.012	0.030
Nitrobenzene	ug/L				ND	ND	ND			EPA 625.1	1	0.31	1.0
OctaCDD	pg/L				ND(1)	ND	ND(1)			EPA 1613B		0.43 - 0.83	94 - 100
OctaCDF	pg/L				ND(1)	ND	ND(1)			EPA 1613B		0.6 - 0.68	94 - 100
Oil and grease	mg/L	ND	DNQ Est. Conc. 2.4	ND	ND	ND	DNQ Est. Conc. 2.4	15	10	EPA 1664A		1.0 - 2.1	5.3 - 6.1
Organic nitrogen	mg/L	0.165	1.15	0.230	0.165	0.84	1.54			Calculated			
PCB-018 (Co: 18,30)	pg/L				DNQ Est. Conc. 6.2(1)	ND	DNQ Est. Conc. 6.2(1)			EPA 1668		0.53	380
PCB-037	pg/L				DNQ Est. Conc. 3.0	ND	DNQ Est. Conc. 3.0			EPA 1668		0.88	190
PCB-044 (Co: 44,47,65)	pg/L				ND(1)	ND	ND(1)			EPA 1668		0.66	560
PCB-049 (Co: 49,69)	pg/L				ND(1)	ND	ND(1)			EPA 1668		0.58	380
PCB-052	pg/L				DNQ Est. Conc. 14(1)	ND	DNQ Est. Conc. 14(1)			EPA 1668		0.66	190
PCB-066	pg/L				DNQ Est. Conc. 4.1(2)	ND	DNQ Est. Conc. 4.1(2)			EPA 1668		2.4	190
PCB-070 and 074 (Co: 61,70,74,76)	pg/L				ND(1)	ND	ND(1)			EPA 1668		2.5	750
PCB-077	pg/L				ND	ND	ND			EPA 1668		2.8	19
PCB-081	pg/L				ND	ND	ND			EPA 1668		3.0	19
PCB-087 and 119 (Co: 86,87,97,108,119,125)	pg/L				DNQ Est. Conc. 6.3	ND	DNQ Est. Conc. 6.3			EPA 1668		0.86	1100
PCB-099	pg/L				DNQ Est. Conc. 2.9	ND	DNQ Est. Conc. 2.9			EPA 1668		0.81	190
PCB-101 (Co: 90/101/113)	pg/L				ND(1)	ND	ND(1)			EPA 1668		0.93	560
PCB-105	pg/L				ND(1)	ND	ND(1)			EPA 1668		0.75	19
PCB-110 (Co: 110/115)	pg/L				ND(1)	ND	ND(1)			EPA 1668		0.75	380
PCB-114	pg/L				ND	ND	ND			EPA 1668		0.80	19
PCB-118	pg/L				ND(1)	ND	ND(1)			EPA 1668		0.74	19
PCB-123	pg/L				ND	ND	ND			EPA 1668		0.79	19
PCB-126	pg/L				ND	ND	ND			EPA 1668		0.81	19
PCB-128 (Co: 128/166)	pg/L				DNQ Est. Conc. 0.75(2)	ND	DNQ Est. Conc. 0.75(2)			EPA 1668		0.24	380
PCB-138 (Co: 129,138,163)	pg/L				ND(1)	ND	ND(1)			EPA 1668		0.25	560
PCB-149 (Co: 147,149)	pg/L				ND(1)	ND	ND(1)			EPA 1668		0.25	380
PCB-151 (Co: 135,151)	pg/L				DNQ Est. Conc. 1.6	ND	DNQ Est. Conc. 1.6			EPA 1668		0.25	380
PCB-153 and 168 (Co: 153,168)	pg/L				ND(1)	ND	ND(1)			EPA 1668		0.20	380
PCB-156 and 157 (Co: 156,157)	pg/L				DNQ Est. Conc. 0.86	ND	DNQ Est. Conc. 0.86			EPA 1668		0.39	38
PCB-158	pg/L				DNQ Est. Conc. 0.65	ND	DNQ Est. Conc. 0.65			EPA 1668		0.19	190
PCB-167	pg/L				ND	ND	ND			EPA 1668		0.31	19
PCB-169	pg/L				ND	ND	ND			EPA 1668		0.33	19
PCB-170	pg/L				DNQ Est. Conc. 0.70(2)	ND	DNQ Est. Conc. 0.70(2)			EPA 1668		0.26	190
PCB-177	pg/L				DNQ Est. Conc. 0.52	ND	DNQ Est. Conc. 0.52			EPA 1668		0.23	190
PCB-180 (Co: 180,193)	pg/L				DNQ Est. Conc. 2.6	ND	DNQ Est. Conc. 2.6			EPA 1668		0.20	380
PCB-183	pg/L				DNQ Est. Conc. 1.8	ND	DNQ Est. Conc. 1.8			EPA 1668		0.19	190
PCB-187	pg/L				DNQ Est. Conc. 0.89	ND	DNQ Est. Conc. 0.89			EPA 1668		0.19	190
PCB-189	pg/L				ND	ND	ND			EPA 1668		0.17	19
PCB-194	pg/L				ND(1)	ND	ND(1)			EPA 1668		0.15	190
PCB-201	pg/L				ND	ND	ND			EPA 1668		0.12	190
PCB-206	pg/L				ND(1)	ND	ND(1)			EPA 1668		0.31	190
PCB-28 (Co: 20,28)	pg/L				ND(1)	ND	ND(1)			EPA 1668		0.83	380
Pentachlorophenol	ug/L				ND	ND	ND			EPA 625.1	5	0.82	1.0
Perchlorate	ug/L				ND	0.050	1.0			EPA 331.0		0.086 - 0.201	0.50
pH	SU	7.5	7.5	7.6	7.1	7.4	7.6			SM 4500 H+ B			
Phenanthrene	ug/L				ND	ND	ND			EPA 625.1	5	0.59	1.0
Phenol	ug/L				ND	ND	ND			EPA 625.1	1	0.24	1.0
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L				ND	ND	ND			Calculated			
Polychlorinated Biphenyls (PCBs), Sum as Congeners	ug/L				ND	ND	ND			Calculated			
Pyrene	ug/L				ND	ND	ND			EPA 625.1	10	0.60	1.0
Radium-226 + radium-228	pCi/L	1.03			0.169	0.525	1.03			Calculated			
Selenium	ug/L	DNQ Est. Conc. 0.20	DNQ Est. Conc. 0.21	DNQ Est. Conc. 0.26	DNQ Est. Conc. 0.20	ND	DNQ Est. Conc. 0.44	7.5(8) 7.4(7)	4.3	EPA 200.8	2	0.04	1.00
Settleable solids	mL/L	ND	ND	ND	ND	ND	ND	0.3	0.1	SM 2540F			0.1
Silver	ug/L	ND			ND	ND	ND			EPA 200.8	0.25	0.02	0.20
Strontium-90	pCi/L	0.193			-0.276	0.0661	0.193		8	EPA 905.0		.296 - .713	3.00
Sulfate	mg/L	87.6	112	90.5	87.6	107	165			EPA 300.0		0.040 - 0.161	2.50
Surfactant (CTAS)	mg/L	ND			ND	0.017	0.10			SM 5540D		0.08	0.10
Surfactant (MBAS)	mg/L	DNQ Est. Conc. 0.05			DNQ Est. Conc. 0.05	ND	DNQ Est. Conc. 0.07			SM 5540C		0.03	0.10
Tetrachloroethene	ug/L				ND	ND	ND			EPA 624.1	2	0.16 - 0.18	0.50
Thallium	ug/L	ND			ND	ND	ND			EPA 200.8	1	0.019 - 0.024	0.25
Temperature	Degrees F	81.9	78	75.1	72.7	79	84.9		86(5)	EPA 170.1 (oF)			
Toluene	ug/L				DNQ Est. Conc. 0.07	0.95	1.9			EPA 624.1	2	0.04 - 0.15	0.50

Long Beach Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
Total chlorinated hydrocarbons (TICH)	ug/L	ND			ND			ND		
Total coliform	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total cyanide	ug/L	DNQ Est. Conc. 2.90			DNQ Est. Conc. 3.57			ND		
Total dissolved solids	mg/L	700	728	800	860	704	649	703	663	657
Total hardness (CaCO3)	mg/L	198	201	224	278	209	195	183	195	176
Total Kjeldahl Nitrogen (TKN)	mg/L	8.50	6.20	3.08	2.80	3.86	5.05	3.68	3.68	2.50
Total nitrogen	mg/L	14.4	13.3	11.8	10.5	12.0	12.1	8.98	9.50	7.83
Total phosphorus	mg/L	0.183	0.091	0.094	0.156	0.132	0.148	0.466	0.708	0.206
Total residual chlorine	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total suspended solids	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ug/L	ND						ND		
Toxic equivalence	pg/L	ND						ND		
trans-1,2-Dichloroethene	ug/L	ND						ND		
Trichloroethene	ug/L	ND						ND		
Tritium	pCi/L	121			-9.46			48.2		
Turbidity (flow proportioned avg daily value)	NTU	0.72	0.84	0.80	0.67	0.61	0.55	0.36	0.41	0.70
Uranium	pCi/L	1.02			1.27			1.22		
Vinyl chloride	ug/L	ND						ND		
Zinc	ug/L	22.8	25.0	20.2	21.4	21.3	25.8	25.7	23.1	28.0

Long Beach Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	Limit		Method	ML	MDL	RL
								Max Daily	Monthly Average				
Total chlorinated hydrocarbons (TICH)	ug/L	ND			ND	ND	ND			Calculated			
Total coliform	No./100mL	ND	ND	ND	ND	ND	ND	(6)	(6)	SM 9222B			1
Total cyanide	ug/L	ND			ND	ND	DNQ Est. Conc. 3.57			SM 4500 CN E	5	2.00	5.00
Total dissolved solids	mg/L	665	634	655	634	702	860			SM 2540C			55.6 - 83.3
Total hardness (CaCO3)	mg/L	205	191	182	176	203	278			Calculated			
Total Kjeldahl Nitrogen (TKN)	mg/L	2.22	2.60	2.04	2.04	3.85	8.50			EPA 351.2		0.120	0.200 - 0.500
Total nitrogen	mg/L	8.10	9.15	9.11	7.83	10.6	14.4			Total Nitrogen Calculation			
Total phosphorus	mg/L	0.434	0.228	0.221	0.091	0.26	0.708			SM4500-P H		0.015	0.030 - 0.033
Total residual chlorine	mg/L	ND	ND	ND	ND	ND	ND	0.1		SM 4500 Cl G		0.02	0.10
Total suspended solids	mg/L	ND	ND	ND	ND	ND	ND	45	15	SM 2540D			2.5
Toxaphene	ug/L				ND	ND	ND			EPA 608.3	0.5	0.05	0.5
Toxic equivalence	pg/L				ND	ND	ND			Calculated			
trans-1,2-Dichloroethene	ug/L				ND	ND	ND			EPA 624.1	1	0.06 - 0.20	0.50
Trichloroethene	ug/L				ND	ND	ND			EPA 624.1	2	0.12 - 0.15	0.50
Tritium	pCi/L	-88.3			-88.3	42.3	121		20000	EPA 906.0		235 - 342	500
Turbidity (flow proportioned avg daily value)	NTU	0.71	0.73	0.75	0.36	0.65	0.84	2		SM 2130B		0.080 - 0.17	0.50
Uranium	pCi/L	1.17			1.02	1.17	1.27		20	EPA 908.0		.124 - .196	1.00
Vinyl chloride	ug/L				ND	ND	ND			EPA 624.1	2	0.25 - 0.37	0.50
Zinc	ug/L	22.5	16.9	16.5	16.5	22.4	28.0	156(4)(8) 125(4)(7)		EPA 200.8	1	0.92 - 0.95	1.00

(1) Blank contamination observed.
(2) Possible interference observed. The measured ion ratio did not meet qualitative criteria for analysis and results are considered to be an estimated maximum possible concentration.
(3) Dry weather effluent limit.
(4) Wet weather effluent limit.
(5) The temperature of wastes discharged shall not exceed 86° F except as a result of external ambient temperature.
(6) The number of total coliform bacteria shall not exceed 2.2/100 mL as a 7-day median, 23/100 mL in more than one sample within any 30-day period, and 240/100 mL in any sample.
(7) Limit effective on April 1, 2022 as part of the new NPDES permit (R4-2022-0032).
(8) Limit in effect through March 31, 2022 as part of the previous NPDES permit (R4-2015-0123).
(9) Limit in effect through March 31, 2022 as part of the previous NPDES permit (R4-2015-0123). It was removed in the new NPDES permit (R4-2022-0032) effective on April 1, 2022.

Los Coyotes WRP Influent Monitoring

Table 4.3
Los Coyotes Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
1,1,1-Trichloroethane	ug/L	ND						ND		
1,1,2,2-Tetrachloroethane	ug/L	ND						ND		
1,1,2-Trichloroethane	ug/L	ND						ND		
1,1-Dichloroethane	ug/L	ND						ND		
1,1-Dichloroethene	ug/L	ND						ND		
1,2,3,4,6,7,8-HeptaCDD	pg/L				ND			DNQ Est. Conc. 12(1)		
1,2,3,4,6,7,8-HeptaCDF	pg/L				ND			ND		
1,2,3,4,7,8,9-HeptaCDF	pg/L				ND			ND		
1,2,3,4,7,8-HexaCDD	pg/L				ND			ND		
1,2,3,4,7,8-HexaCDF	pg/L				ND			DNQ Est. Conc. 4.9(1)		
1,2,3,6,7,8-HexaCDD	pg/L				ND			DNQ Est. Conc. 2.8		
1,2,3,6,7,8-HexaCDF	pg/L				ND			ND		
1,2,3,7,8,9-HexaCDD	pg/L				ND			DNQ Est. Conc. 2.4(2)		
1,2,3,7,8,9-HexaCDF	pg/L				ND			ND		
1,2,3,7,8-PentaCDD	pg/L				ND			ND		
1,2,3,7,8-PentaCDF	pg/L				ND			ND		
1,2,4-Trichlorobenzene	ug/L	ND						ND		
1,2-Dichlorobenzene	ug/L	ND						ND		
1,2-Dichloroethane	ug/L	ND						ND		
1,2-Dichloropropane	ug/L	ND						ND		
1,2-Diphenylhydrazine	ug/L	ND						ND		
1,3-Dichlorobenzene	ug/L	ND						ND		
1,3-Dichloropropene (Total)	ug/L	ND						0.01		
1,4-Dichlorobenzene	ug/L	DNQ Est. Conc. 0.40						ND		
2,3,4,6,7,8-HexaCDF	pg/L				ND			DNQ Est. Conc. 4.8		
2,3,4,7,8-PentaCDF	pg/L				ND			ND		
2,3,7,8-TCDD	pg/L				ND			ND		
2,3,7,8-TetraCDF	pg/L				ND			ND		
2,4,6-Trichlorophenol	ug/L	ND						ND		
2,4-Dichlorophenol	ug/L	ND						ND		
2,4-Dimethylphenol	ug/L	ND						ND		
2,4-Dinitrophenol	ug/L	ND						ND		
2,4-Dinitrotoluene	ug/L	ND						ND		
2,6-Dinitrotoluene	ug/L	ND						ND		
2-Chloroethyl vinyl ether (mixed)	ug/L	ND						ND		
2-Chloronaphthalene	ug/L	ND						ND		
2-Chlorophenol	ug/L	ND						ND		
2-Methyl-4,6-dinitrophenol	ug/L	ND						ND		
2-Nitrophenol	ug/L	ND						ND		
3,3'-Dichlorobenzidine	ug/L	ND						ND		
3-Methyl-4-chlorophenol	ug/L	ND						ND		
4,4'-DDD	ug/L	ND						ND		
4,4'-DDE	ug/L	ND						ND		
4,4'-DDT	ug/L	ND						DNQ Est. Conc. 0.06		
4-Bromophenyl phenyl ether	ug/L	ND						ND		
4-Chlorophenyl phenyl ether	ug/L	ND						ND		
4-Nitrophenol	ug/L	ND						ND		
Acenaphthene	ug/L	ND						ND		
Acenaphthylene	ug/L	ND						ND		
Acrolein	ug/L	ND						ND		
Acrylonitrile	ug/L	ND						ND		
Aldrin	ug/L	ND						ND		
alpha-BHC	ug/L	ND						ND		
Anthracene	ug/L	ND						ND		
Antimony	ug/L	3.14						5.68		
Aroclor 1016	ug/L	ND						ND		
Aroclor 1221	ug/L	ND						ND		
Aroclor 1232	ug/L	ND						ND		

Table 4.3
Los Coyotes Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	October	November	December	Annual Average			Method	ML	MDL	RL
					Minimum	Average	Maximum				
1,1,1-Trichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.08 - 0.19	0.50
1,1-Dichloroethene	ug/L				ND	ND	ND	EPA 624.1		0.21	0.50
1,2,3,4,6,7,8-HeptaCDD	pg/L	ND			ND	ND	DNQ Est. Conc. 12(1)	EPA 1613B		0.19 - 0.51	47 - 52
1,2,3,4,6,7,8-HeptaCDF	pg/L	ND			ND	ND	ND	EPA 1613B		0.84 - 1.4	47 - 52
1,2,3,4,7,8,9-HeptaCDF	pg/L	ND			ND	ND	ND	EPA 1613B		0.92 - 1.6	47 - 52
1,2,3,4,7,8-HexaCDD	pg/L	ND			ND	ND	ND	EPA 1613B		0.18 - 0.47	47 - 52
1,2,3,4,7,8-HexaCDF	pg/L	ND			ND	ND	DNQ Est. Conc. 4.9(1)	EPA 1613B		0.19 - 0.44	47 - 52
1,2,3,6,7,8-HexaCDD	pg/L	ND			ND	ND	DNQ Est. Conc. 2.8	EPA 1613B		0.2 - 0.52	47 - 52
1,2,3,6,7,8-HexaCDF	pg/L	ND			ND	ND	ND	EPA 1613B		0.19 - 0.42	47 - 52
1,2,3,7,8,9-HexaCDD	pg/L	ND			ND	ND	DNQ Est. Conc. 2.4(2)	EPA 1613B		0.17 - 0.47	47 - 52
1,2,3,7,8,9-HexaCDF	pg/L	ND			ND	ND	ND	EPA 1613B		0.23 - 0.53	47 - 52
1,2,3,7,8-PentaCDD	pg/L	ND			ND	ND	ND	EPA 1613B		0.85 - 1.1	47 - 52
1,2,3,7,8-PentaCDF	pg/L	ND			ND	ND	ND	EPA 1613B		0.24 - 0.81	47 - 52
1,2,4-Trichlorobenzene	ug/L				ND	ND	ND	EPA 625.1		0.51	20.0
1,2-Dichlorobenzene	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L				ND	ND	ND	EPA 624.1		0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L				ND	ND	ND	EPA 625.1		0.63	20.0
1,3-Dichlorobenzene	ug/L				ND	ND	ND	EPA 624.1		0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L				ND	ND	0.01	Calculated			
1,4-Dichlorobenzene	ug/L				ND	ND	DNQ Est. Conc. 0.40	EPA 624.1		0.16 - 0.25	0.50
2,3,4,6,7,8-HexaCDF	pg/L	ND			ND	ND	DNQ Est. Conc. 4.8	EPA 1613B		0.21 - 0.52	47 - 52
2,3,4,7,8-PentaCDF	pg/L	ND			ND	ND	ND	EPA 1613B		0.27 - 0.86	47 - 52
2,3,7,8-TCDD	pg/L	ND			ND	ND	ND	EPA 1613B		0.38 - 0.95	10 - 9.4
2,3,7,8-TetraCDF	pg/L	ND			ND	ND	ND	EPA 1613B		0.21 - 0.69	10 - 9.4
2,4,6-Trichlorophenol	ug/L				ND	ND	ND	EPA 625.1		0.64	20.0
2,4-Dichlorophenol	ug/L				ND	ND	ND	EPA 625.1		0.60	20.0
2,4-Dimethylphenol	ug/L				ND	ND	ND	EPA 625.1		0.44	20.0
2,4-Dinitrophenol	ug/L				ND	ND	ND	EPA 625.1		1.5	100
2,4-Dinitrotoluene	ug/L				ND	ND	ND	EPA 625.1		0.37	20.0
2,6-Dinitrotoluene	ug/L				ND	ND	ND	EPA 625.1		0.50	20.0
2-Chloroethyl vinyl ether (mixed)	ug/L				ND	ND	ND	EPA 624.1		0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L				ND	ND	ND	EPA 625.1		0.41	20.0
2-Chlorophenol	ug/L				ND	ND	ND	EPA 625.1		0.41	20.0
2-Methyl-4,6-dinitrophenol	ug/L				ND	ND	ND	EPA 625.1		1.3	100
2-Nitrophenol	ug/L				ND	ND	ND	EPA 625.1		0.31	20.0
3,3'-Dichlorobenzidine	ug/L				ND	ND	ND	EPA 625.1		0.54	20.0
3-Methyl-4-chlorophenol	ug/L				ND	ND	ND	EPA 625.1		0.69	20.0
4,4'-DDD	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
4,4'-DDE	ug/L				ND	ND	ND	EPA 608.3		0.002	0.10
4,4'-DDT	ug/L				ND	ND	DNQ Est. Conc. 0.06	EPA 608.3		0.004	0.10
4-Bromophenyl phenyl ether	ug/L				ND	ND	ND	EPA 625.1		0.58	20.0
4-Chlorophenyl phenyl ether	ug/L				ND	ND	ND	EPA 625.1		0.63	20.0
4-Nitrophenol	ug/L				ND	ND	ND	EPA 625.1		1.6	100
Acenaphthene	ug/L				ND	ND	ND	EPA 625.1		0.50	20.0
Acenaphthylene	ug/L				ND	ND	ND	EPA 625.1		0.50	20.0
Acrolein	ug/L				ND	ND	ND	EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L				ND	ND	ND	EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L				ND	ND	ND	EPA 608.3		0.002	0.05
alpha-BHC	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Anthracene	ug/L				ND	ND	ND	EPA 625.1		0.56	20.0
Antimony	ug/L				3.14	4.41	5.68	EPA 200.8	0.5	0.12	0.50
Aroclor 1016	ug/L				ND	ND	ND	EPA 608.3		0.1	5.0
Aroclor 1221	ug/L				ND	ND	ND	EPA 608.3		0.1	5.0
Aroclor 1232	ug/L				ND	ND	ND	EPA 608.3		0.1	5.0

Table 4.3
Los Coyotes Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
Aroclor 1242	ug/L	ND						ND		
Aroclor 1248	ug/L	ND						ND		
Aroclor 1254	ug/L	ND						ND		
Aroclor 1260	ug/L	ND						ND		
Arsenic	ug/L	1.99						1.99		
Benzene	ug/L	DNQ Est. Conc. 0.17						ND		
Benzidine	ug/L	ND								ND
Benzo(a)anthracene	ug/L	ND						ND		
Benzo(a)pyrene	ug/L	ND						ND		
Benzo(b)fluoranthene	ug/L	ND						ND		
Benzo(g,h,i)perylene	ug/L	ND						ND		
Benzo(k)fluoranthene	ug/L	ND						ND		
Beryllium	ug/L	ND						ND		
beta-BHC	ug/L	ND						ND		
bis(2-Chloroethoxy) methane	ug/L	ND						ND		
bis(2-Chloroethyl) ether	ug/L	ND						ND		
bis(2-Chloroisopropyl) ether	ug/L	ND						ND		
bis(2-Ethylhexyl) phthalate	ug/L	ND						DNQ Est. Conc. 13.8		
BOD5 20°C	mg/L	397	340	376	321	304	326	318	323	302
Bromodichloromethane	ug/L	ND						DNQ Est. Conc. 0.27		
Bromoform	ug/L	ND						ND		
Butyl benzyl phthalate	ug/L	ND						ND		
Cadmium	ug/L	DNQ Est. Conc. 0.17						0.2		
Carbon tetrachloride	ug/L	ND						ND		
Chlordane	ug/L	ND						ND		
Chlorobenzene	ug/L	ND						ND		
Chlorodibromomethane	ug/L	ND						ND		
Chloroethane	ug/L	ND						ND		
Chloroform	ug/L	3.6						14.5		
Chromium VI	ug/L	0.06						0.09		
Chromium, total	ug/L	4.3						1.99		
Chrysene	ug/L	ND						ND		
Copper	ug/L	45.3			71.8			53.9		
delta-BHC	ug/L	ND						ND		
Di-n-butyl phthalate	ug/L	ND						ND		
Di-n-octyl phthalate	ug/L	ND						ND		
Dibenzo(a,h)anthracene	ug/L	ND						ND		
Dieldrin	ug/L	ND						ND		
Diethyl phthalate	ug/L	ND						ND		
Dimethyl phthalate	ug/L	ND						ND		
Endosulfan I	ug/L	ND						ND		
Endosulfan II	ug/L	ND						ND		
Endosulfan sulfate	ug/L	ND						ND		
Endrin	ug/L	ND						ND		
Endrin aldehyde	ug/L	ND						DNQ Est. Conc. 0.03		
Ethylbenzene	ug/L	0.68						DNQ Est. Conc. 0.48		
Fluoranthene	ug/L	ND						ND		
Fluorene	ug/L	ND						ND		
gamma-BHC (Lindane)	ug/L	ND						ND		
Heptachlor	ug/L	ND						ND		
Heptachlor epoxide	ug/L	ND						ND		
Hexachlorobenzene	ug/L	ND						ND		
Hexachlorobutadiene	ug/L	ND						ND		
Hexachlorocyclopentadiene	ug/L	ND						ND		
Hexachloroethane	ug/L	ND						ND		
Indeno (1,2,3-cd) pyrene	ug/L	ND						ND		
Isophorone	ug/L	ND						ND		
Lead	ug/L	1.48						0.99		

Table 4.3
Los Coyotes Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	October	November	December	Annual Average			Method	ML	MDL	RL
					Minimum	Average	Maximum				
Aroclor 1242	ug/L				ND	ND	ND	EPA 608.3		0.1	5.0
Aroclor 1248	ug/L				ND	ND	ND	EPA 608.3		0.1	5.0
Aroclor 1254	ug/L				ND	ND	ND	EPA 608.3		0.1	5.0
Aroclor 1260	ug/L				ND	ND	ND	EPA 608.3		0.1	5.0
Arsenic	ug/L				1.99	1.99	1.99	EPA 200.8	2	0.05 - 0.07	1.00
Benzene	ug/L				ND	ND	DNQ Est. Conc. 0.17	EPA 624.1		0.06 - 0.09	0.50
Benzidine	ug/L				ND	ND	ND	EPA 625.1		0.77	100
Benzo(a)anthracene	ug/L				ND	ND	ND	EPA 625.1		0.46	20.0
Benzo(a)pyrene	ug/L				ND	ND	ND	EPA 625.1		0.54	20.0
Benzo(b)fluoranthene	ug/L				ND	ND	ND	EPA 625.1		0.61	20.0
Benzo(g,h,i)perylene	ug/L				ND	ND	ND	EPA 625.1		0.52	20.0
Benzo(k)fluoranthene	ug/L				ND	ND	ND	EPA 625.1		0.53	20.0
Beryllium	ug/L				ND	ND	ND	EPA 200.8	0.5	0.023 - 0.026	0.25
beta-BHC	ug/L				ND	ND	ND	EPA 608.3		0.003	0.05
bis(2-Chloroethoxy) methane	ug/L				ND	ND	ND	EPA 625.1		0.28	20.0
bis(2-Chloroethyl) ether	ug/L				ND	ND	ND	EPA 625.1		0.27	20.0
bis(2-Chloroisopropyl) ether	ug/L				ND	ND	ND	EPA 625.1		0.25	20.0
bis(2-Ethylhexyl) phthalate	ug/L				ND	ND	DNQ Est. Conc. 13.8	EPA 625.1		0.55	20.0
BOD5 20°C	mg/L	362	368	347	302	340	397	SM 5210B			120 - 150
Bromodichloromethane	ug/L				ND	ND	DNQ Est. Conc. 0.27	EPA 624.1		0.11 - 0.15	0.50
Bromoform	ug/L				ND	ND	ND	EPA 624.1		0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L				ND	ND	ND	EPA 625.1		0.58	20.0
Cadmium	ug/L				DNQ Est. Conc. 0.17	0.1	0.2	EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L				ND	ND	ND	EPA 624.1		0.18 - 0.34	0.50
Chlordane	ug/L				ND	ND	ND	EPA 608.3		0.02	0.50
Chlorobenzene	ug/L				ND	ND	ND	EPA 624.1		0.07 - 0.10	0.50
Chlorodibromomethane	ug/L				ND	ND	ND	EPA 624.1		0.11 - 0.13	0.50
Chloroethane	ug/L				ND	ND	ND	EPA 624.1		0.22 - 0.31	0.50
Chloroform	ug/L				3.6	9.1	14.5	EPA 624.1		0.08 - 0.35	0.50
Chromium VI	ug/L				0.06	0.08	0.09	EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total	ug/L				1.99	3.1	4.3	EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L				ND	ND	ND	EPA 625.1		0.41	20.0
Copper	ug/L	106			45.3	69.3	106	EPA 200.8	0.5	0.12 - 0.14	0.50
delta-BHC	ug/L				ND	ND	ND	EPA 608.3		0.003	0.05
Di-n-butyl phthalate	ug/L				ND	ND	ND	EPA 625.1		0.59	20.0
Di-n-octyl phthalate	ug/L				ND	ND	ND	EPA 625.1		0.69	20.0
Dibenzo(a,h)anthracene	ug/L				ND	ND	ND	EPA 625.1		0.58	20.0
Dieldrin	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Diethyl phthalate	ug/L				ND	ND	ND	EPA 625.1		0.42	20.0
Dimethyl phthalate	ug/L				ND	ND	ND	EPA 625.1		0.41	20.0
Endosulfan I	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Endosulfan II	ug/L				ND	ND	ND	EPA 608.3		0.004	0.10
Endosulfan sulfate	ug/L				ND	ND	ND	EPA 608.3		0.004	0.10
Endrin	ug/L				ND	ND	ND	EPA 608.3		0.004	0.10
Endrin aldehyde	ug/L				ND	ND	DNQ Est. Conc. 0.03	EPA 608.3		0.003	0.10
Ethylbenzene	ug/L				DNQ Est. Conc. 0.48	0.34	0.68	EPA 624.1		0.11 - 0.15	0.50
Fluoranthene	ug/L				ND	ND	ND	EPA 625.1		0.69	20.0
Fluorene	ug/L				ND	ND	ND	EPA 625.1		0.58	20.0
gamma-BHC (Lindane)	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Heptachlor	ug/L				ND	ND	ND	EPA 608.3		0.002	0.10
Heptachlor epoxide	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Hexachlorobenzene	ug/L				ND	ND	ND	EPA 625.1		0.47	20.0
Hexachlorobutadiene	ug/L				ND	ND	ND	EPA 625.1		0.96	20.0
Hexachlorocyclopentadiene	ug/L				ND	ND	ND	EPA 625.1		2.0	100
Hexachloroethane	ug/L				ND	ND	ND	EPA 625.1		0.81	20.0
Indeno (1,2,3-cd) pyrene	ug/L				ND	ND	ND	EPA 625.1		0.53	20.0
Isophorone	ug/L				ND	ND	ND	EPA 625.1		0.28	20.0
Lead	ug/L				0.99	1.2	1.48	EPA 200.8	0.5	0.01 - 0.02	0.25

Table 4.3
Los Coyotes Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
Mercury	ug/L	0.07						0.05		
Methyl bromide (Bromomethane)	ug/L	ND						ND		
Methyl chloride (Chloromethane)	ug/L	ND						ND		
Methylene chloride	ug/L	ND						DNQ Est. Conc. 0.24		
n-Nitrosodi-n-propylamine	ug/L	ND			ND			ND		
n-Nitrosodimethylamine (NDMA)	ug/L	0.03			0.09			0.12		
n-Nitrosodiphenylamine	ug/L	ND			ND			ND		
Naphthalene	ug/L	ND						ND		
Nickel	ug/L	6.82						4.03		
Nitrobenzene	ug/L	ND						ND		
OctaCDD	pg/L				DNQ Est. Conc. 62(1)			ND		
OctaCDF	pg/L				ND			DNQ Est. Conc. 5.7		
PCB-18/30	pg/L							DNQ Est. Conc. 7.4(1)		
PCB-20/28	pg/L							ND		
PCB-037	pg/L							ND		
PCB-044/047/065	pg/L							ND		
PCB-049/069	pg/L							DNQ Est. Conc. 8.5(1)		
PCB-052	pg/L							DNQ Est. Conc. 28(1)		
PCB-066	pg/L							ND		
PCB-070 and 074 (Co: 61,70,74,76)	pg/L							DNQ Est. Conc. 14		
PCB-077	pg/L							ND		
PCB-081	pg/L							ND		
PCB-087 and 119 (Co: 86,87,97,108,119)	pg/L							ND		
PCB-099	pg/L							ND		
PCB-101 (Co: 90/101/113)	pg/L							ND		
PCB-105	pg/L							ND		
PCB 110/115	pg/L							ND		
PCB-114	pg/L							ND		
PCB-118	pg/L							ND		
PCB-123	pg/L							ND		
PCB-126	pg/L							ND		
PCB-128/166	pg/L							ND		
PCB-135/151	pg/L							ND		
PCB-138 (Co: 129,138,163)	pg/L							ND		
PCB-147/149	pg/L							ND		
PCB-153/168	pg/L							ND		
PCB-156/157	pg/L							ND		
PCB-158	pg/L							ND		
PCB-167	pg/L							ND		
PCB-169	pg/L							ND		
PCB-170	pg/L							ND		
PCB-177	pg/L							ND		
PCB-180/193	pg/L							ND		
PCB-183	pg/L							ND		
PCB-187	pg/L							ND		
PCB-189	pg/L							ND		
PCB-194	pg/L							ND		
PCB-201	pg/L							ND		
PCB-206	pg/L							ND		
Pentachlorophenol	ug/L	ND						ND		
pH	SU	7.6	7.5	7.3	7.3	7.4	7.4	7.3	7.3	7.3
Phenanthrene	ug/L	ND						ND		
Phenol	ug/L	42.2						67.3		
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L	ND						ND		
Polychlorinated Biphenyls (PCBs), Sum as Congeners	pg/L							4,120		
Pyrene	ug/L	ND						ND		
Selenium	ug/L	4.07						1.12		
Silver	ug/L	0.49						DNQ Est. Conc. 0.13		

Table 4.3
Los Coyotes Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	October	November	December	Annual Average			Method	ML	MDL	RL
					Minimum	Average	Maximum				
Mercury	ug/L				0.05	0.06	0.07	EPA 245.1	0.5	0.019	0.04
Methyl bromide (Bromomethane)	ug/L				ND	ND	ND	EPA 624.1		0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L				ND	ND	ND	EPA 624.1		0.19 - 0.41	0.50
Methylene chloride	ug/L				ND	ND	DNQ Est. Conc. 0.24	EPA 624.1		0.16 - 0.46	0.50
n-Nitrosodi-n-propylamine	ug/L	ND			ND	ND	ND	EPA 1625B (Modified)		0.00063 - 0.00138	0.02
n-Nitrosodimethylamine (NDMA)	ug/L	0.13			0.03	0.09	0.13	EPA 1625B (Modified)		0.00052	0.02
n-Nitrosodiphenylamine	ug/L	ND			ND	ND	ND	EPA 1625B (Modified)		0.00132 - 0.00566	0.10
Naphthalene	ug/L				ND	ND	ND	EPA 625.1		0.20	20.0
Nickel	ug/L				4.03	5.43	6.82	EPA 200.8	1	0.08 - 0.50	1.00
Nitrobenzene	ug/L				ND	ND	ND	EPA 625.1		0.31	20.0
OctaCDD	pg/L	DNQ Est. Conc. 57(1)			ND	ND	DNQ Est. Conc. 62(1)	EPA 1613B		0.71 - 1.3	100 - 94
OctaCDF	pg/L	ND			ND	ND	DNQ Est. Conc. 5.7	EPA 1613B		0.67 - 1.1	100 - 94
PCB-18/30	pg/L				DNQ Est. Conc. 7.4(1)	ND	DNQ Est. Conc. 7.4(1)	EPA 1668		0.6	370
PCB-20/28	pg/L				ND	ND	ND	EPA 1668		1	370
PCB-037	pg/L				ND	ND	ND	EPA 1668		13	190
PCB-044/047/065	pg/L				ND	ND	ND	EPA 1668		0.83	560
PCB-049/069	pg/L				DNQ Est. Conc. 8.5(1)	ND	DNQ Est. Conc. 8.5(1)	EPA 1668		0.74	370
PCB-052	pg/L				DNQ Est. Conc. 28(1)	ND	DNQ Est. Conc. 28(1)	EPA 1668		0.83	190
PCB-066	pg/L				ND	ND	ND	EPA 1668		2.2	190
PCB-070 and 074 (Co: 61,70,74,76)	pg/L				DNQ Est. Conc. 14	ND	DNQ Est. Conc. 14	EPA 1668		2.3	750
PCB-077	pg/L				ND	ND	ND	EPA 1668		2.5	19
PCB-081	pg/L				ND	ND	ND	EPA 1668		2.7	19
PCB-087 and 119 (Co: 86,87,97,108,119)	pg/L				ND	ND	ND	EPA 1668		0.97	1100
PCB-099	pg/L				ND	ND	ND	EPA 1668		0.91	190
PCB-101 (Co: 90/101/113)	pg/L				ND	ND	ND	EPA 1668		1	560
PCB-105	pg/L				ND	ND	ND	EPA 1668		0.85	19
PCB 110/115	pg/L				ND	ND	ND	EPA 1668		0.85	370
PCB-114	pg/L				ND	ND	ND	EPA 1668		0.92	19
PCB-118	pg/L				ND	ND	ND	EPA 1668		0.81	19
PCB-123	pg/L				ND	ND	ND	EPA 1668		0.9	19
PCB-126	pg/L				ND	ND	ND	EPA 1668		0.93	19
PCB-128/166	pg/L				ND	ND	ND	EPA 1668		0.57	370
PCB-135/151	pg/L				ND	ND	ND	EPA 1668		0.6	370
PCB-138 (Co: 129,138,163)	pg/L				ND	ND	ND	EPA 1668		0.59	560
PCB-147/149	pg/L				ND	ND	ND	EPA 1668		0.59	370
PCB-153/168	pg/L				ND	ND	ND	EPA 1668		0.48	370
PCB-156/157	pg/L				ND	ND	ND	EPA 1668		0.33	37
PCB-158	pg/L				ND	ND	ND	EPA 1668		0.45	190
PCB-167	pg/L				ND	ND	ND	EPA 1668		0.26	19
PCB-169	pg/L				ND	ND	ND	EPA 1668		0.28	19
PCB-170	pg/L				ND	ND	ND	EPA 1668		0.37	190
PCB-177	pg/L				ND	ND	ND	EPA 1668		0.33	190
PCB-180/193	pg/L				ND	ND	ND	EPA 1668		0.29	370
PCB-183	pg/L				ND	ND	ND	EPA 1668		0.27	190
PCB-187	pg/L				ND	ND	ND	EPA 1668		0.26	190
PCB-189	pg/L				ND	ND	ND	EPA 1668		0.23	19
PCB-194	pg/L				ND	ND	ND	EPA 1668		0.28	190
PCB-201	pg/L				ND	ND	ND	EPA 1668		0.19	190
PCB-206	pg/L				ND	ND	ND	EPA 1668		0.44	190
Pentachlorophenol	ug/L				ND	ND	ND	EPA 625.1		0.82	20.0
pH	SU	7.1	7.2	7.2	7.1	7.3	7.6	SM 4500 H+ B			
Phenanthrene	ug/L				ND	ND	ND	EPA 625.1		0.59	20.0
Phenol	ug/L				42.2	54.8	67.3	EPA 625.1		0.24	20.0
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L				ND	ND	ND	Calculated			
Polychlorinated Biphenyls (PCBs), Sum as Congeners	pg/L				4,120	4,120	4,120	Calculated			
Pyrene	ug/L				ND	ND	ND	EPA 625.1		0.60	20.0
Selenium	ug/L				1.12	2.6	4.07	EPA 200.8	2	0.04	1.00
Silver	ug/L				DNQ Est. Conc. 0.13	0.25	0.49	EPA 200.8	0.25	0.02	0.20

Table 4.3
Los Coyotes Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
Temperature	Degrees F		67.7	68.8	72.0	74.6	77.3	79.6	81.0	81.9
Tetrachloroethene	ug/L	ND						ND		
Thallium	ug/L	ND						ND		
Toluene	ug/L	3.3						2.3		
Total cyanide	ug/L	ND						ND		
Total suspended solids	mg/L	316	279	351	265	241	276	233	249	233
Toxaphene	ug/L	ND						ND		
Toxic equivalence	pg/L				ND			ND		
trans-1,2-Dichloroethene	ug/L	ND						ND		
Trichloroethene	ug/L	ND						ND		
Vinyl chloride	ug/L	ND						ND		
Zinc	ug/L	171						98.2		

(1) Blank comtamination observed.

(2) Reported blanks were the estimated maximum possible concentrati ated using the theoretical ion ratio. The measured ion ratio does not meet qualitative criteria and indicates possible interference.

Table 4.3
Los Coyotes Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	October	November	December	Annual Average			Method	ML	MDL	RL
					Minimum	Average	Maximum				
Temperature	Degrees F	77	70.4	69.0	67.7	74.5	81.9	EPA 170.1 (oF)			
Tetrachloroethene	ug/L				ND	ND	ND	EPA 624.1		0.16 - 0.18	0.50
Thallium	ug/L				ND	ND	ND	EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L				2.3	2.8	3.3	EPA 624.1		0.04 - 0.15	0.50
Total cyanide	ug/L				ND	ND	ND	SM 4500 CN E	5	2.00	5.00
Total suspended solids	mg/L	283	264	300	233	274	351	SM 2540D			50.0 - 83.3
Toxaphene	ug/L				ND	ND	ND	EPA 608.3		0.05	5.0
Toxic equivalence	pg/L	ND			ND	ND	ND	Calculated			
trans-1,2-Dichloroethene	ug/L				ND	ND	ND	EPA 624.1		0.06 - 0.20	0.50
Trichloroethene	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.15	0.50
Vinyl chloride	ug/L				ND	ND	ND	EPA 624.1		0.25 - 0.37	0.50
Zinc	ug/L				98.2	135	171	EPA 200.8	1	0.92 - 0.95	1.00

(1) Blank comtamination observed.
(2) Reported blanks were the estimated maximum possible concentrati

Los Coyotes WRP Effluent Monitoring

Table 4.4
Los Coyotes Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
1,1,1-Trichloroethane	ug/L	ND						ND		
1,1,2,2-Tetrachloroethane	ug/L	ND						ND		
1,1,2-Trichloroethane	ug/L	ND						ND		
1,1-Dichloroethane	ug/L	ND						ND		
1,1-Dichloroethene	ug/L	ND						ND		
1,2,3,4,6,7,8-HeptaCDD	pg/L		ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 1.5	ND
1,2,3,4,6,7,8-HeptaCDF	pg/L		58(1)	ND	ND	ND	ND	ND	DNQ Est. Conc. 0.94(2)	ND
1,2,3,4,7,8,9-HeptaCDF	pg/L		ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-HexaCDD	pg/L		ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-HexaCDF	pg/L		DNQ Est. Conc. 20(1)	ND	ND	ND	ND	ND	DNQ Est. Conc. 0.33(2)	ND
1,2,3,6,7,8-HexaCDD	pg/L		DNQ Est. Conc. 0.93(2)	ND	ND	ND	ND	DNQ Est. Conc. 1.6(2)	ND	ND
1,2,3,6,7,8-HexaCDF	pg/L		DNQ Est. Conc. 4.6	ND	ND	ND	ND	ND	DNQ Est. Conc. 0.49	ND
1,2,3,7,8,9-HexaCDD	pg/L		ND	ND	ND	ND	ND	DNQ Est. Conc. 2.3	ND	DNQ Est. Conc. 0.91(2)
1,2,3,7,8,9-HexaCDF	pg/L		ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-PentaCDD	pg/L		ND	ND	DNQ Est. Conc. 2.5	ND	ND	ND	ND	ND
1,2,3,7,8-PentaCDF	pg/L		ND	ND	ND	ND	ND	DNQ Est. Conc. 2.4	ND	ND
1,2,3-Trichloropropane	ug/L	DNQ Est. Conc. 0.0035						ND		
1,2,4-Trichlorobenzene	ug/L	ND						ND		
1,2-Dichlorobenzene	ug/L	ND						ND		
1,2-Dichloroethane	ug/L	ND						ND		
1,2-Dichloropropane	ug/L	ND						ND		
1,2-Diphenylhydrazine	ug/L	ND						ND		
1,3-Dichlorobenzene	ug/L	ND						ND		
1,3-Dichloropropene (Total)	ug/L	ND						0.03		
1,4-Dichlorobenzene	ug/L	ND						ND		
1,4-Dioxane	ug/L	ND						1.5		
2,3,4,6,7,8-HexaCDF	pg/L		ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-PentaCDF	pg/L		ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-TCDD	pg/L		ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-TetraCDF	pg/L		ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ug/L	ND						ND		
2,4-Dichlorophenol	ug/L	ND						ND		
2,4-Dimethylphenol	ug/L	ND						ND		
2,4-Dinitrophenol	ug/L	ND						ND		
2,4-Dinitrotoluene	ug/L	ND						ND		
2,6-Dinitrotoluene	ug/L	ND						ND		
2-Chloroethyl vinyl ether (mixed)	ug/L	ND						ND		
2-Chloronaphthalene	ug/L	ND						ND		
2-Chlorophenol	ug/L	ND						ND		
2-Methyl-4,6-dinitrophenol	ug/L	ND						ND		
2-Nitrophenol	ug/L	ND						ND		
3,3'-Dichlorobenzidine	ug/L	ND						ND		
3-Methyl-4-chlorophenol	ug/L	ND						ND		
4,4'-DDD	ug/L	ND						ND		
4,4'-DDE	ug/L	ND						ND		
4,4'-DDT	ug/L	ND						ND		
4-Bromophenyl phenyl ether	ug/L	ND						ND		
4-Chlorophenyl phenyl ether	ug/L	ND						ND		
4-Nitrophenol	ug/L	ND						ND		
Acenaphthene	ug/L	ND						ND		
Acenaphthylene	ug/L	ND						ND		
Acrolein	ug/L	ND						ND		
Acrylonitrile	ug/L	ND						ND		
Aldrin	ug/L	ND						ND		
alpha-BHC	ug/L	ND						ND		
Ammonia as nitrogen	mg/L	1.20	1.09	1.34	1.24	1.31	1.70	1.20	1.09	1.31
Anthracene	ug/L	ND						ND		
Antimony	ug/L	4.72			7.20			4.71		
Aroclor 1016	ug/L	ND						ND		
Aroclor 1221	ug/L	ND						ND		
Aroclor 1232	ug/L	ND						ND		
Aroclor 1242	ug/L	ND						ND		

Table 4.4
Los Coyotes Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
								Max Daily	Monthly Average				
1,1,1-Trichloroethane	ug/L				ND	ND	ND			EPA 624.1		0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L				ND	ND	ND			EPA 624.1		0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L				ND	ND	ND			EPA 624.1		0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L				ND	ND	ND			EPA 624.1		0.08 - 0.19	0.50
1,1-Dichloroethene	ug/L				ND	ND	ND			EPA 624.1		0.21	0.50
1,2,3,4,6,7,8-HeptaCDD	pg/L	ND	53(1)	ND	ND	4.8	53(1)			EPA 1613B		0.078 - 0.84	47 - 51
1,2,3,4,6,7,8-HeptaCDF	pg/L	ND	56(1)	ND	ND	10	58(1)			EPA 1613B		0.082 - 1.5	47 - 51
1,2,3,4,7,8,9-HeptaCDF	pg/L	ND	ND	ND	ND	ND	ND			EPA 1613B		0.088 - 1.9	47 - 51
1,2,3,4,7,8-HexaCDD	pg/L	ND	ND	ND	ND	ND	ND			EPA 1613B		0.043 - 0.82	47 - 51
1,2,3,4,7,8-HexaCDF	pg/L	ND	ND	ND	ND	ND	DNQ Est. Conc. 20(1)			EPA 1613B		0.015 - 0.73	47 - 51
1,2,3,6,7,8-HexaCDD	pg/L	ND	ND	ND	ND	ND	DNQ Est. Conc. 1.6(2)			EPA 1613B		0.047 - 0.84	47 - 51
1,2,3,6,7,8-HexaCDF	pg/L	ND	ND	ND	ND	ND	DNQ Est. Conc. 4.6			EPA 1613B		0.015 - 0.68	47 - 51
1,2,3,7,8,9-HexaCDD	pg/L	ND	ND	ND	ND	ND	DNQ Est. Conc. 2.3			EPA 1613B		0.041 - 0.79	47 - 51
1,2,3,7,8,9-HexaCDF	pg/L	DNQ Est. Conc. 0.50	ND	ND	ND	ND	DNQ Est. Conc. 0.50			EPA 1613B		0.015 - 0.79	47 - 51
1,2,3,7,8-PentaCDD	pg/L	ND	ND	ND	ND	ND	DNQ Est. Conc. 2.5			EPA 1613B		0.053 - 1.5	47 - 51
1,2,3,7,8-PentaCDF	pg/L	ND	ND	ND	ND	ND	DNQ Est. Conc. 2.4			EPA 1613B		0.033 - 0.88	47 - 51
1,2,3-Trichloropropane	ug/L				ND	ND	DNQ Est. Conc. 0.0035			SRL-524M-TCP		0.0012	0.005
1,2,4-Trichlorobenzene	ug/L				ND	ND	ND			EPA 625.1	5	0.51	1.0
1,2-Dichlorobenzene	ug/L				ND	ND	ND			EPA 624.1		0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L				ND	ND	ND			EPA 624.1		0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L				ND	ND	ND			EPA 624.1		0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L				ND	ND	ND			EPA 625.1	1	0.63	1.0
1,3-Dichlorobenzene	ug/L				ND	ND	ND			EPA 624.1		0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L				ND	0.02	0.03			Calculated			
1,4-Dichlorobenzene	ug/L				ND	ND	ND			EPA 624.1		0.16 - 0.25	0.50
1,4-Dioxane	ug/L				ND	0.75	1.5			SW-846 8270MOD 1,4-Dioxane		0.26 - 1.7	0.40 - 5.0
2,3,4,6,7,8-HexaCDF	pg/L	ND	ND	ND	ND	ND	ND			EPA 1613B		0.015 - 0.64	47 - 51
2,3,4,7,8-PentaCDF	pg/L	ND	ND	ND	ND	ND	ND			EPA 1613B		0.036 - 0.58	47 - 51
2,3,7,8-TCDD	pg/L	ND	ND	ND	ND	ND	ND	0.037	0.014	EPA 1613B		0.20 - 0.90	10 - 9.4
2,3,7,8-TetraCDF	pg/L	ND	ND	ND	ND	ND	ND			EPA 1613B		0.024 - 0.50	10 - 9.4
2,4,6-Trichlorophenol	ug/L				ND	ND	ND			EPA 625.1	10	0.64	1.0
2,4-Dichlorophenol	ug/L				ND	ND	ND			EPA 625.1	5	0.60	1.0
2,4-Dimethylphenol	ug/L				ND	ND	ND			EPA 625.1	2	0.44	1.0
2,4-Dinitrophenol	ug/L				ND	ND	ND			EPA 625.1	5	1.5	5.0
2,4-Dinitrotoluene	ug/L				ND	ND	ND			EPA 625.1	5	0.37	1.0
2,6-Dinitrotoluene	ug/L				ND	ND	ND			EPA 625.1	5	0.50	1.0
2-Chloroethyl vinyl ether (mixed)	ug/L				ND	ND	ND			EPA 624.1		0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L				ND	ND	ND			EPA 625.1	10	0.41	1.0
2-Chlorophenol	ug/L				ND	ND	ND			EPA 625.1	5	0.41	1.0
2-Methyl-4,6-dinitrophenol	ug/L				ND	ND	ND			EPA 625.1	5	1.3	5.0
2-Nitrophenol	ug/L				ND	ND	ND			EPA 625.1	10	0.31	1.0
3,3'-Dichlorobenzidine	ug/L				ND	ND	ND			EPA 625.1	5	0.54	1.0
3-Methyl-4-chlorophenol	ug/L				ND	ND	ND			EPA 625.1	1	0.69	1.0
4,4'-DDD	ug/L				ND	ND	ND			EPA 608.3		0.003	0.01
4,4'-DDE	ug/L				ND	ND	ND			EPA 608.3		0.002	0.01
4,4'-DDT	ug/L				ND	ND	ND			EPA 608.3		0.004	0.01
4-Bromophenyl phenyl ether	ug/L				ND	ND	ND			EPA 625.1	5	0.58	1.0
4-Chlorophenyl phenyl ether	ug/L				ND	ND	ND			EPA 625.1	5	0.63	1.0
4-Nitrophenol	ug/L				ND	ND	ND			EPA 625.1	10	1.6	5.0
Acenaphthene	ug/L				ND	ND	ND			EPA 625.1	1	0.50	1.0
Acenaphthylene	ug/L				ND	ND	ND			EPA 625.1	10	0.50	1.0
Acrolein	ug/L				ND	ND	ND			EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L				ND	ND	ND			EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L				ND	ND	ND			EPA 608.3		0.002	0.005
alpha-BHC	ug/L				ND	ND	ND			EPA 608.3		0.003	0.01
Ammonia as nitrogen	mg/L	1.34	1.37	1.30	1.09	1.29	1.70	9.6	4.3	SM 4500 NH3 H		0.020 - 0.030	0.100
Anthracene	ug/L				ND	ND	ND			EPA 625.1	10	0.56	1.0
Antimony	ug/L	0.85			0.85	4.4	7.20			EPA 200.8	0.5	0.12	0.50
Aroclor 1016	ug/L				ND	ND	ND			EPA 608.3		0.1	0.5
Aroclor 1221	ug/L				ND	ND	ND			EPA 608.3		0.1	0.5
Aroclor 1232	ug/L				ND	ND	ND			EPA 608.3		0.1	0.5
Aroclor 1242	ug/L				ND	ND	ND			EPA 608.3		0.1	0.5

Table 4.4
Los Coyotes Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
Aroclor 1248	ug/L	ND						ND		
Aroclor 1254	ug/L	ND						ND		
Aroclor 1260	ug/L	ND						ND		
Arsenic	ug/L	DNQ Est. Conc. 0.73			DNQ Est. Conc. 0.63			1.24		
Barium	ug/L	52.9						75.4		
Benzene	ug/L	ND						ND		
Benzidine	ug/L	ND								ND
Benzo(a)anthracene	ug/L	ND						ND		
Benzo(a)pyrene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ug/L	ND						ND		
Benzo(k)fluoranthene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	ug/L	ND			ND			ND		
beta-BHC	ug/L	ND						ND		
bis(2-Chloroethoxy) methane	ug/L	ND						ND		
bis(2-Chloroethyl) ether	ug/L	ND						ND		
bis(2-Chloroisopropyl) ether	ug/L	ND						ND		
bis(2-Ethylhexyl) phthalate	ug/L	ND						ND		
BOD5 20°C	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	mg/L	0.64	0.50	0.50	0.43	0.46	0.51	0.41	0.45	0.44
Bromodichloromethane	ug/L	6.5						5.1		
Bromoform	ug/L	DNQ Est. Conc. 0.20						ND		
Butyl benzyl phthalate	ug/L	ND						ND		
Cadmium	ug/L	ND			ND			ND		
Carbon tetrachloride	ug/L	ND						ND		
Chlordane	ug/L	ND						ND		
Chloride	mg/L	223	274	263	191	283	303	315	303	267
Chlorobenzene	ug/L	ND						ND		
Chlorodibromomethane	ug/L	1.4						0.72		
Chloroethane	ug/L	ND						ND		
Chloroform	ug/L	18.3						20.6		
Chromium III	ug/L	0.50			0.54			0.65		
Chromium VI	ug/L	0.07			0.07			0.13		
Chromium, total (24 hr composite)	ug/L	0.51			DNQ Est. Conc. 0.46			0.68		
Chromium, total (Grab)	ug/L	0.57			0.61			0.77		
Chrysene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ug/L	3.10	1.53	2.06	2.12	5.43	5.27	5.36	4.01	3.41
delta-BHC	ug/L	ND						ND		
Di-n-butyl phthalate	ug/L	ND						ND		
Di-n-octyl phthalate	ug/L	ND						ND		
Dibenzo(a,h)anthracene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	ug/L	ND						ND		
Diethyl phthalate	ug/L	ND						ND		
Dimethyl phthalate	ug/L	ND						ND		
Dissolved oxygen	mg/L	7.0	6.9	6.4	6.6	6.2	6.4	6.3	6.3	6.4
E. coli	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ug/L	ND						ND		
Endosulfan II	ug/L	ND						ND		
Endosulfan sulfate	ug/L	ND						ND		
Endrin	ug/L	ND						ND		
Endrin aldehyde	ug/L	ND						ND		
Ethylbenzene	ug/L	ND						ND		
Fecal coliform	No./100mL	ND								
Fluoranthene	ug/L	ND						ND		
Fluorene	ug/L	ND						ND		
Fluoride	mg/L	0.381					0.510	0.339		
gamma-BHC (Lindane)	ug/L	ND						ND		
Gross alpha radioactivity	pCi/L						3.03	3.34		-0.549
Gross beta radioactivity	pCi/L						12.2	13.2		38.6
Heptachlor	ug/L	ND						ND		
Heptachlor epoxide	ug/L	ND						ND		
Hexachlorobenzene	ug/L	ND						ND		

Table 4.4
Los Coyotes Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
								Max Daily	Monthly Average				
Aroclor 1248	ug/L				ND	ND	ND			EPA 608.3		0.1	0.5
Aroclor 1254	ug/L				ND	ND	ND			EPA 608.3		0.1	0.5
Aroclor 1260	ug/L				ND	ND	ND			EPA 608.3		0.1	0.5
Arsenic	ug/L	1.32			DNQ Est. Conc. 0.63	0.64	1.32			EPA 200.8	2	0.05 - 0.07	1.00
Barium	ug/L				52.9	64.2	75.4			EPA 200.8		0.07 - 0.10	0.50
Benzene	ug/L				ND	ND	ND			EPA 624.1		0.06 - 0.09	0.50
Benzidine	ug/L				ND	ND	ND			EPA 625.1	5	0.77	5.0
Benzo(a)anthracene	ug/L				ND	ND	ND			EPA 625.1	5	0.46	1.0
Benzo(a)pyrene	ug/L	ND	ND	ND	ND	ND	ND			EPA 610	10	0.013	0.020
Benzo(b)fluoranthene	ug/L	ND	ND	ND	ND	ND	ND			EPA 610	10	0.015	0.020
Benzo(g,h,i)perylene	ug/L				ND	ND	ND			EPA 625.1	5	0.52	1.0
Benzo(k)fluoranthene	ug/L	ND	ND	ND	ND	ND	ND			EPA 610	10	0.014	0.020
Beryllium	ug/L	ND			ND	ND	ND			EPA 200.8	0.5	0.023 - 0.026	0.25
beta-BHC	ug/L				ND	ND	ND			EPA 608.3		0.003	0.005
bis(2-Chloroethoxy) methane	ug/L				ND	ND	ND			EPA 625.1	5	0.28	1.0
bis(2-Chloroethyl) ether	ug/L				ND	ND	ND			EPA 625.1	1	0.27	1.0
bis(2-Chloroisopropyl) ether	ug/L				ND	ND	ND			EPA 625.1	2	0.25	1.0
bis(2-Ethylhexyl) phthalate	ug/L				ND	ND	ND			EPA 625.1	5	0.55	1.0
BOD5 20°C	mg/L	ND	ND	ND	ND	ND	ND	45	20	SM 5210B			3
Boron	mg/L	0.50	0.53	0.51	0.41	0.49	0.64			EPA 200.8		0.008 - 0.013	0.020
Bromodichloromethane	ug/L				5.1	5.8	6.5			EPA 624.1		0.11 - 0.15	0.50
Bromoform	ug/L				ND	ND	DNQ Est. Conc. 0.20			EPA 624.1		0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L				ND	ND	ND			EPA 625.1	10	0.58	1.0
Cadmium	ug/L	ND			ND	ND	ND			EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L				ND	ND	ND			EPA 624.1		0.18 - 0.34	0.50
Chlordane	ug/L				ND	ND	ND			EPA 608.3		0.02	0.05
Chloride	mg/L	190	190	186	186	249	315			EPA 300.0		0.024 - 0.144	10.0 - 20.0
Chlorobenzene	ug/L				ND	ND	ND			EPA 624.1		0.07 - 0.10	0.50
Chlorodibromomethane	ug/L				0.72	1.1	1.4			EPA 624.1		0.11 - 0.13	0.50
Chloroethane	ug/L				ND	ND	ND			EPA 624.1		0.22 - 0.31	0.50
Chloroform	ug/L				18.3	19.5	20.6			EPA 624.1		0.08 - 0.35	0.50
Chromium III	ug/L		1.05		0.50	0.69	1.05			Calculated			
Chromium VI	ug/L		0.27		0.07	0.1	0.27			EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total (24 hr composite)	ug/L	0.61			DNQ Est. Conc. 0.46	0.45	0.68			EPA 200.8	0.5	0.27 - 0.28	0.50
Chromium, total (Grab)	ug/L	0.72	1.32		0.57	0.80	1.32			EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L	ND	ND	ND	ND	ND	ND			EPA 610	10	0.014	0.020
Copper	ug/L	3.24	7.06	1.77	1.53	3.70	7.06	28	15	EPA 200.8	0.5	0.12 - 0.14	0.50
delta-BHC	ug/L				ND	ND	ND			EPA 608.3		0.003	0.005
Di-n-butyl phthalate	ug/L				ND	ND	ND			EPA 625.1	10	0.59	1.0
Di-n-octyl phthalate	ug/L				ND	ND	ND			EPA 625.1	10	0.69	1.0
Dibenzo(a,h)anthracene	ug/L	ND	ND	ND	ND	ND	ND			EPA 610	10	0.014	0.020
Dieldrin	ug/L				ND	ND	ND			EPA 608.3		0.003	0.01
Diethyl phthalate	ug/L				ND	ND	ND			EPA 625.1	2	0.42	1.0
Dimethyl phthalate	ug/L				ND	ND	ND			EPA 625.1	2	0.41	1.0
Dissolved oxygen	mg/L	6.3	6.6	7.6	6.2	6.6	7.6			HACH 10360 LDO			0.2
E. coli	No./100mL	ND	ND	ND	ND	ND	ND			SM 9223 Quanti-Tray			1
Endosulfan I	ug/L				ND	ND	ND			EPA 608.3		0.003	0.01
Endosulfan II	ug/L				ND	ND	ND			EPA 608.3		0.004	0.01
Endosulfan sulfate	ug/L				ND	ND	ND			EPA 608.3		0.004	0.01
Endrin	ug/L				ND	ND	ND			EPA 608.3		0.004	0.01
Endrin aldehyde	ug/L				ND	ND	ND			EPA 608.3		0.003	0.01
Ethylbenzene	ug/L				ND	ND	ND			EPA 624.1		0.11 - 0.15	0.50
Fecal coliform	No./100mL				ND	ND	ND			SM 9222D			1
Fluoranthene	ug/L				ND	ND	ND			EPA 625.1	1	0.69	1.0
Fluorene	ug/L				ND	ND	ND			EPA 625.1	10	0.58	1.0
Fluoride	mg/L	0.441			0.339	0.42	0.510			SM 4500 F C		0.040	0.100 - 0.150
gamma-BHC (Lindane)	ug/L				ND	ND	ND			EPA 608.3		0.003	0.01
Gross alpha radioactivity	pCi/L				-0.549	2.12	3.34			EPA 900.0		7.27 - 8.06	3.00
Gross beta radioactivity	pCi/L				12.2	21.3	38.6			EPA 900.0		2.44 - 3.03	4.00
Heptachlor	ug/L				ND	ND	ND			EPA 608.3		0.002	0.01
Heptachlor epoxide	ug/L				ND	ND	ND			EPA 608.3		0.003	0.01
Hexachlorobenzene	ug/L				ND	ND	ND			EPA 625.1	1	0.47	1.0

Table 4.4
Los Coyotes Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
Hexachlorobutadiene	ug/L	ND						ND		
Hexachlorocyclopentadiene	ug/L	ND						ND		
Hexachloroethane	ug/L	ND						ND		
Indeno (1,2,3-cd) pyrene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	ug/L	ND						ND		
Lead	ug/L	DNQ Est. Conc. 0.11			DNQ Est. Conc. 0.14			DNQ Est. Conc. 0.11		
Mercury	ug/L	0.0069			0.0045			0.019		
Methyl bromide (Bromomethane)	ug/L	ND						ND		
Methyl chloride (Chloromethane)	ug/L	ND						ND		
Methyl tert-butyl ether (MTBE)	ug/L	ND						ND		
Methylene chloride	ug/L	ND						ND		
n-Nitrosodi-n-propylamine	ug/L	ND			ND			ND		
n-Nitrosodimethylamine (NDMA)	ug/L	0.62			1.4			3.2		
n-Nitrosodiphenylamine	ug/L	ND			ND			ND		
Naphthalene	ug/L	ND						ND		
Nickel	ug/L	2.84			3.41			2.15		
Nitrate + nitrite as nitrogen	mg/L	7.52	5.16	5.15	6.77	4.48	4.00	5.98	5.98	5.90
Nitrate as nitrogen	mg/L	7.42	5.08	5.05	6.72	4.38	3.90	5.90	5.91	5.81
Nitrite as nitrogen	mg/L	0.103	0.083	0.102	0.048	0.096	0.098	0.083	0.071	0.089
Nitrobenzene	ug/L	ND						ND		
OctaCDD	pg/L		DNQ Est. Conc. 56(1)	ND	ND	ND	ND	ND	ND	ND
OctaCDF	pg/L		DNQ Est. Conc. 67(1)	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 1.6(2)
Oil and grease	mg/L	ND	ND	DNQ Est. Conc. 1.2	DNQ Est. Conc. 1.4	ND	ND	ND	ND	ND
Organic nitrogen	mg/L	1.60	1.94	1.71	1.56	1.76	1.35	1.35	1.38	1.49
Orthophosphate-P	mg/L	0.068	0.057	0.060	0.053	0.086	0.127	0.103	0.369	0.128
PCB-018 (Co: 18,30)	pg/L							DNQ Est. Conc. 7.4(1)		
PCB-037	pg/L							ND		
PCB-044 (Co: 44,47,65)	pg/L							ND		
PCB-049 (Co: 49,69)	pg/L							DNQ Est. Conc. 8.5(1)		
PCB-052	pg/L							DNQ Est. Conc. 28(1)		
PCB-066	pg/L							ND		
PCB-070 and 074 (Co: 61,70,74,76)	pg/L							DNQ Est. Conc. 14(1)		
PCB-077	pg/L							ND		
PCB-081	pg/L							ND		
PCB-087 and 119 (Co: 86,87,97,108,119)	pg/L							ND		
PCB-099	pg/L							ND		
PCB-101 (Co: 90/101/113)	pg/L							ND		
PCB-105	pg/L							ND		
PCB-110 (Co: 110/115)	pg/L							ND		
PCB-114	pg/L							ND		
PCB-118	pg/L							ND		
PCB-123	pg/L							ND		
PCB-126	pg/L							ND		
PCB-128 (Co: 128/166)	pg/L							ND		
PCB-138 (Co: 129,138,163)	pg/L							ND		
PCB-149 (Co: 147,149)	pg/L							ND		
PCB-151 (Co: 135,151)	pg/L							ND		
PCB-153 and 168 (Co: 153,168)	pg/L							ND		
PCB-156 and 157 (Co: 156,157)	pg/L							ND		
PCB-158	pg/L							ND		
PCB-167	pg/L							ND		
PCB-169	pg/L							ND		
PCB-170	pg/L							ND		
PCB-177	pg/L							ND		
PCB-180 (Co: 180,193)	pg/L							ND		
PCB-183	pg/L							ND		
PCB-187	pg/L							ND		
PCB-189	pg/L							ND		
PCB-194	pg/L							ND		
PCB-201	pg/L							ND		
PCB-206	pg/L							ND		
PCB-28 (Co: 20,28)	pg/L							ND		

Table 4.4
Los Coyotes Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
								Max Daily	Monthly Average				
Hexachlorobutadiene	ug/L				ND	ND	ND			EPA 625.1	1	0.96	1.0
Hexachlorocyclopentadiene	ug/L				ND	ND	ND			EPA 625.1	5	2.0	5.0
Hexachloroethane	ug/L				ND	ND	ND			EPA 625.1	1	0.81	1.0
Indeno (1,2,3-cd) pyrene	ug/L	ND	ND	ND	ND	ND	ND			EPA 610	10	0.013	0.020
Isophorone	ug/L				ND	ND	ND			EPA 625.1	1	0.28	1.0
Lead	ug/L	DNQ Est. Conc. 0.10			DNQ Est. Conc. 0.10	ND	DNQ Est. Conc. 0.14			EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L	0.014			0.0045	0.011	0.019			EPA 1631E		0.00010	0.00050
Methyl bromide (Bromomethane)	ug/L				ND	ND	ND			EPA 624.1		0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L				ND	ND	ND			EPA 624.1		0.19 - 0.41	0.50
Methyl tert-butyl ether (MTBE)	ug/L				ND	ND	ND			EPA 624.1		0.08 - 0.40	0.50
Methylene chloride	ug/L				ND	ND	ND			EPA 624.1		0.16 - 0.46	0.50
n-Nitrosodi-n-propylamine	ug/L	ND			ND	ND	ND			EPA 1625B (Modified)		0.00063 - 0.00138	0.01
n-Nitrosodimethylamine (NDMA)	ug/L	1.8			0.62	1.8	3.2			EPA 1625B (Modified)		0.00052	0.01
n-Nitrosodiphenylamine	ug/L	ND			ND	ND	ND			EPA 1625B (Modified)		0.00132 - 0.00566	0.05
Naphthalene	ug/L				ND	ND	ND			EPA 625.1	1	0.20	1.0
Nickel	ug/L	2.48			2.15	2.72	3.41			EPA 200.8	1	0.08 - 0.50	1.00
Nitrate + nitrite as nitrogen	mg/L	6.60	6.26	7.42	4.00	5.94	7.52		8	SM 4500 NO3 F		0.097 - 0.108	0.230
Nitrate as nitrogen	mg/L	6.53	6.18	7.35	3.90	5.85	7.42			Calculated			
Nitrite as nitrogen	mg/L	0.074	0.077	0.073	0.048	0.083	0.103		1	SM 4500 NO3 F		0.012	0.030
Nitrobenzene	ug/L				ND	ND	ND			EPA 625.1	1	0.31	1.0
OctaCDD	pg/L	ND	460(1)	ND	ND	42	460(1)			EPA 1613B		0.15 - 2.5	100 - 94
OctaCDF	pg/L	ND	DNQ Est. Conc. 52(1)	ND	ND	ND	DNQ Est. Conc. 67(1)			EPA 1613B		0.13 - 1.3	100 - 94
Oil and grease	mg/L	ND	ND	ND	ND	ND	DNQ Est. Conc. 1.4	15	10	EPA 1664A		1.0 - 2.1	5.3 - 5.8
Organic nitrogen	mg/L	1.34	0.985	0.455	0.455	1.41	1.94			Calculated			
Orthophosphate-P	mg/L	0.110	0.127	0.079	0.053	0.11	0.369			SM4500-P G		0.010	0.030
PCB-018 (Co: 18,30)	pg/L				DNQ Est. Conc. 7.4(1)	ND	DNQ Est. Conc. 7.4(1)			EPA 1668		0.60	370
PCB-037	pg/L				ND	ND	ND			EPA 1668		1.1	190
PCB-044 (Co: 44,47,65)	pg/L				ND	ND	ND			EPA 1668		0.83	560
PCB-049 (Co: 49,69)	pg/L				DNQ Est. Conc. 8.5(1)	ND	DNQ Est. Conc. 8.5(1)			EPA 1668		0.74	370
PCB-052	pg/L				DNQ Est. Conc. 28(1)	ND	DNQ Est. Conc. 28(1)			EPA 1668		0.83	190
PCB-066	pg/L				ND	ND	ND			EPA 1668		2.2	190
PCB-070 and 074 (Co: 61,70,74,76)	pg/L				DNQ Est. Conc. 14(1)	ND	DNQ Est. Conc. 14(1)			EPA 1668		2.3	750
PCB-077	pg/L				ND	ND	ND			EPA 1668		2.5	19
PCB-081	pg/L				ND	ND	ND			EPA 1668		2.7	19
PCB-087 and 119 (Co: 86,87,97,108,119)	pg/L				ND	ND	ND			EPA 1668		0.97	1100
PCB-099	pg/L				ND	ND	ND			EPA 1668		0.91	190
PCB-101 (Co: 90/101/113)	pg/L				ND	ND	ND			EPA 1668		1.0	560
PCB-105	pg/L				ND	ND	ND			EPA 1668		0.85	19
PCB-110 (Co: 110/115)	pg/L				ND	ND	ND			EPA 1668		0.85	370
PCB-114	pg/L				ND	ND	ND			EPA 1668		0.92	19
PCB-118	pg/L				ND	ND	ND			EPA 1668		0.81	19
PCB-123	pg/L				ND	ND	ND			EPA 1668		0.90	19
PCB-126	pg/L				ND	ND	ND			EPA 1668		0.93	19
PCB-128 (Co: 128/166)	pg/L				ND	ND	ND			EPA 1668		0.57	370
PCB-138 (Co: 129,138,163)	pg/L				ND	ND	ND			EPA 1668		0.59	560
PCB-149 (Co: 147,149)	pg/L				ND	ND	ND			EPA 1668		0.59	370
PCB-151 (Co: 135,151)	pg/L				ND	ND	ND			EPA 1668		0.60	370
PCB-153 and 168 (Co: 153,168)	pg/L				ND	ND	ND			EPA 1668		0.48	370
PCB-156 and 157 (Co: 156,157)	pg/L				ND	ND	ND			EPA 1668		0.33	37
PCB-158	pg/L				ND	ND	ND			EPA 1668		0.45	190
PCB-167	pg/L				ND	ND	ND			EPA 1668		0.26	19
PCB-169	pg/L				ND	ND	ND			EPA 1668		0.28	19
PCB-170	pg/L				ND	ND	ND			EPA 1668		0.37	190
PCB-177	pg/L				ND	ND	ND			EPA 1668		0.33	190
PCB-180 (Co: 180,193)	pg/L				ND	ND	ND			EPA 1668		0.29	370
PCB-183	pg/L				ND	ND	ND			EPA 1668		0.27	190
PCB-187	pg/L				ND	ND	ND			EPA 1668		0.26	190
PCB-189	pg/L				ND	ND	ND			EPA 1668		0.23	19
PCB-194	pg/L				ND	ND	ND			EPA 1668		0.28	190
PCB-201	pg/L				ND	ND	ND			EPA 1668		0.19	190
PCB-206	pg/L				ND	ND	ND			EPA 1668		0.44	190
PCB-28 (Co: 20,28)	pg/L				ND	ND	ND			EPA 1668		1.0	370

Table 4.4
Los Coyotes Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
Pentachlorophenol	ug/L	ND						ND		
Perchlorate	ug/L	0.70						0.65		
pH	SU	7.5	7.5	7.5	7.5	7.5	7.6	7.6	7.6	7.5
Phenanthrene	ug/L	ND						ND		
Phenol	ug/L	ND						ND		
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L	ND						ND		
Polychlorinated Biphenyls (PCBs), Sum as Congeners	ug/L							ND		
Potassium	mg/L	18.5	17.9	18.8	18.9	18.0	18.5	18.3	17.4	17.1
Pyrene	ug/L	ND						ND		
Radium 226 + Radium 228	pCi/L						0.198	0.076		0.951
Selenium	ug/L	2.49			DNQ Est. Conc. 0.49			DNQ Est. Conc. 0.40		
Settleable solids	mL/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ug/L	ND			ND			DNQ Est. Conc. 0.02		
Strontium-90	pCi/L						-0.122	-0.15		0.284
Sulfate	mg/L	211	150	153	148	155	158	155	159	155
Surfactant (CTAS)	mg/L	0.11			ND	ND		DNQ Est. Conc. 0.08		
Surfactant (MBAS)	mg/L	DNQ Est. Conc. 0.06			DNQ Est. Conc. 0.07			DNQ Est. Conc. 0.08		
Temperature	Degrees F	74.5	74.7	76.1	78.5	80.2	83.3	85.4	87.2	87.6
Tetrachloroethene	ug/L	ND						ND		
Thallium	ug/L	ND			ND			ND		
Toluene	ug/L	ND						DNQ Est. Conc. 0.07		
Total chlorinated hydrocarbon (TICH)	ug/L	ND			ND			ND		
Total coliform	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total cyanide	ug/L	DNQ Est. Conc. 3.52			DNQ Est. Conc. 2.92			ND		
Total dissolved solids	mg/L	972	957	960	820	970	1,000	1,060	1,080	960
Total hardness (CaCO3)	mg/L	264	265	285	282	277	280	271	279	292
Total Kjeldahl Nitrogen (TKN)	mg/L	2.80	3.02	3.05	2.80	3.08	3.05	2.55	2.48	2.80
Total nitrogen	mg/L	10.3	8.18	8.20	9.57	7.56	7.05	8.53	8.46	8.70
Total phosphorus	mg/L	0.138	0.113	0.118	0.105	0.162	0.199	0.186	0.453	0.219
Total residual chlorine	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total suspended solids	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ug/L	ND						ND		
Toxic equivalence	pg/L		0.58	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ug/L	ND						ND		
Trichloroethene	ug/L	ND						ND		
Tritium	pCi/L						90.1	63.1		-20.3
Turbidity (flow proportioned avg daily value)	NTU	0.52	0.59	0.65	0.50	0.66	0.71	0.77	0.65	0.61
Uranium	pCi/L						0.969	1.44		2.23
Vinyl chloride	ug/L	ND						ND		
Zinc	ug/L	41.7			47.1			31.3		

Table 4.4
Los Coyotes Water Reclamation Plant
2022 EFF-001 and Reuse Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
								Max Daily	Monthly Average				
Pentachlorophenol	ug/L				ND	ND	ND			EPA 625.1	5	0.82	1.0
Perchlorate	ug/L				0.65	0.68	0.70			EPA 331.0		0.020 - 0.086	0.050 - 0.50
pH	SU	7.5	7.4	7.3	7.3	7.5	7.6	(3)		SM 4500 H+ B			
Phenanthrene	ug/L				ND	ND	ND			EPA 625.1	5	0.59	1.0
Phenol	ug/L				ND	ND	ND			EPA 625.1	1	0.24	1.0
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L				ND	ND	ND			Calculated			
Polychlorinated Biphenyls (PCBs), Sum as Congeners	ug/L				ND	ND	ND			Calculated			
Potassium	mg/L	16.9	16.9	17.4	16.9	17.9	18.9			EPA 200.8		0.020 - 0.022	0.20
Pyrene	ug/L				ND	ND	ND			EPA 625.1	10	0.60	1.0
Radium 226 + Radium 228	pCi/L				0.076	0.41	0.951			Calculated			
Selenium	ug/L	DNQ Est. Conc. 0.36			DNQ Est. Conc. 0.36	0.62	2.49			EPA 200.8	2	0.04	1.00
Settleable solids	mL/L	ND	ND	ND	ND	ND	ND	0.3	0.1	SM 2540F			0.1
Silver	ug/L	ND			ND	ND	DNQ Est. Conc. 0.02			EPA 200.8	0.25	0.02	0.20
Strontium-90	pCi/L				-0.15	0.095	0.284			EPA 905.0		.434 - .709	3.00
Sulfate	mg/L	144	144	153	144	157	211			EPA 300.0		0.040 - 0.161	2.50 - 5.00
Surfactant (CTAS)	mg/L	ND			ND	0.02	0.11			SM 5540D		0.08	0.10
Surfactant (MBAS)	mg/L	DNQ Est. Conc. 0.06			DNQ Est. Conc. 0.06	ND	DNQ Est. Conc. 0.08			SM 5540C		0.03	0.10
Temperature	Degrees F	84.9	79.1	75.4	74.5	80.6	87.6	(4)		EPA 170.1 (oF)			
Tetrachloroethene	ug/L				ND	ND	ND			EPA 624.1		0.16 - 0.18	0.50
Thallium	ug/L	ND			ND	ND	ND			EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L				ND	ND	DNQ Est. Conc. 0.07			EPA 624.1		0.04 - 0.15	0.50
Total chlorinated hydrocarbon (TICH)	ug/L	ND			ND	ND	ND			Calculated			
Total coliform	No./100mL	ND	ND	ND	ND	ND	ND	(5)		SM 9222B			1
Total cyanide	ug/L	DNQ Est. Conc. 2.44			ND	ND	DNQ Est. Conc. 3.52			SM 4500 CN E	5	2.00	5.00
Total dissolved solids	mg/L	828	768	805	768	932	1080			SM 2540C			100 - 83.3
Total hardness (CaCO3)	mg/L	271	274	280	264	277	292			Calculated			
Total Kjeldahl Nitrogen (TKN)	mg/L	2.68	2.36	1.76	1.76	2.70	3.08			EPA 351.2		0.120	0.500
Total nitrogen	mg/L	9.28	8.62	9.18	7.05	8.64	10.3			Total Nitrogen Calculation			
Total phosphorus	mg/L	0.215	0.209	0.139	0.105	0.188	0.453			SM4500-P H		0.015	0.030 - 0.033
Total residual chlorine	mg/L	ND	ND	ND	ND	ND	ND	0.1		SM 4500 Cl G		0.02	0.10
Total suspended solids	mg/L	ND	ND	ND	ND	ND	ND	45	15	SM 2540D			2.5 - 3.2
Toxaphene	ug/L				ND	ND	ND			EPA 608.3		0.05	0.5
Toxic equivalence	pg/L	ND	1.6	ND	ND	0.2	1.6			Calculated			
trans-1,2-Dichloroethene	ug/L				ND	ND	ND			EPA 624.1		0.06 - 0.20	0.50
Trichloroethene	ug/L				ND	ND	ND			EPA 624.1		0.12 - 0.15	0.50
Tritium	pCi/L				-20.3	51.1	90.1			EPA 906.0		260 - 355	500
Turbidity (flow proportioned avg daily value)	NTU	0.72	0.68	0.64	0.50	0.64	0.77	2		SM 2130B		0.10 - 0.12	0.50
Uranium	pCi/L				0.969	1.55	2.23			EPA 908.0		.159 - .164	1.00
Vinyl chloride	ug/L				ND	ND	ND			EPA 624.1		0.25 - 0.37	0.50
Zinc	ug/L	26.8			26.8	36.7	47.1			EPA 200.8	1	0.92 - 0.95	1.00

(1) Blank comtamination observed.

(2) Reported blanks were the estimated maximum possible concentration of each analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative criteria and indicates possible interference.

(3) 6.0<pH<9.0

(4) The temperature of wastes discharged shall not exceed 86° F except as a result of external ambient temperature.

(5) The number of total coliform bacteria shall not exceed 2.2/100 mL as a 7-day median, 23/100 mL in more than one sample within any 30-day period and 240/100 mL in any sample.

Palmdale WRP Influent Monitoring

Table 4.3
Palmdale Water Reclamation Plant
2022 Influent Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
1,1,1-Trichloroethane	ug/L		ND					ND		
1,1,2,2-Tetrachloroethane	ug/L		ND					ND		
1,1,2-Trichloroethane	ug/L		ND					ND		
1,1-Dichloroethane	ug/L		ND					ND		
1,1-Dichloroethene	ug/L		ND					ND		
1,2,4-Trichlorobenzene	ug/L		ND						ND	
1,2-Dichlorobenzene	ug/L		ND					ND		
1,2-Dichloroethane	ug/L		ND					ND		
1,2-Dichloropropane	ug/L		ND					ND		
1,2-Diphenylhydrazine	ug/L		ND						ND	
1,3-Dichlorobenzene	ug/L		ND					ND		
1,3-Dichloropropene (Total)	ug/L		ND							
1,4-Dichlorobenzene	ug/L		ND					DNQ Est. Conc. 0.27		
2,4,6-Trichlorophenol	ug/L		ND						ND	
2,4-Dichlorophenol	ug/L		ND						ND	
2,4-Dimethylphenol	ug/L		ND						ND	
2,4-Dinitrophenol	ug/L		ND						ND	
2,4-Dinitrotoluene	ug/L		ND						ND	
2,6-Dinitrotoluene	ug/L		ND						ND	
2-Chloroethyl vinyl ether (mixed)	ug/L		ND					0.52		
2-Chloronaphthalene	ug/L		ND							
2-Chlorophenol	ug/L		ND						ND	
2-Methyl-4,6-dinitrophenol	ug/L		ND						ND	
2-Nitrophenol	ug/L		ND						ND	
3,3'-Dichlorobenzidine	ug/L		ND							
3-Methyl-4-chlorophenol	ug/L		ND						ND	
4,4'-DDT	ug/L		ND						ND	
4,4-DDD	ug/L		ND						ND	
4,4-DDE	ug/L		ND						ND	
4-Bromophenyl phenyl ether	ug/L		ND						ND	
4-Chlorophenyl phenyl ether	ug/L		ND						ND	
4-Nitrophenol	ug/L		ND						ND	
Acenaphthene	ug/L		ND						ND	
Acenaphthylene	ug/L		ND						ND	
Acrolein	ug/L		ND					ND		
Acrylonitrile	ug/L		ND					ND		
Aldrin	ug/L		ND						ND	
alpha-Endosulfan	ug/L		ND						ND	
alpha-Hexachlorocyclohexane (BHC)	ug/L		ND						ND	
Ammonia as nitrogen	mg/L	26.0	44.9	49.7	34.9	35.0	33.3	35.7	37.5	45.5
Anthracene	ug/L		ND						ND	
Antimony	ug/L		0.62						0.62	
Arsenic	ug/L		1.67						1.47	
Benzene	ug/L		ND					ND		
Benzidine	ug/L		ND							
Benzo(a)anthracene	ug/L		ND						ND	
Benzo(a)pyrene	ug/L		ND						ND	
Benzo(b)fluoranthene	ug/L		ND						ND	
Benzo(g,h,i)perylene	ug/L		ND						ND	
Benzo(k)fluoranthene	ug/L		ND						ND	
Beryllium	ug/L		ND						ND	
beta-Endosulfan	ug/L		ND						ND	
beta-Hexachlorocyclohexane	ug/L		ND						ND	
bis(2-Chloroethoxy) methane	ug/L		ND						ND	
bis(2-Chloroethyl) ether	ug/L		ND						ND	
bis(2-Chloroisopropyl) ether	ug/L		ND						ND	

Table 4.3
Palmdale Water Reclamation Plant
2022 Influent Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	Method	ML	MDL	RL
1,1,1-Trichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.16	0.50
1,1,2,2-Tetrachloroethane	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.08 - 0.19	0.50
1,1-Dichloroethene	ug/L				ND	ND	ND	EPA 624.1		0.21	0.50
1,2,4-Trichlorobenzene	ug/L				ND	ND	ND	EPA 625.1	5	0.51	20.0
1,2-Dichlorobenzene	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L				ND	ND	ND	EPA 624.1		0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L				ND	ND	ND	EPA 625.1	1	0.63	20.0
1,3-Dichlorobenzene	ug/L				ND	ND	ND	EPA 624.1		0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L				ND	ND	ND	Calculated			
1,4-Dichlorobenzene	ug/L				ND	ND	DNQ Est. Conc. 0.27	EPA 624.1		0.16 - 0.25	0.50
2,4,6-Trichlorophenol	ug/L				ND	ND	ND	EPA 625.1	10	0.64	20.0
2,4-Dichlorophenol	ug/L				ND	ND	ND	EPA 625.1	5	0.60	20.0
2,4-Dimethylphenol	ug/L				ND	ND	ND	EPA 625.1	2	0.44	20.0
2,4-Dinitrophenol	ug/L				ND	ND	ND	EPA 625.1	5	1.5	100
2,4-Dinitrotoluene	ug/L				ND	ND	ND	EPA 625.1	5	0.37	20.0
2,6-Dinitrotoluene	ug/L				ND	ND	ND	EPA 625.1	5	0.50	20.0
2-Chloroethyl vinyl ether (mixed)	ug/L				ND	0.26	0.52	EPA 624.1		0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L				ND	ND	ND	EPA 625.1	10	0.41	20.0
2-Chlorophenol	ug/L				ND	ND	ND	EPA 625.1	5	0.41	20.0
2-Methyl-4,6-dinitrophenol	ug/L				ND	ND	ND	EPA 625.1	5	1.3	100
2-Nitrophenol	ug/L				ND	ND	ND	EPA 625.1	10	0.31	20.0
3,3'-Dichlorobenzidine	ug/L				ND	ND	ND	EPA 625.1	5	0.54	20.0
3-Methyl-4-chlorophenol	ug/L				ND	ND	ND	EPA 625.1	1	0.69	20.0
4,4'-DDT	ug/L				ND	ND	ND	EPA 608.3		0.004	0.10
4,4-DDD	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
4,4-DDE	ug/L				ND	ND	ND	EPA 608.3		0.002	0.10
4-Bromophenyl phenyl ether	ug/L				ND	ND	ND	EPA 625.1	5	0.58	20.0
4-Chlorophenyl phenyl ether	ug/L				ND	ND	ND	EPA 625.1	5	0.63	20.0
4-Nitrophenol	ug/L				ND	ND	ND	EPA 625.1	10	1.6	100
Acenaphthene	ug/L				ND	ND	ND	EPA 625.1	1	0.50	20.0
Acenaphthylene	ug/L				ND	ND	ND	EPA 625.1	10	0.50	20.0
Acrolein	ug/L				ND	ND	ND	EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L				ND	ND	ND	EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L				ND	ND	ND	EPA 608.3		0.002	0.05
alpha-Endosulfan	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
alpha-Hexachlorocyclohexane (BHC)	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Ammonia as nitrogen	mg/L	41.2	37.5	50.5	26.0	39.3	50.5	SM 4500 NH3 H		0.030 - 0.069	1.00
Anthracene	ug/L				ND	ND	ND	EPA 625.1	10	0.56	20.0
Antimony	ug/L				0.62	0.62	0.62	EPA 200.8	0.5	0.12	0.50
Arsenic	ug/L				1.47	1.57	1.67	EPA 200.8	2	0.05 - 0.07	1.00
Benzene	ug/L				ND	ND	ND	EPA 624.1		0.06 - 0.09	0.50
Benzidine	ug/L				ND	ND	ND	EPA 625.1	5	0.77	100
Benzo(a)anthracene	ug/L				ND	ND	ND	EPA 625.1	5	0.46	20.0
Benzo(a)pyrene	ug/L				ND	ND	ND	EPA 625.1	10	0.54	20.0
Benzo(b)fluoranthene	ug/L				ND	ND	ND	EPA 625.1	10	0.61	20.0
Benzo(g,h,i)perylene	ug/L				ND	ND	ND	EPA 625.1	5	0.52	20.0
Benzo(k)fluoranthene	ug/L				ND	ND	ND	EPA 625.1	10	0.53	20.0
Beryllium	ug/L				ND	ND	ND	EPA 200.8	0.5	0.023 - 0.026	0.25
beta-Endosulfan	ug/L				ND	ND	ND	EPA 608.3		0.004	0.10
beta-Hexachlorocyclohexane	ug/L				ND	ND	ND	EPA 608.3		0.003	0.05
bis(2-Chloroethoxy) methane	ug/L				ND	ND	ND	EPA 625.1	5	0.28	20.0
bis(2-Chloroethyl) ether	ug/L				ND	ND	ND	EPA 625.1	1	0.27	20.0
bis(2-Chloroisopropyl) ether	ug/L				ND	ND	ND	EPA 625.1	2	0.25	20.0

Table 4.3
Palmdale Water Reclamation Plant
2022 Influent Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
bis(2-Ethylhexyl) phthalate	ug/L		ND						ND	
Bromodichloromethane	ug/L		ND					DNQ Est. Conc. 0.15		
Bromoform	ug/L		DNQ Est. Conc. 0.40					DNQ Est. Conc. 0.24		
Butyl benzyl phthalate	ug/L		ND						ND	
Cadmium	ug/L		DNQ Est. Conc. 0.072						DNQ Est. Conc. 0.11	
Carbon tetrachloride	ug/L		ND					ND		
Chlordane	ug/L		ND						ND	
Chlorobenzene	ug/L		ND					ND		
Chlorodibromomethane	ug/L		DNQ Est. Conc. 0.30					DNQ Est. Conc. 0.22		
Chloroethane	ug/L		ND					ND		
Chloroform	ug/L		0.99					1.4		
Chromium VI	ug/L		0.50						0.08	
Chromium, total	ug/L		5.93						3.93	
Chrysene	ug/L		ND						ND	
Copper	ug/L		29.5						76.8	
delta-Hexachlorocyclohexane	ug/L		ND						ND	
Di-n-butyl phthalate	ug/L		ND						ND	
Di-n-octyl phthalate	ug/L		ND						ND	
Dibenzo(a,h)anthracene	ug/L		ND						ND	
Dieldrin	ug/L		ND					ND		
Diesel range organics	ug/L		7,350		12,400			16,700		
Diethyl phthalate	ug/L		DNQ Est. Conc. 9.2						ND	
Dimethyl phthalate	ug/L		ND						ND	
Endosulfan sulfate	ug/L		ND						ND	
Endrin	ug/L		ND						ND	
Endrin aldehyde	ug/L		ND						DNQ Est. Conc. 0.03	
Ethylbenzene	ug/L		ND					ND		
Fluoranthene	ug/L		ND						ND	
Fluorene	ug/L		ND						ND	
Gasoline range organics	ug/L		DNQ Est. Conc. 41		DNQ Est. Conc. 28			DNQ Est. Conc. 39		
Heptachlor	ug/L		ND						ND	
Heptachlor epoxide	ug/L		ND							
Hexachlorobenzene	ug/L		ND						ND	
Hexachlorobutadiene	ug/L		ND						ND	
Hexachlorocyclopentadiene	ug/L		ND						ND	
Hexachloroethane	ug/L		ND							
Indeno (1,2,3-cd) pyrene	ug/L		ND						ND	
Isophorone	ug/L		ND						ND	
Lead	ug/L		0.51						0.75	
Lindane (gamma-Hexachlorocyclohexane)	ug/L		ND						ND	
Mercury	ug/L		0.061							
Methyl bromide (Bromomethane)	ug/L		ND					ND		
Methyl chloride (Chloromethane)	ug/L		ND					ND		
Methylene chloride	ug/L		ND					ND		
n-Nitrosodi-n-propylamine	ug/L		ND						ND	
n-Nitrosodimethylamine (NDMA)	ug/L		ND						ND	
n-Nitrosodiphenylamine	ug/L		ND						ND	
Naphthalene	ug/L		ND						ND	
Nickel	ug/L		1.84						2.41	
Nitrate as nitrogen	mg/L	0.054	0.055	0.032	0.055	0.074	DNQ Est. Conc. 0.092	DNQ Est. Conc. 0.162	DNQ Est. Conc. 0.094	DNQ Est. Conc. 0.132
Nitrobenzene	ug/L		ND						ND	
Pentachlorophenol	ug/L		ND						ND	
Phenanthrene	ug/L		ND						ND	
Phenol	ug/L		33.7						23.9	
Phenols	ug/L		0.103							
Pyrene	ug/L		ND						ND	

Table 4.3
Palmdale Water Reclamation Plant
2022 Influent Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	Method	ML	MDL	RL
bis(2-Ethylhexyl) phthalate	ug/L				ND	ND	ND	EPA 625.1	5	0.55	20.0
Bromodichloromethane	ug/L				ND	ND	DNQ Est. Conc. 0.15	EPA 624.1		0.11 - 0.15	0.50
Bromoform	ug/L				DNQ Est. Conc. 0.24	ND	DNQ Est. Conc. 0.40	EPA 624.1		0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L				ND	ND	ND	EPA 625.1	10	0.58	20.0
Cadmium	ug/L				DNQ Est. Conc. 0.072	ND	DNQ Est. Conc. 0.11	EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L				ND	ND	ND	EPA 624.1		0.18 - 0.34	0.50
Chlordane	ug/L				ND	ND	ND	EPA 608.3		0.02	0.50
Chlorobenzene	ug/L				ND	ND	ND	EPA 624.1		0.07 - 0.10	0.50
Chlorodibromomethane	ug/L				DNQ Est. Conc. 0.22	ND	DNQ Est. Conc. 0.30	EPA 624.1		0.11 - 0.13	0.50
Chloroethane	ug/L				ND	ND	ND	EPA 624.1		0.22 - 0.31	0.50
Chloroform	ug/L				0.99	1.2	1.4	EPA 624.1		0.08 - 0.35	0.50
Chromium VI	ug/L				0.08	0.29	0.50	EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total	ug/L				3.93	4.93	5.93	EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L				ND	ND	ND	EPA 625.1	10	0.41	20.0
Copper	ug/L				29.5	53.2	76.8	EPA 200.8	0.5	0.12 - 0.14	0.50
delta-Hexachlorocyclohexane	ug/L				ND	ND	ND	EPA 608.3		0.003	0.05
Di-n-butyl phthalate	ug/L				ND	ND	ND	EPA 625.1	10	0.59	20.0
Di-n-octyl phthalate	ug/L				ND	ND	ND	EPA 625.1	10	0.69	20.0
Dibenzo(a,h)anthracene	ug/L				ND	ND	ND	EPA 625.1	10	0.58	20.0
Dieldrin	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Diesel range organics	ug/L	22,900			7,350	14,838	22,900	SW8015 Diesel/Oil Organics		64	1000 - 2500
Diethyl phthalate	ug/L				ND	ND	DNQ Est. Conc. 9.2	EPA 625.1	2	0.42	20.0
Dimethyl phthalate	ug/L				ND	ND	ND	EPA 625.1	2	0.41	20.0
Endosulfan sulfate	ug/L				ND	ND	ND	EPA 608.3		0.004	0.10
Endrin	ug/L				ND	ND	ND	EPA 608.3		0.004	0.10
Endrin aldehyde	ug/L				ND	ND	DNQ Est. Conc. 0.03	EPA 608.3		0.003	0.10
Ethylbenzene	ug/L				ND	ND	ND	EPA 624.1		0.11 - 0.15	0.50
Fluoranthene	ug/L				ND	ND	ND	EPA 625.1	1	0.69	20.0
Fluorene	ug/L				ND	ND	ND	EPA 625.1	10	0.58	20.0
Gasoline range organics	ug/L	DNQ Est. Conc. 37			DNQ Est. Conc. 28	ND	DNQ Est. Conc. 41	SW8015 Gas-Range Organics		15	50
Heptachlor	ug/L				ND	ND	ND	EPA 608.3		0.002	0.10
Heptachlor epoxide	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Hexachlorobenzene	ug/L				ND	ND	ND	EPA 625.1	1	0.47	20.0
Hexachlorobutadiene	ug/L				ND	ND	ND	EPA 625.1	1	0.96	20.0
Hexachlorocyclopentadiene	ug/L				ND	ND	ND	EPA 625.1	5	2.0	100
Hexachloroethane	ug/L				ND	ND	ND	EPA 625.1	1	0.81	20.0
Indeno (1,2,3-cd) pyrene	ug/L				ND	ND	ND	EPA 625.1	10	0.53	20.0
Isophorone	ug/L				ND	ND	ND	EPA 625.1	1	0.28	20.0
Lead	ug/L				0.51	0.63	0.75	EPA 200.8	0.5	0.01 - 0.02	0.25
Lindane (gamma-Hexachlorocyclohexane)	ug/L				ND	ND	ND	EPA 608.3		0.003	0.10
Mercury	ug/L				0.061	0.061	0.061	EPA 245.1	0.5	0.019	0.040
Methyl bromide (Bromomethane)	ug/L				ND	ND	ND	EPA 624.1		0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L				ND	ND	ND	EPA 624.1		0.19 - 0.41	0.50
Methylene chloride	ug/L				ND	ND	ND	EPA 624.1		0.16 - 0.46	0.50
n-Nitrosodi-n-propylamine	ug/L				ND	ND	ND	EPA 625.1	5	0.0006 - 0.36	0.020 - 20.0
n-Nitrosodimethylamine (NDMA)	ug/L				ND	ND	ND	EPA 625.1	5	0.0005 - 0.50	0.020 - 100
n-Nitrosodiphenylamine	ug/L				ND	ND	ND	EPA 625.1	1	0.64	20.0
Naphthalene	ug/L				ND	ND	ND	EPA 625.1	1	0.20	20.0
Nickel	ug/L				1.84	2.13	2.41	EPA 200.8	1	0.08 - 0.50	1.00
Nitrate as nitrogen	mg/L	DNQ Est. Conc. 0.076	DNQ Est. Conc. 0.091	DNQ Est. Conc. 0.063	DNQ Est. Conc. 0.063	0.023	0.074	Calculated			
Nitrobenzene	ug/L				ND	ND	ND	EPA 625.1	1	0.31	20.0
Pentachlorophenol	ug/L				ND	ND	ND	EPA 625.1	5	0.82	20.0
Phenanthrene	ug/L				ND	ND	ND	EPA 625.1	5	0.59	20.0
Phenol	ug/L				23.9	28.8	33.7	EPA 625.1	1	0.24	20.0
Phenols	ug/L				0.103	0.103	0.103	EPA 420.1		0.003	0.060
Pyrene	ug/L				ND	ND	ND	EPA 625.1	10	0.60	20.0

Table 4.3
Palmdale Water Reclamation Plant
2022 Influent Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
Selenium	ug/L		1.22						DNQ Est. Conc. 0.86	
Silver	ug/L		DNQ Est. Conc. 0.12						DNQ Est. Conc. 0.10	
Tetrachloroethene	ug/L		ND					ND		
Thallium	ug/L		ND						ND	
Toluene	ug/L		0.64					0.96		
Total BOD5	mg/L	383	328	349	346	345	373	367	325	290
Total COD	mg/L	901	874	861	905	878	877	816	794	900
Total cyanide	ug/L		DNQ Est. Conc. 3.87							
Total dissolved solids	mg/L	542						599		
Total Kjeldahl Nitrogen (TKN)	mg/L	54.8	62.2	73.2	60.2	52.0	54.0	68.5	55.8	84.0
Total trihalomethanes	ug/L		0.99					1.4		
Toxaphene	ug/L		ND						ND	
trans-1,2-Dichloroethene	ug/L		ND					ND		
Trichloroethene	ug/L		ND					ND		
Vinyl chloride	ug/L		ND					ND		
Zinc	ug/L		125						308	

Table 4.3
Palmdale Water Reclamation Plant
2022 Influent Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	Method	ML	MDL	RL
Selenium	ug/L				DNQ Est. Conc. 0.86	0.61	1.22	EPA 200.8	2	0.04	1.00
Silver	ug/L				DNQ Est. Conc. 0.10	ND	DNQ Est. Conc. 0.12	EPA 200.8	0.25	0.02	0.20
Tetrachloroethene	ug/L				ND	ND	ND	EPA 624.1		0.16 - 0.18	0.50
Thallium	ug/L				ND	ND	ND	EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L				0.64	0.80	0.96	EPA 624.1		0.04 - 0.15	0.50
Total BOD5	mg/L	319	321	339	290	340	383	SM 5210B			120
Total COD	mg/L	777	717	822	717	844	905	SM 5220D (std)		8.8 - 9.0	25 - 125
Total cyanide	ug/L				DNQ Est. Conc. 3.87	ND	DNQ Est. Conc. 3.87	SM 4500 CN E	5	2.00	5.00
Total dissolved solids	mg/L				542	571	599	SM 2540C			25.0
Total Kjeldahl Nitrogen (TKN)	mg/L	64.0	64.2	74.2	52.0	63.9	84.0	EPA 351.2		0.132	5.00
Total trihalomethanes	ug/L				0.99	1.2	1.4	Calculated			
Toxaphene	ug/L				ND	ND	ND	EPA 608.3		0.05	5.0
trans-1,2-Dichloroethene	ug/L				ND	ND	ND	EPA 624.1		0.06 - 0.20	0.50
Trichloroethene	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.15	0.50
Vinyl chloride	ug/L				ND	ND	ND	EPA 624.1		0.25 - 0.37	0.50
Zinc	ug/L				125	217	308	EPA 200.8	1	0.92 - 0.95	1.00 - 20.0

Palmdale WRP Effluent Monitoring

Table 4.4
Palmdale Water Reclamation Plant
2022 Tertiary Effluent Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
1,1,1-Trichloroethane	ug/L		ND					ND		
1,1,2,2-Tetrachloroethane	ug/L		ND					ND		
1,1,2-Trichloroethane	ug/L		ND					ND		
1,1-Dichloroethane	ug/L		ND					ND		
1,1-Dichloroethene	ug/L		ND					ND		
1,2,4-Trichlorobenzene	ug/L		ND					ND		
1,2-Dichlorobenzene	ug/L		ND					ND		
1,2-Dichloroethane	ug/L		ND					ND		
1,2-Dichloropropane	ug/L		ND					ND		
1,2-Diphenylhydrazine	ug/L		ND					ND		
1,3-Dichlorobenzene	ug/L		ND					ND		
1,3-Dichloropropene (Total)	ug/L		ND					0.09		
1,4-Dichlorobenzene	ug/L		ND					DNQ Est. Conc. 0.16		
2,4,6-Trichlorophenol	ug/L		ND					ND		
2,4-Dichlorophenol	ug/L		ND					ND		
2,4-Dimethylphenol	ug/L		ND					ND		
2,4-Dinitrophenol	ug/L		ND					ND		
2,4-Dinitrotoluene	ug/L		ND					ND		
2,6-Dinitrotoluene	ug/L		ND					ND		
2-Chloroethyl vinyl ether (mixed)	ug/L		ND					ND		
2-Chloronaphthalene	ug/L		ND					ND		
2-Chlorophenol	ug/L		ND					ND		
2-Methyl-4,6-dinitrophenol	ug/L		ND					ND		
2-Nitrophenol	ug/L		ND					ND		
3,3'-Dichlorobenzidine	ug/L		ND					ND		
3-Methyl-4-chlorophenol	ug/L		ND					ND		
4,4'-DDD	ug/L		ND					ND		
4,4'-DDE	ug/L		ND					ND		
4,4'-DDT	ug/L		ND					ND		
4-Bromophenyl phenyl ether	ug/L		ND					ND		
4-Chlorophenyl phenyl ether	ug/L		ND					ND		
4-Nitrophenol	ug/L		ND					ND		
Acenaphthene	ug/L		ND					ND		
Acenaphthylene	ug/L		ND					ND		
Acrolein	ug/L		ND					ND		
Acrylonitrile	ug/L		ND					ND		
Aldrin	ug/L		ND					ND		
alpha-Endosulfan	ug/L		ND					ND		
alpha-Hexachlorocyclohexane (BHC)	ug/L		ND					ND		
Ammonia as nitrogen	mg/L	1.30	3.17	3.62	1.54	1.41	1.12	0.930	1.00	2.36
Anthracene	ug/L		ND					ND		
Antimony	ug/L		0.54					0.56		
Arsenic	ug/L		DNQ Est. Conc. 0.91					DNQ Est. Conc. 0.75		
Benzene	ug/L		ND					ND		
Benzidine	ug/L		ND					ND		
Benzo(a)anthracene	ug/L		ND					ND		
Benzo(a)pyrene	ug/L		ND					ND		
Benzo(b)fluoranthene	ug/L		ND					ND		
Benzo(g,h,i)perylene	ug/L		ND					ND		
Benzo(k)fluoranthene	ug/L		ND					ND		
Beryllium	ug/L		ND					ND		
beta-Endosulfan	ug/L		ND					ND		
beta-Hexachlorocyclohexane	ug/L		ND					ND		
bis(2-Chloroethoxy) methane	ug/L		ND					ND		
bis(2-Chloroethyl) ether	ug/L		ND					ND		
bis(2-Chloroisopropyl) ether	ug/L		ND					ND		
bis(2-Ethylhexyl) phthalate	ug/L		ND		ND			ND		
BOD5, filtered	mg/L	ND	ND	ND	4.2	ND	ND	4.6	ND	ND
Bromodichloromethane	ug/L		DNQ Est. Conc. 0.42		ND			1.2		
Bromoform	ug/L		ND		ND			ND		
Butyl benzyl phthalate	ug/L		ND					ND		
Cadmium	ug/L		ND					ND		
Calcium	mg/L		36.1		39.2			42.0		
Carbon tetrachloride	ug/L		ND					ND		

Table 4.4
Palmdale Water Reclamation Plant
2022 Tertiary Effluent Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	Limit		Method	ML	MDL	RL
								Max Daily	Monthly Average				
1,1,1-Trichloroethane	ug/L				ND	ND	ND			EPA 624.1		0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L				ND	ND	ND			EPA 624.1		0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L				ND	ND	ND			EPA 624.1		0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L				ND	ND	ND			EPA 624.1		0.08 - 0.19	0.50
1,1-Dichloroethene	ug/L				ND	ND	ND			EPA 624.1		0.21	0.50
1,2,4-Trichlorobenzene	ug/L				ND	ND	ND			EPA 625.1	5	0.51	1.0
1,2-Dichlorobenzene	ug/L				ND	ND	ND			EPA 624.1		0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L				ND	ND	ND			EPA 624.1		0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L				ND	ND	ND			EPA 624.1		0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L				ND	ND	ND			EPA 625.1	1	0.63	1.0
1,3-Dichlorobenzene	ug/L				ND	ND	ND			EPA 624.1		0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L				ND	0.05	0.09			Calculated			
1,4-Dichlorobenzene	ug/L				ND	ND	DNQ Est. Conc. 0.16			EPA 624.1		0.16 - 0.25	0.50
2,4,6-Trichlorophenol	ug/L				ND	ND	ND			EPA 625.1	10	0.64	1.0
2,4-Dichlorophenol	ug/L				ND	ND	ND			EPA 625.1	5	0.60	1.0
2,4-Dimethylphenol	ug/L				ND	ND	ND			EPA 625.1	2	0.44	1.0
2,4-Dinitrophenol	ug/L				ND	ND	ND			EPA 625.1	5	1.5	5.0
2,4-Dinitrotoluene	ug/L				ND	ND	ND			EPA 625.1	5	0.37	1.0
2,6-Dinitrotoluene	ug/L				ND	ND	ND			EPA 625.1	5	0.50	1.0
2-Chloroethyl vinyl ether (mixed)	ug/L				ND	ND	ND			EPA 624.1		0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L				ND	ND	ND			EPA 625.1	10	0.41	1.0
2-Chlorophenol	ug/L				ND	ND	ND			EPA 625.1	5	0.41	1.0
2-Methyl-4,6-dinitrophenol	ug/L				ND	ND	ND			EPA 625.1	5	1.3	5.0
2-Nitrophenol	ug/L				ND	ND	ND			EPA 625.1	10	0.31	1.0
3,3'-Dichlorobenzidine	ug/L				ND	ND	ND			EPA 625.1	5	0.54	1.0
3-Methyl-4-chlorophenol	ug/L				ND	ND	ND			EPA 625.1	1	0.69	1.0
4,4'-DDD	ug/L				ND	ND	ND			EPA 608.3	0.05	0.003	0.01
4,4'-DDE	ug/L				ND	ND	ND			EPA 608.3	0.05	0.002	0.01
4,4'-DDT	ug/L				ND	ND	ND			EPA 608.3	0.05	0.004	0.01
4-Bromophenyl phenyl ether	ug/L				ND	ND	ND			EPA 625.1	5	0.58	1.0
4-Chlorophenyl phenyl ether	ug/L				ND	ND	ND			EPA 625.1	5	0.63	1.0
4-Nitrophenol	ug/L				ND	ND	ND			EPA 625.1	10	1.6	5.0
Acenaphthene	ug/L				ND	ND	ND			EPA 625.1	1	0.50	1.0
Acenaphthylene	ug/L				ND	ND	ND			EPA 625.1	10	0.50	1.0
Acrolein	ug/L				ND	ND	ND			EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L				ND	ND	ND			EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L				ND	ND	ND			EPA 608.3	0.005	0.002	0.005
alpha-Endosulfan	ug/L				ND	ND	ND			EPA 608.3	0.02	0.003	0.01
alpha-Hexachlorocyclohexane (BHC)	ug/L				ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Ammonia as nitrogen	mg/L	1.14	1.88	1.70	0.93	1.76	3.62			SM 4500 NH3 H		0.030 - 0.069	0.100
Anthracene	ug/L				ND	ND	ND			EPA 625.1	10	0.56	1.0
Antimony	ug/L				0.54	0.55	0.56			EPA 200.8	0.5	0.12	0.50
Arsenic	ug/L				DNQ Est. Conc. 0.75	ND	DNQ Est. Conc. 0.91			EPA 200.8	2	0.05 - 0.07	1.00
Benzene	ug/L				ND	ND	ND			EPA 624.1		0.06 - 0.09	0.50
Benzidine	ug/L				ND	ND	ND			EPA 625.1	5	0.77	5.0
Benzo(a)anthracene	ug/L				ND	ND	ND			EPA 625.1	5	0.46	1.0
Benzo(a)pyrene	ug/L				ND	ND	ND			EPA 610	10	0.013	0.020
Benzo(b)fluoranthene	ug/L				ND	ND	ND			EPA 610	10	0.015	0.020
Benzo(g,h,i)perylene	ug/L				ND	ND	ND			EPA 625.1	5	0.52	1.0
Benzo(k)fluoranthene	ug/L				ND	ND	ND			EPA 610	10	0.014	0.020
Beryllium	ug/L				ND	ND	ND			EPA 200.8	0.5	0.023 - 0.026	0.25
beta-Endosulfan	ug/L				ND	ND	ND			EPA 608.3	0.01	0.004	0.01
beta-Hexachlorocyclohexane	ug/L				ND	ND	ND			EPA 608.3	0.05	0.003	0.005
bis(2-Chloroethoxy) methane	ug/L				ND	ND	ND			EPA 625.1	5	0.28	1.0
bis(2-Chloroethyl) ether	ug/L				ND	ND	ND			EPA 625.1	1	0.27	1.0
bis(2-Chloroisopropyl) ether	ug/L				ND	ND	ND			EPA 625.1	2	0.25	1.0
bis(2-Ethylhexyl) phthalate	ug/L	ND			ND	ND	ND			EPA 625.1	5	0.55	1.0
BOD5, filtered	mg/L	ND	ND	ND	ND	ND	4.6	30	10	SM 5210B			3
Bromodichloromethane	ug/L	1.1			ND	0.58	1.2			EPA 624.1		0.11 - 0.15	0.50
Bromoform	ug/L	ND			ND	ND	ND			EPA 624.1		0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L				ND	ND	ND			EPA 625.1	10	0.58	1.0
Cadmium	ug/L				ND	ND	ND			EPA 200.8	0.25	0.030 - 0.035	0.20
Calcium	mg/L	40.4			36.1	39.4	42.0			EPA 200.8		0.016	0.020
Carbon tetrachloride	ug/L				ND	ND	ND			EPA 624.1		0.18 - 0.34	0.50

Table 4.4
Palmdale Water Reclamation Plant
2022 Tertiary Effluent Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
Chemical oxygen demand (COD)	mg/L	ND	DNQ Est. Conc. 15.1	ND	DNQ Est. Conc. 14.8	DNQ Est. Conc. 19.7	ND	DNQ Est. Conc. 20.0	DNQ Est. Conc. 12.4	DNQ Est. Conc. 14.9
Chlordane	ug/L		ND					ND		
Chloride	mg/L		127		144			167		
Chlorobenzene	ug/L		ND					ND		
Chlorodibromomethane	ug/L		ND		ND			DNQ Est. Conc. 0.19		
Chloroethane	ug/L		ND					ND		
Chloroform	ug/L		3.2		1.2			6.9		
Chromium VI	ug/L		0.12					0.16		
Chromium, total	ug/L		1.74					1.06		
Chrysene	ug/L		ND					ND		
Copper	ug/L		1.51					2.24		
delta-Hexachlorocyclohexane	ug/L		ND					ND		
Di-n-butyl phthalate	ug/L		ND					ND		
Di-n-octyl phthalate	ug/L		ND					ND		
Dibenzo(a,h)anthracene	ug/L		ND					ND		
Dibromoacetic acid	ug/L		DNQ Est. Conc. 0.52		DNQ Est. Conc. 0.41			DNQ Est. Conc. 0.67		
Dichloroacetic acid	ug/L		13		11			16		
Dieldrin	ug/L		ND					ND		
Diesel range organics	ug/L		151		152			124		
Diethyl phthalate	ug/L		ND					ND		
Dimethyl phthalate	ug/L		ND					ND		
Dissolved oxygen	mg/L	8.1	7.9	7.9	7.4	7.3	7.2	6.9	6.8	6.6
Endosulfan sulfate	ug/L		ND					ND		
Endrin	ug/L		ND					ND		
Endrin aldehyde	ug/L		ND					ND		
Ethylbenzene	ug/L		ND					ND		
Fluoranthene	ug/L		ND					ND		
Fluorene	ug/L		ND					ND		
Gasoline range organics	ug/L		ND		ND			ND		
Heptachlor	ug/L		ND					ND		
Heptachlor epoxide	ug/L		ND					DNQ Est. Conc. 0.003		
Hexachlorobenzene	ug/L		ND					ND		
Hexachlorobutadiene	ug/L		ND					ND		
Hexachlorocyclopentadiene	ug/L		ND					ND		
Hexachloroethane	ug/L		ND					ND		
Indeno (1,2,3-cd) pyrene	ug/L		ND					ND		
Isophorone	ug/L		ND					ND		
Lead	ug/L		DNQ Est. Conc. 0.13					DNQ Est. Conc. 0.08		
Lindane (gamma-Hexachlorocyclohexane)	ug/L		ND					ND		
Magnesium	mg/L		5.0		6.9			7.1		
Mercury	ug/L		0.00081					0.0014		
Methyl bromide (Bromomethane)	ug/L		ND					ND		
Methyl chloride (Chloromethane)	ug/L		ND					ND		
Methyl tert-butyl ether (MTBE)	ug/L		ND					ND		
Methylene chloride	ug/L		ND					ND		
Monobromoacetic acid	ug/L		ND		ND			ND		
Monochloroacetic acid	ug/L		3.5		2.1			3.4		
n-Nitrosodi-n-propylamine	ug/L		ND					ND		
n-Nitrosodimethylamine (NDMA)	ug/L		0.39		0.47			1.1		
n-Nitrosodiphenylamine	ug/L		ND					ND		
Naphthalene	ug/L		ND					ND		
Nickel	ug/L		DNQ Est. Conc. 0.93					1.26		
Nitrate as nitrogen	mg/L	2.31	3.24	2.77	1.76	1.86	2.35	1.80	1.69	3.12
Nitrite as nitrogen	mg/L	0.107	0.347	0.419	0.284	0.328	0.107	0.050	ND	0.171
Nitrobenzene	ug/L		ND					ND		
Pentachlorophenol	ug/L		ND					ND		
pH	SU	7.2	7.3	7.3	7.3	7.2	7.2	7.2	7.2	7.2
Phenanthrene	ug/L		ND					ND		
Phenol	ug/L		ND					ND		
Phenols	ug/L		DNQ Est. Conc. 0.004					DNQ Est. Conc. 0.003		
Pyrene	ug/L		ND					ND		
Selenium	ug/L		DNQ Est. Conc. 0.45					DNQ Est. Conc. 0.30		
Silver	ug/L		ND					ND		
Sodium	mg/L		121		125			139		

Table 4.4
Palmdale Water Reclamation Plant
2022 Tertiary Effluent Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	Limit		Method	ML	MDL	RL
								Max Daily	Monthly Average				
Chemical oxygen demand (COD)	mg/L	DNQ Est. Conc. 17.4	ND	DNQ Est. Conc. 17.9	ND	ND	DNQ Est. Conc. 20.0			SM 5220D (std)		8.8 - 9.0	25.0
Chlordane	ug/L				ND	ND	ND			EPA 608.3	0.1	0.02	0.05
Chloride	mg/L	159			127	149	167			EPA 300.0		0.024 - 0.144	10.0
Chlorobenzene	ug/L				ND	ND	ND			EPA 624.1		0.07 - 0.10	0.50
Chlorodibromomethane	ug/L	DNQ Est. Conc. 0.19			ND	ND	DNQ Est. Conc. 0.19			EPA 624.1		0.11 - 0.13	0.50
Chloroethane	ug/L				ND	ND	ND			EPA 624.1		0.22 - 0.31	0.50
Chloroform	ug/L	4.4			1.2	3.9	6.9			EPA 624.1		0.08 - 0.35	0.50
Chromium VI	ug/L				0.12	0.14	0.16			EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total	ug/L				1.06	1.40	1.74			EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L				ND	ND	ND			EPA 610	10	0.014	0.020
Copper	ug/L				1.51	1.88	2.24			EPA 200.8	0.5	0.12 - 0.14	0.50
delta-Hexachlorocyclohexane	ug/L				ND	ND	ND			EPA 608.3	0.005	0.003	0.005
Di-n-butyl phthalate	ug/L				ND	ND	ND			EPA 625.1	10	0.59	1.0
Di-n-octyl phthalate	ug/L				ND	ND	ND			EPA 625.1	10	0.69	1.0
Dibenzo(a,h)anthracene	ug/L				ND	ND	ND			EPA 610	10	0.014	0.020
Dibromoacetic acid	ug/L	DNQ Est. Conc. 0.71			DNQ Est. Conc. 0.41	ND	DNQ Est. Conc. 0.71			EPA 552.3		0.28 - 0.32	1.0
Dichloroacetic acid	ug/L	12			11	13	16			EPA 552.3		0.29 - 0.37	1.0
Dieldrin	ug/L				ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Diesel range organics	ug/L	138			124	141	152			SW8015 Diesel/Oil Organics		64	100
Diethyl phthalate	ug/L				ND	ND	ND			EPA 625.1	2	0.42	1.0
Dimethyl phthalate	ug/L				ND	ND	ND			EPA 625.1	2	0.41	1.0
Dissolved oxygen	mg/L	7.0	7.2	7.5	6.6	7.3	8.1	≥1		HACH 10360 LDO			0.2
Endosulfan sulfate	ug/L				ND	ND	ND			EPA 608.3	0.05	0.004	0.01
Endrin	ug/L				ND	ND	ND			EPA 608.3	0.01	0.004	0.01
Endrin aldehyde	ug/L				ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Ethylbenzene	ug/L				ND	ND	ND			EPA 624.1		0.11 - 0.15	0.50
Fluoranthene	ug/L				ND	ND	ND			EPA 625.1	1	0.69	1.0
Fluorene	ug/L				ND	ND	ND			EPA 625.1	10	0.58	1.0
Gasoline range organics	ug/L	ND			ND	ND	ND			SW8015 Gas-Range Organics		15	50
Heptachlor	ug/L				ND	ND	ND			EPA 608.3	0.01	0.002	0.01
Heptachlor epoxide	ug/L				ND	ND	DNQ Est. Conc. 0.003			EPA 608.3	0.01	0.003	0.01
Hexachlorobenzene	ug/L				ND	ND	ND			EPA 625.1	1	0.47	1.0
Hexachlorobutadiene	ug/L				ND	ND	ND			EPA 625.1	1	0.96	1.0
Hexachlorocyclopentadiene	ug/L				ND	ND	ND			EPA 625.1	5	2.0	5.0
Hexachloroethane	ug/L				ND	ND	ND			EPA 625.1	1	0.81	1.0
Indeno (1,2,3-cd) pyrene	ug/L				ND	ND	ND			EPA 610	10	0.013	0.020
Isophorone	ug/L				ND	ND	ND			EPA 625.1	1	0.28	1.0
Lead	ug/L				DNQ Est. Conc. 0.08	ND	DNQ Est. Conc. 0.13			EPA 200.8	0.5	0.01 - 0.02	0.25
Lindane (gamma-Hexachlorocyclohexane)	ug/L				ND	ND	ND			EPA 608.3	0.02	0.003	0.01
Magnesium	mg/L	7.8			5.0	6.7	7.8			EPA 200.8		0.002 - 0.004	0.020
Mercury	ug/L				0.00081	0.0011	0.0014			EPA 1631E		0.00010	0.00050
Methyl bromide (Bromomethane)	ug/L				ND	ND	ND			EPA 624.1		0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L				ND	ND	ND			EPA 624.1		0.19 - 0.41	0.50
Methyl tert-butyl ether (MTBE)	ug/L				ND	ND	ND			EPA 624.1		0.08 - 0.40	0.50
Methylene chloride	ug/L				ND	ND	ND			EPA 624.1		0.16 - 0.46	0.50
Monobromoacetic acid	ug/L	1.6			ND	0.40	1.6			EPA 552.3		0.34 - 2.0	1.0 - 2.0
Monochloroacetic acid	ug/L	3.0			2.1	3.0	3.5			EPA 552.3		0.31 - 0.34	2.0
n-Nitrosodi-n-propylamine	ug/L				ND	ND	ND			EPA 625.1	5	0.0006 - 0.36	0.010 - 1.0
n-Nitrosodimethylamine (NDMA)	ug/L	1.2			0.39	0.79	1.2			EPA 1625B (Modified)		0.0005	0.010
n-Nitrosodiphenylamine	ug/L				ND	ND	ND			EPA 625.1	1	0.0013 - 0.64	0.050 - 1.0
Naphthalene	ug/L				ND	ND	ND			EPA 625.1	1	0.20	1.0
Nickel	ug/L				DNQ Est. Conc. 0.93	0.63	1.26			EPA 200.8	1	0.08 - 0.50	1.00
Nitrate as nitrogen	mg/L	2.41	2.26	4.01	1.69	2.46	4.01			Calculated			
Nitrite as nitrogen	mg/L	0.067	0.220	0.286	ND	0.199	0.419			SM 4500 NO3 F		0.012 - 0.018	0.030
Nitrobenzene	ug/L				ND	ND	ND			EPA 625.1	1	0.31	1.0
Pentachlorophenol	ug/L				ND	ND	ND			EPA 625.1	5	0.82	1.0
pH	SU	7.5	7.3	7.1	7.1	7.3	7.5	6<pH<9		SM 4500 H+ B			
Phenanthrene	ug/L				ND	ND	ND			EPA 625.1	5	0.59	1.0
Phenol	ug/L				ND	ND	ND			EPA 625.1	1	0.24	1.0
Phenols	ug/L				DNQ Est. Conc. 0.003	ND	DNQ Est. Conc. 0.004			EPA 420.1		0.003	0.006
Pyrene	ug/L				ND	ND	ND			EPA 625.1	10	0.60	1.0
Selenium	ug/L				DNQ Est. Conc. 0.30	ND	DNQ Est. Conc. 0.45			EPA 200.8	2	0.04	1.00
Silver	ug/L				ND	ND	ND			EPA 200.8	0.25	0.02	0.20
Sodium	mg/L	133			121	130	139			EPA 200.8		0.053 - 0.067	1.0 - 4.0

Table 4.4
Palmdale Water Reclamation Plant
2022 Tertiary Effluent Monitoring Results

Parameter	Units	January	February	March	April	May	June	July	August	September
Sulfate	mg/L		73.8		88.0			90.0		
Surfactant (MBAS)	mg/L	DNQ Est. Conc. 0.09			0.10			0.10		
Temperature	°C	20.2	19.9	20.3	22.5	24.1	27.3	28.2	28.5	27.6
Tetrachloroethene	ug/L		ND					ND		
Thallium	ug/L		ND					ND		
Toluene	ug/L		ND					DNQ Est. Conc. 0.05		
Total coliform	# /100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total cyanide	ug/L	ND							ND	
Total dissolved solids	mg/L	479			536			521		
Total haloacetic acids	ug/L		22		17			26		
Total Kjeldahl Nitrogen (TKN)	mg/L	2.22	5.20	5.40	3.55	4.08	2.78	3.05	1.68	5.20
Total Organic Carbon	mg/L		6.56		7.09			7.65		
Total trihalomethanes	ug/L		3.2		1.2			8.1		
Toxaphene	ug/L		ND					ND		
trans-1,2-Dichloroethene	ug/L		ND					ND		
Trichloroacetic acid	ug/L		4.3		3.9			6.3		
Trichloroethene	ug/L		ND					ND		
Vinyl chloride	ug/L		ND					ND		
Zinc	ug/L		79.4					120		

Table 4.4
Palmdale Water Reclamation Plant
2022 Tertiary Effluent Monitoring Results

Parameter	Units	October	November	December	Minimum	Average	Maximum	Limit		Method	ML	MDL	RL
								Max Daily	Monthly Average				
Sulfate	mg/L	84.9			73.8	84.2	90.0			EPA 300.0		0.040 - 0.161	2.50
Surfactant (MBAS)	mg/L	DNQ Est. Conc. 0.08			DNQ Est. Conc. 0.08	0.05	0.10	2	1	SM 5540C		0.02 - 0.05	0.10
Temperature	°C	26.2	22.5	20.7	19.9	24.0	28.5			EPA 170.1 (oC)			
Tetrachloroethene	ug/L				ND	ND	ND			EPA 624.1		0.16 - 0.18	0.50
Thallium	ug/L				ND	ND	ND			EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L				ND	ND	DNQ Est. Conc. 0.05			EPA 624.1		0.04 - 0.15	0.50
Total coliform[1]	# /100mL	ND	ND	ND	ND	ND	ND	23/240		SM 9222B			1
Total cyanide	ug/L				ND	ND	ND			SM 4500 CN E	5	2.00	5.00
Total dissolved solids	mg/L	524			479	515	536			SM 2540C			25.0
Total haloacetic acids	ug/L	20			17	21	26			Calculated			
Total Kjeldahl Nitrogen (TKN)	mg/L	2.54	3.15	3.62	1.68	3.54	5.4			EPA 351.2		0.132	0.200 - 1.00
Total Organic Carbon	mg/L	5.97			5.97	6.82	7.65			SM 5310C		0.15 - 0.18	0.50 - 2.50
Total trihalomethanes	ug/L	5.5			1.2	4.5	8.1			Calculated			
Toxaphene	ug/L				ND	ND	ND			EPA 608.3	0.5	0.05	0.5
trans-1,2-Dichloroethene	ug/L				ND	ND	ND			EPA 624.1		0.06 - 0.20	0.50
Trichloroacetic acid	ug/L	3.9			3.9	4.6	6.3			EPA 552.3		0.28 - 0.29	1.0
Trichloroethene	ug/L				ND	ND	ND			EPA 624.1		0.12 - 0.15	0.50
Vinyl chloride	ug/L				ND	ND	ND			EPA 624.1		0.25 - 0.37	0.50
Zinc	ug/L				79.4	99.7	120			EPA 200.8	1	0.92 - 0.95	1.00

Notes:

[1]Total Coliform: this table displays average monthly total coliform values. A maximum total coliform value of TNTC (too numerous to count) was detected in June. The effluent total coliform result of TNTC is likely not reflective of actual conditions and should be considered invalid due to the suspected sample contamination. Additional details provided in Chapter 1, Section 1.4 Monitoring and Reporting Discussion.

Palmdale WRP Biosolids Monitoring

NPDES ID: CAL000446
Biosolids Status: Active
Facility Name: LACSD - PALMDALE WRP
P.O. BOX 4998 WHITTIER, CA 90607

View Annual Report

NPDES FORM 6100-035		UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 BIOSOLIDS ANNUAL REPORT	Form Approved. OMB No. 2040-0004. Exp. 03/31/2022

EPA's sewage sludge regulations require certain publicly owned treatment works (POTWs) and Class I sewage sludge management facilities to submit to a Sewage Sludge (Biosolids) Annual Report (see 40 CFR 503.18 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_118), 503.28 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_128), 503.48 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_148)). Facilities that must submit a Sewage Sludge (Biosolids) Annual Report include POTWs with a design flow rate equal to or greater than one million gallons per day, POTWs that serve 10,000 people or more, Class I Sludge Management Facilities (as defined by 40 CFR 503.9 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19)), and facilities otherwise required to file this report (e.g., permit condition, enforcement action, state law). This is the electronic form for Sewage Sludge (Biosolids) Annual Report filers to use if they are located in one of the states, tribes, or territories (https://www.epa.gov/npdes/npdes-state-program-information) where EPA administers the Federal biosolids program.

For the purposes of this form, the term 'sewage sludge (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19)' also refers to the material that is commonly referred to as 'biosolids'. EPA does not have a regulatory definition for biosolids but this material is commonly referred to as sewage sludge that is placed on, or applied to the land to use the beneficial properties of the material as a soil amendment, conditioner, or fertilizer. EPA's use of the term 'biosolids' in this form is to confirm that information about beneficially used sewage sludge (a.k.a. biosolids) should be reported on this form.

Public Availability of Information Submitted on and with General Permit Reports

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk (NPDESeReporting@epa.gov (mailto:NPDESereporting@epa.gov)) for further guidance.

Please note that EPA may contact you after you submit this report for more information regarding your sewage sludge management program.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with EPA regulations (40 CFR 503.18, 503.28, and 503.48). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 3 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden including through the use of automated collection techniques to the Director, Regulatory Support Division, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Program Information

Please select all of the following that apply to your obligation to submit a Sewage Sludge (Biosolids) Annual Report in compliance with 40 CFR part 503. The facility is:

- a Class I Sludge Management Facility as defined in 40 CFR 503.9
- a POTW with a design flow rate equal to or greater than one million gallons per day
- a POTW that serves 10,000 people or more

In the reporting period, did you manage your sewage sludge or biosolids using any of the following management practices: land application, surface disposal, or incineration?

☐ YES ☑ NO

Unless otherwise required to report (e.g., permit condition, enforcement action, state law), this facility is not required to submit a Sewage Sludge (Biosolids) Annual Report. If you are required to submit this report please select "Yes (Required to Submit)" below. If you wish to voluntarily complete and submit this report please select "Yes (Voluntary Submission)" below. Otherwise, please select "No (Exit Form)" to exit this form or simply close your internet browser. Please note that all Sewage Sludge (Biosolids) Annual Report submissions are made public by EPA through its web pages:

Yes (Voluntary Submission)

If your facility is a POTW, please provide the estimated total amount of sewage sludge produced at your facility for the reporting period (in dry metric tons). If your facility is not a POTW, please provide the estimated total amount of biosolids produced at your facility for the reporting period (in dry metric tons).

1921

Reporting Period Start Date: 01/01/2022 **Reporting Period End Date:** 12/31/2022

Treatment Processes

Processes to Significantly Reduce Pathogens (PSRP):
Air Drying (or Sludge Drying Beds)
Anaerobic Digestion

Processes to Further Reduce Pathogens (PFRP):

Physical Treatment Options:
Preliminary Operations (e.g., sludge grinding, degritting, blending)
Thickening (e.g., Gravity and/or Flotation Thickening, Centrifugation, Belt Filter Press, Vacuum Filter, Screw Press)

Other Processes to Manage Sewage Sludge:
Methane or Biogas Capture and Recovery

Analytical Methods

Did you or your facility collect sewage sludge or biosolids samples for laboratory analysis? ☑ YES ☐ NO

Analytical Methods

- EPA Method 6020 - Arsenic (ICP-MS)
- EPA Method 6020 - Cadmium (ICP-MS)
- EPA Method 6020 - Chromium (ICP-MS)
- EPA Method 6020 - Copper (ICP-MS)
- EPA Method 6020 - Lead (ICP-MS)
- EPA Method 7471 - Mercury (CVAA)

- EPA Method 6020 - Molybdenum (ICP-MS)
- EPA Method 6020 - Nickel (ICP-MS)
- EPA Method 6020 - Selenium (ICP-MS)
- EPA Method 6020 - Zinc (ICP-MS)
- Standard Method 4500-NH3 - Ammonia Nitrogen
- Standard Method 4500-Norg - Organic Nitrogen
- Standard Method 2540 - Total Solids

Other Analytical Methods

- Other Nitrate Nitrogen Analytical Method
  Other Analytical Methods Text Area:
  SM 4500 NO3

- Other Nitrogen Analytical Method
  Other Analytical Methods Text Area:
  Total Nitrogen - Calculated

- Other Total Kjeldahl Nitrogen Analytical Method
  Other Analytical Methods Text Area:
  SM 4500

Sludge Management - Land Application

Sludge Management - Surface Disposal

Sludge Management - Incineration

Sludge Management - Other Management Practice

ID: 001

Amount: 27

Management Practice Detail: Other

Other Management Practice Detail Description: Compost

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler: CAL000718

Facility Information:
SYNAGRO SOUTH KERN COMPOST MANUFACTURING
P.O. Box 265
Taft, CA 93268
US

Contact Information:
Robert Rankin
Site Manager
661-765-2200
RRankin@SYNAGRO.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☐ NO ☑ UNKNOWN

ID: 002

Amount: 1066

Management Practice Detail: Other

Other Management Practice Detail Description: Compost

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler: CAL010500

Facility Information:
NURSERY PRODUCTS HAWES COMPOSTING FACILITY
P.O. Box 1439
Helendale, CA 94342
US

Contact Information:
Venny Vasquez
Site Manager
209-725-2828
vvasquez@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☐ NO ☑ UNKNOWN

ID: 003

Amount: 828

Management Practice Detail: Other

Other Management Practice Detail Description: Compost

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler: CAL000243

Facility Information:
LIBERTY COMPOSTING
P.O. Box 5
Lost Hills, CA 93249
US

Contact Information:
Wilson Nolan
Site Manager
661-619-7320
wnolan@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☐ NO ☑ UNKNOWN

Additional Information

Please enter any additional information that you would like to provide in the comment box below.

Additional Attachments

Name	Created Date	Size
Palmdale_NANI_Data_Summary with December Digester.pdf	01/19/2023 2:45 PM	254.32 KB

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

Certified By: Matthew J. Bao (MATTHEWBAO)

Certified On: 02/02/2023 1:28 PM

Notice and Necessary Information

To be Completed by Preparers of Class B Biosolids

Facility Name: Palmdale Water Reclamation Plant **Monitoring Period:** 11/01/2022 to 11/30/2022

1. Pollutant and Nitrogen concentrations (report results in mg/kg on a 100% dry weight basis. Attach lab analyses).

	As	Cd	Cu	Pb	Hg	Mo	Ni	Se	Zn	Org-N	NH_3-N	% solids
Result	4.98	0.60	484	5.59	0.57	13.7	19.6	5.92	1,360	51,200	6,760	19.5
Table 3	41	39	1,500	300	17	na	420	100	2,800	na	na	na
Table 1	75	85	4,300	840	57	75	420	100	7,500	na	na	na

Sampling date(s): 11/02/2022 **Sample Number(s):** 22110200384

2. Class B Pathogen Reduction: (Check off and fill in applicable portion)

√ anaerobic for 133 days at 36.1 °C (97 °F) (range for past month)
Class B: either 15 days at 35°C to 55°C or 60 days at 20°C
___ aerobic digestion for ____to ____ days at _____to ____ degrees F / C (range for past month)
Class B: time (days) ≥ 20 - 15(temp, degrees C) for times between 40 and 60 days
___ drying beds for ____to_____ months (attach records of dates in and out)
Class B: time > 3 months; 2 months > 0 degrees C
___ fecal coliform: geometric mean of seven samples = _____ (attach lab results)
Class B: geometric mean of seven samples is < 2,000,000 mpn
___ lime stabilization: pH at 2 hours after addition = _____
Class B: pH 2 hours after addition of lime is ≥ 12

3. Vector Attraction Reduction:

√ Option 1: % VS_{in} = 87 % VS_{out} = 73 % VSR = 61 % per Van Kleeck method
VAR: VSR > 38%
____ Option 2/3: Bench scale test: % VSR = _____ after ____ days
VAR: additional VSR < 17% after 40 days (anaerobic), < 15% after 30 days (aerobic)
____ Option 4: SOUR = _____
VAR: SOUR < 1.5 mg O_2/hr/gram (dry weight)
____ Option 5: Composted _____ days at temps of _____ to _____degrees F/C (attach times/temps)
VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C
____ Option 6: time alkali added: _____ pH after 2 hours = ___ pH after 22 hours = ___
VAR: pH ≥ 12 for 2 hours after alkali addition, ≥ 11.5 for additional 22 hrs
____ Option 7: % solids = TBD Stabilization method: Anaerobic Digestion
VAR: stabilized solids > 75%
____ Option 8: % solids = _____
VAR: unstabilized solids > 90%
____ Option 9/10: Applier will inject/incorporate within _____ hours
VAR: injection within 1 hour, incorporation within 6 hours

Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Official Title: Matthew J. Bao – Supervising Engineer

Phone: (562) 908-4288 Extension 2824 **E-mail:** mbao@lacsd.org

Signature: Matthew Bao **Date:** 1/4/23

2022 BIOSOLIDS MANAGEMENT PROGRAM
Palmdale Water Reclamation Plant
mg/kg Dry Weight (unless otherwise noted)

Sample No.	Date	% TS	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn
22011900216	1/19/2022	18.6	5.11	0.70	62.2	390	4.82	0.63	13.7	23.0	5.90	1,060
22030200370	3/2/2022	19.0	5.28	0.84	65.6	338	4.58	0.73	14.0	22.7	5.88	856
22050400379	5/4/2022	20.0	5.07	0.74	65.4	366	5.11	0.83	14.4	22.6	5.56	1,030
22071300413	7/13/2022	20.0	4.41	0.67	51.1	317	4.58	0.85	12.1	17.8	4.9	956
22090700287	9/7/2022	19.4	4.62	0.69	50.8	389	4.88	0.68	13.6	18.3	5.36	1,170
22110200384	11/2/2022	19.5	4.98	0.60	57.8	484	5.59	0.57	13.7	19.6	5.92	1,360
MEAN		**19.4**	**4.91**	**0.71**	**58.8**	**381**	**4.93**	**0.72**	**13.6**	**20.7**	**5.6**	**1,070**
MAX			**5.28**	**0.84**	**65.6**	**484**	**5.59**	**0.85**	**14.4**	**23.0**	**5.92**	**1,360**
TABLE 1 LIMITS		****	**75**	**85**	****	**4,300**	**840**	**57**	**75**	**420**	**100**	**7,500**
TABLE 3 LIMITS		****	**41**	**39**	****	**1,500**	**300**	**17**	****	**420**	**100**	**2,800**

Sample No.	Date	Amm-N	Org-N	NO_3-N	NO_2-N	PO_4	K	TN	TKN
22011900216	1/19/2022	7,430	61,900	15.2	3.75	105,000	1,620	69,300	69,300
22030200370	3/2/2022	6,970	62,100	< 10.5	3.50	96,300	1,560	69,100	69,100
22050400379*	5/4/2022	14,000	55,000	< 10.0	2.23	103,000	1,520	69,000	69,000
22071300413	7/13/2022	14,000	46,000	14.1	3.38	108,000	1,420	60,000	60,000
22090700287	9/7/2022	6,880	56,700	11.2	< 1.52	99,900	1,430	63,600	63,600
22110200384	11/2/2022	6,760	51,200	10.5	1.86	109,000	1,590	11,600	58,000
MEAN		**9,000**	**55,000**	**12.8**	**2.94**	**104,000**	**1,520**		
MAX		**14,000**	**62,100**	**15.2**	**3.75**	**109,000**	**1,620**		

\ = No Limit

* = Lab ID: 22052100412 May results for Amm-N, Org-N, and TKN were resampled due instrument issues.

2022 BIOSOLIDS MANAGEMENT PROGRAM

Palmdale WRP Digester Performance

Month	Temp (°F)	Detention Time * (Days)	VSD (%)
January	97	198	66
February	96	213	50
March	97	184	69
April	97	176	60
May	97	178	45
June	97	188	53
July	97	185	60
August	98	162	60
September	98	169	45
October	97	140	62
November	97	133	61
December	97	130	66
MEAN	**97**	**171**	**58**
MIN	**96**	**130**	**45**

* = As flow decreases HDT will increase

Pomona WRP Influent Monitoring

Pomona Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	Mar-22	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
1,1,1-Trichloroethane	ug/L						ND				
1,1,2,2-Tetrachloroethane	ug/L						ND				
1,1,2-Trichloroethane	ug/L						ND				
1,1-Dichloroethane	ug/L						ND				
1,1-Dichloroethylene	ug/L						ND				
1,2,4-Trichlorobenzene	ug/L						ND				
1,2-Dichlorobenzene	ug/L						ND				
1,2-Dichloroethane	ug/L						ND				
1,2-Dichloropropane	ug/L						ND				
1,2-Diphenylhydrazine	ug/L						ND				
1,2-trans-Dichloroethylene	ug/L						ND				
1,3-Dichlorobenzene	ug/L						ND				
1,3-Dichloropropene (Total)	ug/L						0.02				
1,4-Dichlorobenzene	ug/L						ND				
2,3,7,8-TCDD	pg/L						ND				
2,4,6-Trichlorophenol	ug/L						ND				
2,4-Dichlorophenol	ug/L						ND				
2,4-Dimethylphenol	ug/L						ND				
2,4-Dinitrophenol	ug/L						ND				
2,4-Dinitrotoluene	ug/L						ND				
2,6-Dinitrotoluene	ug/L						ND				
2-Chloroethylvinyl ether	ug/L						ND				
2-Chloronaphthalene	ug/L						ND				
2-Chlorophenol	ug/L						ND				
2-Methyl-4,6-dinitrophenol	ug/L						ND				
2-Nitrophenol	ug/L						ND				
3,3'-Dichlorobenzidine	ug/L						ND				
3-Methyl-4-chlorophenol	ug/L						ND				
4,4-DDD	ug/L						ND				
4,4-DDE	ug/L						ND				
4,4-DDT	ug/L						ND				
4-Bromophenyl phenyl ether	ug/L						ND				
4-Chlorophenyl phenyl ether	ug/L						ND				
4-Nitrophenol	ug/L						ND				
Acenaphthene	ug/L						ND				
Acenaphthylene	ug/L						ND				
Acrolein	ug/L						3.2				
Acrylonitrile	ug/L						ND				
Aldrin	ug/L						ND				
alpha-BHC	ug/L						ND				
alpha-Endosulfan	ug/L						ND				
Ammonia nitrogen	mg/L		38.8				36		34		
Anthracene	ug/L						ND				
Antimony	ug/L						1.36				
Aroclor 1016	ug/L		ND				ND		ND		
Aroclor 1221	ug/L		ND				ND		ND		
Aroclor 1232	ug/L		ND				ND		ND		
Aroclor 1242	ug/L		ND				ND		ND		
Aroclor 1248	ug/L		ND				ND		ND		
Aroclor 1254	ug/L		ND				ND		ND		
Aroclor 1260	ug/L						ND				
Arsenic	ug/L						2.21				
Benzene	ug/L						DNQ Est. Conc. 0.07				
Benzidine	ug/L						ND				
Benzo(a)anthracene	ug/L						ND				
Benzo(a)pyrene	ug/L						ND				
Benzo(b)fluoranthene	ug/L						ND				

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
1,1,1-Trichloroethane	ug/L		ND	ND	ND	ND	EPA 624.1		0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L		ND	ND	ND	ND	EPA 624.1		0.12	0.50
1,1,2-Trichloroethane	ug/L		ND	ND	ND	ND	EPA 624.1		0.12	0.50
1,1-Dichloroethane	ug/L		ND	ND	ND	ND	EPA 624.1		0.19	0.50
1,1-Dichloroethylene	ug/L		ND	ND	ND	ND	EPA 624.1		0.21	0.50
1,2,4-Trichlorobenzene	ug/L		ND	ND	ND	ND	EPA 625.1		0.51	10.0
1,2-Dichlorobenzene	ug/L		ND	ND	ND	ND	EPA 624.1		0.12	0.50
1,2-Dichloroethane	ug/L		ND	ND	ND	ND	EPA 624.1		0.12	0.50
1,2-Dichloropropane	ug/L		ND	ND	ND	ND	EPA 624.1		0.09	0.50
1,2-Diphenylhydrazine	ug/L		ND	ND	ND	ND	EPA 625.1		0.63	10.0
1,2-trans-Dichloroethylene	ug/L		ND	ND	ND	ND	EPA 624.1		0.20	0.50
1,3-Dichlorobenzene	ug/L		ND	ND	ND	ND	EPA 624.1		0.13	0.50
1,3-Dichloropropene (Total)	ug/L		ND	ND	0.01	0.02	Calculated		Not applicable	Not applicable
1,4-Dichlorobenzene	ug/L		ND	ND	ND	ND	EPA 624.1		0.16	0.50
2,3,7,8-TCDD	pg/L		ND	ND	ND	ND	EPA 1613B		0.36 - 1.1	10 - 9.4
2,4,6-Trichlorophenol	ug/L		ND	ND	ND	ND	EPA 625.1		0.64	10.0
2,4-Dichlorophenol	ug/L		ND	ND	ND	ND	EPA 625.1		0.60	10.0
2,4-Dimethylphenol	ug/L		ND	ND	ND	ND	EPA 625.1		0.44	10.0
2,4-Dinitrophenol	ug/L		ND	ND	ND	ND	EPA 625.1		1.5	50.0
2,4-Dinitrotoluene	ug/L		ND	ND	ND	ND	EPA 625.1		0.37	10.0
2,6-Dinitrotoluene	ug/L		ND	ND	ND	ND	EPA 625.1		0.50	10.0
2-Chloroethylvinyl ether	ug/L		ND	ND	ND	ND	EPA 624.1		0.18	0.50
2-Chloronaphthalene	ug/L		ND	ND	ND	ND	EPA 625.1		0.41	10.0
2-Chlorophenol	ug/L		ND	ND	ND	ND	EPA 625.1		0.41	10.0
2-Methyl-4,6-dinitrophenol	ug/L		ND	ND	ND	ND	EPA 625.1		1.3	50.0
2-Nitrophenol	ug/L		ND	ND	ND	ND	EPA 625.1		0.31	10.0
3,3'-Dichlorobenzidine	ug/L		ND	ND	ND	ND	EPA 625.1		0.54	10.0
3-Methyl-4-chlorophenol	ug/L		ND	ND	ND	ND	EPA 625.1		0.69	10.0
4,4-DDD	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.003	0.10
4,4-DDE	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.002	0.10
4,4-DDT	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.004	0.10
4-Bromophenyl phenyl ether	ug/L		ND	ND	ND	ND	EPA 625.1		0.58	10.0
4-Chlorophenyl phenyl ether	ug/L		ND	ND	ND	ND	EPA 625.1		0.63	10.0
4-Nitrophenol	ug/L		ND	ND	ND	ND	EPA 625.1		1.6	50.0
Acenaphthene	ug/L		ND	ND	ND	ND	EPA 625.1		0.50	10.0
Acenaphthylene	ug/L		ND	ND	ND	ND	EPA 625.1		0.50	10.0
Acrolein	ug/L		ND	ND	1.6	3.2	EPA 624.1		0.88	2.0
Acrylonitrile	ug/L		ND	ND	ND	ND	EPA 624.1		0.31	2.0
Aldrin	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.002	0.05
alpha-BHC	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.003	0.10
alpha-Endosulfan	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.003	0.10
Ammonia nitrogen	mg/L		38.1	34	37	38.8	SM 4500 NH3 H		0.020 - 0.030	0.500 - 2.50
Anthracene	ug/L		ND	ND	ND	ND	EPA 625.1		0.56	10.0
Antimony	ug/L		0.7	0.7	1	1.36	EPA 200.8	0.5	0.12	0.50
Aroclor 1016	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.1	5.0
Aroclor 1221	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.1	5.0
Aroclor 1232	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.1	5.0
Aroclor 1242	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.1	5.0
Aroclor 1248	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.1	5.0
Aroclor 1254	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.1	5.0
Aroclor 1260	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.1	5.0
Arsenic	ug/L		2.05	2.05	2.13	2.21	EPA 200.8	2	0.07	1.00
Benzene	ug/L		DNQ Est. Conc. 0.09	DNQ Est. Conc. 0.07	ND	DNQ Est. Conc. 0.09	EPA 624.1		0.06	0.50
Benzidine	ug/L		ND	ND	ND	ND	EPA 625.1		0.77	50.0
Benzo(a)anthracene	ug/L		ND	ND	ND	ND	EPA 625.1		0.46	10.0
Benzo(a)pyrene	ug/L		ND	ND	ND	ND	EPA 625.1		0.54	10.0
Benzo(b)fluoranthene	ug/L		ND	ND	ND	ND	EPA 625.1		0.61	10.0

Parameter	Units	January 2022	February 2022	Mar-22	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Benzo(g,h,i)perylene	ug/L						ND				
Benzo(k)fluoranthene	ug/L						ND				
Beryllium	ug/L						ND				
beta-BHC	ug/L						ND				
beta-Endosulfan	ug/L						ND				
Bis(2-chloroethoxy)methane	ug/L						ND				
bis(2-Chloroethyl) ether	ug/L						ND				
bis(2-Chloroisopropyl) ether	ug/L						ND				
bis(2-Ethylhexyl) phthalate	ug/L						DNQ Est. Conc. 6.5				
BOD	mg/L	335	377	349	365	363	334	301	271	319	329
Bromodichloromethane	ug/L						DNQ Est. Conc. 0.17				
Bromoform	ug/L						DNQ Est. Conc. 0.15				
Butyl benzyl phthalate	ug/L						ND				
Cadmium	ug/L						DNQ Est. Conc. 0.13				
Carbon tetrachloride	ug/L						ND				
Chloride	mg/L		108				165		146		
Chlorobenzene	ug/L						ND				
Chloroethane	ug/L						ND				
Chloroform	ug/L						2.6				
Chrysene	ug/L						ND				
Copper	ug/L						54.1				
Cyanide	ug/L						ND				
delta-BHC	ug/L						ND				
Dibenzo(a,h)anthracene	ug/L						ND				
Dibromochloromethane	ug/L						DNQ Est. Conc. 0.22				
Dieldrin	ug/L		ND				ND		DNQ Est. Conc. 0.03		
Diethyl phthalate	ug/L						ND				
Dimethyl phthalate	ug/L						ND				
Di-n-butyl phthalate	ug/L						ND				
Di-n-octyl phthalate	ug/L						ND				
Endosulfan sulfate	ug/L						ND				
Endrin	ug/L						ND				
Endrin aldehyde	ug/L						ND				
Ethylbenzene	ug/L						ND				
Fluoranthene	ug/L						ND				
Fluorene	ug/L						ND				
gamma-BHC	ug/L						ND				
Heptachlor	ug/L						ND				
Heptachlor epoxide	ug/L						ND				
Hexachlorobenzene	ug/L						ND				
Hexachlorobutadiene	ug/L						ND				
Hexachlorocyclopentadiene	ug/L						ND				
Hexachloroethane	ug/L						ND				
Indeno (1,2,3-cd) pyrene	ug/L						ND				
Isophorone	ug/L						ND				
Lead	ug/L	0.97	1.3	1.58	2.41	1.51	1.45	1.05	1.14	1.96	2.92
Mercury	ug/L						0.2				
Methyl bromide (Bromomethane)	ug/L						ND				
Methyl chloride (Chloromethane)	ug/L						ND				
Methylene chloride	ug/L						0.58				
Naphthalene	ug/L						ND				
Nickel	ug/L						3.43				
Nitrate + nitrite as nitrogen	mg/L		DNQ Est. Conc. 0.214				ND		DNQ Est. Conc. 0.142		
Nitrobenzene	ug/L						ND				
N-Nitrosodi-n-propylamine	ug/L						ND				
n-Nitrosodimethylamine (NDMA)	ug/L						DNQ Est. Conc. 0.016				
n-Nitrosodiphenylamine	ug/L						ND				

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
Benzo(g,h,i)perylene	ug/L		ND	ND	ND	ND	EPA 625.1		0.52	10.0
Benzo(k)fluoranthene	ug/L		ND	ND	ND	ND	EPA 625.1		0.53	10.0
Beryllium	ug/L		ND	ND	ND	ND	EPA 200.8	0.5	0.023	0.25
beta-BHC	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.003	0.05
beta-Endosulfan	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.004	0.10
Bis(2-chloroethoxy)methane	ug/L		ND	ND	ND	ND	EPA 625.1		0.28	10.0
bis(2-Chloroethyl) ether	ug/L		ND	ND	ND	ND	EPA 625.1		0.27	10.0
bis(2-Chloroisopropyl) ether	ug/L		ND	ND	ND	ND	EPA 625.1		0.25	10.0
bis(2-Ethylhexyl) phthalate	ug/L		ND	ND	ND	DNQ Est. Conc. 6.5	EPA 625.1		0.55	10.0
BOD	mg/L	315	310	271	331	377	SM 5210B		Not applicable	120
Bromodichloromethane	ug/L		DNQ Est. Conc. 0.28	DNQ Est. Conc. 0.17	ND	DNQ Est. Conc. 0.28	EPA 624.1		0.15	0.50
Bromoform	ug/L		DNQ Est. Conc. 0.29	DNQ Est. Conc. 0.15	ND	DNQ Est. Conc. 0.29	EPA 624.1		0.13	0.50
Butyl benzyl phthalate	ug/L		ND	ND	ND	ND	EPA 625.1		0.58	10.0
Cadmium	ug/L		DNQ Est. Conc. 0.16	DNQ Est. Conc. 0.13	ND	DNQ Est. Conc. 0.16	EPA 200.8	0.25	0.030	0.20
Carbon tetrachloride	ug/L		ND	ND	ND	ND	EPA 624.1		0.34	0.50
Chloride	mg/L		138	108	139	165	EPA 300.0		0.024 - 0.144	10.0 - 4.00
Chlorobenzene	ug/L		ND	ND	ND	ND	EPA 624.1		0.07	0.50
Chloroethane	ug/L		ND	ND	ND	ND	EPA 624.1		0.22	0.50
Chloroform	ug/L		2.6	2.6	2.6	2.6	EPA 624.1		0.35	0.50
Chrysene	ug/L		ND	ND	ND	ND	EPA 625.1		0.41	10.0
Copper	ug/L		55.1	54.1	54.6	55.1	EPA 200.8	0.5	0.12	0.50
Cyanide	ug/L		ND	ND	ND	ND	SM 4500 CN E	5	2.00	5.00
delta-BHC	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.003	0.05
Dibenzo(a,h)anthracene	ug/L		ND	ND	ND	ND	EPA 625.1		0.58	10.0
Dibromochloromethane	ug/L		DNQ Est. Conc. 0.37	DNQ Est. Conc. 0.22	ND	DNQ Est. Conc. 0.37	EPA 624.1		0.13	0.50
Dieldrin	ug/L		DNQ Est. Conc. 0.04	ND	ND	DNQ Est. Conc. 0.04	608.3/8081/8082		0.002 - 0.003	0.10
Diethyl phthalate	ug/L		ND	ND	ND	ND	EPA 625.1		0.42	10.0
Dimethyl phthalate	ug/L		ND	ND	ND	ND	EPA 625.1		0.41	10.0
Di-n-butyl phthalate	ug/L		ND	ND	ND	ND	EPA 625.1		0.59	10.0
Di-n-octyl phthalate	ug/L		ND	ND	ND	ND	EPA 625.1		0.69	10.0
Endosulfan sulfate	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.004	0.10
Endrin	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.004	0.10
Endrin aldehyde	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.003	0.10
Ethylbenzene	ug/L		ND	ND	ND	ND	EPA 624.1		0.11	0.50
Fluoranthene	ug/L		ND	ND	ND	ND	EPA 625.1		0.69	10.0
Fluorene	ug/L		ND	ND	ND	ND	EPA 625.1		0.58	10.0
gamma-BHC	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.003	0.10
Heptachlor	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.002	0.10
Heptachlor epoxide	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.003	0.10
Hexachlorobenzene	ug/L		ND	ND	ND	ND	EPA 625.1		0.47	10.0
Hexachlorobutadiene	ug/L		ND	ND	ND	ND	EPA 625.1		0.96	10.0
Hexachlorocyclopentadiene	ug/L		ND	ND	ND	ND	EPA 625.1		2.0	50.0
Hexachloroethane	ug/L		ND	ND	ND	ND	EPA 625.1		0.81	10.0
Indeno (1,2,3-cd) pyrene	ug/L		ND	ND	ND	ND	EPA 625.1		0.53	10.0
Isophorone	ug/L		ND	ND	ND	ND	EPA 625.1		0.28	10.0
Lead	ug/L	7.26	1.49	0.97	2.2	7.26	EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L		0.07	0.07	0.1	0.2	EPA 245.1	0.5	0.019	0.04
Methyl bromide (Bromomethane)	ug/L		ND	ND	ND	ND	EPA 624.1		0.27	0.50
Methyl chloride (Chloromethane)	ug/L		ND	ND	ND	ND	EPA 624.1		0.19	0.50
Methylene chloride	ug/L		ND	ND	0.29	0.58	EPA 624.1		0.16	0.50
Naphthalene	ug/L		ND	ND	ND	ND	EPA 625.1		0.20	10.0
Nickel	ug/L		2.89	2.89	3.16	3.43	EPA 200.8	1	0.08	1.00
Nitrate + nitrite as nitrogen	mg/L		ND	ND	ND	DNQ Est. Conc. 0.214	SM 4500 NO3 F		0.097 - 0.108	0.230
Nitrobenzene	ug/L		ND	ND	ND	ND	EPA 625.1		0.31	10.0
N-Nitrosodi-n-propylamine	ug/L		ND	ND	ND	ND	EPA 1625B (Modified)		0.0006 - 0.0014	0.020
n-Nitrosodimethylamine (NDMA)	ug/L		DNQ Est. Conc. 0.011	DNQ Est. Conc. 0.011	ND	DNQ Est. Conc. 0.016	EPA 1625B (Modified)		0.0005	0.020
n-Nitrosodiphenylamine	ug/L		ND	ND	ND	ND	EPA 1625B (Modified)		0.0013 - 0.0057	0.10

Pomona Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	Mar-22	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
PCB-101 (Co: 90/101/113)	pg/L						DNQ Est. Conc. 230 (2)				
PCB-105	pg/L						51				
PCB-110/115	pg/L						DNQ Est. Conc. 190 (2)				
PCB-114	pg/L						DNQ Est. Conc. 4.2				
PCB-118	pg/L						140				
PCB-123	pg/L						DNQ Est. Conc. 5.8				
PCB-126	pg/L						ND				
PCB-128/166	pg/L						DNQ Est. Conc. 14				
PCB-135/151	pg/L						DNQ Est. Conc. 39				
PCB-138 (Co: 129,138,163)	pg/L						DNQ Est. Conc. 120 (2)				
PCB-147/149	pg/L						DNQ Est. Conc. 82 (2)				
PCB-153/168	pg/L						DNQ Est. Conc. 110 (2)				
PCB-156/157	pg/L						DNQ Est. Conc. 25 (2)				
PCB-158	pg/L						DNQ Est. Conc. 8.3 (1)				
PCB-167	pg/L						DNQ Est. Conc. 7.9				
PCB-169	pg/L						ND				
PCB-170	pg/L						DNQ Est. Conc. 53				
PCB-18/30	pg/L						DNQ Est. Conc. 130				
PCB-177	pg/L						DNQ Est. Conc. 28				
PCB-180/193	pg/L						DNQ Est. Conc. 170 (2)				
PCB-183	pg/L						DNQ Est. Conc. 42 (2)				
PCB-187	pg/L						DNQ Est. Conc. 54				
PCB-189	pg/L						ND				
PCB-194	pg/L						DNQ Est. Conc. 33				
PCB-20/28	pg/L						DNQ Est. Conc. 340 (2)				
PCB-201	pg/L						DNQ Est. Conc. 9.9				
PCB-206	pg/L						DNQ Est. Conc. 38				
PCB-37	pg/L						DNQ Est. Conc. 78				
PCB-44/47/65	pg/L						DNQ Est. Conc. 260 (2)				
PCB-49/69	pg/L						DNQ Est. Conc. 95				
PCB-52	pg/L						270 (2)				
PCB-61/70/74/76	pg/L						DNQ Est. Conc. 260 (2)				
PCB-66	pg/L						DNQ Est. Conc. 120 (2)				
PCB-77	pg/L						DNQ Est. Conc. 15				
PCB-81	pg/L						ND				
PCB-86/87/97/108/119	pg/L						DNQ Est. Conc. 150				
PCB-99	pg/L						DNQ Est. Conc. 75				
Pentachlorophenol	ug/L						ND				
pH	SU	7.7	7.8	7.7	7.7	7.6	7.8	7.8	7.7	7.7	7.6
Phenanthrene	ug/L						ND				
Phenol	ug/L						27				
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L						ND				
Pyrene	ug/L						ND				
Selenium	ug/L	DNQ Est. Conc. 0.96	DNQ Est. Conc. 0.83	1.1	DNQ Est. Conc. 0.95	1.03	1.06	DNQ Est. Conc. 0.89	1.11	DNQ Est. Conc. 0.96	1.15
Silver	ug/L	DNQ Est. Conc. 0.19	DNQ Est. Conc. 0.18	0.32	0.41	0.34	DNQ Est. Conc. 0.18	0.21	DNQ Est. Conc. 0.18	DNQ Est. Conc. 0.15	0.38
Sulfate	mg/L		68.3				75.5		104		
Technical chlordane	ug/L						ND				
Temperature	Degrees F	65.4	65.7	66.6	70.3	72.5	76.1	79.2	81.8	81.6	76.9
Tetrachloroethylene	ug/L						ND				
Thallium	ug/L						ND				
Toluene	ug/L						1.7				
Total chromium	ug/L						4.63				
Total dissolved solids	mg/L		620				749		712		
Total nitrogen	mg/L		62.7				56.1		47.9		
Total Suspended Solids	mg/L	322	456	326	544	330	274	255	233	302	297
Total trihalomethanes	ug/L		3				2.6		2.6		
Toxaphene	ug/L						ND				

Pomona Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
PCB-101 (Co: 90/101/113)	pg/L			DNQ Est. Conc. 230 (2)	ND	DNQ Est. Conc. 230 (2)	EPA 1668		3.4	570
PCB-105	pg/L			51	51	51	EPA 1668		3.3	19
PCB-110/115	pg/L			DNQ Est. Conc. 190 (2)	ND	DNQ Est. Conc. 190 (2)	EPA 1668		2.8	380
PCB-114	pg/L			DNQ Est. Conc. 4.2	ND	DNQ Est. Conc. 4.2	EPA 1668		3.1	19
PCB-118	pg/L			140	140	140	EPA 1668		2.7	19
PCB-123	pg/L			DNQ Est. Conc. 5.8	ND	DNQ Est. Conc. 5.8	EPA 1668		3.2	19
PCB-126	pg/L			ND	ND	ND	EPA 1668		3.0	19
PCB-128/166	pg/L			DNQ Est. Conc. 14	ND	DNQ Est. Conc. 14	EPA 1668		1.2	380
PCB-135/151	pg/L			DNQ Est. Conc. 39	ND	DNQ Est. Conc. 39	EPA 1668		1.3	380
PCB-138 (Co: 129,138,163)	pg/L			DNQ Est. Conc. 120 (2)	ND	DNQ Est. Conc. 120 (2)	EPA 1668		1.3	570
PCB-147/149	pg/L			DNQ Est. Conc. 82 (2)	ND	DNQ Est. Conc. 82 (2)	EPA 1668		1.3	380
PCB-153/168	pg/L			DNQ Est. Conc. 110 (2)	ND	DNQ Est. Conc. 110 (2)	EPA 1668		1.0	380
PCB-156/157	pg/L			DNQ Est. Conc. 25 (2)	ND	DNQ Est. Conc. 25 (2)	EPA 1668		5.7	38
PCB-158	pg/L			DNQ Est. Conc. 8.3 (1)	ND	DNQ Est. Conc. 8.3 (1)	EPA 1668		0.95	190
PCB-167	pg/L			DNQ Est. Conc. 7.9	ND	DNQ Est. Conc. 7.9	EPA 1668		4.4	19
PCB-169	pg/L			ND	ND	ND	EPA 1668		5.0	19
PCB-170	pg/L			DNQ Est. Conc. 53	ND	DNQ Est. Conc. 53	EPA 1668		2.1	190
PCB-18/30	pg/L			DNQ Est. Conc. 130	ND	DNQ Est. Conc. 130	EPA 1668		2.3	380
PCB-177	pg/L			DNQ Est. Conc. 28	ND	DNQ Est. Conc. 28	EPA 1668		1.8	190
PCB-180/193	pg/L			DNQ Est. Conc. 170 (2)	ND	DNQ Est. Conc. 170 (2)	EPA 1668		1.6	380
PCB-183	pg/L			DNQ Est. Conc. 42 (2)	ND	DNQ Est. Conc. 42 (2)	EPA 1668		1.5	190
PCB-187	pg/L			DNQ Est. Conc. 54	ND	DNQ Est. Conc. 54	EPA 1668		0.71	190
PCB-189	pg/L			ND	ND	ND	EPA 1668		1.2	19
PCB-194	pg/L			DNQ Est. Conc. 33	ND	DNQ Est. Conc. 33	EPA 1668		1.2	190
PCB-20/28	pg/L			DNQ Est. Conc. 340 (2)	ND	DNQ Est. Conc. 340 (2)	EPA 1668		5.0	380
PCB-201	pg/L			DNQ Est. Conc. 9.9	ND	DNQ Est. Conc. 9.9	EPA 1668		0.85	190
PCB-206	pg/L			DNQ Est. Conc. 38	ND	DNQ Est. Conc. 38	EPA 1668		1.6	190
PCB-37	pg/L			DNQ Est. Conc. 78	ND	DNQ Est. Conc. 78	EPA 1668		5.4	190
PCB-44/47/65	pg/L			DNQ Est. Conc. 260 (2)	ND	DNQ Est. Conc. 260 (2)	EPA 1668		4.6	570
PCB-49/69	pg/L			DNQ Est. Conc. 95	ND	DNQ Est. Conc. 95	EPA 1668		4.1	380
PCB-52	pg/L			270 (2)	270	270 (2)	EPA 1668		4.6	190
PCB-61/70/74/76	pg/L			DNQ Est. Conc. 260 (2)	ND	DNQ Est. Conc. 260 (2)	EPA 1668		1.9	760
PCB-66	pg/L			DNQ Est. Conc. 120 (2)	ND	DNQ Est. Conc. 120 (2)	EPA 1668		1.8	190
PCB-77	pg/L			DNQ Est. Conc. 15	ND	DNQ Est. Conc. 15	EPA 1668		2.3	19
PCB-81	pg/L			ND	ND	ND	EPA 1668		2.4	19
PCB-86/87/97/108/119	pg/L			DNQ Est. Conc. 150	ND	DNQ Est. Conc. 150	EPA 1668		3.2	1100
PCB-99	pg/L			DNQ Est. Conc. 75	ND	DNQ Est. Conc. 75	EPA 1668		3.0	190
Pentachlorophenol	ug/L		ND	ND	ND	ND	EPA 625.1		0.82	10.0
pH	SU	7.7	7.6	7.6	7.7	7.8	SM 4500 H+ B		Not applicable	Not applicable
Phenanthrene	ug/L		ND	ND	ND	ND	EPA 625.1		0.59	10.0
Phenol	ug/L		24.5	24.5	26	27	EPA 625.1		0.24	10.0
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L		ND	ND	ND	ND	Calculated		Not applicable	Not applicable
Pyrene	ug/L		ND	ND	ND	ND	EPA 625.1		0.60	10.0
Selenium	ug/L	1.38	1.18	DNQ Est. Conc. 0.83	0.67	1.38	EPA 200.8	2	0.04	1.00
Silver	ug/L	0.4	0.53	DNQ Est. Conc. 0.15	0.22	0.53	EPA 200.8	0.25	0.02	0.20
Sulfate	mg/L		70.5	68.3	79.6	104	EPA 300.0		0.040 - 0.161	1.00 - 2.50
Technical chlordane	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.02	0.50
Temperature	Degrees F	71.7	67.1	65.4	72.9	81.8	EPA 170.1 (oF)		Not applicable	Not applicable
Tetrachloroethylene	ug/L		ND	ND	ND	ND	EPA 624.1		0.16	0.50
Thallium	ug/L		ND	ND	ND	ND	EPA 200.8	1	0.019	0.25
Toluene	ug/L		DNQ Est. Conc. 0.27	DNQ Est. Conc. 0.27	0.85	1.7	EPA 624.1		0.04	0.50
Total chromium	ug/L		4.41	4.41	4.52	4.63	EPA 200.8	0.5	0.28	0.50
Total dissolved solids	mg/L		654	620	684	749	SM 2540C		Not applicable	100 - 71.4
Total nitrogen	mg/L		59.6	47.9	56.6	62.7	Total Nitrogen Calculation		Not applicable	Not applicable
Total Suspended Solids	mg/L	264	294	233	325	544	SM 2540D		Not applicable	100 - 83.3
Total trihalomethanes	ug/L		2.6	2.6	3	3	EPA 624.1		Not applicable	Not applicable
Toxaphene	ug/L		ND	ND	ND	ND	608.3/8081/8082		0.05	5.0

Parameter	Units	January 2022	February 2022	Mar-22	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Trichloroethylene	ug/L						ND				
Vinyl chloride	ug/L						ND				
Zinc	ug/L						133				

(1) Blank contamination observed.

(2) Possible interference observed. The measured ion ration did not meet qualitative criteria for analysis and results are considered to be an estimated maximum possible concentration.

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
Trichloroethylene	ug/L		DNQ Est. Conc. 0.33	ND	ND	DNQ Est. Conc. 0.33	EPA 624.1		0.12	0.50
Vinyl chloride	ug/L		ND	ND	ND	ND	EPA 624.1		0.37	0.50
Zinc	ug/L		153	133	143	153	EPA 200.8	1	0.92	1.00

(1) Blank contamination observed.

(2) Possible interference observed. The measured ion ration did not meet qualitative criteria for analysis and results are considered to be an estimated maximum possible concentration.

Pomona WRP Effluent Monitoring

Pomona Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
1,1,1-Trichloroethane	ug/L		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	ug/L		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	ug/L		ND		ND		ND		ND		ND
1,1-Dichloroethane	ug/L		ND		ND		ND		ND		ND
1,1-Dichloroethylene	ug/L		ND		ND		ND		ND		ND
1,2,3,4,6,7,8-HeptaCDD	pg/L						ND				
1,2,3,4,6,7,8-HeptaCDF	pg/L						ND				
1,2,3,4,7,8,9-HeptaCDF	pg/L						ND				
1,2,3,4,7,8-HexaCDD	pg/L						ND				
1,2,3,4,7,8-HexaCDF	pg/L						DNQ Est. Conc. 0.59				
1,2,3,6,7,8-HexaCDD	pg/L						ND				
1,2,3,6,7,8-HexaCDF	pg/L						ND				
1,2,3,7,8,9-HexaCDD	pg/L						ND				
1,2,3,7,8,9-HexaCDF	pg/L						ND				
1,2,3,7,8-PentaCDD	pg/L						ND				
1,2,3,7,8-PentaCDF	pg/L						DNQ Est. Conc. 1.6				
1,2,3-Trichloropropane	ug/L		DNQ Est. Conc. 0.0023				DNQ Est. Conc. 0.0012		ND		
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ug/L		ND		ND		ND		ND		ND
1,2-Dichloroethane	ug/L		ND		ND		ND		ND		ND
1,2-Dichloropropane	ug/L		ND		ND		ND		ND		ND
1,2-Diphenylhydrazine	ug/L						ND				
1,2-trans-Dichloroethylene	ug/L		ND		ND		ND		ND		ND
1,3-Dichlorobenzene	ug/L		ND		ND		ND		ND		ND
1,3-Dichloropropene (Total)	ug/L		ND		ND		0.02		ND		ND
1,4-Dichlorobenzene	ug/L		ND		ND		ND		ND		ND
1,4-Dioxane	ug/L		0.94				0.78		0.95		
2,3,4,6,7,8-HexaCDF	pg/L						DNQ Est. Conc. 0.48				
2,3,4,7,8-PentaCDF	pg/L						ND				
2,3,7,8-TCDD	pg/L		ND				ND		ND		
2,3,7,8-TetraCDF	pg/L						ND				
2,4,6-Trichlorophenol	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ug/L						ND				
2,4-Dimethylphenol	ug/L						ND				
2,4-Dinitrophenol	ug/L						ND				
2,4-Dinitrotoluene	ug/L						ND				
2,6-Dinitrotoluene	ug/L						ND				
2-Chloroethylvinyl ether	ug/L		ND		ND		ND		ND		ND
2-Chloronaphthalene	ug/L						ND				
2-Chlorophenol	ug/L						ND				
2-Methyl-4,6-dinitrophenol	ug/L						ND				
2-Nitrophenol	ug/L						ND				
3,3'-Dichlorobenzidine	ug/L						ND				
3-Methyl-4-chlorophenol	ug/L						ND				
4,4-DDD	ug/L		ND		ND		ND		ND		DNQ Est. Conc. 0.004
4,4-DDE	ug/L		ND		ND		ND		ND		ND
4,4-DDT	ug/L		ND		ND		DNQ Est. Conc. 0.004		ND		ND
4-Bromophenyl phenyl ether	ug/L						ND				
4-Chlorophenyl phenyl ether	ug/L						ND				
4-Nitrophenol	ug/L						ND				
Acenaphthene	ug/L						ND				
Acenaphthylene	ug/L						ND				
Acrolein	ug/L		ND				ND		ND		
Acrylonitrile	ug/L		ND				ND		ND		
Aldrin	ug/L		ND		ND		ND		ND		ND
alpha-BHC	ug/L		ND		ND		ND		ND		ND
alpha-Endosulfan	ug/L						ND				
Ammonia nitrogen	mg/L	1.73	1.55	1.53	1.25	1.53	1.35	1.6	1.67	1.59	2.61
Anthracene	ug/L						ND				
Antimony	ug/L		0.54				0.5		0.56		
Aroclor 1016	ug/L		ND		ND		ND		ND		ND
Aroclor 1221	ug/L		ND		ND		ND		ND		ND
Aroclor 1232	ug/L		ND		ND		ND		ND		ND

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Recycled Water Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average	Max Daily	12-Month Rolling Average				
1,1,1-Trichloroethane	ug/L		ND	ND	ND	ND					EPA 624.1		0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L		ND	ND	ND	ND					EPA 624.1		0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L		ND	ND	ND	ND					EPA 624.1		0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L		ND	ND	ND	ND					EPA 624.1		0.08 - 0.19	0.50
1,1-Dichloroethylene	ug/L		ND	ND	ND	ND					EPA 624.1		0.21	0.50
1,2,3,4,6,7,8-HeptaCDD	pg/L		ND	ND	ND	ND					EPA 1613B		0.24 - 0.31	47 - 50
1,2,3,4,6,7,8-HeptaCDF	pg/L		200	ND	100	200					EPA 1613B		0.27 - 1.5	47 - 50
1,2,3,4,7,8,9-HeptaCDF	pg/L		77	ND	39	77					EPA 1613B		0.25 - 1.5	47 - 50
1,2,3,4,7,8-HexaCDD	pg/L		ND	ND	ND	ND					EPA 1613B		0.30 - 0.35	47 - 50
1,2,3,4,7,8-HexaCDF	pg/L		57	DNQ Est. Conc. 0.59	29	57					EPA 1613B		0.23 - 1.6	47 - 50
1,2,3,6,7,8-HexaCDD	pg/L		ND	ND	ND	ND					EPA 1613B		0.34 - 0.36	47 - 50
1,2,3,6,7,8-HexaCDF	pg/L		DNQ Est. Conc. 38	ND	ND	DNQ Est. Conc. 38					EPA 1613B		0.22 - 1.5	47 - 50
1,2,3,7,8,9-HexaCDD	pg/L		ND	ND	ND	ND					EPA 1613B		0.30 - 0.32	47 - 50
1,2,3,7,8,9-HexaCDF	pg/L		ND	ND	ND	ND					EPA 1613B		0.20 - 1.8	47 - 50
1,2,3,7,8-PentaCDD	pg/L		ND	ND	ND	ND					EPA 1613B		0.36 - 0.83	47 - 50
1,2,3,7,8-PentaCDF	pg/L		ND	ND	ND	DNQ Est. Conc. 1.6					EPA 1613B		0.32 - 1.6	47 - 50
1,2,3-Trichloropropane	ug/L		ND	ND	ND	DNQ Est. Conc. 0.0023					SRL-524M-TCP		0.0012	0.0050
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	ND					EPA 625.1		0.51	1.0
1,2-Dichlorobenzene	ug/L		ND	ND	ND	ND					EPA 624.1		0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L		ND	ND	ND	ND					EPA 624.1		0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L		ND	ND	ND	ND					EPA 624.1		0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L		ND	ND	ND	ND					EPA 625.1		0.63	1.0
1,2-trans-Dichloroethylene	ug/L		ND	ND	ND	ND					EPA 624.1		0.06 - 0.20	0.50
1,3-Dichlorobenzene	ug/L		ND	ND	ND	ND					EPA 624.1		0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L		ND	ND	0.003	0.02					Calculated		Not Applicable	Not Applicable
1,4-Dichlorobenzene	ug/L		ND	ND	ND	ND					EPA 624.1		0.16 - 0.25	0.50
1,4-Dioxane	ug/L		0.86	0.78	0.88	0.95					SW-846 8270MOD 1,4-Dioxane		0.26	0.40
2,3,4,6,7,8-HexaCDF	pg/L		ND	ND	ND	DNQ Est. Conc. 0.48					EPA 1613B		0.19 - 1.4	47 - 50
2,3,4,7,8-PentaCDF	pg/L		ND	ND	ND	ND					EPA 1613B		0.39 - 1.8	47 - 50
2,3,7,8-TCDD	pg/L		ND	ND	ND	ND					EPA 1613B		0.28 - 1.1	10 - 9.4
2,3,7,8-TetraCDF	pg/L		ND	ND	ND	ND					EPA 1613B		0.22 - 0.29	10 - 9.4
2,4,6-Trichlorophenol	ug/L	ND	ND	ND	ND	ND					EPA 625.1		0.64	1.0
2,4-Dichlorophenol	ug/L		ND	ND	ND	ND					EPA 625.1		0.60	1.0
2,4-Dimethylphenol	ug/L		ND	ND	ND	ND					EPA 625.1		0.44	1.0
2,4-Dinitrophenol	ug/L		ND	ND	ND	ND					EPA 625.1		1.5	5.0
2,4-Dinitrotoluene	ug/L		ND	ND	ND	ND					EPA 625.1		0.37	1.0
2,6-Dinitrotoluene	ug/L		ND	ND	ND	ND					EPA 625.1		0.50	1.0
2-Chloroethylvinyl ether	ug/L		ND	ND	ND	ND					EPA 624.1		0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L		ND	ND	ND	ND					EPA 625.1		0.41	1.0
2-Chlorophenol	ug/L		ND	ND	ND	ND					EPA 625.1		0.41	1.0
2-Methyl-4,6-dinitrophenol	ug/L		ND	ND	ND	ND					EPA 625.1		1.3	5.0
2-Nitrophenol	ug/L		ND	ND	ND	ND					EPA 625.1		0.31	1.0
3,3'-Dichlorobenzidine	ug/L		ND	ND	ND	ND					EPA 625.1		0.54	1.0
3-Methyl-4-chlorophenol	ug/L		ND	ND	ND	ND					EPA 625.1		0.69	1.0
4,4-DDD	ug/L		ND	ND	ND	DNQ Est. Conc. 0.004					608.3/8081/8082		0.003	0.01
4,4-DDE	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.002	0.01
4,4-DDT	ug/L		ND	ND	ND	DNQ Est. Conc. 0.004					608.3/8081/8082		0.004	0.01
4-Bromophenyl phenyl ether	ug/L		ND	ND	ND	ND					EPA 625.1		0.58	1.0
4-Chlorophenyl phenyl ether	ug/L		ND	ND	ND	ND					EPA 625.1		0.63	1.0
4-Nitrophenol	ug/L		ND	ND	ND	ND					EPA 625.1		1.6	5.0
Acenaphthene	ug/L		ND	ND	ND	ND					EPA 625.1		0.50	1.0
Acenaphthylene	ug/L		ND	ND	ND	ND					EPA 625.1		0.50	1.0
Acrolein	ug/L		ND	ND	ND	ND					EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L		ND	ND	ND	ND					EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.002	0.005
alpha-BHC	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.003	0.01
alpha-Endosulfan	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.003	0.01
Ammonia nitrogen	mg/L	2.34	3.86	1.25	1.9	3.86	6.1	3.0			SM 4500 NH3 H		0.020 - 0.030	0.100
Anthracene	ug/L		ND	ND	ND	ND					EPA 625.1		0.56	1.0
Antimony	ug/L		DNQ Est. Conc. 0.48	DNQ Est. Conc. 0.48	0.4	0.56					EPA 200.8	0.5	0.12	0.50
Aroclor 1016	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.1	0.5
Aroclor 1221	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.1	0.5
Aroclor 1232	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.1	0.5

Pomona Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Aroclor 1242	ug/L		ND		ND		ND		ND		ND
Aroclor 1248	ug/L		ND		ND		ND		ND		ND
Aroclor 1254	ug/L		ND		ND		ND		ND		ND
Aroclor 1260	ug/L		ND		ND		ND		ND		ND
Arsenic	ug/L		DNQ Est. Conc. 0.80				1.1		1.38		
Benzene	ug/L		ND		ND		ND		ND		ND
Benzidine	ug/L						ND				
Benzo(a)anthracene	ug/L						ND				
Benzo(a)pyrene	ug/L		ND				ND		ND		
Benzo(b)fluoranthene	ug/L						ND				
Benzo(g,h,i)perylene	ug/L						ND				
Benzo(k)fluoranthene	ug/L						ND				
Beryllium	ug/L		ND				ND		ND		
beta-BHC	ug/L		ND		ND		ND		ND		ND
beta-Endosulfan	ug/L						ND				
Bis(2-chloroethoxy)methane	ug/L						ND				
bis(2-Chloroethyl) ether	ug/L						ND				
bis(2-Chloroisopropyl) ether	ug/L						ND				
bis(2-Ethylhexyl) phthalate	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BOD	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	mg/L	0.31	0.31	0.32	0.29	0.30	0.31	0.29	0.32	0.35	0.38
Bromodichloromethane	ug/L	3.8	11.9	8.2	9.6	3.4	6.3	9.6	12.1	12.8	10.1
Bromoform	ug/L	ND	DNQ Est. Conc. 0.22	DNQ Est. Conc. 0.21	ND	ND	DNQ Est. Conc. 0.13	ND	DNQ Est. Conc. 0.24	DNQ Est. Conc. 0.38	DNQ Est. Conc. 0.18
Butyl benzyl phthalate	ug/L						ND				
Cadmium	ug/L		DNQ Est. Conc. 0.041				DNQ Est. Conc. 0.033		ND		
Carbon tetrachloride	ug/L		ND		ND		ND		ND		ND
Chloride	mg/L	139	130	135	131	138	148	146	139	159	145
Chlorobenzene	ug/L		ND		ND		ND		ND		ND
Chloroethane	ug/L		ND		ND		ND		ND		ND
Chloroform	ug/L	11.2	27.3	19.6	38.1	13.9	19	20.4	27.7	25.7	28
Chlorpyrifos	ug/L						ND				
Chromium III	ug/L						0.91				
Chromium VI	ug/L		0.15				0.17		0.18		
Chrysene	ug/L						ND				
Copper	ug/L		4.05				3.99		3.3		
Cyanide	ug/L		DNQ Est. Conc. 2.62				DNQ Est. Conc. 2.60		DNQ Est. Conc. 2.58		
delta-BHC	ug/L		ND		ND		ND		ND		ND
Diazinon	ug/L		ND				ND		ND		
Dibenzo(a,h)anthracene	ug/L						ND				
Dibromochloromethane	ug/L	0.63	2.7	1.7	1.7	0.51	1.5	2.5	2.5	3.1	2.1
Dieldrin	ug/L		ND		DNQ Est. Conc. 0.005		ND		ND		ND
Diethyl phthalate	ug/L						ND				
Dimethyl phthalate	ug/L						ND				
Di-n-butyl phthalate	ug/L						ND				
Di-n-octyl phthalate	ug/L						ND				
Dissolved oxygen	mg/L	4.6	5	6.4	5.9	5	4.1	4.3	4.2	4.2	3.5
E. coli	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ug/L						ND				
Endrin	ug/L		ND		ND		ND		ND		ND
Endrin aldehyde	ug/L						ND				
Ethylbenzene	ug/L		ND		ND		ND		ND		ND
Fluoranthene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ug/L						ND				
Fluoride	mg/L		0.234		0.213		0.226		0.279		0.345
gamma-BHC	ug/L		ND		ND		ND		ND		ND
Gross alpha radioactivity	pCi/L		2.52				-3.67		1.38		
Gross beta radioactivity	pCi/L		9.26				8.54		14.2		
Heptachlor	ug/L		ND		0.01		ND		ND		ND
Heptachlor epoxide	ug/L		ND		ND		ND		ND		ND
Hexachlorobenzene	ug/L		ND				ND		ND		
Hexachlorobutadiene	ug/L						ND				
Hexachlorocyclopentadiene	ug/L		ND				ND		ND		
Hexachloroethane	ug/L						ND				

Pomona Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Recycled Water Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average	Max Daily	12-Month Rolling Average				
Aroclor 1242	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.1	0.5
Aroclor 1248	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.1	0.5
Aroclor 1254	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.1	0.5
Aroclor 1260	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.1	0.5
Arsenic	ug/L		1.1	DNQ Est. Conc. 0.80	0.9	1.38					EPA 200.8	2	0.05 - 0.07	1.00
Benzene	ug/L		ND	ND	ND	ND					EPA 624.1		0.06 - 0.09	0.50
Benzidine	ug/L		ND	ND	ND	ND					EPA 625.1		0.77	5.0
Benzo(a)anthracene	ug/L		ND	ND	ND	ND					EPA 625.1		0.46	1.0
Benzo(a)pyrene	ug/L		ND	ND	ND	ND					EPA 610	10	0.013 - 0.20	0.020 - 1.0
Benzo(b)fluoranthene	ug/L		ND	ND	ND	ND					EPA 610	10	0.015	0.020
Benzo(g,h,i)perylene	ug/L		ND	ND	ND	ND					EPA 625.1		0.52	1.0
Benzo(k)fluoranthene	ug/L		ND	ND	ND	ND					EPA 610	10	0.014	0.020
Beryllium	ug/L		ND	ND	ND	ND					EPA 200.8	0.5	0.023 - 0.026	0.25
beta-BHC	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.003	0.005
beta-Endosulfan	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.004	0.01
Bis(2-chloroethoxy)methane	ug/L		ND	ND	ND	ND					EPA 625.1		0.28	1.0
bis(2-Chloroethyl) ether	ug/L		ND	ND	ND	ND					EPA 625.1		0.27	1.0
bis(2-Chloroisopropyl) ether	ug/L		ND	ND	ND	ND					EPA 625.1		0.25	1.0
bis(2-Ethylhexyl) phthalate	ug/L	ND	ND	ND	ND	ND					EPA 625.1		0.55	1.0
BOD	mg/L	ND	ND	ND	ND	ND	45	20			SM 5210B		Not Applicable	3 - 3.2
Boron	mg/L	0.38	0.31	0.29	0.32	0.38		1.0	1.0		EPA 200.8		0.008 - 0.013	0.020
Bromodichloromethane	ug/L	6.5	3.6	3.4	8.2	12.8					EPA 624.1		0.11 - 0.15	0.50
Bromoform	ug/L	DNQ Est. Conc. 0.15	ND	ND	ND	DNQ Est. Conc. 0.38					EPA 624.1		0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L		ND	ND	ND	ND					EPA 625.1		0.58	1.0
Cadmium	ug/L		DNQ Est. Conc. 0.031	ND	ND	DNQ Est. Conc. 0.041					EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L		ND	ND	ND	ND					EPA 624.1		0.18 - 0.34	0.50
Chloride	mg/L	148	153	130	143	159		180	150		EPA 300.0		0.024 - 0.144	10 - 20
Chlorobenzene	ug/L		ND	ND	ND	ND					EPA 624.1		0.07 - 0.10	0.50
Chloroethane	ug/L		ND	ND	ND	ND					EPA 624.1		0.22 - 0.31	0.50
Chloroform	ug/L	15.9	16.8	11.2	22	38.1					EPA 624.1		0.08 - 0.35	0.50
Chlorpyrifos	ug/L			ND	ND	ND					SW-846 8141A		0.0035	0.050
Chromium III	ug/L		0.97	0.91	0.94	0.97					Calculated		Not Applicable	Not Applicable
Chromium VI	ug/L		0.11	0.11	0.15	0.18					EPA 218.6 (Dissolved)		0.02	0.05
Chrysene	ug/L		ND	ND	ND	ND					EPA 610	10	0.014	0.020
Copper	ug/L		3.64	3.3	3.8	4.05					EPA 200.8	0.5	0.12 - 0.14	0.50
Cyanide	ug/L		DNQ Est. Conc. 3.10	DNQ Est. Conc. 2.58	ND	DNQ Est. Conc. 3.10					SM 4500 CN E	5	2.00	5.00
delta-BHC	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.003	0.005
Diazinon	ug/L		ND	ND	ND	ND					SW-846 8141A		0.0026 - 0.22	0.020 - 1.0
Dibenzo(a,h)anthracene	ug/L		ND	ND	ND	ND					EPA 610	10	0.014	0.020
Dibromochloromethane	ug/L	1.2	0.51	0.51	1.7	3.1					EPA 624.1		0.11 - 0.13	0.50
Dieldrin	ug/L		DNQ Est. Conc. 0.002	ND	ND	DNQ Est. Conc. 0.005	0.00028	0.00014			608.3/8081/8082		0.002 - 0.003	0.01
Diethyl phthalate	ug/L		ND	ND	ND	ND					EPA 625.1		0.42	1.0
Dimethyl phthalate	ug/L		ND	ND	ND	ND					EPA 625.1		0.41	1.0
Di-n-butyl phthalate	ug/L		ND	ND	ND	ND					EPA 625.1		0.59	1.0
Di-n-octyl phthalate	ug/L		ND	ND	ND	ND					EPA 625.1		0.69	1.0
Dissolved oxygen	mg/L	4	4.2	3.5	5	6.4					HACH 10360 LDO		Not Applicable	0.2
E. coli	No./100mL	ND	ND	ND	ND	ND					SM 9223 Quanti-Tray		Not Applicable	1
Endosulfan sulfate	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.004	0.01
Endrin	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.004	0.01
Endrin aldehyde	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.003	0.01
Ethylbenzene	ug/L		ND	ND	ND	ND					EPA 624.1		0.11 - 0.15	0.50
Fluoranthene	ug/L	ND	ND	ND	ND	ND					EPA 625.1		0.69	1.0
Fluorene	ug/L		ND	ND	ND	ND					EPA 625.1		0.58	1.0
Fluoride	mg/L		0.253	0.213	0.258	0.345					SM 4500 F C		0.040	0.100
gamma-BHC	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.003	0.01
Gross alpha radioactivity	pCi/L		-1.46	-3.67	0.46	2.52		15		15 P	EPA 900.0		12.3 - 6.24	3.00
Gross beta radioactivity	pCi/L		13.2	8.54	11.3	14.2		50			EPA 900.0		1.25 - 6.66	4.00
Heptachlor	ug/L		ND	ND	0.002	0.01					608.3/8081/8082		0.002	0.01
Heptachlor epoxide	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.003	0.01
Hexachlorobenzene	ug/L		ND	ND	ND	ND					EPA 625.1		0.0097 - 0.47	0.25 - 1.0
Hexachlorobutadiene	ug/L		ND	ND	ND	ND					EPA 625.1		0.96	1.0
Hexachlorocyclopentadiene	ug/L		ND	ND	ND	ND					EPA 625.1		0.092 - 2.0	1.0 - 5.0
Hexachloroethane	ug/L		ND	ND	ND	ND					EPA 625.1		0.81	1.0

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Indeno (1,2,3-cd) pyrene	ug/L						ND				
Iron	ug/L		25.9				20.5		23		
Isophorone	ug/L						ND				
Lead	ug/L	0.26	0.33	0.31	0.34	0.27	DNQ Est. Conc. 0.23	0.26	DNQ Est. Conc. 0.24	DNQ Est. Conc. 0.22	0.26
Mercury	ug/L		0.002				0.008		0.014		
Methyl bromide (Bromomethane)	ug/L		ND		ND		ND		ND		ND
Methyl chloride (Chloromethane)	ug/L		ND		ND		ND		DNQ Est. Conc. 0.21		ND
Methyl tert-butyl ether	ug/L		ND				ND		ND		
Methylene chloride	ug/L		ND		ND		ND		ND		ND
N-Nitrosodi-n-propylamine	ug/L						ND		ND		
n-Nitrosodimethylamine (NDMA)	ug/L	DNQ Est. Conc. 0.0095	0.021	0.031	0.032	0.051	0.031	0.05	0.056	0.048	0.048
n-Nitrosodiphenylamine	ug/L						ND				
Naphthalene	ug/L		ND				ND		ND		
Nickel	ug/L		1.06				1.51		1.24		
Nitrate + nitrite as nitrogen	mg/L	5.09	6.05	6.73	6.66	7.15	6.49	7.75	6.27	5.37	6.31
Nitrate as nitrogen	mg/L	4.98	5.97	6.6	6.6	7.09	6.42	7.69	6.09	5.24	6.04
Nitrite as nitrogen	mg/L	0.11	0.08	0.134	0.059	0.063	0.066	0.058	0.179	0.13	0.271
Nitrobenzene	ug/L						ND				
OctaCDD	pg/L						ND				
OctaCDF	pg/L						DNQ Est. Conc. 1.5				
Oil and grease	mg/L		ND				ND		ND		
Organic nitrogen	mg/L	1.87	2	1.32	2.12	1.74	1.68	0.81	1.43	1.34	1.24
Orthophosphate-P	mg/L		0.057				0.116		0.156		
PCB-037	pg/L						DNQ Est. Conc. 4.5				
PCB-052	pg/L						DNQ Est. Conc. 12 (5)				
PCB-066	pg/L						ND				
PCB-070 and 074 (Co: 61,70,74,76)	pg/L						ND				
PCB-077	pg/L						DNQ Est. Conc. 3.7				
PCB-081	pg/L						ND				
PCB-087 and 119 (Co: 86,87,97,108,119)	pg/L						DNQ Est. Conc. 5.3				
PCB-099	pg/L						DNQ Est. Conc. 2.4				
PCB-101 (Co: 90/101/113)	pg/L						ND				
PCB-105	pg/L						DNQ Est. Conc. 2.6				
PCB-110 (Co: 110,115)	pg/L						ND				
PCB-114	pg/L						ND				
PCB-118	pg/L						DNQ Est. Conc. 5.5				
PCB-123	pg/L						ND				
PCB-126	pg/L						ND				
PCB-128 (Co: 128,166)	pg/L						ND				
PCB-138 (Co: 129,138,163)	pg/L						ND				
PCB-149 (Co: 147,149)	pg/L						ND				
PCB-151 (Co: 135,151)	pg/L						DNQ Est. Conc. 1.2				
PCB-158	pg/L						DNQ Est. Conc. 0.49				
PCB-167	pg/L						DNQ Est. Conc. 0.65				
PCB-169	pg/L						DNQ Est. Conc. 0.55				
PCB-170	pg/L						DNQ Est. Conc. 1.4				
PCB-177	pg/L						DNQ Est. Conc. 0.69				
PCB-183	pg/L						ND				
PCB-187	pg/L						DNQ Est. Conc. 0.96				
PCB-189	pg/L						ND				
PCB-194	pg/L						DNQ Est. Conc. 0.75				
PCB-201	pg/L						ND				
PCB-206	pg/L						ND				
PCB153/168	pg/L						ND				
PCB156/157	pg/L						ND				
PCB18/30	pg/L						DNQ Est. Conc. 14				
PCB180/193	pg/L						ND				
PCB20/28	pg/L						DNQ Est. Conc. 19 (5)				
PCB44/47/65	pg/L						ND				
PCB49/69	pg/L						DNQ Est. Conc. 4.1				
Pentachlorophenol	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perchlorate	ug/L	0.52	0.42	0.44	0.83	0.44	DNQ Est. Conc. 0.42	0.54	0.27	0.46	0.7
pH	SU	7.4	7.5	7.5	7.5	7.3	7.3	7.3	7.4	7.4	7.3

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Recycled Water Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average	Max Daily	12-Month Rolling Average				
Indeno (1,2,3-cd) pyrene	ug/L		ND	ND	ND	ND					EPA 610	10	0.013	0.020
Iron	ug/L		26.6	20.5	24	26.6					EPA 200.8		5.7 - 8.8	20.0
Isophorone	ug/L		ND	ND	ND	ND					EPA 625.1		0.28	1.0
Lead	ug/L	DNQ Est. Conc. 0.18	0.26	DNQ Est. Conc. 0.18	0.5	0.34	166 (1)				EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L		0.004	0.002	0.007	0.014					EPA 1631E		0.00010	0.00050
Methyl bromide (Bromomethane)	ug/L		ND	ND	ND	ND					EPA 624.1		0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L		ND	ND	ND	DNQ Est. Conc. 0.21					EPA 624.1		0.19 - 0.41	0.50
Methyl tert-butyl ether	ug/L		ND	ND	ND	ND					EPA 624.1		0.08 - 0.40	0.50
Methylene chloride	ug/L		ND	ND	ND	ND					EPA 624.1		0.16 - 0.46	0.50
N-Nitrosodi-n-propylamine	ug/L		ND	ND	ND	ND					EPA 1625B (Modified)		0.00063 - 0.00138	0.0020 - 0.010
n-Nitrosodimethylamine (NDMA)	ug/L	0.042	0.031	DNQ Est. Conc. 0.0095	0.04	0.056					EPA 1625B (Modified)		0.0005 - 0.00052	0.0020 - 0.010
n-Nitrosodiphenylamine	ug/L		ND	ND	ND	ND					EPA 1625B (Modified)		0.00132 - 0.00566	0.010 - 0.050
Naphthalene	ug/L		ND	ND	ND	ND					EPA 625.1		0.20	1.0
Nickel	ug/L		1.09	1.06	1.23	1.51					EPA 200.8	1	0.08 - 0.50	1.00
Nitrate + nitrite as nitrogen	mg/L	7.43	6.7	5.09	6.5	7.75		8			SM 4500 NO3 F		0.097 - 0.108	0.230
Nitrate as nitrogen	mg/L	7.27	6.12	4.98	6.3	7.69					SM 4500 NO3 F		Not Applicable	0.200
Nitrite as nitrogen	mg/L	0.156	0.575	0.058	0.2	0.575		1			SM 4500 NO3 F		0.012	0.030
Nitrobenzene	ug/L		ND	ND	ND	ND					EPA 625.1		0.31	1.0
OctaCDD	pg/L		ND	ND	ND	ND					EPA 1613B		0.50 - 0.68	100 - 94
OctaCDF	pg/L		600	DNQ Est. Conc. 1.5	300	600					EPA 1613B		0.65 - 2.1	100 - 94
Oil and grease	mg/L		ND	ND	ND	ND	15	10			EPA 1664A		1.0 - 2.1	5.4
Organic nitrogen	mg/L	1.31	1.74	0.81	2	2.12					Calculated		Not Applicable	0.200
Orthophosphate-P	mg/L		0.232	0.057	0.14	0.232					SM4500-P G		0.010	0.030
PCB-037	pg/L			DNQ Est. Conc. 4.5	ND	DNQ Est. Conc. 4.5					EPA 1668		1.3	190
PCB-052	pg/L			DNQ Est. Conc. 12 (5)	ND	DNQ Est. Conc. 12 (5)					EPA 1668		0.80	190
PCB-066	pg/L			ND	ND	ND					EPA 1668		0.50	190
PCB-070 and 074 (Co: 61,70,74,76)	pg/L			ND	ND	ND					EPA 1668		0.52	760
PCB-077	pg/L			DNQ Est. Conc. 3.7	ND	DNQ Est. Conc. 3.7					EPA 1668		0.56	19
PCB-081	pg/L			ND	ND	ND					EPA 1668		0.59	19
PCB-087 and 119 (Co: 86,87,97,108,119)	pg/L			DNQ Est. Conc. 5.3	ND	DNQ Est. Conc. 5.3					EPA 1668		0.77	1100
PCB-099	pg/L			DNQ Est. Conc. 2.4	ND	DNQ Est. Conc. 2.4					EPA 1668		0.72	190
PCB-101 (Co: 90/101/113)	pg/L			ND	ND	ND					EPA 1668		0.82	570
PCB-105	pg/L			DNQ Est. Conc. 2.6	ND	DNQ Est. Conc. 2.6					EPA 1668		0.69	19
PCB-110 (Co: 110,115)	pg/L			ND	ND	ND					EPA 1668		0.67	380
PCB-114	pg/L			ND	ND	ND					EPA 1668		0.73	19
PCB-118	pg/L			DNQ Est. Conc. 5.5	ND	DNQ Est. Conc. 5.5					EPA 1668		0.62	19
PCB-123	pg/L			ND	ND	ND					EPA 1668		0.70	19
PCB-126	pg/L			ND	ND	ND					EPA 1668		0.70	19
PCB-128 (Co: 128,166)	pg/L			ND	ND	ND					EPA 1668		0.28	380
PCB-138 (Co: 129,138,163)	pg/L			ND	ND	ND					EPA 1668		0.29	570
PCB-149 (Co: 147,149)	pg/L			ND	ND	ND					EPA 1668		0.29	380
PCB-151 (Co: 135,151)	pg/L			DNQ Est. Conc. 1.2	ND	DNQ Est. Conc. 1.2					EPA 1668		0.29	380
PCB-158	pg/L			DNQ Est. Conc. 0.49	ND	DNQ Est. Conc. 0.49					EPA 1668		0.22	190
PCB-167	pg/L			DNQ Est. Conc. 0.65	ND	DNQ Est. Conc. 0.65					EPA 1668		0.20	19
PCB-169	pg/L			DNQ Est. Conc. 0.55	ND	DNQ Est. Conc. 0.55					EPA 1668		0.20	19
PCB-170	pg/L			DNQ Est. Conc. 1.4	ND	DNQ Est. Conc. 1.4					EPA 1668		0.29	190
PCB-177	pg/L			DNQ Est. Conc. 0.69	ND	DNQ Est. Conc. 0.69					EPA 1668		0.25	190
PCB-183	pg/L			ND	ND	ND					EPA 1668		0.21	190
PCB-187	pg/L			DNQ Est. Conc. 0.96	ND	DNQ Est. Conc. 0.96					EPA 1668		0.19	190
PCB-189	pg/L			ND	ND	ND					EPA 1668		0.20	19
PCB-194	pg/L			DNQ Est. Conc. 0.75	ND	DNQ Est. Conc. 0.75					EPA 1668		0.30	190
PCB-201	pg/L			ND	ND	ND					EPA 1668		0.19	190
PCB-206	pg/L			ND	ND	ND					EPA 1668		0.91	190
PCB153/168	pg/L			ND	ND	ND					EPA 1668		0.23	380
PCB156/157	pg/L			ND	ND	ND					EPA 1668		0.25	38
PCB18/30	pg/L			DNQ Est. Conc. 14	ND	DNQ Est. Conc. 14					EPA 1668		0.62	380
PCB180/193	pg/L			ND	ND	ND					EPA 1668		0.22	380
PCB20/28	pg/L			DNQ Est. Conc. 19 (5)	ND	DNQ Est. Conc. 19 (5)					EPA 1668		1.4	380
PCB44/47/65	pg/L			ND	ND	ND					EPA 1668		0.79	570
PCB49/69	pg/L			DNQ Est. Conc. 4.1	ND	DNQ Est. Conc. 4.1					EPA 1668		0.70	380
Pentachlorophenol	ug/L	ND	ND	ND	ND	ND					EPA 625.1		0.82	1.0
Perchlorate	ug/L	0.58	0.31	0.27	0.46	0.83					EPA 331.0		0.020 - 0.086	0.05 - 0.50
pH	SU	7.2	7.1	7.1	7.4	7.5			(6)		SM 4500 H+ B		Not Applicable	Not Applicable

Pomona Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Phenanthrene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	ug/L	DNQ Est. Conc. 0.33	ND	ND	ND	DNQ Est. Conc. 0.77	DNQ Est. Conc. 0.26	DNQ Est. Conc. 0.45	ND	ND	ND
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L		ND		ND		ND		ND		ND
Polychlorinated Biphenyls (PCBs), Sum as Congeners	pg/L						ND				
Pyrene	ug/L						ND				
Radium-226 + radium-228	pCi/L		0.211				0.806		0.522		
Selenium	ug/L	DNQ Est. Conc. 0.40	DNQ Est. Conc. 0.48	DNQ Est. Conc. 0.50	DNQ Est. Conc. 0.42	DNQ Est. Conc. 0.47	DNQ Est. Conc. 0.51	DNQ Est. Conc. 0.60	DNQ Est. Conc. 0.46	DNQ Est. Conc. 0.29	DNQ Est. Conc. 0.37
Settleable Solids	mL/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ug/L	ND	ND	ND	ND	DNQ Est. Conc. 0.02	DNQ Est. Conc. 0.02	DNQ Est. Conc. 0.02	ND	DNQ Est. Conc. 0.02	DNQ Est. Conc. 0.02
Strontium-90	pCi/L		0.69				0.557		0.267		
Sulfate	mg/L	73.8	71.5	87.9	67.6	70.3	89	101	99.3	88.7	91.4
Surfactant (CTAS)	mg/L		DNQ Est. Conc. 0.08				ND		ND		ND
Surfactant (MBAS)	mg/L		DNQ Est. Conc. 0.08		DNQ Est. Conc. 0.07		DNQ Est. Conc. 0.06		DNQ Est. Conc. 0.05		DNQ Est. Conc. 0.07
Technical chlordane	ug/L		ND				ND		ND		
Temperature	Degrees F	70.7	71.3	73.1	76.1	78.1	81.5	84	85.7	86.2	83
Tetrachloroethylene	ug/L		ND		ND		ND		ND		ND
Thallium	ug/L		ND				ND		ND		
Toluene	ug/L		ND		ND		DNQ Est. Conc. 0.04		ND		DNQ Est. Conc. 0.05
Total chromium	ug/L		1.41				1.07		0.95		
Total coliform	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total dissolved solids	mg/L	675	557	602	578	562	633	655	648	587	610
Total hardness	mg/L	226	219	218	236	228	232	227	226	196	219
Total Kjeldahl Nitrogen (TKN)	mg/L	3.6	3.55	2.85	3.38	3.28	3.02	2.41	3.1	2.92	3.85
Total nitrogen	mg/L	8.69	9.6	9.58	10	10.4	9.52	10.2	9.37	8.3	10.2
Total phosphorus	mg/L		0.122				0.189		0.211		0.346
Total residual chlorine	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Suspended Solids	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total trihalomethanes	ug/L	15.6	41.9	29.5	49.4	17.8	26.8	32.5	42.3	41.6	40.2
Toxaphene	ug/L		ND		ND		ND		ND		ND
Toxic equivalence	pg/L					ND					
Trichloroethylene	ug/L		ND		ND		ND		ND		ND
Tritium	pCi/L		-91				5.41		-70.3		
Turbidity (flow proportioned avg daily value)	NTU	DNQ Est. Conc. 0.40	0.53	0.28	0.16	DNQ Est. Conc. 0.35	DNQ Est. Conc. 0.45	DNQ Est. Conc. 0.45	DNQ Est. Conc. 0.45	DNQ Est. Conc. 0.40	0.18
Uranium	pCi/L		0.556				0.448		0.773		
Vinyl chloride	ug/L		ND		ND		ND		ND		ND
Zinc	ug/L		68.1				62		48.5		

Pomona Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Recycled Water Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average	Max Daily	12-Month Rolling Average				
Phenanthrene	ug/L	ND	ND	ND	ND	ND					EPA 625.1		0.59	1.0
Phenol	ug/L	DNQ Est. Conc. 0.24	ND	ND	ND	DNQ Est. Conc. 0.77					EPA 625.1		0.24	1.0
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L		ND	ND	ND	ND					Calculated		Not Applicable	Not Applicable
Polychlorinated Biphenyls (PCBs), Sum as Congeners	pg/L			ND	ND	ND					Calculated		Not Applicable	Not Applicable
Pyrene	ug/L		ND	ND	ND	ND					EPA 625.1		0.60	1.0
Radium-226 + radium-228	pCi/L		0.928	0.211	0.617	0.928		5		5 P	EPA 903.0		.518 - 1.05	5.00
Selenium	ug/L	DNQ Est. Conc. 0.38	DNQ Est. Conc. 0.55	DNQ Est. Conc. 0.29	ND	DNQ Est. Conc. 0.60	6.2 (2)	4.7 (2)			EPA 200.8	2	0.04	1.00
Settleable Solids	mL/L	ND	ND	ND	ND	ND	0.3	0.1			SM 2540F		Not Applicable	0.1
Silver	ug/L	DNQ Est. Conc. 0.02	DNQ Est. Conc. 0.02	ND	ND	DNQ Est. Conc. 0.02	15	4.2			EPA 200.8	0.25	0.02	0.20
Strontium-90	pCi/L		0.264	0.264	0.44	0.69		8		8 P	EPA 905.0		.363 - 1.23	3.00
Sulfate	mg/L	88.7	75.5	67.6	84	101		300	300		EPA 300.0		0.040 - 0.161	2.50 - 5.00
Surfactant (CTAS)	mg/L		ND	ND	ND	DNQ Est. Conc. 0.08					SM 5540D		0.06 - 0.08	0.10
Surfactant (MBAS)	mg/L		0.074	DNQ Est. Conc. 0.05	ND	DNQ Est. Conc. 0.08		0.5			SM 5540C		0.023 - 0.03	0.050 - 0.10
Technical chlordane	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.02	0.05
Temperature	Degrees F	76.7	72.7	70.7	78	86.2	86 (3)				EPA 170.1 (oF)		Not Applicable	Not Applicable
Tetrachloroethylene	ug/L		ND	ND	ND	ND					EPA 624.1		0.16 - 0.18	0.50
Thallium	ug/L		ND	ND	ND	ND					EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L		DNQ Est. Conc. 0.13	ND	ND	DNQ Est. Conc. 0.13					EPA 624.1		0.04 - 0.15	0.50
Total chromium	ug/L		1.08	0.95	1.13	1.41					EPA 200.8	0.5	0.27 - 0.28	0.50
Total coliform	No./100mL	ND	ND	ND	ND	ND	(4)	(4)	(4)		SM 9222B		Not Applicable	1
Total dissolved solids	mg/L	598	631	557	611	736		750	750		SM 2540C		Not Applicable	35.7 - 83.3
Total hardness	mg/L	199	222	196	221	236					EPA 200.8		Not Applicable	Not Applicable
Total Kjeldahl Nitrogen (TKN)	mg/L	3.65	5.6	2.41	3.4	5.6					EPA 351.2		0.120	0.500 - 1.00
Total nitrogen	mg/L	11.1	12.3	8.3	9.9	12.3					Total Nitrogen Calculation		Not Applicable	Not Applicable
Total phosphorus	mg/L		0.313	0.122	0.236	0.346					SM4500-P H		0.015	0.030 - 0.033
Total residual chlorine	mg/L	ND	ND	ND	ND	ND	0.1				SM 4500 Cl G		0.03	0.10
Total Suspended Solids	mg/L	ND	ND	ND	ND	ND	45	15			SM 2540D		Not Applicable	2.5
Total trihalomethanes	ug/L	23.6	20.9	15.6	31.8	49.4		80			Calculated		Not Applicable	Not Applicable
Toxaphene	ug/L		ND	ND	ND	ND					608.3/8081/8082		0.05	0.5
Toxic equivalence	pg/L		9.1	ND	4.6	9.1					Calculated		Not Applicable	Not Applicable
Trichloroethylene	ug/L		ND	ND	ND	ND					EPA 624.1		0.12 - 0.15	0.50
Tritium	pCi/L		171	-91	44	171		20000		2000 P	EPA 906.0		313 - 348	500
Turbidity (flow proportioned avg daily value)	NTU	DNQ Est. Conc. 0.35	0.73	DNQ Est. Conc. 0.35	0.16	0.73			(7)		SM 2130B		0.080 - 0.12	0.50
Uranium	pCi/L		0.405	0.405	0.546	0.773		20		20 P	EPA 908.0		.109 - .175	1.00
Vinyl chloride	ug/L		ND	ND	ND	ND					EPA 624.1		0.25 - 0.37	0.50
Zinc	ug/L		63.4	48.5	61	68.1					EPA 200.8	1	0.92 - 0.95	1.00

S= Secondary Drinking Water Standard

P= Primary Drinking Water Standard

(1) Wet weather effluent limit.

(2) Dry weather effluent limit.

(3) The temperature of wastes discharged shall not exceed 86ºF except as a result of external ambient temperature.

(4) The number of total coliform bacteria shall not exceed 2.2/100 mL as a 7-day median, 23/100 mL in more than one sample within any 30-day period, and 240/100 mL in any sample.

(5) Possible interference observed. The measured ion ration did not meet qualitative criteria for analysis and results are considered to be an estimated maximum possible concentration.

(6) The pH of reclaimed water shall at all times be within the range 6.0 to 9.0.

(7) Reclaimed water turbidity shall not exceed 5 NTU more than 5% of the time in any 24-hour period (72 minutes) or a daily average of 2 NTU.

San Jose Creek WRP, East, Influent Monitoring

Table 4.4
San Jose Creek East Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
1,1,1-Trichloroethane	ug/L		ND						ND		
1,1,2,2-Tetrachloroethane	ug/L		ND						ND		
1,1,2-Trichloroethane	ug/L		ND						ND		
1,1-Dichloroethane	ug/L		ND						ND		
1,1-Dichloroethene	ug/L		ND						ND		
1,2,4-Trichlorobenzene	ug/L		ND						ND		
1,2-Dichlorobenzene	ug/L		ND						ND		
1,2-Dichloroethane	ug/L		ND						ND		
1,2-Dichloropropane	ug/L		ND						ND		
1,2-Diphenylhydrazine	ug/L		ND						ND		
1,3-Dichlorobenzene	ug/L		ND						ND		
1,3-Dichloropropene (Total)	ug/L		ND						ND		
1,4-Dichlorobenzene	ug/L		ND						ND		
2,3,7,8-TCDD	pg/L		ND						ND		
2,4,6-Trichlorophenol	ug/L		ND						ND		
2,4-Dichlorophenol	ug/L		ND						ND		
2,4-Dimethylphenol	ug/L		ND						ND		
2,4-Dinitrophenol	ug/L		ND						ND		
2,4-Dinitrotoluene	ug/L		ND						ND		
2,6-Dinitrotoluene	ug/L		ND						ND		
2-Chloroethyl vinyl ether (mixed)	ug/L		ND						ND		
2-Chloronaphthalene	ug/L		ND							ND	
2-Chlorophenol	ug/L		ND						ND		
2-Methyl-4,6-dinitrophenol	ug/L		ND						ND		
2-Nitrophenol	ug/L		ND						ND		
3,3'-Dichlorobenzidine	ug/L		ND						ND		
3-Methyl-4-chlorophenol	ug/L		ND						ND		
4,4'-DDD	ug/L		ND						ND		
4,4'-DDE	ug/L		ND						ND		
4,4'-DDT	ug/L		ND						ND		
4-Bromophenyl phenyl ether	ug/L		ND						ND		
4-Chlorophenyl phenyl ether	ug/L		ND						ND		
4-Nitrophenol	ug/L		ND						ND		
Acenaphthene	ug/L		ND						ND		
Acenaphthylene	ug/L		ND						ND		
Acrolein	ug/L		ND						ND		
Acrylonitrile	ug/L		ND						DNQ Est. Conc. 0.38		
Aldrin	ug/L		ND						ND		
alpha-BHC	ug/L		ND						ND		
Anthracene	ug/L		ND						ND		
Antimony	ug/L		0.81						DNQ Est. Conc. 0.48		
Aroclor 1016	pg/L		ND						ND		
Aroclor 1221	pg/L		ND						ND		
Aroclor 1232	pg/L		ND						ND		
Aroclor 1242	pg/L		ND						ND		
Aroclor 1248	pg/L		ND						ND		
Aroclor 1254	pg/L		ND						ND		
Aroclor 1260	pg/L		ND						ND		
Arsenic	ug/L		2.56						2.29		
Benzene	ug/L		ND						ND		
Benzidine	ug/L		ND							ND	
Benzo(a)anthracene	ug/L		ND						ND		
Benzo(a)pyrene	ug/L		ND						ND		
Benzo(b)fluoranthene	ug/L		ND						ND		
Benzo(g,h,i)perylene	ug/L		ND						ND		
Benzo(k)fluoranthene	ug/L		ND						ND		
Beryllium	ug/L		ND						ND		

Table 4.4
San Jose Creek East Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
1,1,1-Trichloroethane	ug/L			ND	ND	ND	EPA 624.1	2	0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L			ND	ND	ND	EPA 624.1	1	0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L			ND	ND	ND	EPA 624.1	1	0.08 - 0.19	0.50
1,1-Dichloroethene	ug/L			ND	ND	ND	EPA 624.1	2	0.21	0.50
1,2,4-Trichlorobenzene	ug/L			ND	ND	ND	EPA 625.1	5	0.51	10.0 - 20.0
1,2-Dichlorobenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L			ND	ND	ND	EPA 624.1	1	0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L			ND	ND	ND	EPA 625.1	1	0.63	10.0 - 20.0
1,3-Dichlorobenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L			ND	ND	ND	Calculated			
1,4-Dichlorobenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.16 - 0.25	0.50
2,3,7,8-TCDD	pg/L			ND	ND	ND	EPA 1613B		0.36 - 1.1	10
2,4,6-Trichlorophenol	ug/L			ND	ND	ND	EPA 625.1	10	0.64	10.0 - 20.0
2,4-Dichlorophenol	ug/L			ND	ND	ND	EPA 625.1	5	0.60	10.0 - 20.0
2,4-Dimethylphenol	ug/L			ND	ND	ND	EPA 625.1	2	0.44	10.0 - 20.0
2,4-Dinitrophenol	ug/L			ND	ND	ND	EPA 625.1	5	1.5	50.0 - 100
2,4-Dinitrotoluene	ug/L			ND	ND	ND	EPA 625.1	5	0.37	10.0 - 20.0
2,6-Dinitrotoluene	ug/L			ND	ND	ND	EPA 625.1	5	0.50	10.0 - 20.0
2-Chloroethyl vinyl ether (mixed)	ug/L			ND	ND	ND	EPA 624.1	1	0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L			ND	ND	ND	EPA 625.1	10	0.41	20.0
2-Chlorophenol	ug/L			ND	ND	ND	EPA 625.1	5	0.41	10.0 - 20.0
2-Methyl-4,6-dinitrophenol	ug/L			ND	ND	ND	EPA 625.1	5	1.3	50.0 - 100
2-Nitrophenol	ug/L			ND	ND	ND	EPA 625.1	10	0.31	10.0 - 20.0
3,3'-Dichlorobenzidine	ug/L			ND	ND	ND	EPA 625.1	5	0.54	10.0 - 20.0
3-Methyl-4-chlorophenol	ug/L			ND	ND	ND	EPA 625.1	1	0.69	10.0 - 20.0
4,4'-DDD	ug/L			ND	ND	ND	EPA 608.3	0.05	0.003	0.10
4,4'-DDE	ug/L			ND	ND	ND	EPA 608.3	0.05	0.002	0.10
4,4'-DDT	ug/L			ND	ND	ND	EPA 608.3	0.01	0.004	0.10
4-Bromophenyl phenyl ether	ug/L			ND	ND	ND	EPA 625.1	5	0.58	10.0 - 20.0
4-Chlorophenyl phenyl ether	ug/L			ND	ND	ND	EPA 625.1	5	0.63	10.0 - 20.0
4-Nitrophenol	ug/L			ND	ND	ND	EPA 625.1	10	1.6	50.0 - 100
Acenaphthene	ug/L			ND	ND	ND	EPA 625.1	1	0.50	10.0 - 20.0
Acenaphthylene	ug/L			ND	ND	ND	EPA 625.1	10	0.50	10.0 - 20.0
Acrolein	ug/L			ND	ND	ND	EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L			ND	ND	DNQ Est. Conc. 0.38	EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L			ND	ND	ND	EPA 608.3	0.005	0.002	0.05
alpha-BHC	ug/L			ND	ND	ND	EPA 608.3	0.01	0.003	0.10
Anthracene	ug/L			ND	ND	ND	EPA 625.1	10	0.56	10.0 - 20.0
Antimony	ug/L			DNQ Est. Conc. 0.48	0.41	0.81	EPA 200.8	0.5	0.12	0.50
Aroclor 1016	pg/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1221	pg/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1232	pg/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1242	pg/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1248	pg/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1254	pg/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1260	pg/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Arsenic	ug/L			2.29	2.43	2.56	EPA 200.8	2	0.05 - 0.07	1.00
Benzene	ug/L			ND	ND	ND	EPA 624.1	2	0.06 - 0.09	0.50
Benzidine	ug/L			ND	ND	ND	EPA 625.1	5	0.77	100
Benzo(a)anthracene	ug/L			ND	ND	ND	EPA 625.1	5	0.46	10.0 - 20.0
Benzo(a)pyrene	ug/L			ND	ND	ND	EPA 625.1	10	0.54	10.0 - 20.0
Benzo(b)fluoranthene	ug/L			ND	ND	ND	EPA 625.1	10	0.61	10.0 - 20.0
Benzo(g,h,i)perylene	ug/L			ND	ND	ND	EPA 625.1	5	0.52	10.0 - 20.0
Benzo(k)fluoranthene	ug/L			ND	ND	ND	EPA 625.1	10	0.53	10.0 - 20.0
Beryllium	ug/L			ND	ND	ND	EPA 200.8	0.5	0.023 - 0.026	0.25

Table 4.4
San Jose Creek East Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
beta-BHC	ug/L		ND						ND		
bis(2-Chloroethoxy) methane	ug/L		ND						ND		
bis(2-Chloroethyl) ether	ug/L		ND						ND		
bis(2-Chloroisopropyl) ether	ug/L		ND						ND		
bis(2-Ethylhexyl) phthalate	ug/L		ND						DNQ Est. Conc. 5.9		
Bromodichloromethane	ug/L		0.52						DNQ Est. Conc. 0.25		
Bromoform	ug/L		0.53						ND		
Butyl benzyl phthalate	ug/L		ND						ND		
Cadmium	ug/L		DNQ Est. Conc. 0.18						DNQ Est. Conc. 0.18		
Carbon tetrachloride	ug/L		ND						ND		
Chlorobenzene	ug/L		ND						ND		
Chlorodibromomethane	ug/L		0.62						DNQ Est. Conc. 0.15		
Chloroethane	ug/L		ND						ND		
Chloroform	ug/L		4.1						6.8		
Chromium VI	ug/L		0.08						0.11		
Chromium, total (24-hour composite)	ug/L		12.8						4.27		
Chrysene	ug/L		ND						ND		
Copper	ug/L		74.3						41.6		
delta-BHC	ug/L		ND						ND		
Di-n-butyl phthalate	ug/L		ND						ND		
Di-n-octyl phthalate	ug/L		ND						ND		
Dibenzo(a,h)anthracene	ug/L		ND						ND		
Dieldrin	ug/L		ND						ND		
Diethyl phthalate	ug/L		ND						ND		
Dimethyl phthalate	ug/L		ND						ND		
Endosulfan I	ug/L		ND						ND		
Endosulfan II	ug/L		ND						ND		
Endosulfan sulfate	ug/L		ND						ND		
Endrin	ug/L		ND						ND		
Endrin aldehyde	ug/L		ND						DNQ Est. Conc. 0.07		
Ethylbenzene	ug/L		ND						DNQ Est. Conc. 0.22		
Fluoranthene	ug/L		ND						ND		
Fluorene	ug/L		ND						ND		
gamma-BHC (Lindane)	ug/L		ND						ND		
Heptachlor	ug/L		ND						ND		
Heptachlor epoxide	ug/L		ND						ND		
Hexachlorobenzene	ug/L		ND						ND		
Hexachlorobutadiene	ug/L		ND						ND		
Hexachlorocyclopentadiene	ug/L		ND						ND		
Hexachloroethane	ug/L		ND							ND	
Indeno (1,2,3-cd) pyrene	ug/L		ND						ND		
Isophorone	ug/L		ND						ND		
Lead	ug/L	1.30	2.17	1.90	1.63	1.62	1.84	1.76	2.58	1.47	1.69
Mercury	ug/L		0.11						0.18		
Methyl bromide (Bromomethane)	ug/L		ND						ND		
Methyl chloride (Chloromethane)	ug/L		ND						ND		
Methylene chloride	ug/L		1.3						ND		
n-Nitrosodi-n-propylamine	ug/L		ND						ND		
n-Nitrosodimethylamine (NDMA)	ug/L		DNQ Est. Conc. 0.014						DNQ Est. Conc. 0.019		
n-Nitrosodiphenylamine	ug/L		ND						DNQ Est. Conc. 0.087		
Naphthalene	ug/L		ND						ND		
Nickel	ug/L		17.1						27.0		
Nitrobenzene	ug/L		ND						ND		
PCB-037	pg/L								60		
PCB-052	pg/L								450 (1)		
PCB-066	pg/L								220 (1)		

Table 4.4
San Jose Creek East Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
beta-BHC	ug/L			ND	ND	ND	EPA 608.3	0.005	0.003	0.05
bis(2-Chloroethoxy) methane	ug/L			ND	ND	ND	EPA 625.1	5	0.28	10.0 - 20.0
bis(2-Chloroethyl) ether	ug/L			ND	ND	ND	EPA 625.1	1	0.27	10.0 - 20.0
bis(2-Chloroisopropyl) ether	ug/L			ND	ND	ND	EPA 625.1	2	0.25	10.0 - 20.0
bis(2-Ethylhexyl) phthalate	ug/L			ND	ND	DNQ Est. Conc. 5.9	EPA 625.1	5	0.55	10.0 - 20.0
Bromodichloromethane	ug/L			DNQ Est. Conc. 0.25	0.26	0.52	EPA 624.1	2	0.11 - 0.15	0.50
Bromoform	ug/L			ND	0.27	0.53	EPA 624.1	2	0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L			ND	ND	ND	EPA 625.1	10	0.58	10.0 - 20.0
Cadmium	ug/L			DNQ Est. Conc. 0.18	ND	DNQ Est. Conc. 0.18	EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L			ND	ND	ND	EPA 624.1	2	0.18 - 0.34	0.50
Chlorobenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.07 - 0.10	0.50
Chlorodibromomethane	ug/L			DNQ Est. Conc. 0.15	0.31	0.62	EPA 624.1	2	0.11 - 0.13	0.50
Chloroethane	ug/L			ND	ND	ND	EPA 624.1	2	0.22 - 0.31	0.50
Chloroform	ug/L			4.1	5.5	6.8	EPA 624.1	2	0.08 - 0.35	0.50
Chromium VI	ug/L			0.08	0.1	0.11	EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total (24-hour composite)	ug/L			4.27	8.54	12.8	EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L			ND	ND	ND	EPA 625.1	10	0.41	10.0 - 20.0
Copper	ug/L			41.6	58.0	74.3	EPA 200.8	0.5	0.12 - 0.14	0.50
delta-BHC	ug/L			ND	ND	ND	EPA 608.3	0.005	0.003	0.05
Di-n-butyl phthalate	ug/L			ND	ND	ND	EPA 625.1	10	0.59	10.0 - 20.0
Di-n-octyl phthalate	ug/L			ND	ND	ND	EPA 625.1	10	0.69	10.0 - 20.0
Dibenzo(a,h)anthracene	ug/L			ND	ND	ND	EPA 625.1	10	0.58	10.0 - 20.0
Dieldrin	ug/L			ND	ND	ND	EPA 608.3	0.01	0.003	0.10
Diethyl phthalate	ug/L			ND	ND	ND	EPA 625.1	2	0.42	10.0 - 20.0
Dimethyl phthalate	ug/L			ND	ND	ND	EPA 625.1	2	0.41	10.0 - 20.0
Endosulfan I	ug/L			ND	ND	ND	EPA 608.3	0.02	0.003	0.10
Endosulfan II	ug/L			ND	ND	ND	EPA 608.3	0.01	0.004	0.10
Endosulfan sulfate	ug/L			ND	ND	ND	EPA 608.3	0.05	0.004	0.10
Endrin	ug/L			ND	ND	ND	EPA 608.3	0.01	0.004	0.10
Endrin aldehyde	ug/L			ND	ND	DNQ Est. Conc. 0.07	EPA 608.3	0.01	0.003	0.10
Ethylbenzene	ug/L			ND	ND	DNQ Est. Conc. 0.22	EPA 624.1	2	0.11 - 0.15	0.50
Fluoranthene	ug/L			ND	ND	ND	EPA 625.1	1	0.69	10.0 - 20.0
Fluorene	ug/L			ND	ND	ND	EPA 625.1	10	0.58	10.0 - 20.0
gamma-BHC (Lindane)	ug/L			ND	ND	ND	EPA 608.3	0.02	0.003	0.10
Heptachlor	ug/L			ND	ND	ND	EPA 608.3	0.01	0.002	0.10
Heptachlor epoxide	ug/L			ND	ND	ND	EPA 608.3	0.01	0.003	0.10
Hexachlorobenzene	ug/L			ND	ND	ND	EPA 625.1	1	0.47	10.0 - 20.0
Hexachlorobutadiene	ug/L			ND	ND	ND	EPA 625.1	1	0.96	10.0 - 20.0
Hexachlorocyclopentadiene	ug/L			ND	ND	ND	EPA 625.1	5	1.8 - 2.0	50.0 - 100
Hexachloroethane	ug/L			ND	ND	ND	EPA 625.1	1	0.81	20.0
Indeno (1,2,3-cd) pyrene	ug/L			ND	ND	ND	EPA 625.1	10	0.53	10.0 - 20.0
Isophorone	ug/L			ND	ND	ND	EPA 625.1	1	0.28	10.0 - 20.0
Lead	ug/L	2.08	0.92	0.92	1.7	2.58	EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L			0.11	0.15	0.18	EPA 245.1	0.5	0.019	0.04
Methyl bromide (Bromomethane)	ug/L			ND	ND	ND	EPA 624.1	2	0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L			ND	ND	ND	EPA 624.1	2	0.19 - 0.41	0.50
Methylene chloride	ug/L			ND	0.65	1.3	EPA 624.1	2	0.16 - 0.46	0.50
n-Nitrosodi-n-propylamine	ug/L			ND	ND	ND	EPA 1625B (Modified)	5	0.00063 - 0.00138	0.020
n-Nitrosodimethylamine (NDMA)	ug/L			DNQ Est. Conc. 0.014	ND	DNQ Est. Conc. 0.019	EPA 1625B (Modified)	5	0.00052	0.020
n-Nitrosodiphenylamine	ug/L			ND	ND	DNQ Est. Conc. 0.087	EPA 1625B (Modified)		0.00132 - 0.00566	0.10
Naphthalene	ug/L			ND	ND	ND	EPA 625.1	1	0.20	10.0 - 20.0
Nickel	ug/L			17.1	22.1	27.0	EPA 200.8	1	0.08 - 0.50	1.00
Nitrobenzene	ug/L			ND	ND	ND	EPA 625.1	1	0.31	10.0 - 20.0
PCB-037	pg/L			60	60	60	EPA 1668C		19	20
PCB-052	pg/L			450 (1)	450 (1)	450 (1)	EPA 1668C		7.5	100
PCB-066	pg/L			220 (1)	220 (1)	220 (1)	EPA 1668C		4.2	41

Table 4.4
San Jose Creek East Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
PCB-070 and 074 (Co: 61,70,74,76)	pg/L								ND		
PCB-077	pg/L								DNQ Est. Conc. 19		
PCB-081	pg/L								ND		
PCB-087 and 119 (Co: 86,87,97,108,119)	pg/L								270		
PCB-099	pg/L								120		
PCB-101 (Co: 90/101/113)	pg/L								410 (1)		
PCB-105	pg/L								120		
PCB-110 (Co: 110,115)	pg/L								430 (1)		
PCB-114	pg/L								ND		
PCB-118	pg/L								290 (1)		
PCB-123	pg/L								ND		
PCB-126	pg/L								ND		
PCB-128 (Co: 128,166)	pg/L								DNQ Est. Conc. 32		
PCB-138 (Co: 129,138,163)	pg/L								260		
PCB-149 (Co: 147,149)	pg/L								150 (1)		
PCB-151 (Co: 135,151)	pg/L								74		
PCB-153/168	pg/L								210		
PCB-156/157	pg/L								DNQ Est. Conc. 39 (2)		
PCB-158	pg/L								24		
PCB-167	pg/L								ND		
PCB-169	pg/L								ND		
PCB-170	pg/L								66		
PCB-177	pg/L								34		
PCB-18/30	pg/L								140 (1)		
PCB-180/193	pg/L								160		
PCB-183	pg/L								47		
PCB-187	pg/L								52		
PCB-189	pg/L								ND		
PCB-194	pg/L								47		
PCB-20/28	pg/L								250 (1)		
PCB-201	pg/L								DNQ Est. Conc. 4.8 (2)		
PCB-206	pg/L								DNQ Est. Conc. 26		
PCB-44/47/65	pg/L								360 (1)		
PCB-49/69	pg/L								140 (1)		
PCBs, Sum as Aroclors	pg/L		ND						ND		
PCBs, Sum as Congeners	pg/L								4,380		
Pentachlorophenol	ug/L		ND						ND		
pH	SU	7.4	7.4	7.5	7.6	7.4	7.3	7.4	7.3	7.3	7.4
Phenanthrene	ug/L		ND						ND		
Phenol	ug/L		34.5						21.3		
Pyrene	ug/L		ND						ND		
Selenium	ug/L	1.39	1.38	1.70	1.51	1.44	1.81	1.73	DNQ Est. Conc. 0.93	1.19	1.34
Silver	ug/L		0.42						0.25		
Technical Chlordane	ug/L		ND						ND		
Temperature	Degrees F	66.2	67.8	69.0	71.6	73.3	76.1	79.1	80.9	81.6	75.6
Tetrachloroethene	ug/L		ND						ND		
Thallium	ug/L		ND						ND		
Toluene	ug/L		0.79						1.7		
Total BOD 20C	mg/L	349	359	345	315	348	359	344	363	420	344
Total cyanide	ug/L		DNQ Est. Conc. 2.8						ND		
Total suspended solids	mg/L	319	396	408	297	442	421	330	264	1,084	484
Toxaphene	ug/L		ND						ND		
trans-1,2-Dichloroethene	ug/L		ND						ND		
Trichloroethene	ug/L		ND						ND		
Vinyl chloride	ug/L		ND						ND		
Zinc	ug/L		192						219		

Table 4.4
San Jose Creek East Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
PCB-070 and 074 (Co: 61,70,74,76)	pg/L			ND	ND	ND	EPA 1668C		4.4	160
PCB-077	pg/L			DNQ Est. Conc. 19	ND	DNQ Est. Conc. 19	EPA 1668C		6.0	20
PCB-081	pg/L			ND	ND	ND	EPA 1668C		5.5	20
PCB-087 and 119 (Co: 86,87,97,108,119)	pg/L			270	270	270	EPA 1668C		9.2	120
PCB-099	pg/L			120	120	120	EPA 1668C		8.1	41
PCB-101 (Co: 90/101/113)	pg/L			410 (1)	410 (1)	410 (1)	EPA 1668C		9.9	120
PCB-105	pg/L			120	120	120	EPA 1668C		8.6	41
PCB-110 (Co: 110,115)	pg/L			430 (1)	430 (1)	430 (1)	EPA 1668C		7.9	41
PCB-114	pg/L			ND	ND	ND	EPA 1668C		9.0	41
PCB-118	pg/L			290 (1)	290 (1)	290 (1)	EPA 1668C		8.1	41
PCB-123	pg/L			ND	ND	ND	EPA 1668C		9.4	41
PCB-126	pg/L			ND	ND	ND	EPA 1668C		8.8	20
PCB-128 (Co: 128,166)	pg/L			DNQ Est. Conc. 32	ND	DNQ Est. Conc. 32	EPA 1668C		3.0	81
PCB-138 (Co: 129,138,163)	pg/L			260	260	260	EPA 1668C		3.1	61
PCB-149 (Co: 147,149)	pg/L			150 (1)	150 (1)	150 (1)	EPA 1668C		3.1	41
PCB-151 (Co: 135,151)	pg/L			74	74	74	EPA 1668C		3.2	41
PCB-153/168	pg/L			210	210	210	EPA 1668C		2.5	41
PCB-156/157	pg/L			DNQ Est. Conc. 39 (2)	ND	DNQ Est. Conc. 39 (2)	EPA 1668C		15	41
PCB-158	pg/L			24	24	24	EPA 1668C		2.3	20
PCB-167	pg/L			ND	ND	ND	EPA 1668C		11	41
PCB-169	pg/L			ND	ND	ND	EPA 1668C		17	20
PCB-170	pg/L			66	66	66	EPA 1668C		2.8	41
PCB-177	pg/L			34	34	34	EPA 1668C		2.3	20
PCB-18/30	pg/L			140 (1)	140 (1)	140 (1)	EPA 1668C		3.5	41
PCB-180/193	pg/L			160	160	160	EPA 1668C		2.0	41
PCB-183	pg/L			47	47	47	EPA 1668C		2.1	20
PCB-187	pg/L			52	52	52	EPA 1668C		1.6	20
PCB-189	pg/L			ND	ND	ND	EPA 1668C		1.7	20
PCB-194	pg/L			47	47	47	EPA 1668C		2.0	41
PCB-20/28	pg/L			250 (1)	250 (1)	250 (1)	EPA 1668C		15	81
PCB-201	pg/L			DNQ Est. Conc. 4.8 (2)	ND	DNQ Est. Conc. 4.8 (2)	EPA 1668C		0.80	20
PCB-206	pg/L			DNQ Est. Conc. 26	ND	DNQ Est. Conc. 26	EPA 1668C		1.1	41
PCB-44/47/65	pg/L			360 (1)	360 (1)	360 (1)	EPA 1668C		7.4	120
PCB-49/69	pg/L			140 (1)	140 (1)	140 (1)	EPA 1668C		6.6	41
PCBs, Sum as Aroclors	pg/L			ND	ND	ND	Calculated			
PCBs, Sum as Congeners	pg/L			4,380	4,380	4,380	Calculated			
Pentachlorophenol	ug/L			ND	ND	ND	EPA 625.1	5	0.82	10.0 - 20.0
pH	SU	7.5	7.5	7.3	7.4	7.6	SM 4500 H+ B			
Phenanthrene	ug/L			ND	ND	ND	EPA 625.1	5	0.59	10.0 - 20.0
Phenol	ug/L			21.3	27.9	34.5	EPA 625.1	1	0.24	10.0 - 20.0
Pyrene	ug/L			ND	ND	ND	EPA 625.1	10	0.60	10.0 - 20.0
Selenium	ug/L	1.90	1.50	DNQ Est. Conc. 0.93	1.41	1.90	EPA 200.8	2	0.04	1.00
Silver	ug/L			0.25	0.34	0.42	EPA 200.8	0.25	0.02	0.20
Technical Chlordane	ug/L			ND	ND	ND	EPA 608.3	0.1	0.02	0.50
Temperature	Degrees F	70.7	67.5	66.2	73.3	81.6	EPA 170.1 (oF)			
Tetrachloroethene	ug/L			ND	ND	ND	EPA 624.1	2	0.16 - 0.18	0.50
Thallium	ug/L			ND	ND	ND	EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L			0.79	1.3	1.7	EPA 624.1	2	0.04 - 0.15	0.50
Total BOD 20C	mg/L	381	453	315	365	453	SM 5210B			120
Total cyanide	ug/L			ND	ND	DNQ Est. Conc. 2.8	SM 4500 CN E	5	2.00	5.00
Total suspended solids	mg/L	620	1,709	264	565	1,709	SM 2540D			83.3 - 208
Toxaphene	ug/L			ND	ND	ND	EPA 608.3	0.5	0.05	5.0
trans-1,2-Dichloroethene	ug/L			ND	ND	ND	EPA 624.1	1	0.06 - 0.20	0.50
Trichloroethene	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.15	0.50
Vinyl chloride	ug/L			ND	ND	ND	EPA 624.1	2	0.25 - 0.37	0.50
Zinc	ug/L			192	206	219	EPA 200.8	1	0.92 - 0.95	1.00 - 20.0

(1) Blank contamination observed.

(2) Possible interference observed. The measured ion ratio did not meet qualitative criteria for analysis and results are considered to be an estimated maximum possible concentration.

San Jose Creek WRP, East, Effluent Monitoring

Table 4.7
San Jose Creek East Water Reclamation Plant
2022 EFF-002 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
1,1,1-Trichloroethane	ug/L		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	ug/L		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	ug/L		ND		ND		ND		ND		ND
1,1-Dichloroethane	ug/L		ND		ND		ND		ND		ND
1,1-Dichloroethene	ug/L		ND		ND		ND		ND		ND
1,2,3,4,6,7,8-HeptaCDD	pg/L	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 2.5	ND	ND
1,2,3,4,6,7,8-HeptaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 1.4 (1)	ND	ND
1,2,3,4,7,8,9-HeptaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-HexaCDD	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-HexaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 0.93	DNQ Est. Conc. 1.6	ND
1,2,3,6,7,8-HexaCDD	pg/L	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 0.86 (1)	ND	ND	ND
1,2,3,6,7,8-HexaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 1.3	ND
1,2,3,7,8,9-HexaCDD	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-HexaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-PentaCDD	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 0.86 (1)	ND
1,2,3,7,8-PentaCDF	pg/L	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 0.46 (1)	ND	ND	ND
1,2,3-Trichloropropane	ug/L	0.012	0.012	ND	DNQ Est. Conc. 0.0049	0.0078	0.0076	DNQ Est. Conc. 0.0045	DNQ Est. Conc. 0.0041	DNQ Est. Conc. 0.0036	DNQ Est. Conc. 0.0037
1,2,4-Trichlorobenzene	ug/L		ND		ND		ND		ND		ND
1,2-Dichlorobenzene	ug/L		ND		ND		ND		ND		ND
1,2-Dichloroethane	ug/L		ND		ND		ND		ND		ND
1,2-Dichloropropane	ug/L		ND		ND		ND		ND		ND
1,2-Diphenylhydrazine	ug/L		ND						ND		
1,3-Dichlorobenzene	ug/L		ND		ND		ND		ND		ND
1,3-Dichloropropene (Total)	ug/L		ND		ND		0.03		ND		ND
1,4-Dichlorobenzene	ug/L		ND		ND		ND		ND		ND
1,4-Dioxane	ug/L		1.2				0.90		0.97		
2,3,4,6,7,8-HexaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 1.1	ND
2,3,4,7,8-PentaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 0.81 (1)	ND
2,3,7,8-TCDD	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-TetraCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ug/L		ND		ND		ND		ND		ND
2,4-Dichlorophenol	ug/L		ND						ND		
2,4-Dimethylphenol	ug/L		ND						ND		
2,4-Dinitrophenol	ug/L		ND						ND		
2,4-Dinitrotoluene	ug/L		ND						ND		
2,6-Dinitrotoluene	ug/L		ND						ND		
2-Chloroethyl vinyl ether (mixed)	ug/L		ND		ND		ND		ND		ND
2-Chloronaphthalene	ug/L		ND							ND	ND
2-Chlorophenol	ug/L		ND						ND		
2-Methyl-4,6-dinitrophenol	ug/L		ND						ND		
2-Nitrophenol	ug/L		ND				ND		ND		
3,3'-Dichlorobenzidine	ug/L		ND						ND		
3-Methyl-4-chlorophenol	ug/L		ND						ND		
4,4'-DDD	ug/L		ND		ND		ND		ND		ND
4,4'-DDE	ug/L		ND		ND		ND		ND		ND
4,4'-DDT	ug/L		ND		ND		ND		ND		ND
4-Bromophenyl phenyl ether	ug/L		ND						ND		
4-Chlorophenyl phenyl ether	ug/L		ND						ND		
4-Nitrophenol	ug/L		ND						ND		
Acenaphthene	ug/L		ND						ND		
Acenaphthylene	ug/L		ND						ND		
Acrolein	ug/L		ND						ND		
Acrylonitrile	ug/L		ND						ND		
Aldrin	ug/L		ND		ND		ND		ND		ND
alpha-BHC	ug/L		ND		ND		ND		ND		ND
Ammonia as nitrogen	mg/L	0.757	0.788	0.720	0.812	0.684	0.918	1.52	1.77	1.66	1.47
Anthracene	ug/L		ND						ND		
Antimony	ug/L		0.58				0.67		0.64		
Aroclor 1016	pg/L		ND		ND				ND		ND

Table 4.7
San Jose Creek East Water Reclamation Plant
2022 EFF-002 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
1,1,1-Trichloroethane	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L		ND	ND	ND	ND			EPA 624.1	1	0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L		ND	ND	ND	ND			EPA 624.1	1	0.08 - 0.19	0.50
1,1-Dichloroethene	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.21	0.50
1,2,3,4,6,7,8-HeptaCDD	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 2.5			EPA 1613B		0.091 - 0.40	47 - 51
1,2,3,4,6,7,8-HeptaCDF	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 1.4 (1)			EPA 1613B		0.069 - 3.0	47 - 51
1,2,3,4,7,8,9-HeptaCDF	pg/L	ND	ND	ND	ND	ND			EPA 1613B		0.082 - 2.9	47 - 51
1,2,3,4,7,8-HexaCDD	pg/L	ND	ND	ND	ND	ND			EPA 1613B		0.078 - 1.0	47 - 51
1,2,3,4,7,8-HexaCDF	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 1.6			EPA 1613B		0.021 - 1.4	47 - 51
1,2,3,6,7,8-HexaCDD	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 0.86 (1)			EPA 1613B		0.091 - 1.2	47 - 51
1,2,3,6,7,8-HexaCDF	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 1.3			EPA 1613B		0.021 - 1.1	47 - 51
1,2,3,7,8,9-HexaCDD	pg/L	ND	ND	ND	ND	ND			EPA 1613B		0.076 - 1.0	47 - 51
1,2,3,7,8,9-HexaCDF	pg/L	ND	ND	ND	ND	ND			EPA 1613B		0.024 - 1.1	47 - 51
1,2,3,7,8-PentaCDD	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 0.86 (1)			EPA 1613B		0.096 - 3.9	47 - 51
1,2,3,7,8-PentaCDF	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 0.46 (1)			EPA 1613B		0.038 - 2.7	47 - 51
1,2,3-Trichloropropane	ug/L	DNQ Est. Conc. 0.0036	DNQ Est. Conc. 0.0023	ND	0.0033	0.012			EPA 524.2 (TCP)		0.0012	0.0050
1,2,4-Trichlorobenzene	ug/L		ND	ND	ND	ND			EPA 625.1	5	0.51	1.0
1,2-Dichlorobenzene	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L		ND	ND	ND	ND			EPA 624.1	1	0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L			ND	ND	ND			EPA 625.1	1	0.63	1.0
1,3-Dichlorobenzene	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L		ND	ND	0.005	0.03			Calculated			
1,4-Dichlorobenzene	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.16 - 0.25	0.50
1,4-Dioxane	ug/L		0.81	0.81	0.97	1.2			SW-846 8270MOD 1,4-Dioxane		0.26	0.40
2,3,4,6,7,8-HexaCDF	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 1.1			EPA 1613B		0.020 - 0.99	47 - 51
2,3,4,7,8-PentaCDF	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 0.81 (1)			EPA 1613B		0.041 - 3.0	47 - 51
2,3,7,8-TCDD	pg/L	ND	ND	ND	ND	ND			EPA 1613B		0.20 - 4.2	9.4 - 10
2,3,7,8-TetraCDF	pg/L	ND	ND	ND	ND	ND			EPA 1613B		0.035 - 3.1	9.4 - 10
2,4,6-Trichlorophenol	ug/L		ND	ND	ND	ND			EPA 625.1	10	0.64	1.0
2,4-Dichlorophenol	ug/L			ND	ND	ND			EPA 625.1	5	0.60	1.0
2,4-Dimethylphenol	ug/L			ND	ND	ND			EPA 625.1	2	0.44	1.0
2,4-Dinitrophenol	ug/L			ND	ND	ND			EPA 625.1	5	1.5	5.0
2,4-Dinitrotoluene	ug/L			ND	ND	ND			EPA 625.1	5	0.37	1.0
2,6-Dinitrotoluene	ug/L			ND	ND	ND			EPA 625.1	5	0.50	1.0
2-Chloroethyl vinyl ether (mixed)	ug/L		ND	ND	ND	ND			EPA 624.1	1	0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L	ND		ND	ND	ND			EPA 625.1	10	0.41	1.0
2-Chlorophenol	ug/L			ND	ND	ND			EPA 625.1	5	0.41	1.0
2-Methyl-4,6-dinitrophenol	ug/L			ND	ND	ND			EPA 625.1	5	1.3	5.0
2-Nitrophenol	ug/L		ND	ND	ND	ND			EPA 625.1	10	0.31	1.0
3,3'-Dichlorobenzidine	ug/L	ND		ND	ND	ND			EPA 625.1	5	0.54	1.0
3-Methyl-4-chlorophenol	ug/L			ND	ND	ND			EPA 625.1	1	0.69	1.0
4,4'-DDD	ug/L		ND	ND	ND	ND			EPA 608.3	0.05	0.003	0.01
4,4'-DDE	ug/L		ND	ND	ND	ND			EPA 608.3	0.05	0.002	0.01
4,4'-DDT	ug/L		ND	ND	ND	ND			EPA 608.3	0.01	0.004	0.01
4-Bromophenyl phenyl ether	ug/L			ND	ND	ND			EPA 625.1	5	0.58	1.0
4-Chlorophenyl phenyl ether	ug/L			ND	ND	ND			EPA 625.1	5	0.63	1.0
4-Nitrophenol	ug/L			ND	ND	ND			EPA 625.1	10	1.6	5.0
Acenaphthene	ug/L			ND	ND	ND			EPA 625.1	1	0.50	1.0
Acenaphthylene	ug/L			ND	ND	ND			EPA 625.1	10	0.50	1.0
Acrolein	ug/L			ND	ND	ND			EPA 624.1		0.64 - 0.88	2.0 - 10.0
Acrylonitrile	ug/L			ND	ND	ND			EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L		ND	ND	ND	ND			EPA 608.3	0.005	0.002	0.005
alpha-BHC	ug/L		ND	ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Ammonia as nitrogen	mg/L	1.41	1.31	0.684	1.15	1.77	3.2(2)/3.2(3)	2.5(2)/2.8(3)	SM 4500 NH3 H		0.020 - 0.030	0.100
Anthracene	ug/L			ND	ND	ND			EPA 625.1	10	0.56	1.0
Antimony	ug/L		0.61	0.58	0.63	0.67			EPA 200.8	0.5	0.12	0.50
Aroclor 1016	pg/L			ND	ND	ND			EPA 608.3	500,000	100,000 - 115,700	500,000

Table 4.7
San Jose Creek East Water Reclamation Plant
2022 EFF-002 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Aroclor 1221	pg/L		ND		ND				ND		ND
Aroclor 1232	pg/L		ND		ND				ND		ND
Aroclor 1242	pg/L		ND		ND		ND		ND		ND
Aroclor 1248	pg/L		ND		ND				ND		ND
Aroclor 1254	pg/L		ND		ND		ND		ND		ND
Aroclor 1260	pg/L		ND		ND				ND		ND
Arsenic	ug/L		1.02				1.22		1.87		
Barium	mg/L		0.0763				0.0678		0.0808		
Benzene	ug/L		ND		ND		ND		DNQ Est. Conc. 0.06		ND
Benzidine	ug/L		ND							ND	
Benzo(a)anthracene	ug/L		ND						ND		
Benzo(a)pyrene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/L		ND						ND		
Benzo(g,h,i)perylene	ug/L		ND						ND		
Benzo(k)fluoranthene	ug/L		ND						ND		
Beryllium	ug/L		ND				ND		ND		
beta-BHC	ug/L		ND		ND		ND		ND		ND
bis(2-Chloroethoxy) methane	ug/L		ND						ND		
bis(2-Chloroethyl) ether	ug/L		ND						ND		
bis(2-Chloroisopropyl) ether	ug/L		ND						ND		
bis(2-Ethylhexyl) phthalate	ug/L		ND		ND		ND		ND		ND
Boron	mg/L	0.36	0.34	0.36	0.36	0.35	0.36	0.36	0.35	0.37	0.38
Bromodichloromethane	ug/L	20.3	24.3	21.8	3.7	22.5	18.0	22.2	21.8	24.6	21.4
Bromoform	ug/L	DNQ Est. Conc. 0.45	0.56	DNQ Est. Conc. 0.44	ND	ND	DNQ Est. Conc. 0.30	DNQ Est. Conc. 0.27	DNQ Est. Conc. 0.36	0.62	DNQ Est. Conc. 0.34
Butyl benzyl phthalate	ug/L		ND						ND		
Cadmium	ug/L		DNQ Est. Conc. 0.043				ND		ND		
Carbon tetrachloride	ug/L		ND		ND		ND		ND		ND
Chloride	mg/L	151	155	157	152	146	162	160	159	151	156
Chlorobenzene	ug/L		ND		ND		ND		ND		ND
Chlorodibromomethane	ug/L	6.0	6.9	6.3	0.75	6.2	5.1	5.3	5.4	7.3	5.5
Chloroethane	ug/L		ND		ND		ND		ND		ND
Chloroform	ug/L	31.8	49.6	33.3	10.9	39.9	55.5	64.0	49.5	46.0	50.2
Chlorpyrifos	ug/L								ND		
Chromium III	ug/L		0.98				0.54		0.45		
Chromium VI	ug/L		0.26				0.27		0.22		
Chromium, total (24-hour composite)	ug/L		1.15				0.76		0.68		
Chromium, total (grab)	ug/L		1.24				0.81		0.66		
Chrysene	ug/L		ND						ND		
Copper	ug/L	4.43	2.94	2.96	3.80	3.14	3.25	3.26	3.66	2.98	2.60
delta-BHC	ug/L		ND		ND		ND		ND		ND
Di-n-butyl phthalate	ug/L		ND						ND		
Di-n-octyl phthalate	ug/L		ND						ND		
Diazinon	ug/L		ND				ND		ND		
Dibenzo(a,h)anthracene	ug/L		ND						ND		
Dieldrin	ug/L	ND	DNQ Est. Conc. 0.003	ND	DNQ Est. Conc. 0.006	DNQ Est. Conc. 0.007	DNQ Est. Conc. 0.008	DNQ Est. Conc. 0.007	DNQ Est. Conc. 0.008	DNQ Est. Conc. 0.009	ND
Diethyl phthalate	ug/L		ND						ND		
Dimethyl phthalate	ug/L		ND						ND		
Dissolved oxygen	mg/L	7.4	7.3	7.2	6.8	6.6	6.6	6.1	6.3	6.0	5.4
E. coli	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ug/L		ND						ND		
Endosulfan II	ug/L		ND						ND		
Endosulfan sulfate	ug/L		ND						ND		
Endrin	ug/L		ND		ND		ND		ND		ND
Endrin aldehyde	ug/L		ND						DNQ Est. Conc. 0.003		
Ethylbenzene	ug/L		ND		ND		ND		ND		ND
Fluoranthene	ug/L		ND		ND		ND		ND		ND
Fluorene	ug/L		ND						ND		
Fluoride	mg/L		0.381		0.358		0.363		0.369		0.504
gamma-BHC (Lindane)	ug/L		ND		ND		ND		0.02		ND

Table 4.7
San Jose Creek East Water Reclamation Plant
2022 EFF-002 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
Aroclor 1221	pg/L			ND	ND	ND			EPA 608.3	500,000	100,000 - 115,700	500,000
Aroclor 1232	pg/L			ND	ND	ND			EPA 608.3	500,000	100,000 - 115,700	500,000
Aroclor 1242	pg/L		ND	ND	ND	ND			EPA 608.3	500,000	100,000 - 115,700	500,000
Aroclor 1248	pg/L			ND	ND	ND			EPA 608.3	500,000	100,000 - 115,700	500,000
Aroclor 1254	pg/L		ND	ND	ND	ND			EPA 608.3	500,000	100,000 - 115,700	500,000
Aroclor 1260	pg/L			ND	ND	ND			EPA 608.3	500,000	100,000 - 115,700	500,000
Arsenic	ug/L		1.67	1.02	1.45	1.87			EPA 200.8	2	0.05 - 0.07	1.00
Barium	mg/L		0.0785	0.0678	0.0759	0.0808			EPA 200.8		0.07 - 0.10	0.50
Benzene	ug/L		DNQ Est. Conc. 0.06	ND	ND	DNQ Est. Conc. 0.06			EPA 624.1	2	0.06 - 0.09	0.50
Benzidine	ug/L			ND	ND	ND			EPA 625.1	5	0.77	5.0
Benzo(a)anthracene	ug/L			ND	ND	ND			EPA 625.1	5	0.46	1.0
Benzo(a)pyrene	ug/L	ND	ND	ND	ND	ND	0.098	0.049	EPA 525.5 & EPA 610		0.013 - 0.20	0.020 - 1.0
Benzo(b)fluoranthene	ug/L			ND	ND	ND			EPA 610	10	0.015	0.020
Benzo(g,h,i)perylene	ug/L			ND	ND	ND			EPA 625.1	5	0.52	1.0
Benzo(k)fluoranthene	ug/L			ND	ND	ND			EPA 610	10	0.014	0.020
Beryllium	ug/L		ND	ND	ND	ND			EPA 200.8	0.5	0.023 - 0.026	0.25
beta-BHC	ug/L		ND	ND	ND	ND			EPA 608.3	0.005	0.003	0.005
bis(2-Chloroethoxy) methane	ug/L			ND	ND	ND			EPA 625.1	5	0.28	1.0
bis(2-Chloroethyl) ether	ug/L			ND	ND	ND			EPA 625.1	1	0.27	1.0
bis(2-Chloroisopropyl) ether	ug/L			ND	ND	ND			EPA 625.1	2	0.25	1.0
bis(2-Ethylhexyl) phthalate	ug/L		ND	ND	ND	ND			EPA 625.1	5	0.55	1.0
Boron	mg/L	0.41	0.35	0.34	0.36	0.41		1.0	EPA 200.8		0.008 - 0.013	0.020
Bromodichloromethane	ug/L	24.3	15.4	3.7	20	24.6			EPA 624.1	2	0.11 - 0.15	0.50 - 2.5
Bromoform	ug/L	0.60	0.50	ND	0.19	0.62			EPA 624.1	2	0.13 - 0.18	0.50 - 2.5
Butyl benzyl phthalate	ug/L			ND	ND	ND			EPA 625.1	10	0.58	1.0
Cadmium	ug/L		ND	ND	ND	DNQ Est. Conc. 0.043			EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.18 - 0.34	0.50
Chloride	mg/L	151	147	146	154	162		180	EPA 300.0		0.024 - 0.144	10.0
Chlorobenzene	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.07 - 0.10	0.50
Chlorodibromomethane	ug/L	7.2	4.7	0.75	5.6	7.3			EPA 624.1	2	0.11 - 0.13	0.50 - 2.5
Chloroethane	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.22 - 0.31	0.50
Chloroform	ug/L	39.8	36.6	10.9	42.3	64.0			EPA 624.1	2	0.08 - 0.35	0.50 - 2.5
Chlorpyrifos	ug/L			ND	ND	ND			SW-846 8141A		0.0026	0.050
Chromium III	ug/L		0.38	0.38	0.59	0.98			Calculated			
Chromium VI	ug/L		0.25	0.22	0.25	0.27			EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total (24-hour composite)	ug/L		0.68	0.68	0.82	1.15			EPA 200.8		0.27 - 0.28	0.50
Chromium, total (grab)	ug/L		0.63	0.63	0.84	1.24			EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L			ND	ND	ND			EPA 610	10	0.014	0.020
Copper	ug/L	2.11	2.11	2.11	3.10	4.43			EPA 200.8	0.5	0.12 - 0.14	0.50
delta-BHC	ug/L		ND	ND	ND	ND			EPA 608.3	0.005	0.003	0.005
Di-n-butyl phthalate	ug/L			ND	ND	ND			EPA 625.1	10	0.59	1.0
Di-n-octyl phthalate	ug/L			ND	ND	ND			EPA 625.1	10	0.69	1.0
Diazinon	ug/L		ND	ND	ND	ND			EPA 525.2 & SW-846 8141A		0.0035 - 0.22	0.020 - 1.0
Dibenzo(a,h)anthracene	ug/L			ND	ND	ND			EPA 610	10	0.014	0.020
Dieldrin	ug/L	ND	DNQ Est. Conc. 0.003	ND	ND	DNQ Est. Conc. 0.009	0.00028	0.00014	EPA 608.3	0.01	0.002 - 0.003	0.01
Diethyl phthalate	ug/L			ND	ND	ND			EPA 625.1	2	0.42	1.0
Dimethyl phthalate	ug/L			ND	ND	ND			EPA 625.1	2	0.41	1.0
Dissolved oxygen	mg/L	6.6	6.8	5.4	6.6	7.4			HACH 10360 LDO			0.2
E. coli	No./100mL	ND	ND	ND	ND	ND			SM 9223 Quanti-Tray			1
Endosulfan I	ug/L			ND	ND	ND			EPA 608.3	0.02	0.003	0.01
Endosulfan II	ug/L			ND	ND	ND			EPA 608.3	0.01	0.004	0.01
Endosulfan sulfate	ug/L			ND	ND	ND			EPA 608.3	0.05	0.004	0.01
Endrin	ug/L		ND	ND	ND	ND			EPA 608.3	0.01	0.004	0.01
Endrin aldehyde	ug/L			ND	ND	DNQ Est. Conc. 0.003			EPA 608.3	0.01	0.003	0.01
Ethylbenzene	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.11 - 0.15	0.50
Fluoranthene	ug/L		ND	ND	ND	ND			EPA 625.1	1	0.69	1.0
Fluorene	ug/L			ND	ND	ND			EPA 625.1	10	0.58	1.0
Fluoride	mg/L		0.379	0.358	0.392	0.504			SM 4500 F C		0.040	0.100
gamma-BHC (Lindane)	ug/L		ND	ND	0.003	0.02			EPA 608.3	0.02	0.003	0.01

Table 4.7
San Jose Creek East Water Reclamation Plant
2022 EFF-002 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Gross alpha radioactivity	pCi/L		2.30				-0.664		0.693		
Gross beta radioactivity	pCi/L		11.9				5.64		14.5		
Heptachlor	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ug/L		ND		ND		ND		ND		ND
Hexachlorobenzene	ug/L		ND				ND		ND		
Hexachlorobutadiene	ug/L		ND						ND		
Hexachlorocyclopentadiene	ug/L		ND				ND		ND		
Hexachloroethane	ug/L		ND							ND	
Indeno (1,2,3-cd) pyrene	ug/L		ND						ND		
Iron	ug/L	32	37	33	30	26	28	71	32	72	40
Isophorone	ug/L		ND						ND		
Lead	ug/L	0.27	0.27	DNQ Est. Conc. 0.18	DNQ Est. Conc. 0.22	DNQ Est. Conc. 0.15	DNQ Est. Conc. 0.16	DNQ Est. Conc. 0.15	DNQ Est. Conc. 0.21	0.77	0.51
Mercury	ug/L		0.0026				0.018		0.012		
Methyl bromide (Bromomethane)	ug/L		ND		ND		ND		ND		ND
Methyl chloride (Chloromethane)	ug/L		ND		DNQ Est. Conc. 0.39		ND		DNQ Est. Conc. 0.23		ND
Methyl tert-butyl ether (MTBE)	ug/L		ND				ND		ND		
Methylene chloride	ug/L		ND		ND		ND		ND		ND
n-Nitrosodimethylamine (NDMA)	ug/L	0.10	0.040	0.064	0.024	0.032	0.031	0.051	0.021	0.022	0.018
n-Nitrosodi-n-propylamine	ug/L		ND	ND			ND		ND		
n-Nitrosodiphenylamine	ug/L		ND	ND					ND		
Naphthalene	ug/L		ND				ND		ND		
Nickel	ug/L		6.30				6.21		12.5		
Nitrate + nitrite as nitrogen	mg/L	5.70	4.09	4.85	5.96	4.33	4.99	4.95	3.70	5.13	4.13
Nitrate as nitrogen	mg/L	5.68	4.08	4.84	5.95	4.32	4.98	4.93	3.68	5.12	4.12
Nitrite as nitrogen	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	ug/L		ND						ND		
OctaCDD	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OctaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 1.5 (1)	ND	ND
Oil and grease	mg/L		ND			DNQ Est. Conc. 1.3			ND		
Organic nitrogen	mg/L	1.40	1.26	1.22	1.46	1.20	1.01	0.920	0.830	0.085	0.422
Orthophosphate-P	mg/L	0.182	0.154	0.11	0.136	0.176	0.147	0.168	0.242	0.317	0.282
PCB-037	pg/L								ND		
PCB-052	pg/L								ND		
PCB-066	pg/L								ND		
PCB-070 and 074 (Co: 61,70,74,76)	pg/L								ND		
PCB-077	pg/L								ND		
PCB-081	pg/L								ND		
PCB-087 and 119 (Co: 86,87,97,108,119,125)	pg/L								ND		
PCB-099	pg/L								DNQ Est. Conc. 2.6		
PCB-101 (Co: 90/101/113)	pg/L								ND		
PCB-105	pg/L								ND		
PCB-110 (Co: 110,115)	pg/L								ND		
PCB-114	pg/L								ND		
PCB-118	pg/L								ND		
PCB-123	pg/L								ND		
PCB-126	pg/L								ND		
PCB-128 (Co: 128,166)	pg/L								ND		
PCB-138 (Co: 129,138,163)	pg/L								ND		
PCB-149 (Co: 147,149)	pg/L								ND		
PCB-151 (Co: 135,151)	pg/L								DNQ Est. Conc. 1.7 (1)		
PCB-153/168	pg/L								ND		
PCB-156/157	pg/L								ND		
PCB-158	pg/L								ND		
PCB-167	pg/L								ND		
PCB-169	pg/L								ND		
PCB-170	pg/L								DNQ Est. Conc. 0.64 (1)		
PCB-177	pg/L								ND		
PCB-18/30	pg/L								DNQ Est. Conc. 11 (6)		
PCB-180/193	pg/L								DNQ Est. Conc. 2 (1)		

Table 4.7
San Jose Creek East Water Reclamation Plant
2022 EFF-002 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
Gross alpha radioactivity	pCi/L		0.414	-0.664	0.852	2.30		15	EPA 900.0		3.97 - 7.4	3.00
Gross beta radioactivity	pCi/L		16.9	5.64	12.2	16.9		(4)	EPA 900.0		1.4 - 3.77	4.00
Heptachlor	ug/L	ND	ND	ND	ND	ND			EPA 608.3	0.01	0.002	0.01
Heptachlor epoxide	ug/L		ND	ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Hexachlorobenzene	ug/L		ND	ND	ND	ND			EPA 508.1 & EPA 625.1		0.0080 - 0.47	0.10 - 1.0
Hexachlorobutadiene	ug/L			ND	ND	ND			EPA 625.1	1	0.96	1.0
Hexachlorocyclopentadiene	ug/L		ND	ND	ND	ND			EPA 525.2 & EPA 625.1		0.092 - 2.0	1.0 - 10
Hexachloroethane	ug/L			ND	ND	ND			EPA 625.1	1	0.81	1.0
Indeno (1,2,3-cd) pyrene	ug/L			ND	ND	ND			EPA 610	10	0.013	0.020
Iron	ug/L	24	26	24	38	72			EPA 200.8		6 - 9	20
Isophorone	ug/L			ND	ND	ND			EPA 625.1	1	0.28	1.0
Lead	ug/L	DNQ Est. Conc. 0.11	DNQ Est. Conc. 0.12	DNQ Est. Conc. 0.11	0.15	0.77	166 (5)		EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L		0.0048	0.0026	0.0094	0.018			EPA 1631E		0.00010 - 0.0010	0.00050 - 0.0050
Methyl bromide (Bromomethane)	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L		ND	ND	ND	DNQ Est. Conc. 0.39			EPA 624.1	2	0.19 - 0.41	0.50
Methyl tert-butyl ether (MTBE)	ug/L		ND	ND	ND	ND			EPA 624.1		0.08 - 0.40	0.50
Methylene chloride	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.16 - 0.46	0.50
n-Nitrosodimethylamine (NDMA)	ug/L	0.019	0.026	0.018	0.037	0.10			EPA 1625B (Modified)		0.0005 - 0.00052	0.0020 - 0.010
n-Nitrosodi-n-propylamine	ug/L		ND	ND	ND	ND			EPA 1625B (Modified)		0.00063 - 0.00138	0.0020 - 0.010
n-Nitrosodiphenylamine	ug/L			ND	ND	ND			EPA 1625B (Modified)		0.00132 - 0.00566	0.010 - 0.050
Naphthalene	ug/L		ND	ND	ND	ND			EPA 625.1	1	0.20	1.0
Nickel	ug/L		4.03	4.03	7.26	12.5			EPA 200.8	1	0.08 - 0.50	1.00
Nitrate + nitrite as nitrogen	mg/L	5.72	5.27	3.70	4.90	5.96		8	SM 4500 NO3 F		0.097 - 0.108	0.230
Nitrate as nitrogen	mg/L	5.71	5.26	3.68	4.89	5.95			Calculated			
Nitrite as nitrogen	mg/L	ND	ND	ND	ND	ND		1.0	SM 4500 NO3 F		0.012	0.030
Nitrobenzene	ug/L			ND	ND	ND			EPA 625.1	1	0.31	1.0
OctaCDD	pg/L	ND	ND	ND	ND	ND			EPA 1613B		0.067 - 1.3	94 - 100
OctaCDF	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 1.5 (1)			EPA 1613B		0.14 - 1.8	94 - 100
Oil and grease	mg/L	ND		ND	ND	DNQ Est. Conc. 1.3	15	10	EPA 1664A		1.0 - 2.1	5.3 - 5.9
Organic nitrogen	mg/L	0.390	0.725	0.085	0.91	1.46			Calculated			
Orthophosphate-P	mg/L	0.509	0.149	0.11	0.21	0.509			SM4500-P G		0.010	0.030
PCB-037	pg/L			ND	ND	ND			EPA 1668C		1.1	20
PCB-052	pg/L			ND	ND	ND			EPA 1668C		0.73	100
PCB-066	pg/L			ND	ND	ND			EPA 1668C		0.46	41
PCB-070 and 074 (Co: 61,70,74,76)	pg/L			ND	ND	ND			EPA 1668C		0.47	160
PCB-077	pg/L			ND	ND	ND			EPA 1668C		0.61	20
PCB-081	pg/L			ND	ND	ND			EPA 1668C		0.59	20
PCB-087 and 119 (Co: 86,87,97,108,119,125)	pg/L			ND	ND	ND			EPA 1668C		0.49	120
PCB-099	pg/L			DNQ Est. Conc. 2.6	ND	DNQ Est. Conc. 2.6			EPA 1668C		0.43	41
PCB-101 (Co: 90/101/113)	pg/L			ND	ND	ND			EPA 1668C		0.53	120
PCB-105	pg/L			ND	ND	ND			EPA 1668C		0.47	41
PCB-110 (Co: 110,115)	pg/L			ND	ND	ND			EPA 1668C		0.42	41
PCB-114	pg/L			ND	ND	ND			EPA 1668C		0.49	41
PCB-118	pg/L			ND	ND	ND			EPA 1668C		0.43	41
PCB-123	pg/L			ND	ND	ND			EPA 1668C		0.50	41
PCB-126	pg/L			ND	ND	ND			EPA 1668C		0.67	20
PCB-128 (Co: 128,166)	pg/L			ND	ND	ND			EPA 1668C		0.33	82
PCB-138 (Co: 129,138,163)	pg/L			ND	ND	ND			EPA 1668C		0.35	61
PCB-149 (Co: 147,149)	pg/L			ND	ND	ND			EPA 1668C		0.34	41
PCB-151 (Co: 135,151)	pg/L			DNQ Est. Conc. 1.7 (1)	ND	DNQ Est. Conc. 1.7 (1)			EPA 1668C		0.36	41
PCB-153/168	pg/L			ND	ND	ND			EPA 1668C		0.28	41
PCB-156/157	pg/L			ND	ND	ND			EPA 1668C		0.33	41
PCB-158	pg/L			ND	ND	ND			EPA 1668C		0.25	20
PCB-167	pg/L			ND	ND	ND			EPA 1668C		0.23	41
PCB-169	pg/L			ND	ND	ND			EPA 1668C		0.39	20
PCB-170	pg/L			DNQ Est. Conc. 0.64 (1)	ND	DNQ Est. Conc. 0.64 (1)			EPA 1668C		0.46	41
PCB-177	pg/L			ND	ND	ND			EPA 1668C		0.38	20
PCB-18/30	pg/L			DNQ Est. Conc. 11 (6)	ND	DNQ Est. Conc. 11 (6)			EPA 1668C		0.80	41
PCB-180/193	pg/L			DNQ Est. Conc. 2 (1)	ND	DNQ Est. Conc. 2 (1)			EPA 1668C		0.33	41

Table 4.7
San Jose Creek East Water Reclamation Plant
2022 EFF-002 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
PCB-183	pg/L								ND		
PCB-187	pg/L								ND		
PCB-189	pg/L								ND		
PCB-194	pg/L								ND		
PCB-20/28	pg/L								ND		
PCB-201	pg/L								ND		
PCB-206	pg/L								ND		
PCB-44/47/65	pg/L								ND		
PCB-49/69	pg/L								ND		
PCBs, Sum as Aroclors	pg/L		ND		ND		ND		ND		ND
PCBs, Sum as Congeners	pg/L								ND		
Pentachlorophenol	ug/L		ND		ND		ND		ND		ND
Perchlorate	ug/L	0.23	0.15	0.21	0.23	0.23	DNQ Est. Conc. 0.34	0.55	DNQ Est. Conc. 0.21	0.84	0.58
pH	SU	7.4	7.4	7.4	7.4	7.4	7.5	7.4	7.4	7.4	7.4
Phenanthrene	ug/L		ND		ND		ND		ND		ND
Phenol	ug/L		ND		ND		DNQ Est. Conc. 0.43		DNQ Est. Conc. 0.25		DNQ Est. Conc. 0.87
Pyrene	ug/L		ND						ND		
Radium-226 + Radium-228	pCi/L		0.220				0.788		0.0499		
Selenium	ug/L	DNQ Est. Conc. 0.60	DNQ Est. Conc. 0.54	DNQ Est. Conc. 0.57	DNQ Est. Conc. 0.51	DNQ Est. Conc. 0.42	DNQ Est. Conc. 0.45	DNQ Est. Conc. 0.42	DNQ Est. Conc. 0.43	DNQ Est. Conc. 0.23	DNQ Est. Conc. 0.39
Settleable solids	mL/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ug/L		ND				ND		ND		
Strontium-90	pCi/L		0.164				0.0757		0.329		
Sulfate	mg/L	121	130	133	123	120	131	128	125	115	128
Surfactant (CTAS)	mg/L		DNQ Est. Conc. 0.09			ND			ND		
Surfactant (MBAS)	mg/L		DNQ Est. Conc. 0.07		DNQ Est. Conc. 0.06		DNQ Est. Conc. 0.04		DNQ Est. Conc. 0.03		DNQ Est. Conc. 0.04
Technical chlordane	ug/L		ND			ND	ND		ND		
Temperature	Degrees F	72.9	73.1	75.0	77.3	79.4	82.2	84.5	86.4	86.5	83.9
Tetrachloroethene	ug/L		ND		ND		ND		ND		ND
Thallium	ug/L		ND				ND		ND		
Toluene	ug/L		ND		DNQ Est. Conc. 0.17		DNQ Est. Conc. 0.06		DNQ Est. Conc. 0.11		ND
Total BOD 20C	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total chlorinated hydrocarbons	ug/L		ND			ND			0.02		
Total coliform	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total coliform (City of Industry)	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total cyanide	ug/L	DNQ Est. Conc. 2.13	DNQ Est. Conc. 4.79	ND	DNQ Est. Conc. 3.99	DNQ Est. Conc. 2.91	ND	DNQ Est. Conc. 2.43	DNQ Est. Conc. 3.78	ND	DNQ Est. Conc. 3.22
Total dissolved solids	mg/L	690	710	723	680	622	710	709	687	675	687
Total hardness (CaCO3)	mg/L	236	243	241	222	227	253	237	246	170	234
Total Kjeldahl Nitrogen (TKN)	mg/L	2.16	2.05	1.93	2.27	1.88	1.92	2.45	2.60	1.74	1.89
Total nitrogen	mg/L	7.86	6.14	6.78	8.23	6.21	6.92	7.40	6.71	6.88	6.02
Total phosphorus	mg/L	0.237	0.203	0.181	0.200	0.229	0.198	0.245	0.293	0.372	0.342
Total residual chlorine	mg/L	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 0.04	ND	DNQ Est. Conc. 0.04
Total suspended solids	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total trihalomethanes	ug/L	58.1	81.4	61.3	15.4	68.6	78.6	91.5	76.7	78.4	77.0
Toxaphene	ug/L		ND		ND	ND	ND		ND		ND
Toxic equivalence	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ug/L		ND		ND		ND		ND		ND
Trichloroethene	ug/L		ND		ND		ND		ND		ND
Tritium	pCi/L		-127				-9.91		-125		
Turbidity (flow proportioned avg daily value)	NTU	0.66	0.69	0.60	0.58	0.55	0.55	0.55	DNQ Est. Conc. 0.40	DNQ Est. Conc. 0.40	DNQ Est. Conc. 0.40
Uranium	pCi/L		0.748				1.14		0.532		
Vinyl chloride	ug/L		ND		ND		ND		ND		ND
Zinc	ug/L		63.9				52.7		58.2		

Table 4.7
San Jose Creek East Water Reclamation Plant
2022 EFF-002 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
PCB-183	pg/L			ND	ND	ND			EPA 1668C		0.35	20
PCB-187	pg/L			ND	ND	ND			EPA 1668C		0.30	20
PCB-189	pg/L			ND	ND	ND			EPA 1668C		0.44	20
PCB-194	pg/L			ND	ND	ND			EPA 1668C		0.31	41
PCB-20/28	pg/L			ND	ND	ND			EPA 1668C		1.1	82
PCB-201	pg/L			ND	ND	ND			EPA 1668C		0.24	20
PCB-206	pg/L			ND	ND	ND			EPA 1668C		0.53	41
PCB-44/47/65	pg/L			ND	ND	ND			EPA 1668C		0.72	120
PCB-49/69	pg/L			ND	ND	ND			EPA 1668C		0.65	41
PCBs, Sum as Aroclors	pg/L		ND	ND	ND	ND			Calculated			
PCBs, Sum as Congeners	pg/L			ND	ND	ND			Calculated			
Pentachlorophenol	ug/L		ND	ND	ND	ND			EPA 625.1	5	0.82	1.0
Perchlorate	ug/L	0.35	0.29	DNQ Est. Conc. 0.21	0.31	0.84			EPA 331.0 & EPA 332.0		0.0201 - 0.086	0.05 - 0.50
pH	SU	7.4	7.4	7.4	7.4	7.5	6.5 - 8.5		SM 4500 H+ B			
Phenanthrene	ug/L		ND	ND	ND	ND			EPA 625.1	5	0.59	1.0
Phenol	ug/L		ND	ND	ND	DNQ Est. Conc. 0.87			EPA 625.1	1	0.24	1.0
Pyrene	ug/L			ND	ND	ND			EPA 625.1	10	0.60	1.0
Radium-226 + Radium-228	pCi/L		0.448	0.0499	0.376	0.788		5	Calculated			
Selenium	ug/L	DNQ Est. Conc. 0.43	DNQ Est. Conc. 0.54	DNQ Est. Conc. 0.23	ND	DNQ Est. Conc. 0.60	7.4 (7)	4.4 (7)	EPA 200.8	2	0.04	1.00
Settleable solids	mL/L	ND	ND	ND	ND	ND	0.3	0.1	SM 2540F			0.1
Silver	ug/L		ND	ND	ND	ND			EPA 200.8	0.25	0.02	0.20
Strontium-90	pCi/L		-0.0650	-0.0650	0.142	0.329		8	EPA 905.0		0.282 - 0.788	3.00
Sulfate	mg/L	132	126	115	126	133		300	EPA 300.0		0.040 - 0.161	2.50
Surfactant (CTAS)	mg/L	ND		ND	ND	DNQ Est. Conc. 0.09			SM 5540D		0.08	0.10
Surfactant (MBAS)	mg/L	0.061	ND	ND	0.0087	0.061		0.5	SM 5540C		0.023 - 0.03	0.050 - 0.10
Technical chlordane	ug/L	ND	ND	ND	ND	ND			EPA 608.3	0.1	0.02	0.05
Temperature	Degrees F	79.1	76.5	72.9	79.7	86.5	(8)		EPA 170.1 (oF)			
Tetrachloroethene	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.16 - 0.18	0.5
Thallium	ug/L		ND	ND	ND	ND			EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L		DNQ Est. Conc. 0.09	ND	ND	DNQ Est. Conc. 0.17			EPA 624.1	2	0.04 - 0.15	0.50
Total BOD 20C	mg/L	ND	ND	ND	ND	ND	45	20	SM 5210B			3
Total chlorinated hydrocarbons	ug/L	ND		ND	0.005	0.02			Calculated			
Total coliform	No./100mL	ND	ND	ND	ND	ND	(9)	(9)	SM 9222B			1
Total coliform (City of Industry)	No./100mL	ND	ND	ND	ND	ND	(9)	(9)	SM 9222B			1
Total cyanide	ug/L	ND	ND	ND	ND	DNQ Est. Conc. 4.79			SM 4500 CN E	5	2.00	5.00
Total dissolved solids	mg/L	676	669	622	687	723		750	SM 2540C			48.1 - 125
Total hardness (CaCO3)	mg/L	251	236	170	233	253			Calculated			
Total Kjeldahl Nitrogen (TKN)	mg/L	1.80	2.04	1.74	2.06	2.60			EPA 351.2		0.120	0.200 - 0.500
Total nitrogen	mg/L	7.52	7.30	6.02	7.00	8.23			Total Nitrogen Calculation			
Total phosphorus	mg/L	0.252	0.202	0.181	0.246	0.372			SM4500-P H		0.015	0.030 - 0.033
Total residual chlorine	mg/L	ND	DNQ Est. Conc. 0.04	ND	ND	DNQ Est. Conc. 0.04	0.1		SM 4500 Cl G		0.02 - 0.030	0.10
Total suspended solids	mg/L	ND	ND	ND	ND	ND	45	15	SM 2540D			2.5
Total trihalomethanes	ug/L	71.9	56.7	15.4	68.0	91.5		80	Calculated			
Toxaphene	ug/L	ND	ND	ND	ND	ND			EPA 608.3	0.5	0.05	0.5
Toxic equivalence	pg/L	ND	ND	ND	ND	ND			Calculated			
trans-1,2-Dichloroethene	ug/L		ND	ND	ND	ND			EPA 624.1	1	0.06 - 0.20	0.50
Trichloroethene	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.12 - 0.15	0.50
Tritium	pCi/L		118	-127	29.5	118		20,000	EPA 906.0		320 - 367	500
Turbidity (flow proportioned avg daily value)	NTU	DNQ Est. Conc. 0.40	DNQ Est. Conc. 0.35	DNQ Est. Conc. 0.35	0.35	0.69	2		SM 2130B		0.060 - 0.13	0.50
Uranium	pCi/L		1.03	0.532	0.863	1.14		20	EPA 908.0		0.118 - 0.216	1.00
Vinyl chloride	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.25 - 0.37	0.50
Zinc	ug/L		35.8	35.8	52.7	63.9			EPA 200.8	1	0.92 - 0.95	1.00

(1) Possible interference observed. The measured ion ratio did not meet qualitative criteria for analysis and results are considered to be an estimated maximum possible concentration.

(2) Effluent ammonia limit effective from April 1 to September 30.

(3) Effluent ammonia limit effective from October 1 to March 31.

(4) The gross beta radiation limit is 4 millirem/year with a screening level of 50 pCi/L.

(5) Wet weather limit.

(6) Blank contamination observed.

(7) Dry weather limit.

(8) The interim effluent temperature limit is 86°F except as a result of external ambient temperature.

(9) The number of total coliform bacteria shall not exceed 2.2/100mL as a 7-day median, 23/100mL in more than one sample within any 30-day period, and 240/100mL in any sample.

San Jose Creek WRP, West, Influent Monitoring

Table 4.5
San Jose Creek West Water Reclamation Plant
2022 INF-002 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
1,1,1-Trichloroethane	ug/L		ND						ND		
1,1,2,2-Tetrachloroethane	ug/L		ND						ND		
1,1,2-Trichloroethane	ug/L		ND						ND		
1,1-Dichloroethane	ug/L		ND						ND		
1,1-Dichloroethene	ug/L		ND						ND		
1,2,4-Trichlorobenzene	ug/L		ND						ND		
1,2-Dichlorobenzene	ug/L		ND						ND		
1,2-Dichloroethane	ug/L		ND						ND		
1,2-Dichloropropane	ug/L		ND						ND		
1,2-Diphenylhydrazine	ug/L		ND						ND		
1,3-Dichlorobenzene	ug/L		ND						ND		
1,3-Dichloropropene (Total)	ug/L		ND						ND		
1,4-Dichlorobenzene	ug/L		ND						ND		
2,3,7,8-TCDD	pg/L		ND						ND		
2,4,6-Trichlorophenol	ug/L		ND						ND		
2,4-Dichlorophenol	ug/L		ND						ND		
2,4-Dimethylphenol	ug/L		ND						ND		
2,4-Dinitrophenol	ug/L		ND						ND		
2,4-Dinitrotoluene	ug/L		ND						ND		
2,6-Dinitrotoluene	ug/L		ND						ND		
2-Chloroethyl vinyl ether (mixed)	ug/L		ND						0.70		
2-Chloronaphthalene	ug/L		ND							ND	
2-Chlorophenol	ug/L		ND						ND		
2-Methyl-4,6-dinitrophenol	ug/L		ND						ND		
2-Nitrophenol	ug/L		ND						ND		
3,3'-Dichlorobenzidine	ug/L		ND						ND		
3-Methyl-4-chlorophenol	ug/L		ND						ND		
4,4'-DDD	ug/L		ND						ND		
4,4'-DDE	ug/L		ND						ND		
4,4'-DDT	ug/L		ND						ND		
4-Bromophenyl phenyl ether	ug/L		ND						ND		
4-Chlorophenyl phenyl ether	ug/L		ND						ND		
4-Nitrophenol	ug/L		ND						ND		
Acenaphthene	ug/L		ND						ND		
Acenaphthylene	ug/L		ND						ND		
Acrolein	ug/L		ND						ND		
Acrylonitrile	ug/L		ND						ND		
Aldrin	ug/L		ND						ND		
alpha-BHC	ug/L		ND						ND		
Anthracene	ug/L		ND						ND		
Antimony	ug/L		0.82						0.60		
Aroclor 1016	pg/L		ND						ND		
Aroclor 1221	pg/L		ND						ND		
Aroclor 1232	pg/L		ND						ND		
Aroclor 1242	pg/L		ND						ND		
Aroclor 1248	pg/L		ND						ND		
Aroclor 1254	pg/L		ND						ND		
Aroclor 1260	pg/L		ND						ND		
Arsenic	ug/L		2.40						1.70		
Benzene	ug/L		ND						ND		
Benzidine	ug/L		ND							ND	
Benzo(a)anthracene	ug/L		ND						ND		
Benzo(a)pyrene	ug/L		ND						ND		
Benzo(b)fluoranthene	ug/L		ND						ND		
Benzo(g,h,i)perylene	ug/L		ND						ND		
Benzo(k)fluoranthene	ug/L		ND						ND		
Beryllium	ug/L		DNQ Est. Conc. 0.026						ND		
beta-BHC	ug/L		ND						ND		
bis(2-Chloroethoxy) methane	ug/L		ND						ND		
bis(2-Chloroethyl) ether	ug/L		ND						ND		
bis(2-Chloroisopropyl) ether	ug/L		ND						ND		

Table 4.5
San Jose Creek West Water Reclamation Plant
2022 INF-002 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
1,1,1-Trichloroethane	ug/L			ND	ND	ND	EPA 624.1	2	0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L			ND	ND	ND	EPA 624.1	1	0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L			ND	ND	ND	EPA 624.1	1	0.08 - 0.19	0.50
1,1-Dichloroethene	ug/L			ND	ND	ND	EPA 624.1	2	0.21	0.50
1,2,4-Trichlorobenzene	ug/L			ND	ND	ND	EPA 625.1	5	0.51	10.0 - 20.0
1,2-Dichlorobenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L			ND	ND	ND	EPA 624.1	1	0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L			ND	ND	ND	EPA 625.1	1	0.63	10.0 - 20.0
1,3-Dichlorobenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L			ND	ND	ND	Calculated			
1,4-Dichlorobenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.16 - 0.25	0.50
2,3,7,8-TCDD	pg/L			ND	ND	ND	EPA 1613B		0.26 - 0.95	10
2,4,6-Trichlorophenol	ug/L			ND	ND	ND	EPA 625.1	10	0.64	10.0 - 20.0
2,4-Dichlorophenol	ug/L			ND	ND	ND	EPA 625.1	5	0.60	10.0 - 20.0
2,4-Dimethylphenol	ug/L			ND	ND	ND	EPA 625.1	2	0.44	10.0 - 20.0
2,4-Dinitrophenol	ug/L			ND	ND	ND	EPA 625.1	5	1.5	50.0 - 100
2,4-Dinitrotoluene	ug/L			ND	ND	ND	EPA 625.1	5	0.37	10.0 - 20.0
2,6-Dinitrotoluene	ug/L			ND	ND	ND	EPA 625.1	5	0.50	10.0 - 20.0
2-Chloroethyl vinyl ether (mixed)	ug/L			ND	0.35	0.7	EPA 624.1	1	0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L			ND	ND	ND	EPA 625.1	10	0.41	20.0
2-Chlorophenol	ug/L			ND	ND	ND	EPA 625.1	5	0.41	10.0 - 20.0
2-Methyl-4,6-dinitrophenol	ug/L			ND	ND	ND	EPA 625.1	5	1.3	50.0 - 100
2-Nitrophenol	ug/L			ND	ND	ND	EPA 625.1	10	0.31	10.0 - 20.0
3,3'-Dichlorobenzidine	ug/L			ND	ND	ND	EPA 625.1	5	0.54	10.0 - 20.0
3-Methyl-4-chlorophenol	ug/L			ND	ND	ND	EPA 625.1	1	0.69	10.0 - 20.0
4,4'-DDD	ug/L			ND	ND	ND	EPA 608.3	0.05	0.003	0.10
4,4'-DDE	ug/L			ND	ND	ND	EPA 608.3	0.05	0.002	0.10
4,4'-DDT	ug/L			ND	ND	ND	EPA 608.3	0.01	0.004	0.10
4-Bromophenyl phenyl ether	ug/L			ND	ND	ND	EPA 625.1	5	0.58	10.0 - 20.0
4-Chlorophenyl phenyl ether	ug/L			ND	ND	ND	EPA 625.1	5	0.63	10.0 - 20.0
4-Nitrophenol	ug/L			ND	ND	ND	EPA 625.1	10	1.6	50.0 - 100
Acenaphthene	ug/L			ND	ND	ND	EPA 625.1	1	0.50	10.0 - 20.0
Acenaphthylene	ug/L			ND	ND	ND	EPA 625.1	10	0.50	10.0 - 20.0
Acrolein	ug/L			ND	ND	ND	EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L			ND	ND	ND	EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L			ND	ND	ND	EPA 608.3	0.005	0.002	0.05
alpha-BHC	ug/L			ND	ND	ND	EPA 608.3	0.01	0.003	0.10
Anthracene	ug/L			ND	ND	ND	EPA 625.1	10	0.56	10.0 - 20.0
Antimony	ug/L			0.60	0.71	0.82	EPA 200.8	0.5	0.12	0.50
Aroclor 1016	pg/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1221	pg/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1232	pg/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1242	pg/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1248	pg/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1254	pg/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1260	pg/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Arsenic	ug/L			1.70	2.05	2.40	EPA 200.8	2	0.05 - 0.07	1.00
Benzene	ug/L			ND	ND	ND	EPA 624.1	2	0.06 - 0.09	0.50
Benzidine	ug/L			ND	ND	ND	EPA 625.1	5	0.77	100
Benzo(a)anthracene	ug/L			ND	ND	ND	EPA 625.1	5	0.46	10.0 - 20.0
Benzo(a)pyrene	ug/L			ND	ND	ND	EPA 625.1	10	0.54	10.0 - 20.0
Benzo(b)fluoranthene	ug/L			ND	ND	ND	EPA 625.1	10	0.61	10.0 - 20.0
Benzo(g,h,i)perylene	ug/L			ND	ND	ND	EPA 625.1	5	0.52	10.0 - 20.0
Benzo(k)fluoranthene	ug/L			ND	ND	ND	EPA 625.1	10	0.53	10.0 - 20.0
Beryllium	ug/L			ND	ND	DNQ Est. Conc. 0.026	EPA 200.8	0.5	0.023 - 0.026	0.25
beta-BHC	ug/L			ND	ND	ND	EPA 608.3	0.005	0.003	0.05
bis(2-Chloroethoxy) methane	ug/L			ND	ND	ND	EPA 625.1	5	0.28	10.0 - 20.0
bis(2-Chloroethyl) ether	ug/L			ND	ND	ND	EPA 625.1	1	0.27	10.0 - 20.0
bis(2-Chloroisopropyl) ether	ug/L			ND	ND	ND	EPA 625.1	2	0.25	10.0 - 20.0

Table 4.5
San Jose Creek West Water Reclamation Plant
2022 INF-002 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
bis(2-Ethylhexyl) phthalate	ug/L		ND						ND		
Bromodichloromethane	ug/L		DNQ Est. Conc. 0.14						ND		
Bromoform	ug/L		ND						ND		
Butyl benzyl phthalate	ug/L		ND						ND		
Cadmium	ug/L		0.34						DNQ Est. Conc. 0.12		
Carbon tetrachloride	ug/L		ND						ND		
Chlorobenzene	ug/L		ND						ND		
Chlorodibromomethane	ug/L		DNQ Est. Conc. 0.20						ND		
Chloroethane	ug/L		ND						63.3		
Chloroform	ug/L		2.7						3.0		
Chromium VI	ug/L		ND						0.11		
Chromium, total (24-hour composite)	ug/L		13.2						3.06		
Chrysene	ug/L		ND						ND		
Copper	ug/L		95.7						59.6		
delta-BHC	ug/L		ND						ND		
Di-n-butyl phthalate	ug/L		ND						ND		
Di-n-octyl phthalate	ug/L		ND						ND		
Dibenzo(a,h)anthracene	ug/L		ND						ND		
Dieldrin	ug/L		ND						DNQ Est. Conc. 0.03		
Diethyl phthalate	ug/L		ND						ND		
Dimethyl phthalate	ug/L		ND						ND		
Endosulfan I	ug/L		ND						ND		
Endosulfan II	ug/L		ND						ND		
Endosulfan sulfate	ug/L		ND						ND		
Endrin	ug/L		ND						ND		
Endrin aldehyde	ug/L		ND						DNQ Est. Conc. 0.06		
Ethylbenzene	ug/L		ND						DNQ Est. Conc. 0.21		
Fluoranthene	ug/L		ND						ND		
Fluorene	ug/L		ND						ND		
gamma-BHC (Lindane)	ug/L		ND						ND		
Heptachlor	ug/L		ND						ND		
Heptachlor epoxide	ug/L		ND						ND		
Hexachlorobenzene	ug/L		ND						ND		
Hexachlorobutadiene	ug/L		ND						ND		
Hexachlorocyclopentadiene	ug/L		ND						ND		
Hexachloroethane	ug/L		ND							ND	
Indeno (1,2,3-cd) pyrene	ug/L		ND						ND		
Isophorone	ug/L		ND						ND		
Lead	ug/L	2.25	5.33	2.05	2.01	2.80	2.38	1.67	1.58	1.76	2.37
Mercury	ug/L		0.29						0.07		
Methyl bromide (Bromomethane)	ug/L		ND						ND		
Methyl chloride (Chloromethane)	ug/L		ND						ND		
Methylene chloride	ug/L		0.54						4.4		
n-Nitrosodi-n-propylamine	ug/L		ND						ND		
n-Nitrosodimethylamine (NDMA)	ug/L		ND						ND		
n-Nitrosodiphenylamine	ug/L		ND						ND		
Naphthalene	ug/L		ND						ND		
Nickel	ug/L		13.6						8.34		
Nitrobenzene	ug/L		ND						ND		
PCB-037	pg/L								51		
PCB-052	pg/L								360 (1)		
PCB-066	pg/L								230 (1)		
PCB-070 and 074 (Co: 61,70,74,76)	pg/L								ND		
PCB-077	pg/L								DNQ Est. Conc. 14 (2)		
PCB-081	pg/L								ND		
PCB-087 and 119 (Co: 86,87,97,108,119)	pg/L								250		
PCB-099	pg/L								110		
PCB-101 (Co: 90/101/113)	pg/L								390 (1)		
PCB-105	pg/L								110		
PCB-110 (Co: 110,115)	pg/L								360 (1)		
PCB-114	pg/L								ND		

Table 4.5
San Jose Creek West Water Reclamation Plant
2022 INF-002 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
bis(2-Ethylhexyl) phthalate	ug/L			ND	ND	ND	EPA 625.1	5	0.55	10.0 - 20.0
Bromodichloromethane	ug/L			ND	ND	DNQ Est. Conc. 0.14	EPA 624.1	2	0.11 - 0.15	0.50
Bromoform	ug/L			ND	ND	ND	EPA 624.1	2	0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L			ND	ND	ND	EPA 625.1	10	0.58	10.0 - 20.0
Cadmium	ug/L			DNQ Est. Conc. 0.12	0.17	0.34	EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L			ND	ND	ND	EPA 624.1	2	0.18 - 0.34	0.50
Chlorobenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.07 - 0.10	0.50
Chlorodibromomethane	ug/L			ND	ND	DNQ Est. Conc. 0.20	EPA 624.1	2	0.11 - 0.13	0.50
Chloroethane	ug/L			ND	31.7	63.3	EPA 624.1	2	0.22 - 0.31	0.50
Chloroform	ug/L			2.7	2.9	3.0	EPA 624.1	2	0.08 - 0.35	0.50
Chromium VI	ug/L			ND	0.055	0.11	EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total (24-hour composite)	ug/L			3.06	8.13	13.2	EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L			ND	ND	ND	EPA 625.1	10	0.41	10.0 - 20.0
Copper	ug/L			59.6	77.7	95.7	EPA 200.8	0.5	0.12 - 0.14	0.50
delta-BHC	ug/L			ND	ND	ND	EPA 608.3	0.005	0.003	0.05
Di-n-butyl phthalate	ug/L			ND	ND	ND	EPA 625.1	10	0.59	10.0 - 20.0
Di-n-octyl phthalate	ug/L			ND	ND	ND	EPA 625.1	10	0.69	10.0 - 20.0
Dibenzo(a,h)anthracene	ug/L			ND	ND	ND	EPA 625.1	10	0.58	10.0 - 20.0
Dieldrin	ug/L			ND	ND	DNQ Est. Conc. 0.03	EPA 608.3	0.01	0.003	0.10
Diethyl phthalate	ug/L			ND	ND	ND	EPA 625.1	2	0.42	10.0 - 20.0
Dimethyl phthalate	ug/L			ND	ND	ND	EPA 625.1	2	0.41	10.0 - 20.0
Endosulfan I	ug/L			ND	ND	ND	EPA 608.3	0.02	0.003	0.10
Endosulfan II	ug/L			ND	ND	ND	EPA 608.3	0.01	0.004	0.10
Endosulfan sulfate	ug/L			ND	ND	ND	EPA 608.3	0.05	0.004	0.10
Endrin	ug/L			ND	ND	ND	EPA 608.3	0.01	0.004	0.10
Endrin aldehyde	ug/L			ND	ND	DNQ Est. Conc. 0.06	EPA 608.3	0.01	0.003	0.10
Ethylbenzene	ug/L			ND	ND	DNQ Est. Conc. 0.21	EPA 624.1	2	0.11 - 0.15	0.50
Fluoranthene	ug/L			ND	ND	ND	EPA 625.1	1	0.69	10.0 - 20.0
Fluorene	ug/L			ND	ND	ND	EPA 625.1	10	0.58	10.0 - 20.0
gamma-BHC (Lindane)	ug/L			ND	ND	ND	EPA 608.3	0.02	0.003	0.10
Heptachlor	ug/L			ND	ND	ND	EPA 608.3	0.01	0.002	0.10
Heptachlor epoxide	ug/L			ND	ND	ND	EPA 608.3	0.01	0.003	0.10
Hexachlorobenzene	ug/L			ND	ND	ND	EPA 625.1	1	0.47	10.0 - 20.0
Hexachlorobutadiene	ug/L			ND	ND	ND	EPA 625.1	1	0.96	10.0 - 20.0
Hexachlorocyclopentadiene	ug/L			ND	ND	ND	EPA 625.1	5	1.8 - 2.0	50.0 - 100
Hexachloroethane	ug/L			ND	ND	ND	EPA 625.1	1	0.81	20.0
Indeno (1,2,3-cd) pyrene	ug/L			ND	ND	ND	EPA 625.1	10	0.53	10.0 - 20.0
Isophorone	ug/L			ND	ND	ND	EPA 625.1	1	0.28	10.0 - 20.0
Lead	ug/L	2.03	1.11	1.11	2.28	5.33	EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L			0.07	0.2	0.29	EPA 245.1	0.5	0.019	0.04
Methyl bromide (Bromomethane)	ug/L			ND	ND	ND	EPA 624.1	2	0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L			ND	ND	ND	EPA 624.1	2	0.19 - 0.41	0.50
Methylene chloride	ug/L			0.54	2.5	4.4	EPA 624.1	2	0.16 - 0.46	0.50
n-Nitrosodi-n-propylamine	ug/L			ND	ND	ND	EPA 625.1 & EPA 1625B (Modified)	5	0.0006 - 0.36	0.020 - 20.0
n-Nitrosodimethylamine (NDMA)	ug/L			ND	ND	ND	EPA 625.1 & EPA 1625B (Modified)	5	0.0005 - 0.50	0.020 - 50.0
n-Nitrosodiphenylamine	ug/L			ND	ND	ND	EPA 625.1 & EPA 1625B (Modified)		0.0013 - 0.64	0.10 - 20.0
Naphthalene	ug/L			ND	ND	ND	EPA 625.1	1	0.20	10.0 - 20.0
Nickel	ug/L			8.34	11.0	13.6	EPA 200.8	1	0.08 - 0.50	1.00
Nitrobenzene	ug/L			ND	ND	ND	EPA 625.1	1	0.31	10.0 - 20.0
PCB-037	pg/L			51	51	51	EPA 1668C		16	21
PCB-052	pg/L			360 (1)	360 (1)	360 (1)	EPA 1668C		6.0	100
PCB-066	pg/L			230 (1)	230 (1)	230 (1)	EPA 1668C		3.1	41
PCB-070 and 074 (Co: 61,70,74,76)	pg/L			ND	ND	ND	EPA 1668C		3.3	160
PCB-077	pg/L			DNQ Est. Conc. 14 (2)	ND	DNQ Est. Conc. 14 (2)	EPA 1668C		3.9	21
PCB-081	pg/L			ND	ND	ND	EPA 1668C		3.5	21
PCB-087 and 119 (Co: 86,87,97,108,119)	pg/L			250	250	250	EPA 1668C		7.1	120
PCB-099	pg/L			110	110	110	EPA 1668C		6.3	41
PCB-101 (Co: 90/101/113)	pg/L			390 (1)	390 (1)	390 (1)	EPA 1668C		7.7	120
PCB-105	pg/L			110	110	110	EPA 1668C		6.5	41
PCB-110 (Co: 110,115)	pg/L			360 (1)	360 (1)	360 (1)	EPA 1668C		6.1	41
PCB-114	pg/L			ND	ND	ND	EPA 1668C		6.6	41

Table 4.5
San Jose Creek West Water Reclamation Plant
2022 INF-002 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
PCB-118	pg/L								260 (1)		
PCB-123	pg/L								DNQ Est. Conc. 20 (2)		
PCB-126	pg/L								ND		
PCB-128 (Co: 128,166)	pg/L								DNQ Est. Conc. 33		
PCB-138 (Co: 129,138,163)	pg/L								250		
PCB-149 (Co: 147,149)	pg/L								170 (1)		
PCB-151 (Co: 135,151)	pg/L								80		
PCB-153/168	pg/L								210		
PCB-156/157	pg/L								DNQ Est. Conc. 33 (2)		
PCB-158	pg/L								25		
PCB-167	pg/L								ND		
PCB-169	pg/L								ND		
PCB-170	pg/L								55		
PCB-177	pg/L								27		
PCB-18/30	pg/L								120 (1)		
PCB-180/193	pg/L								130		
PCB-183	pg/L								41		
PCB-187	pg/L								45		
PCB-189	pg/L								ND		
PCB-194	pg/L								DNQ Est. Conc. 39 (2)		
PCB-20/28	pg/L								220 (1)		
PCB-201	pg/L								ND		
PCB-206	pg/L								DNQ Est. Conc. 19		
PCB-44/47/65	pg/L								320 (1)		
PCB-49/69	pg/L								120 (1)		
PCBs, Sum as Aroclors	pg/L		ND						ND		
PCBs, Sum as Congeners	pg/L								3,930		
Pentachlorophenol	ug/L		ND						ND		
pH	SU	7.5	7.4	7.4	7.5	7.4	7.3	7.4	7.4	7.4	7.5
Phenanthrene	ug/L		ND						ND		
Phenol	ug/L		25.8						19.6		
Pyrene	ug/L		ND						ND		
Selenium	ug/L	1.21	1.53	1.41	1.40	1.10	1.57	1.33	DNQ Est. Conc. 0.80	DNQ Est. Conc. 0.64	1.11
Silver	ug/L		0.32						DNQ Est. Conc. 0.07		
Technical Chlordane	ug/L		ND						ND		
Temperature	Degrees F	68.4	69.5	68.6	73.1	75.3	78.0	80.6	81.5	81.7	76.8
Tetrachloroethene	ug/L		ND						ND		
Thallium	ug/L		ND						ND		
Toluene	ug/L		0.87						1.8		
Total BOD 20C	mg/L	303	304	299	284	301	306	297	325	374	304
Total cyanide	ug/L		ND						ND		
Total suspended solids	mg/L	303	404	305	287	275	237	317	308	409	621
Toxaphene	ug/L		ND						ND		
trans-1,2-Dichloroethene	ug/L		ND						ND		
Trichloroethene	ug/L		ND						ND		
Vinyl chloride	ug/L		ND						ND		
Zinc	ug/L		388						147		

Table 4.5
San Jose Creek West Water Reclamation Plant
2022 INF-002 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
PCB-118	pg/L			260 (1)	260 (1)	260 (1)	EPA 1668C		5.9	41
PCB-123	pg/L			DNQ Est. Conc. 20 (2)	ND	DNQ Est. Conc. 20 (2)	EPA 1668C		6.9	41
PCB-126	pg/L			ND	ND	ND	EPA 1668C		7.8	21
PCB-128 (Co: 128,166)	pg/L			DNQ Est. Conc. 33	ND	DNQ Est. Conc. 33	EPA 1668C		3.6	82
PCB-138 (Co: 129,138,163)	pg/L			250	250	250	EPA 1668C		3.8	62
PCB-149 (Co: 147,149)	pg/L			170 (1)	170 (1)	170 (1)	EPA 1668C		3.7	41
PCB-151 (Co: 135,151)	pg/L			80	80	80	EPA 1668C		3.9	41
PCB-153/168	pg/L			210	210	210	EPA 1668C		3.0	41
PCB-156/157	pg/L			DNQ Est. Conc. 33 (2)	ND	DNQ Est. Conc. 33 (2)	EPA 1668C		10	41
PCB-158	pg/L			25	25	25	EPA 1668C		2.7	21
PCB-167	pg/L			ND	ND	ND	EPA 1668C		7.6	41
PCB-169	pg/L			ND	ND	ND	EPA 1668C		13	21
PCB-170	pg/L			55	55	55	EPA 1668C		3.2	41
PCB-177	pg/L			27	27	27	EPA 1668C		2.7	21
PCB-18/30	pg/L			120 (1)	120 (1)	120 (1)	EPA 1668C		3.3	41
PCB-180/193	pg/L			130	130	130	EPA 1668C		2.3	41
PCB-183	pg/L			41	41	41	EPA 1668C		2.4	21
PCB-187	pg/L			45	45	45	EPA 1668C		1.0	21
PCB-189	pg/L			ND	ND	ND	EPA 1668C		1.9	21
PCB-194	pg/L			DNQ Est. Conc. 39 (2)	ND	DNQ Est. Conc. 39 (2)	EPA 1668C		2.4	41
PCB-20/28	pg/L			220 (1)	220 (1)	220 (1)	EPA 1668C		14	82
PCB-201	pg/L			ND	ND	ND	EPA 1668C		1.4	21
PCB-206	pg/L			DNQ Est. Conc. 19	ND	DNQ Est. Conc. 19	EPA 1668C		1.4	41
PCB-44/47/65	pg/L			320 (1)	320 (1)	320 (1)	EPA 1668C		6.0	120
PCB-49/69	pg/L			120 (1)	120 (1)	120 (1)	EPA 1668C		5.3	41
PCBs, Sum as Aroclors	pg/L			ND	ND	ND	Calculated			
PCBs, Sum as Congeners	pg/L			3,930	3,930	3,930	Calculated			
Pentachlorophenol	ug/L			ND	ND	ND	EPA 625.1	5	0.82	10.0 - 20.0
pH	SU	7.6	7.4	7.3	7.4	7.6	SM 4500 H+ B			
Phenanthrene	ug/L			ND	ND	ND	EPA 625.1	5	0.59	10.0 - 20.0
Phenol	ug/L			19.6	22.7	25.8	EPA 625.1	1	0.24	10.0 - 20.0
Pyrene	ug/L			ND	ND	ND	EPA 625.1	10	0.60	10.0 - 20.0
Selenium	ug/L	1.32	1.19	DNQ Est. Conc. 0.64	1.1	1.57	EPA 200.8	2	0.04	1.00
Silver	ug/L			DNQ Est. Conc. 0.07	0.2	0.32	EPA 200.8	0.25	0.02	0.20
Technical Chlordane	ug/L			ND	ND	ND	EPA 608.3	0.1	0.02	0.50
Temperature	Degrees F	69.3	68.5	68.4	74.3	81.7	EPA 170.1 (oF)			
Tetrachloroethene	ug/L			ND	ND	ND	EPA 624.1	2	0.16 - 0.18	0.50
Thallium	ug/L			ND	ND	ND	EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L			0.87	1.3	1.8	EPA 624.1	2	0.04 - 0.15	0.50
Total BOD 20C	mg/L	343	372	284	318	374	SM 5210B			120
Total cyanide	ug/L			ND	ND	ND	SM 4500 CN E	5	2.00	5.00
Total suspended solids	mg/L	423	417	237	359	621	SM 2540D			83.3 - 167
Toxaphene	ug/L			ND	ND	ND	EPA 608.3	0.5	0.05	5.0
trans-1,2-Dichloroethene	ug/L			ND	ND	ND	EPA 624.1	1	0.06 - 0.20	0.50
Trichloroethene	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.15	0.50
Vinyl chloride	ug/L			ND	ND	ND	EPA 624.1	2	0.25 - 0.37	0.50
Zinc	ug/L			147	268	388	EPA 200.8	1	0.92 - 0.95	1.00 - 5.00

(1) Blank contamination observed.

(2) Possible interference observed. The measured ion ratio did not meet qualitative criteria for analysis and results are considered to be an estimated maximum possible concentration.

San Jose Creek WRP, West, Effluent Monitoring

Table 4.8
San Jose Creek West Water Reclamation Plant
2022 EFF-003 Monitoring Results

Parameter	Units	January 2022 (1)	February 2022 (1)	March 2022 (1)	April 2022 (1)	May 2022 (1)	June 2022 (1)	July 2022 (1)	August 2022 (1)	September 2022 (1)	October 2022 (1)
1,1,1-Trichloroethane	ug/L		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	ug/L		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	ug/L		ND		ND		ND		ND		ND
1,1-Dichloroethane	ug/L		ND		ND		ND		ND		ND
1,1-Dichloroethene	ug/L		ND		ND		ND		ND		ND
1,2,3,4,6,7,8-HeptaCDD	pg/L	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 1.5	ND	ND
1,2,3,4,6,7,8-HeptaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 3.8 (2)	ND	ND
1,2,3,4,7,8,9-HeptaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-HexaCDD	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-HexaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 1.0 (2)	DNQ Est. Conc. 1.9	ND
1,2,3,6,7,8-HexaCDD	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-HexaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 0.69	DNQ Est. Conc. 1.9	ND
1,2,3,7,8,9-HexaCDD	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-HexaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-PentaCDD	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 1.3	ND
1,2,3,7,8-PentaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	ug/L		DNQ Est. Conc. 0.0027				ND		ND		
1,2,4-Trichlorobenzene	ug/L		ND		ND		ND		ND		ND
1,2-Dichlorobenzene	ug/L		ND		ND		ND		ND		ND
1,2-Dichloroethane	ug/L		ND		ND		ND		ND		ND
1,2-Dichloropropane	ug/L		ND		ND		ND		ND		ND
1,2-Diphenylhydrazine	ug/L		ND						ND		
1,3-Dichlorobenzene	ug/L		ND		ND		ND		ND		ND
1,3-Dichloropropene (Total)	ug/L		ND		ND		0.11		ND		ND
1,4-Dichlorobenzene	ug/L		ND		ND		ND		ND		ND
1,4-Dioxane	ug/L		0.89				0.70		0.81		
2,3,4,6,7,8-HexaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 1.5	ND
2,3,4,7,8-PentaCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 1.1 (2)	ND
2,3,7,8-TCDD	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-TetraCDF	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ug/L		ND		ND		ND		ND		ND
2,4-Dichlorophenol	ug/L		ND						ND		
2,4-Dimethylphenol	ug/L		ND						ND		
2,4-Dinitrophenol	ug/L		ND						ND		
2,4-Dinitrotoluene	ug/L		ND						ND		
2,6-Dinitrotoluene	ug/L		ND						ND		
2-Chloroethyl vinyl ether (mixed)	ug/L		ND		ND		ND		ND		ND
2-Chloronaphthalene	ug/L		ND								ND
2-Chlorophenol	ug/L		ND						ND		
2-Methyl-4,6-dinitrophenol	ug/L		ND						ND		
2-Nitrophenol	ug/L		ND				ND		ND		
3,3'-Dichlorobenzidine	ug/L		ND							ND	
3-Methyl-4-chlorophenol	ug/L		ND						ND		
4,4'-DDD	ug/L		ND		ND		ND		ND		ND
4,4'-DDE	ug/L		ND		ND		ND		ND		ND
4,4'-DDT	ug/L		ND		ND		ND		ND		ND
4-Bromophenyl phenyl ether	ug/L		ND						ND		
4-Chlorophenyl phenyl ether	ug/L		ND						ND		
4-Nitrophenol	ug/L		ND						ND		
Acenaphthene	ug/L		ND						ND		
Acenaphthylene	ug/L		ND						ND		
Acrolein	ug/L		ND						ND		
Acrylonitrile	ug/L		ND						ND		
Aldrin	ug/L		ND		ND		ND		ND		ND
alpha-BHC	ug/L		ND		ND		ND		ND		ND
Ammonia as nitrogen	mg/L	1.64	1.31	1.33	1.69	1.31	1.38	5.23	1.89	1.33	1.30
Anthracene	ug/L		ND						ND		
Antimony	ug/L		0.52				0.63		0.63		
Aroclor 1016	pg/L		ND		ND				ND		ND

Table 4.8
San Jose Creek West Water Reclamation Plant
2022 EFF-003 Monitoring Results

Parameter	Units	November 2022 (1)	December 2022 (1)	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
1,1,1-Trichloroethane	ug/L		ND	ND	ND	ND			EPA 624.1	1	0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.08 - 0.19	0.50
1,1-Dichloroethene	ug/L		ND	ND	ND	ND			EPA 624.1	1	0.21	0.50
1,2,3,4,6,7,8-HeptaCDD	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 1.5			EPA 1613B	2,000,000	0.042 - 0.33	47 - 51
1,2,3,4,6,7,8-HeptaCDF	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 3.8 (2)			EPA 1613B	2,000,000	0.060 - 0.68	47 - 51
1,2,3,4,7,8,9-HeptaCDF	pg/L	ND	ND	ND	ND	ND			EPA 1613B	1,000,000	0.064 - 0.81	47 - 51
1,2,3,4,7,8-HexaCDD	pg/L	ND	ND	ND	ND	ND			EPA 1613B	1,000,000	0.035 - 0.85	47 - 51
1,2,3,4,7,8-HexaCDF	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 1.9			EPA 1613B		0.015 - 0.59	47 - 51
1,2,3,6,7,8-HexaCDD	pg/L	ND	ND	ND	ND	ND			EPA 1613B		0.039 - 0.83	47 - 51
1,2,3,6,7,8-HexaCDF	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 1.9			EPA 1613B		0.015 - 0.55	47 - 51
1,2,3,7,8,9-HexaCDD	pg/L	ND	ND	ND	ND	ND			EPA 1613B		0.033 - 0.80	47 - 51
1,2,3,7,8,9-HexaCDF	pg/L	ND	ND	ND	ND	ND			EPA 1613B		0.016 - 0.62	47 - 51
1,2,3,7,8-PentaCDD	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 1.3			EPA 1613B		0.10 - 1.0	47 - 51
1,2,3,7,8-PentaCDF	pg/L	ND	ND	ND	ND	ND			EPA 1613B		0.079 - 0.77	47 - 51
1,2,3-Trichloropropane	ug/L		ND	ND	ND	DNQ Est. Conc. 0.0027			EPA 524.2 (TCP)		0.0012	0.0050
1,2,4-Trichlorobenzene	ug/L		ND	ND	ND	ND			EPA 625.1		0.51	1.0
1,2-Dichlorobenzene	ug/L		ND	ND	ND	ND			EPA 624.1		0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L		ND	ND	ND	ND			EPA 624.1		0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L		ND	ND	ND	ND			EPA 624.1		0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L			ND	ND	ND			EPA 625.1	5	0.63	1.0
1,3-Dichlorobenzene	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L		ND	ND	0.018	0.11			Calculated			
1,4-Dichlorobenzene	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.16 - 0.25	0.50
1,4-Dioxane	ug/L		0.63	0.63	0.76	0.89			SW-846 8270MOD 1,4-Dioxane		0.26	0.40
2,3,4,6,7,8-HexaCDF	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 1.5			EPA 1613B	1,000,000	0.015 - 0.54	47 - 51
2,3,4,7,8-PentaCDF	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 1.1 (2)			EPA 1613B	1,000,000	0.083 - 0.88	47 - 51
2,3,7,8-TCDD	pg/L	ND	ND	ND	ND	ND	0.028	0.014	EPA 1613B	5,000,000	0.14 - 1.1	9.4 - 10
2,3,7,8-TetraCDF	pg/L	ND	ND	ND	ND	ND			EPA 1613B	5,000,000	0.049 - 0.59	9.4 - 10
2,4,6-Trichlorophenol	ug/L		ND	ND	ND	ND			EPA 625.1	10	0.64	1.0
2,4-Dichlorophenol	ug/L			ND	ND	ND			EPA 625.1		0.60	1.0
2,4-Dimethylphenol	ug/L			ND	ND	ND			EPA 625.1		0.44	1.0
2,4-Dinitrophenol	ug/L			ND	ND	ND			EPA 625.1		1.5	5.0
2,4-Dinitrotoluene	ug/L			ND	ND	ND			EPA 625.1		0.37	1.0
2,6-Dinitrotoluene	ug/L			ND	ND	ND			EPA 625.1	5	0.50	1.0
2-Chloroethyl vinyl ether (mixed)	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L	ND		ND	ND	ND			EPA 625.1	5	0.41	1.0
2-Chlorophenol	ug/L			ND	ND	ND			EPA 625.1	5	0.41	1.0
2-Methyl-4,6-dinitrophenol	ug/L			ND	ND	ND			EPA 625.1	10	1.3	5.0
2-Nitrophenol	ug/L		ND	ND	ND	ND			EPA 625.1	5	0.31	1.0
3,3'-Dichlorobenzidine	ug/L	ND		ND	ND	ND			EPA 625.1	1	0.54	1.0
3-Methyl-4-chlorophenol	ug/L			ND	ND	ND			EPA 625.1	5	0.69	1.0
4,4'-DDD	ug/L		ND	ND	ND	ND			EPA 608.3	5	0.003	0.01
4,4'-DDE	ug/L		ND	ND	ND	ND			EPA 608.3	5	0.002	0.01
4,4'-DDT	ug/L		ND	ND	ND	ND			EPA 608.3	10	0.004	0.01
4-Bromophenyl phenyl ether	ug/L			ND	ND	ND			EPA 625.1	0.05	0.58	1.0
4-Chlorophenyl phenyl ether	ug/L			ND	ND	ND			EPA 625.1	0.05	0.63	1.0
4-Nitrophenol	ug/L			ND	ND	ND			EPA 625.1	0.01	1.6	5.0
Acenaphthene	ug/L			ND	ND	ND			EPA 625.1	1	0.50	1.0
Acenaphthylene	ug/L			ND	ND	ND			EPA 625.1	10	0.50	1.0
Acrolein	ug/L			ND	ND	ND			EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L			ND	ND	ND			EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L		ND	ND	ND	ND			EPA 608.3	0.005	0.002	0.005
alpha-BHC	ug/L		ND	ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Ammonia as nitrogen	mg/L	1.57	1.75	1.30	1.81	5.23	2.7(3)/4.7(4)	1.9(3)/3.5(4)	SM 4500 NH3 H		0.020 - 0.030	0.100
Anthracene	ug/L			ND	ND	ND			EPA 625.1	10	0.56	1.0
Antimony	ug/L		0.61	0.52	0.60	0.63			EPA 200.8	0.5	0.12	0.50
Aroclor 1016	pg/L			ND	ND	ND			EPA 608.3	500,000	100,000	500,000

Table 4.8
San Jose Creek West Water Reclamation Plant
2022 EFF-003 Monitoring Results

Parameter	Units	January 2022 (1)	February 2022 (1)	March 2022 (1)	April 2022 (1)	May 2022 (1)	June 2022 (1)	July 2022 (1)	August 2022 (1)	September 2022 (1)	October 2022 (1)
Aroclor 1221	pg/L		ND		ND				ND		ND
Aroclor 1232	pg/L		ND		ND				ND		ND
Aroclor 1242	pg/L		ND		ND		ND		ND		ND
Aroclor 1248	pg/L		ND		ND				ND		ND
Aroclor 1254	pg/L		ND		ND		ND		ND		ND
Aroclor 1260	pg/L		ND		ND				ND		ND
Arsenic	ug/L		DNQ Est. Conc. 0.82				DNQ Est. Conc. 0.92		DNQ Est. Conc. 0.98		
Barium	mg/L		0.0556				0.0514		0.0576		
Benzene	ug/L		ND		ND		ND		ND		ND
Benzidine	ug/L		ND							ND	
Benzo(a)anthracene	ug/L		ND						ND		
Benzo(a)pyrene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/L		ND						ND		
Benzo(g,h,i)perylene	ug/L		ND						ND		
Benzo(k)fluoranthene	ug/L		ND						ND		
Beryllium	ug/L		ND				ND		ND		
beta-BHC	ug/L		ND		ND		ND		ND		ND
bis(2-Chloroethoxy) methane	ug/L		ND						ND		
bis(2-Chloroethyl) ether	ug/L		ND						ND		
bis(2-Chloroisopropyl) ether	ug/L		ND						ND		
bis(2-Ethylhexyl) phthalate	ug/L		ND		ND		ND		ND		ND
Boron	mg/L	0.37	0.34	0.33	0.34	0.39	0.38	0.38	0.35	0.39	0.42
Bromodichloromethane	ug/L	8.2	8.8	3.7	19.9	5.7	4.3	3.5	3.3	11	4.7
Bromoform	ug/L	ND	ND	ND	DNQ Est. Conc. 0.43	ND	DNQ Est. Conc. 0.13	ND	ND	DNQ Est. Conc. 0.33	ND
Butyl benzyl phthalate	ug/L		ND						ND		
Cadmium	ug/L		ND				ND		ND		
Carbon tetrachloride	ug/L		ND		ND		ND		ND		ND
Chloride	mg/L	119	129	133	128	129	131	134	149	128	124
Chlorobenzene	ug/L		ND		ND		ND		ND		ND
Chlorodibromomethane	ug/L	1.8	1.9	0.54	6.8	1.2	1.2	1.0	DNQ Est. Conc. 0.35	3.4	DNQ Est. Conc. 0.18
Chloroethane	ug/L		ND		ND		ND		ND		ND
Chloroform	ug/L	18.0	21.8	11.1	33.4	13.8	11.2	9.1	12	20.5	15.3
Chlorpyrifos	ug/L								ND		
Chromium III	ug/L		1.03				0.69		0.77		
Chromium VI	ug/L		0.20				0.18		0.11		
Chromium, total (24-hour composite)	ug/L		1.21				0.82		0.86		
Chromium, total (grab)	ug/L		1.23				0.87		0.88		
Chrysene	ug/L		ND						ND		
Copper	ug/L	5.34	4.00	4.12	4.82	4.72	3.59	5.23	3.28	6.56	4.41
delta-BHC	ug/L		ND		ND		ND		ND		ND
Di-n-butyl phthalate	ug/L		ND						ND		
Di-n-octyl phthalate	ug/L		ND						ND		
Diazinon	ug/L		ND				ND		ND		
Dibenzo(a,h)anthracene	ug/L		ND						ND		
Dieldrin	ug/L	ND	DNQ Est. Conc. 0.003	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ug/L		ND						ND		
Dimethyl phthalate	ug/L		ND						ND		
Dissolved oxygen	mg/L	6.3	6.5	5.0	5.8	5.8	5.9	4.9	3.8	5.5	5.9
E. coli	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ug/L		ND						ND		
Endosulfan II	ug/L		ND						ND		
Endosulfan sulfate	ug/L		ND						ND		
Endrin	ug/L		ND		ND		ND		ND		ND
Endrin aldehyde	ug/L		ND						ND		
Ethylbenzene	ug/L		ND		ND		ND		ND		ND
Fluoranthene	ug/L		ND		ND		ND		ND		ND
Fluorene	ug/L		ND						ND		
Fluoride	mg/L		0.535		0.497		0.455		0.557		0.682
gamma-BHC (Lindane)	ug/L		ND		ND		ND		0.02		ND

Table 4.8
San Jose Creek West Water Reclamation Plant
2022 EFF-003 Monitoring Results

Parameter	Units	November 2022 (1)	December 2022 (1)	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
Aroclor 1221	pg/L			ND	ND	ND			EPA 608.3	500,000	100,000	500,000
Aroclor 1232	pg/L			ND	ND	ND			EPA 608.3	500,000	100,000	500,000
Aroclor 1242	pg/L		ND	ND	ND	ND			EPA 608.3	500,000	100,000	500,000
Aroclor 1248	pg/L			ND	ND	ND			EPA 608.3	500,000	100,000	500,000
Aroclor 1254	pg/L		ND	ND	ND	ND			EPA 608.3	500,000	100,000	500,000
Aroclor 1260	pg/L			ND	ND	ND			EPA 608.3	500,000	100,000	500,000
Arsenic	ug/L		1.03	DNQ Est. Conc. 0.82	0.26	1.03			EPA 200.8	2	0.05 - 0.07	1.00
Barium	mg/L		0.0181	0.0181	0.0457	0.0576			EPA 200.8		0.07 - 0.10	0.50
Benzene	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.06 - 0.09	0.50
Benzidine	ug/L			ND	ND	ND			EPA 625.1	5	0.77	5.0
Benzo(a)anthracene	ug/L			ND	ND	ND			EPA 625.1	5	0.46	1.0
Benzo(a)pyrene	ug/L	ND	ND	ND	ND	ND			EPA 525.2 & EPA 610	10	0.013 - 0.20	0.020 - 1.0
Benzo(b)fluoranthene	ug/L			ND	ND	ND			EPA 610	10	0.015	0.020
Benzo(g,h,i)perylene	ug/L			ND	ND	ND			EPA 625.1	5	0.52	1.0
Benzo(k)fluoranthene	ug/L			ND	ND	ND			EPA 610	10	0.014	0.020
Beryllium	ug/L		ND	ND	ND	ND			EPA 200.8	0.5	0.023 - 0.026	0.25
beta-BHC	ug/L		ND	ND	ND	ND			EPA 608.3	0.005	0.003	0.005
bis(2-Chloroethoxy) methane	ug/L			ND	ND	ND			EPA 625.1	5	0.28	1.0
bis(2-Chloroethyl) ether	ug/L			ND	ND	ND			EPA 625.1	1	0.27	1.0
bis(2-Chloroisopropyl) ether	ug/L			ND	ND	ND			EPA 625.1	2	0.25	1.0
bis(2-Ethylhexyl) phthalate	ug/L		ND	ND	ND	ND			EPA 625.1	5	0.55	1.0
Boron	mg/L	0.40	0.36	0.33	0.37	0.42		1.0	EPA 200.8		0.008 - 0.013	0.020
Bromodichloromethane	ug/L	2.9	4.4	2.9	6.7	19.9			EPA 624.1	2	0.11 - 0.15	0.50
Bromoform	ug/L	ND	ND	ND	ND	DNQ Est. Conc. 0.43			EPA 624.1	2	0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L			ND	ND	ND			EPA 625.1	10	0.58	1.0
Cadmium	ug/L		ND	ND	ND	ND			EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.18 - 0.34	0.50
Chloride	mg/L	126	123	119	129	149		180	EPA 300.0		0.024 - 0.144	10.0 - 20.0
Chlorobenzene	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.07 - 0.10	0.50
Chlorodibromomethane	ug/L	DNQ Est. Conc. 0.41	0.61	DNQ Est. Conc. 0.18	1.5	6.8			EPA 624.1	2	0.11 - 0.13	0.50
Chloroethane	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.22 - 0.31	0.50
Chloroform	ug/L	8.1	17.2	8.1	16	33.4			EPA 624.1	2	0.08 - 0.35	0.50
Chlorpyrifos	ug/L			ND	ND	ND			SW-846 8141A		0.0026	0.050
Chromium III	ug/L		1.50	0.69	1.0	1.50			Calculated			
Chromium VI	ug/L		0.32	0.11	0.20	0.32			EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total (24-hour composite)	ug/L		1.54	0.82	1.1	1.54			EPA 200.8		0.27 - 0.28	0.50
Chromium, total (grab)	ug/L		1.83	0.87	1.2	1.83			EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L			ND	ND	ND			EPA 610	10	0.014	0.020
Copper	ug/L	3.84	2.72	2.72	4.39	6.56			EPA 200.8	0.5	0.12 - 0.14	0.50
delta-BHC	ug/L		ND	ND	ND	ND			EPA 608.3	0.005	0.003	0.005
Di-n-butyl phthalate	ug/L			ND	ND	ND			EPA 625.1	2	0.59	1.0
Di-n-octyl phthalate	ug/L			ND	ND	ND			EPA 625.1	2	0.69	1.0
Diazinon	ug/L		ND	ND	ND	ND			EPA 525.2 & SW-846 8141A	10	0.0035 - 0.22	0.020 - 1.0
Dibenzo(a,h)anthracene	ug/L			ND	ND	ND			EPA 610	10	0.014	0.020
Dieldrin	ug/L	ND	ND	ND	ND	DNQ Est. Conc. 0.003	0.00028	0.00014	EPA 608.3		0.002 - 0.003	0.01
Diethyl phthalate	ug/L			ND	ND	ND			EPA 625.1	10	0.42	1.0
Dimethyl phthalate	ug/L			ND	ND	ND			EPA 625.1	0.01	0.41	1.0
Dissolved oxygen	mg/L	4.1	6.0	3.8	5.5	6.5			HACH 10360 LDO			0.2
E. coli	No./100mL	ND	ND	ND	ND	ND			SM 9223 Quanti-Tray			1
Endosulfan I	ug/L			ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Endosulfan II	ug/L			ND	ND	ND			EPA 608.3	0.02	0.004	0.01
Endosulfan sulfate	ug/L			ND	ND	ND			EPA 608.3	0.05	0.004	0.01
Endrin	ug/L		ND	ND	ND	ND			EPA 608.3	0.01	0.004	0.01
Endrin aldehyde	ug/L			ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Ethylbenzene	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.11 - 0.15	0.50
Fluoranthene	ug/L		ND	ND	ND	ND			EPA 625.1	1	0.69	1.0
Fluorene	ug/L			ND	ND	ND			EPA 625.1	10	0.58	1.0
Fluoride	mg/L		0.526	0.455	0.542	0.682			SM 4500 F C		0.040	0.100
gamma-BHC (Lindane)	ug/L		ND	ND	0.003	0.02			EPA 608.3	0.02	0.003	0.01

Table 4.8
San Jose Creek West Water Reclamation Plant
2022 EFF-003 Monitoring Results

Parameter	Units	January 2022 (1)	February 2022 (1)	March 2022 (1)	April 2022 (1)	May 2022 (1)	June 2022 (1)	July 2022 (1)	August 2022 (1)	September 2022 (1)	October 2022 (1)
Gross alpha radioactivity	pCi/L		0.705				2.32		1.84		
Gross beta radioactivity	pCi/L		10.5				4.98		4.68		
Heptachlor	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	ug/L		ND		ND		ND		ND		ND
Hexachlorobenzene	ug/L		ND				ND		ND		
Hexachlorobutadiene	ug/L		ND						ND		
Hexachlorocyclopentadiene	ug/L		ND				ND			ND	
Hexachloroethane	ug/L		ND							ND	
Indeno (1,2,3-cd) pyrene	ug/L		ND						ND		
Iron	ug/L	37	31	32	27	24	32	43	38	28	28
Isophorone	ug/L		ND						ND		
Lead	ug/L	DNQ Est. Conc. 0.18	DNQ Est. Conc. 0.23	DNQ Est. Conc. 0.22	DNQ Est. Conc. 0.16	DNQ Est. Conc. 0.18	DNQ Est. Conc. 0.15	DNQ Est. Conc. 0.15	DNQ Est. Conc. 0.18	DNQ Est. Conc. 0.16	DNQ Est. Conc. 0.13
Mercury	ug/L		0.0041				0.014		0.010		
Methyl bromide (Bromomethane)	ug/L		ND		ND		ND		ND		ND
Methyl chloride (Chloromethane)	ug/L		ND		ND		ND		ND		ND
Methyl tert-butyl ether (MTBE)	ug/L		ND				ND		ND		
Methylene chloride	ug/L		ND		ND		ND		ND		ND
n-Nitrosodi-n-propylamine	ug/L		ND	ND			ND		ND		
n-Nitrosodimethylamine (NDMA)	ug/L	0.010	0.010	0.018	0.015	0.016	0.028	0.039	0.012	0.015	0.015
n-Nitrosodiphenylamine	ug/L		ND	ND					ND		
Naphthalene	ug/L		ND				ND		ND		
Nickel	ug/L		3.26				2.49		4.12		
Nitrate + nitrite as nitrogen	mg/L	3.62	6.90	5.72	5.99	6.19	5.62	5.54	7.79	6.46	4.72
Nitrate as nitrogen	mg/L	3.38	6.82	5.64	5.90	6.13	5.54	4.86	7.69	6.44	4.68
Nitrite as nitrogen	mg/L	0.243	0.080	0.083	0.089	0.062	0.076	0.676	0.098	ND	0.039
Nitrobenzene	ug/L		ND						ND		
OctaCDD	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OctaCDF	pg/L	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 4.2	DNQ Est. Conc. 4.7	ND	ND
Oil and grease	mg/L		ND			DNQ Est. Conc. 1.4			ND		
Organic nitrogen	mg/L	1.36	0.965	0.944	0.910	1.36	ND	0.670	0.128	0.065	6.75
Orthophosphate-P	mg/L	0.551	0.174	0.408	0.262	0.329	0.242	1.74	2.98	0.453	0.447
PCB-037	pg/L								DNQ Est. Conc. 3.6		
PCB-052	pg/L								DNQ Est. Conc. 28 (7)		
PCB-066	pg/L								ND		
PCB-070 and 074 (Co: 61,70,74,76)	pg/L								ND		
PCB-077	pg/L								ND		
PCB-081	pg/L								ND		
PCB-087 and 119 (Co: 86,87,97,108,119,125)	pg/L								ND		
PCB-099	pg/L								DNQ Est. Conc. 4.9		
PCB-101 (Co: 90/101/113)	pg/L								DNQ Est. Conc. 14 (7)		
PCB-105	pg/L								ND		
PCB-110 (Co: 110,115)	pg/L								ND		
PCB-114	pg/L								ND		
PCB-118	pg/L								ND		
PCB-123	pg/L								ND		
PCB-126	pg/L								ND		
PCB-128 (Co: 128,166)	pg/L								DNQ Est. Conc. 0.56 (2)		
PCB-138 (Co: 129,138,163)	pg/L								ND		
PCB-149 (Co: 147,149)	pg/L								ND		
PCB-151 (Co: 135,151)	pg/L								DNQ Est. Conc. 2.4 (2)		
PCB-153/168	pg/L								ND		
PCB-156/157	pg/L								ND		
PCB-158	pg/L								ND		
PCB-167	pg/L								ND		
PCB-169	pg/L								ND		
PCB-170	pg/L								DNQ Est. Conc. 0.57 (2)		
PCB-177	pg/L								ND		
PCB-18/30	pg/L								DNQ Est. Conc. 17 (7)		
PCB-180/193	pg/L								DNQ Est. Conc. 2.8		

Table 4.8
San Jose Creek West Water Reclamation Plant
2022 EFF-003 Monitoring Results

Parameter	Units	November 2022 (1)	December 2022 (1)	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
Gross alpha radioactivity	pCi/L		3.26	0.705	2.03	3.26		15	EPA 900.0		3.52 - 4.68	3.00
Gross beta radioactivity	pCi/L		14.9	4.68	8.77	14.9		(5)	EPA 900.0		1.14 - 1.71	4.00
Heptachlor	ug/L	ND	ND	ND	ND	ND	0.00042	0.00021	EPA 608.3	0.01	0.002	0.01
Heptachlor epoxide	ug/L		ND	ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Hexachlorobenzene	ug/L		ND	ND	ND	ND			EPA 508.1 & EPA 625.1		0.0097 - 0.47	0.10 - 1.0
Hexachlorobutadiene	ug/L			ND	ND	ND			EPA 625.1	1	0.96	1.0
Hexachlorocyclopentadiene	ug/L		ND	ND	ND	ND			EPA 525.2 & EPA 625.1	5	0.092 - 2.0	1.0 - 10.0
Hexachloroethane	ug/L			ND	ND	ND			EPA 625.1	1	0.81	1.0
Indeno (1,2,3-cd) pyrene	ug/L			ND	ND	ND			EPA 610	10	0.013	0.020
Iron	ug/L	32	28	24	32	43		300	EPA 200.8		5.68 - 9	20.0
Isophorone	ug/L			ND	ND	ND			EPA 625.1	1	0.28	1.0
Lead	ug/L	DNQ Est. Conc. 0.20	DNQ Est. Conc. 0.17	DNQ Est. Conc. 0.13	ND	DNQ Est. Conc. 0.23	166(6)		EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L		0.0088	0.0041	0.0092	0.014			EPA 1631E		0.00010	0.00050
Methyl bromide (Bromomethane)	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.19 - 0.41	0.50
Methyl tert-butyl ether (MTBE)	ug/L		ND	ND	ND	ND			EPA 624.1		0.08 - 0.40	0.50
Methylene chloride	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.16 - 0.46	0.50
n-Nitrosodi-n-propylamine	ug/L		0.0041	ND	0.00082	0.0041			EPA 1625B (Modified)		0.0006 - 0.0014	0.0020 - 0.010
n-Nitrosodimethylamine (NDMA)	ug/L	0.022	0.018	0.010	0.018	0.039			EPA 1625B (Modified)		0.0005 - 0.00052	0.0020 - 0.010
n-Nitrosodiphenylamine	ug/L			ND	ND	ND			EPA 1625B (Modified)	1	0.0013 - 0.0057	0.010 - 0.050
Naphthalene	ug/L		ND	ND	ND	ND			EPA 625.1	5	0.20	1.0
Nickel	ug/L		2.03	2.03	2.98	4.12			EPA 200.8		0.08 - 0.50	1.00
Nitrate + nitrite as nitrogen	mg/L	5.97	5.48	3.62	5.83	7.79		8	SM 4500 NO3 F		0.097 - 0.108	0.230
Nitrate as nitrogen	mg/L	5.82	5.34	3.38	5.69	7.69			Calculated			
Nitrite as nitrogen	mg/L	0.149	0.137	ND	0.144	0.676		1.0	SM 4500 NO3 F	0.001	0.012	0.030
Nitrobenzene	ug/L			ND	ND	ND			EPA 625.1	1	0.31	1.0
OctaCDD	pg/L	ND	ND	ND	ND	ND			EPA 1613B		0.097 - 1.5	94 - 100
OctaCDF	pg/L	ND	ND	ND	ND	DNQ Est. Conc. 4.7			EPA 1613B		0.16 - 1.3	94 - 100
Oil and grease	mg/L	DNQ Est. Conc. 2.5		ND	ND	DNQ Est. Conc. 2.5	15	10	EPA 1664A		1.0 - 2.1	5.3 - 6.0
Organic nitrogen	mg/L	0.605	0.695	ND	1.2	6.75			Calculated			
Orthophosphate-P	mg/L	0.217	0.230	0.174	0.669	2.98			SM4500-P G		0.010	0.030
PCB-037	pg/L			DNQ Est. Conc. 3.6	ND	DNQ Est. Conc. 3.6			EPA 1668C		1.3	20
PCB-052	pg/L			DNQ Est. Conc. 28 (7)	ND	DNQ Est. Conc. 28 (7)			EPA 1668C		0.85	100
PCB-066	pg/L			ND	ND	ND			EPA 1668C		0.55	40
PCB-070 and 074 (Co: 61,70,74,76)	pg/L			ND	ND	ND			EPA 1668C		0.57	160
PCB-077	pg/L			ND	ND	ND			EPA 1668C		0.73	20
PCB-081	pg/L			ND	ND	ND			EPA 1668C		0.73	20
PCB-087 and 119 (Co: 86,87,97,108,119,125)	pg/L			ND	ND	ND			EPA 1668C		0.57	120
PCB-099	pg/L			DNQ Est. Conc. 4.9	ND	DNQ Est. Conc. 4.9			EPA 1668C		0.50	40
PCB-101 (Co: 90/101/113)	pg/L			DNQ Est. Conc. 14 (7)	ND	DNQ Est. Conc. 14 (7)			EPA 1668C		0.62	120
PCB-105	pg/L			ND	ND	ND			EPA 1668C		0.54	40
PCB-110 (Co: 110,115)	pg/L			ND	ND	ND			EPA 1668C		0.49	40
PCB-114	pg/L			ND	ND	ND			EPA 1668C		0.60	40
PCB-118	pg/L			ND	ND	ND			EPA 1668C		0.50	40
PCB-123	pg/L			ND	ND	ND			EPA 1668C		0.59	40
PCB-126	pg/L			ND	ND	ND			EPA 1668C		0.76	20
PCB-128 (Co: 128,166)	pg/L			DNQ Est. Conc. 0.56 (2)	ND	DNQ Est. Conc. 0.56 (2)			EPA 1668C		0.37	81
PCB-138 (Co: 129,138,163)	pg/L			ND	ND	ND			EPA 1668C		0.39	61
PCB-149 (Co: 147,149)	pg/L			ND	ND	ND			EPA 1668C		0.38	40
PCB-151 (Co: 135,151)	pg/L			DNQ Est. Conc. 2.4 (2)	ND	DNQ Est. Conc. 2.4 (2)			EPA 1668C		0.39	40
PCB-153/168	pg/L			ND	ND	ND			EPA 1668C		0.31	40
PCB-156/157	pg/L			ND	ND	ND			EPA 1668C		0.40	40
PCB-158	pg/L			ND	ND	ND			EPA 1668C		0.28	20
PCB-167	pg/L			ND	ND	ND			EPA 1668C		0.28	40
PCB-169	pg/L			ND	ND	ND			EPA 1668C		0.47	20
PCB-170	pg/L			DNQ Est. Conc. 0.57 (2)	ND	DNQ Est. Conc. 0.57 (2)			EPA 1668C		0.48	40
PCB-177	pg/L			ND	ND	ND			EPA 1668C		0.40	20
PCB-18/30	pg/L			DNQ Est. Conc. 17 (7)	ND	DNQ Est. Conc. 17 (7)			EPA 1668C		0.76	40
PCB-180/193	pg/L			DNQ Est. Conc. 2.8	ND	DNQ Est. Conc. 2.8			EPA 1668C		0.35	40

Table 4.8
San Jose Creek West Water Reclamation Plant
2022 EFF-003 Monitoring Results

Parameter	Units	January 2022 (1)	February 2022 (1)	March 2022 (1)	April 2022 (1)	May 2022 (1)	June 2022 (1)	July 2022 (1)	August 2022 (1)	September 2022 (1)	October 2022 (1)
PCB-183	pg/L								ND		
PCB-187	pg/L								ND		
PCB-189	pg/L								ND		
PCB-194	pg/L								ND		
PCB-20/28	pg/L								DNQ Est. Conc. 20 (7)		
PCB-201	pg/L								ND		
PCB-206	pg/L								ND		
PCB-44/47/65	pg/L								ND		
PCB-49/69	pg/L								DNQ Est. Conc. 8.3 (7)		
PCBs, Sum as Aroclors	pg/L		ND		ND		ND		ND		ND
PCBs, Sum as Congeners	pg/L								ND		
Pentachlorophenol	ug/L		ND		ND		ND		ND		ND
Perchlorate	ug/L	0.11	0.41	0.32	0.30	0.35	DNQ Est. Conc. 0.42	1.5	0.82	0.90	0.62
pH	SU										
Phenanthrene	ug/L		ND		ND		ND		ND		ND
Phenol	ug/L		ND		ND		DNQ Est. Conc. 0.37		ND		DNQ Est. Conc. 0.76
Pyrene	ug/L		ND						ND		
Radium-226 + Radium-228	pCi/L		0.161				0.326		0.157		
Selenium	ug/L	DNQ Est. Conc. 0.35	DNQ Est. Conc. 0.35	DNQ Est. Conc. 0.42	DNQ Est. Conc. 0.40	DNQ Est. Conc. 0.26	DNQ Est. Conc. 0.24	DNQ Est. Conc. 0.36	DNQ Est. Conc. 0.34	DNQ Est. Conc. 0.23	DNQ Est. Conc. 0.27
Settleable solids	mL/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ug/L		ND				ND		ND		
Strontium-90	pCi/L		0.199				0.000		1.22		
Sulfate	mg/L	104	104	111	109	104	108	106	141	93.0	108
Surfactant (CTAS)	mg/L		ND			ND			ND		
Surfactant (MBAS)	mg/L		DNQ Est. Conc. 0.08		DNQ Est. Conc. 0.06		DNQ Est. Conc. 0.03		DNQ Est. Conc. 0.04		DNQ Est. Conc. 0.04
Technical Chlordane	ug/L		ND			ND	ND		ND		
Temperature	Degrees F										
Tetrachloroethene	ug/L		ND		ND		ND		ND		ND
Thallium	ug/L		ND				ND		ND		
Toluene	ug/L		ND		ND		DNQ Est. Conc. 0.16		DNQ Est. Conc. 0.06		DNQ Est. Conc. 0.08
Total BOD 20C	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total chlorinated hydrocarbons	ug/L		ND			ND			0.02		
Total coliform	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total cyanide	ug/L	ND	ND	ND	DNQ Est. Conc. 3.06	DNQ Est. Conc. 2.07	ND	ND	DNQ Est. Conc. 3.72	ND	ND
Total dissolved solids	mg/L	600	636	638	606	592	618	610	723	517	620
Total hardness (CaCO3)	mg/L	215	236	242	225	227	223	226	226	185	220
Total Kjeldahl Nitrogen (TKN)	mg/L	3.00	2.28	2.27	2.60	2.68	1.18	9.75	2.02	1.40	8.05
Total nitrogen	mg/L	6.62	9.18	7.99	8.59	8.86	6.80	15.3	11.0	7.86	12.8
Total phosphorus	mg/L	0.600	0.208	0.473	0.316	0.382	0.295	1.78	2.85	0.362	0.482
Total residual chlorine	mg/L										
Total suspended solids	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total trihalomethanes	ug/L	28.0	32.5	15.3	60.1	20.7	16.7	13.4	15	34.8	20.8
Toxaphene	ug/L		ND		ND	ND	ND		ND		ND
Toxic equivalence	pg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	ug/L		ND		ND		ND		ND		ND
Trichloroethene	ug/L		ND		ND		DNQ Est. Conc. 0.12		ND		ND
Tritium	pCi/L		-9.01				85.6		-51.4		
Turbidity (flow proportioned avg daily value)	NTU	0.68	0.79	0.70	0.60	0.60	0.55	0.50	DNQ Est. Conc. 0.40	DNQ Est. Conc. 0.40	DNQ Est. Conc. 0.45
Uranium	pCi/L		1.15				1.64		1.89		
Vinyl chloride	ug/L		ND		ND		ND		ND		ND
Zinc	ug/L		62.1				47.4		51.1		

Table 4.8
San Jose Creek West Water Reclamation Plant
2022 EFF-003 Monitoring Results

Parameter	Units	November 2022 (1)	December 2022 (1)	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
PCB-183	pg/L			ND	ND	ND			EPA 1668C		0.36	20
PCB-187	pg/L			ND	ND	ND			EPA 1668C		0.36	20
PCB-189	pg/L			ND	ND	ND			EPA 1668C		0.55	20
PCB-194	pg/L			ND	ND	ND			EPA 1668C		0.32	40
PCB-20/28	pg/L			DNQ Est. Conc. 20 (7)	ND	DNQ Est. Conc. 20 (7)			EPA 1668C		1.3	81
PCB-201	pg/L			ND	ND	ND			EPA 1668C		0.22	20
PCB-206	pg/L			ND	ND	ND			EPA 1668C		0.63	40
PCB-44/47/65	pg/L			ND	ND	ND			EPA 1668C		0.84	120
PCB-49/69	pg/L			DNQ Est. Conc. 8.3 (7)	ND	DNQ Est. Conc. 8.3 (7)			EPA 1668C		0.75	40
PCBs, Sum as Aroclors	pg/L		ND	ND	ND	ND			Calculated			
PCBs, Sum as Congeners	pg/L			ND	ND	ND			Calculated			
Pentachlorophenol	ug/L		ND	ND	ND	ND			EPA 625.1	5	0.82	1.0
Perchlorate	ug/L	0.39	0.27	DNQ Est. Conc. 0.42	0.50	1.5			EPA 331.0		0.0201 - 0.086	0.05 - 0.50
pH	SU						6.5 - 8.5		SM 4500 H+ B			
Phenanthrene	ug/L		ND	ND	ND	ND			EPA 625.1	5	0.59	1.0
Phenol	ug/L		DNQ Est. Conc. 0.29	ND	ND	DNQ Est. Conc. 0.76			EPA 625.1	1	0.24	1.0
Pyrene	ug/L			ND	ND	ND			EPA 625.1	10	0.60	1.0
Radium-226 + Radium-228	pCi/L		0.998	0.157	0.411	0.998		5	Calculated			
Selenium	ug/L	DNQ Est. Conc. 0.29	DNQ Est. Conc. 0.33	DNQ Est. Conc. 0.23	ND	DNQ Est. Conc. 0.42			EPA 200.8	2	0.04	1.00
Settleable solids	mL/L	ND	ND	ND	ND	ND	0.3	0.1	SM 2540F			0.1
Silver	ug/L		ND	ND	ND	ND			EPA 200.8	0.25	0.02	0.20
Strontium-90	pCi/L		-0.272	-0.272	0.355	1.22		8	EPA 905.0		0.27 - 1.5	3.00
Sulfate	mg/L	110	104	93.0	109	141		300	EPA 300.0		0.040 - 0.161	2.50 - 5.00
Surfactant (CTAS)	mg/L	ND		ND	ND	ND			SM 5540D		0.08	0.10
Surfactant (MBAS)	mg/L	0.082	ND	ND	0.012	0.082		0.5	SM 5540C		0.023 - 0.03	0.050 - 0.10
Technical Chlordane	ug/L	ND	ND	ND	ND	ND			EPA 608.3	0.1	0.02	0.05
Temperature	Degrees F						(8)		EPA 170.1 (oF)			
Tetrachloroethene	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.16 - 0.18	0.50
Thallium	ug/L		ND	ND	ND	ND			EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L		DNQ Est. Conc. 0.26	ND	ND	DNQ Est. Conc. 0.26			EPA 624.1	2	0.04 - 0.15	0.50
Total BOD 20C	mg/L	ND	ND	ND	ND	ND	45	20	SM 5210B			3
Total chlorinated hydrocarbons	ug/L	ND		ND	0.005	0.02			Calculated			
Total coliform	No./100mL	ND	ND	ND	ND	ND	(9)	(9)	SM 9222B			1
Total cyanide	ug/L	ND	ND	ND	ND	DNQ Est. Conc. 3.72			SM 4500 CN E	5	2.00	5.00
Total dissolved solids	mg/L	627	585	517	614	723		750	SM 2540C			45.5 - 83.3
Total hardness (CaCO3)	mg/L	252	213	185	224	252			Calculated			
Total Kjeldahl Nitrogen (TKN)	mg/L	2.18	2.44	1.18	3.32	9.75			EPA 351.2		0.120	0.500 - 1.00
Total nitrogen	mg/L	8.14	7.92	6.62	9.26	15.3			Total Nitrogen Calculation			
Total phosphorus	mg/L	0.567	0.277	0.208	0.716	2.85			SM4500-P H		0.015	0.030 - 0.060
Total residual chlorine	mg/L						0.1		SM 4500 Cl G		0.02 - 0.030	0.10 - 0.50
Total suspended solids	mg/L	ND	ND	ND	ND	ND	45	15	SM 2540D			2.5
Total trihalomethanes	ug/L	11.0	22.2	11.0	24	60.1		80	Calculated			
Toxaphene	ug/L	ND	ND	ND	ND	ND			EPA 608.3	0.5	0.05	0.5
Toxic equivalence	pg/L	ND	ND	ND	ND	ND			Calculated			
trans-1,2-Dichloroethene	ug/L		ND	ND	ND	ND			EPA 624.1	1	0.06 - 0.20	0.50
Trichloroethene	ug/L		ND	ND	ND	DNQ Est. Conc. 0.12			EPA 624.1	2	0.12 - 0.15	0.50
Tritium	pCi/L		56.8	-51.4	35.6	85.6		20,000	EPA 906.0		322 - 356	500
Turbidity (flow proportioned avg daily value)	NTU	0.50	0.60	DNQ Est. Conc. 0.40	0.46	0.79	2		SM 2130B		0.060 - 0.13	0.50
Uranium	pCi/L		1.82	1.15	1.63	1.89		20	EPA 908.0		0.101 - 0.194	1.00
Vinyl chloride	ug/L		ND	ND	ND	ND			EPA 624.1	2	0.25 - 0.37	0.50
Zinc	ug/L		41.5	41.5	50.5	62.1			EPA 200.8	1	0.92 - 0.95	1.00

(1) No discharge at EFF-003 during this month.

(2) Possible interference observed. The measured ion ratio did not meet qualitative criteria for analysis and results are considered to be an estimated maximum possible concentration.

(3) Effluent ammonia limit effective from April 1 to September 30.

(4) Effluent ammonia limit effective from October 1 to March 31.

(5) The gross beta radiation limit is 4 millirem/year with a screening level of 50 pCi/L.

(6) Wet weather limit.

(7) Blank contamination observed.

(8) The interim effluent temperature limit is 86°F except as a result of external ambient temperature.

(9) The number of total coliform bacteria shall not exceed 2.2/100mL as a 7-day median, 23/100mL in more than one sample within any 30-day period, and 240/100mL in any sample.

Saugus WRP Influent Monitoring

Table 4.3
Saugus Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
1,1,1-Trichloroethane	ug/L	ND						ND			
1,1,2,2-Tetrachloroethane	ug/L	ND						ND			
1,1,2-Trichloroethane	ug/L	ND						ND			
1,1-Dichloroethane	ug/L	ND						ND			
1,1-Dichloroethene	ug/L	ND						ND			
1,2,3,4,6,7,8-HeptaCDD	pg/L							DNQ Est. Conc. 37 (1)			ND
1,2,3,4,6,7,8-HeptaCDF	pg/L							ND			ND
1,2,3,4,7,8,9-HeptaCDF	pg/L							ND			ND
1,2,3,4,7,8-HexaCDD	pg/L							ND			ND
1,2,3,4,7,8-HexaCDF	pg/L							ND			DNQ Est. Conc. 0.89
1,2,3,6,7,8-HexaCDD	pg/L							ND			ND
1,2,3,6,7,8-HexaCDF	pg/L							ND			DNQ Est. Conc. 1.0
1,2,3,7,8,9-HexaCDD	pg/L							ND			ND
1,2,3,7,8,9-HexaCDF	pg/L							ND			ND
1,2,3,7,8-PentaCDD	pg/L							ND			ND
1,2,3,7,8-PentaCDF	pg/L							ND			ND
1,2,4-Trichlorobenzene	ug/L	ND						ND			
1,2-Dichlorobenzene	ug/L	ND						ND			
1,2-Dichloroethane	ug/L	ND						ND			
1,2-Dichloropropane	ug/L	ND						ND			
1,2-Diphenylhydrazine	ug/L	ND						ND			
1,3-Dichlorobenzene	ug/L	ND						ND			
1,3-Dichloropropene (Total)	ug/L	ND						ND			
1,4-Dichlorobenzene	ug/L	ND						0.68			
2,3,4,6,7,8-HexaCDF	pg/L							ND			ND
2,3,4,7,8-PentaCDF	pg/L							ND			ND
2,3,7,8-TCDD	pg/L	ND						ND			ND
2,3,7,8-TetraCDF	pg/L							ND			ND
2,4,6-Trichlorophenol	ug/L	ND						ND			
2,4-Dichlorophenol	ug/L	ND						ND			
2,4-Dimethylphenol	ug/L	ND						ND			
2,4-Dinitrophenol	ug/L	ND						ND			
2,4-Dinitrotoluene	ug/L	ND						ND			
2,6-Dinitrotoluene	ug/L	ND						ND			
2-Chloroethyl vinyl ether (mixed)	ug/L	ND						ND			
2-Chloronaphthalene	ug/L	ND						ND			
2-Chlorophenol	ug/L	ND						ND			
2-Methyl-4,6-dinitrophenol	ug/L	ND						ND			
2-Nitrophenol	ug/L	ND						ND			
3,3'-Dichlorobenzidine	ug/L	ND						ND			
3-Methyl-4-chlorophenol	ug/L	ND						ND			
4,4'-DDD	ug/L	ND						ND			
4,4'-DDE	ug/L	ND						ND			
4,4-DDT	ug/L	ND						ND			
4-Bromophenyl phenyl ether	ug/L	ND						ND			
4-Chlorophenyl phenyl ether	ug/L	ND						ND			
4-Nitrophenol	ug/L	ND						ND			
Acenaphthene	ug/L	ND						ND			
Acenaphthylene	ug/L	ND						ND			
Acrolein	ug/L	ND						ND			
Acrylonitrile	ug/L	ND						ND			
Aldrin	ug/L	ND						ND			
alpha-BHC	ug/L	ND						ND			
Anthracene	ug/L	ND						ND			
Antimony	ug/L	0.92						0.81			
Aroclor 1016	ug/L	ND						ND			
Aroclor 1221	ug/L	ND						ND			
Aroclor 1232	ug/L	ND						ND			
Aroclor 1242	ug/L	ND						ND			

Table 4.3
Saugus Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
1,1,1-Trichloroethane	ug/L			ND	ND	ND	EPA 624.1	2	0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L			ND	ND	ND	EPA 624.1	1	0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L			ND	ND	ND	EPA 624.1	1	0.08 - 0.19	0.50
1,1-Dichloroethene	ug/L			ND	ND	ND	EPA 624.1	2	0.21	0.50
1,2,3,4,6,7,8-HeptaCDD	pg/L			ND	ND	DNQ Est. Conc. 37 (1)	EPA 1613B		0.22 - 0.96	50
1,2,3,4,6,7,8-HeptaCDF	pg/L			ND	ND	ND	EPA 1613B		1.5 - 2.5	50
1,2,3,4,7,8,9-HeptaCDF	pg/L			ND	ND	ND	EPA 1613B		1.8 - 2.6	50
1,2,3,4,7,8-HexaCDD	pg/L			ND	ND	ND	EPA 1613B		0.24 - 0.37	50
1,2,3,4,7,8-HexaCDF	pg/L			ND	ND	DNQ Est. Conc. 0.89	EPA 1613B		0.15 - 0.41	50
1,2,3,6,7,8-HexaCDD	pg/L			ND	ND	ND	EPA 1613B		0.27 - 0.43	50
1,2,3,6,7,8-HexaCDF	pg/L			ND	ND	DNQ Est. Conc. 1.0	EPA 1613B		0.15 - 0.39	50
1,2,3,7,8,9-HexaCDD	pg/L			ND	ND	ND	EPA 1613B		0.23 - 0.38	50
1,2,3,7,8,9-HexaCDF	pg/L			ND	ND	ND	EPA 1613B		0.19 - 0.41	50
1,2,3,7,8-PentaCDD	pg/L			ND	ND	ND	EPA 1613B		1.0 - 2.1	50
1,2,3,7,8-PentaCDF	pg/L			ND	ND	ND	EPA 1613B		0.26 - 0.62	50
1,2,4-Trichlorobenzene	ug/L			ND	ND	ND	EPA 625.1	5	0.51	20.0
1,2-Dichlorobenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L			ND	ND	ND	EPA 624.1	1	0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L			ND	ND	ND	EPA 625.1	1	0.63	20.0
1,3-Dichlorobenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L			ND	ND	ND	Calculated			
1,4-Dichlorobenzene	ug/L			ND	0.34	0.68	EPA 624.1	2	0.16 - 0.25	0.50
2,3,4,6,7,8-HexaCDF	pg/L			ND	ND	ND	EPA 1613B		0.16 - 0.37	50
2,3,4,7,8-PentaCDF	pg/L			ND	ND	ND	EPA 1613B		0.30 - 0.66	50
2,3,7,8-TCDD	pg/L			ND	ND	ND	EPA 1613B		0.33 - 0.97	10
2,3,7,8-TetraCDF	pg/L			ND	ND	ND	EPA 1613B		0.20 - 0.65	10
2,4,6-Trichlorophenol	ug/L			ND	ND	ND	EPA 625.1	10	0.64	20.0
2,4-Dichlorophenol	ug/L			ND	ND	ND	EPA 625.1	5	0.60	20.0
2,4-Dimethylphenol	ug/L			ND	ND	ND	EPA 625.1	2	0.44	20.0
2,4-Dinitrophenol	ug/L			ND	ND	ND	EPA 625.1	5	1.5	100
2,4-Dinitrotoluene	ug/L			ND	ND	ND	EPA 625.1	5	0.37	20.0
2,6-Dinitrotoluene	ug/L			ND	ND	ND	EPA 625.1	5	0.50	20.0
2-Chloroethyl vinyl ether (mixed)	ug/L			ND	ND	ND	EPA 624.1	1	0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L			ND	ND	ND	EPA 625.1	10	0.41	20.0
2-Chlorophenol	ug/L			ND	ND	ND	EPA 625.1	5	0.41	20.0
2-Methyl-4,6-dinitrophenol	ug/L			ND	ND	ND	EPA 625.1	5	1.3	100
2-Nitrophenol	ug/L			ND	ND	ND	EPA 625.1	10	0.31	20.0
3,3'-Dichlorobenzidine	ug/L			ND	ND	ND	EPA 625.1	5	0.54	20.0
3-Methyl-4-chlorophenol	ug/L			ND	ND	ND	EPA 625.1	1	0.69	20.0
4,4'-DDD	ug/L			ND	ND	ND	EPA 608.3	0.05	0.003	0.10
4,4'-DDE	ug/L			ND	ND	ND	EPA 608.3	0.05	0.002	0.10
4,4-DDT	ug/L			ND	ND	ND	EPA 608.3	0.01	0.004	0.10
4-Bromophenyl phenyl ether	ug/L			ND	ND	ND	EPA 625.1	5	0.58	20.0
4-Chlorophenyl phenyl ether	ug/L			ND	ND	ND	EPA 625.1	5	0.63	20.0
4-Nitrophenol	ug/L			ND	ND	ND	EPA 625.1	10	1.6	100
Acenaphthene	ug/L			ND	ND	ND	EPA 625.1	1	0.50	20.0
Acenaphthylene	ug/L			ND	ND	ND	EPA 625.1	10	0.50	20.0
Acrolein	ug/L			ND	ND	ND	EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L			ND	ND	ND	EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L			ND	ND	ND	EPA 608.3	0.005	0.002	0.05
alpha-BHC	ug/L			ND	ND	ND	EPA 608.3	0.01	0.003	0.10
Anthracene	ug/L			ND	ND	ND	EPA 625.1	10	0.56	20.0
Antimony	ug/L			0.81	0.86	0.92	EPA 200.8	0.5	0.12	0.50
Aroclor 1016	ug/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1221	ug/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1232	ug/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1242	ug/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0

Table 4.3
Saugus Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Aroclor 1248	ug/L	ND						ND			
Aroclor 1254	ug/L	ND						ND			
Aroclor 1260	ug/L	ND						ND			
Arsenic	ug/L	1.72						1.66			
Benzene	ug/L	ND						ND			
Benzidine	ug/L	ND						ND			
Benzo(a)anthracene	ug/L	ND	ND	ND	ND	ND	ND	ND			
Benzo(a)pyrene	ug/L	ND						ND			
Benzo(b)fluoranthene	ug/L	ND						ND			
Benzo(g,h,i)perylene	ug/L	ND						ND			
Benzo(k)fluoranthene	ug/L	ND						ND			
Beryllium	ug/L	ND						ND			
beta-BHC	ug/L	ND						ND			
bis(2-Chloroethoxy) methane	ug/L	ND						ND			
bis(2-Chloroethyl) ether	ug/L	ND						ND			
bis(2-Chloroisopropyl) ether	ug/L	ND						ND			
bis(2-Ethylhexyl) phthalate	ug/L	ND						ND			
BOD	mg/L	294	294	324	406	322	318	333	355	336	270
Bromodichloromethane	ug/L	DNQ Est. Conc. 0.42	DNQ Est. Conc. 0.47	0.66	DNQ Est. Conc. 0.25	ND	DNQ Est. Conc. 0.36	ND	DNQ Est. Conc. 0.17	0.59	DNQ Est. Conc. 0.40
Bromoform	ug/L	1.5	2.4	2.6	ND	2.2	ND	ND	1.2	1.9	1.1
Butyl benzyl phthalate	ug/L	ND						ND			
Cadmium	ug/L	DNQ Est. Conc. 0.15						DNQ Est. Conc. 0.14			
Carbon tetrachloride	ug/L	ND						ND			
Chlordane	ug/L	ND						ND			
Chloride	mg/L	114	109	110	111	113	112	110	133	96.5	99.4
Chlorobenzene	ug/L	ND						ND			
Chlorodibromomethane	ug/L	1.2	1.6	2.1	0.83	0.89	1.0	ND	0.54	1.7	0.84
Chloroethane	ug/L	ND						ND			
Chloroform	ug/L	1.3	2.4	1.4	0.75	1.3	1.5	1.1	ND	1.1	0.99
Chromium III	ug/L	2.68						2.70			
Chromium VI	ug/L	DNQ Est. Conc. 0.03						0.07			
Chromium, total	ug/L	2.68						2.77			
Chrysene	ug/L	ND						ND			
Copper	ug/L	115	96.2	89.4	100.0	170	97.9	91.2			
delta-BHC	ug/L	ND						ND			
Di-n-butyl phthalate	ug/L	ND						ND			
Di-n-octyl phthalate	ug/L	ND						ND			
Dibenzo(a,h)anthracene	ug/L	ND						ND			
Dieldrin	ug/L	ND						ND			
Diethyl phthalate	ug/L	DNQ Est. Conc. 11.5						DNQ Est. Conc. 9.1			
Dimethyl phthalate	ug/L	ND						ND			
Endosulfan I	ug/L	ND						ND			
Endosulfan II	ug/L	ND						ND			
Endosulfan sulfate	ug/L	ND						ND			
Endrin	ug/L	ND						ND			
Endrin aldehyde	ug/L	ND						ND			
Ethylbenzene	ug/L	ND						0.72			
Fluoranthene	ug/L	ND						ND			
Fluorene	ug/L	ND						ND			
gamma-BHC (Lindane)	ug/L	ND						ND			
Heptachlor	ug/L	ND						ND			
Heptachlor epoxide	ug/L	ND						ND			
Hexachlorobenzene	ug/L	ND						ND			
Hexachlorobutadiene	ug/L	ND						ND			
Hexachlorocyclopentadiene	ug/L	ND						ND			
Hexachloroethane	ug/L	ND						ND			
Indeno (1,2,3-cd) pyrene	ug/L	ND						ND			
Iron	ug/L							405	484	647	299
Isophorone	ug/L	ND						ND			

Table 4.3
Saugus Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
Aroclor 1248	ug/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1254	ug/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1260	ug/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Arsenic	ug/L			1.66	1.69	1.72	EPA 200.8	2	0.05 - 0.07	1.00
Benzene	ug/L			ND	ND	ND	EPA 624.1	2	0.06 - 0.09	0.50
Benzidine	ug/L			ND	ND	ND	EPA 625.1	5	0.77	100
Benzo(a)anthracene	ug/L			ND	ND	ND	EPA 625.1	5	0.46	20.0
Benzo(a)pyrene	ug/L			ND	ND	ND	EPA 625.1	10	0.54	20.0
Benzo(b)fluoranthene	ug/L			ND	ND	ND	EPA 625.1	10	0.61	20.0
Benzo(g,h,i)perylene	ug/L			ND	ND	ND	EPA 625.1	5	0.52	20.0
Benzo(k)fluoranthene	ug/L			ND	ND	ND	EPA 625.1	10	0.53	20.0
Beryllium	ug/L			ND	ND	ND	EPA 200.8	0.5	0.023 - 0.026	0.25
beta-BHC	ug/L			ND	ND	ND	EPA 608.3	0.005	0.003	0.05
bis(2-Chloroethoxy) methane	ug/L			ND	ND	ND	EPA 625.1	5	0.28	20.0
bis(2-Chloroethyl) ether	ug/L			ND	ND	ND	EPA 625.1	1	0.27	20.0
bis(2-Chloroisopropyl) ether	ug/L			ND	ND	ND	EPA 625.1	2	0.25	20.0
bis(2-Ethylhexyl) phthalate	ug/L			ND	ND	ND	EPA 625.1	5	0.55	20.0
BOD	mg/L	279	260	260	316	406	SM 5210B			120 - 150
Bromodichloromethane	ug/L	DNQ Est. Conc. 0.34	DNQ Est. Conc. 0.44	ND	0.10	0.66	EPA 624.1	2	0.11 - 0.15	0.50
Bromoform	ug/L	1.2	1.4	ND	1.3	2.6	EPA 624.1	2	0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L			ND	ND	ND	EPA 625.1	10	0.58	20.0
Cadmium	ug/L			DNQ Est. Conc. 0.14	ND	DNQ Est. Conc. 0.15	EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L			ND	ND	ND	EPA 624.1	2	0.18 - 0.34	0.50
Chlordane	ug/L			ND	ND	ND	EPA 608.3		0.02	0.50
Chloride	mg/L	105	111	96.5	110	133	EPA 300.0		0.024 - 0.144	10.0 - 20.0
Chlorobenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.07 - 0.10	0.50
Chlorodibromomethane	ug/L	0.70	0.80	ND	1.1	2.1	EPA 624.1	2	0.11 - 0.13	0.50
Chloroethane	ug/L			ND	ND	ND	EPA 624.1	2	0.22 - 0.31	0.50
Chloroform	ug/L	0.83	1.3	ND	1.2	2.4	EPA 624.1	2	0.08 - 0.35	0.50
Chromium III	ug/L			2.68	2.69	2.70	Calculated			
Chromium VI	ug/L			DNQ Est. Conc. 0.03	0.04	0.07	EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total	ug/L			2.68	2.72	2.77	EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L			ND	ND	ND	EPA 625.1	10	0.41	20.0
Copper	ug/L			89.4	108	170	EPA 200.8	0.5	0.12 - 0.14	0.50
delta-BHC	ug/L			ND	ND	ND	EPA 608.3	0.005	0.003	0.05
Di-n-butyl phthalate	ug/L			ND	ND	ND	EPA 625.1	10	0.59	20.0
Di-n-octyl phthalate	ug/L			ND	ND	ND	EPA 625.1	10	0.69	20.0
Dibenzo(a,h)anthracene	ug/L			ND	ND	ND	EPA 625.1	10	0.58	20.0
Dieldrin	ug/L			ND	ND	ND	EPA 608.3	0.01	0.003	0.10
Diethyl phthalate	ug/L			DNQ Est. Conc. 9.1	ND	DNQ Est. Conc. 11.5	EPA 625.1	2	0.42	20.0
Dimethyl phthalate	ug/L			ND	ND	ND	EPA 625.1	2	0.41	20.0
Endosulfan I	ug/L			ND	ND	ND	EPA 608.3	0.02	0.003	0.10
Endosulfan II	ug/L			ND	ND	ND	EPA 608.3	0.01	0.004	0.10
Endosulfan sulfate	ug/L			ND	ND	ND	EPA 608.3	0.05	0.004	0.10
Endrin	ug/L			ND	ND	ND	EPA 608.3	0.01	0.004	0.10
Endrin aldehyde	ug/L			ND	ND	ND	EPA 608.3	0.01	0.003	0.10
Ethylbenzene	ug/L			ND	0.36	0.72	EPA 624.1	2	0.11 - 0.15	0.50
Fluoranthene	ug/L			ND	ND	ND	EPA 625.1	1	0.69	20.0
Fluorene	ug/L			ND	ND	ND	EPA 625.1	10	0.58	20.0
gamma-BHC (Lindane)	ug/L			ND	ND	ND	EPA 608.3	0.02	0.003	0.10
Heptachlor	ug/L			ND	ND	ND	EPA 608.3	0.01	0.002	0.10
Heptachlor epoxide	ug/L			ND	ND	ND	EPA 608.3	0.01	0.003	0.10
Hexachlorobenzene	ug/L			ND	ND	ND	EPA 625.1	1	0.47	20.0
Hexachlorobutadiene	ug/L			ND	ND	ND	EPA 625.1	1	0.96	20.0
Hexachlorocyclopentadiene	ug/L			ND	ND	ND	EPA 625.1	5	2.0	100
Hexachloroethane	ug/L			ND	ND	ND	EPA 625.1	1	0.81	20.0
Indeno (1,2,3-cd) pyrene	ug/L			ND	ND	ND	EPA 625.1	10	0.53	20.0
Iron	ug/L	140	159	140	356	647	EPA 200.8		5.7	20.0
Isophorone	ug/L			ND	ND	ND	EPA 625.1	1	0.28	20.0

Table 4.3
Saugus Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Lead	ug/L	1.22	0.75	0.53	0.75	6.49	0.94	0.72	2.40	1.33	0.87
Mercury	ug/L	DNQ Est. Conc. 0.025	DNQ Est. Conc. 0.037	ND	DNQ Est. Conc. 0.035	0.18	DNQ Est. Conc. 0.030	DNQ Est. Conc. 0.029			
Methyl bromide (Bromomethane)	ug/L	ND						ND			
Methyl chloride (Chloromethane)	ug/L	ND						ND			
Methylene chloride	ug/L	ND						ND			
n-Nitrosodi-n-propylamine	ug/L	ND						ND			
n-Nitrosodimethylamine (NDMA)	ug/L	ND						ND			
n-Nitrosodiphenylamine	ug/L	ND						ND			
Naphthalene	ug/L	ND						ND			
Nickel	ug/L	2.93	2.64	2.30	2.63	5.05	2.86	2.70			
Nitrobenzene	ug/L	ND						ND			
OctaCDD	pg/L							260 (1)			ND
OctaCDF	pg/L							ND			ND
PCB-101 (Co: 90/101/113)	pg/L							DNQ Est. Conc. 220			
PCB-105	pg/L							56			
PCB-114	pg/L							ND			
PCB-118	pg/L							140			
PCB-123	pg/L							ND			
PCB-126	pg/L							ND			
PCB-138 (Co: 129/138/163)	pg/L							DNQ Est. Conc. 200 (1)			
PCB-158	pg/L							DNQ Est. Conc. 17			
PCB-167	pg/L							DNQ Est. Conc. 8.1			
PCB-169	pg/L							ND			
PCB-170	pg/L							DNQ Est. Conc. 48			
PCB-177	pg/L							DNQ Est. Conc. 24			
PCB-183	pg/L							DNQ Est. Conc. 30 (1)			
PCB-187	pg/L							DNQ Est. Conc. 51			
PCB-189	pg/L							DNQ Est. Conc. 4.9			
PCB-194	pg/L							DNQ Est. Conc. 24			
PCB-201	pg/L							DNQ Est. Conc. 4.5 (2)			
PCB-206	pg/L							DNQ Est. Conc. 17 (2)			
PCB-37	pg/L							DNQ Est. Conc. 50			
PCB-52	pg/L							210 (1)			
PCB-61/70/74/76	pg/L							DNQ Est. Conc. 230 (1)			
PCB-66	pg/L							DNQ Est. Conc. 92			
PCB-77	pg/L							DNQ Est. Conc. 17			
PCB-81	pg/L							ND			
PCB-86/87/97/108/119/125	pg/L							DNQ Est. Conc. 140			
PCB-99	pg/L							DNQ Est. Conc. 74			
PCB110/115	pg/L							DNQ Est. Conc. 190			
PCB128/166	pg/L							DNQ Est. Conc. 22			
PCB135/151	pg/L							DNQ Est. Conc. 55			
PCB147/149	pg/L							DNQ Est. Conc. 140			
PCB153/168	pg/L							DNQ Est. Conc. 170 (1)			
PCB156/157	pg/L							DNQ Est. Conc. 27 (1)(2)			
PCB18/30	pg/L							DNQ Est. Conc. 74			
PCB180/193	pg/L							DNQ Est. Conc. 120 (1)			
PCB20/28	pg/L							DNQ Est. Conc. 150 (1)			
PCB44/47/65	pg/L							DNQ Est. Conc. 280 (1)			
PCB49/69	pg/L							DNQ Est. Conc. 71			
PCBs, Sum as Aroclors	pg/L	ND						ND			
PCBs, Sum as Congeners	pg/L							406 (1)			
Pentachlorophenol	ug/L	ND						ND			
pH	SU	8.2	8.2	8.3	8.2	8.2	8.0	8.0	8.0	8.0	8.0
Phenanthrene	ug/L	ND						ND			
Phenol	ug/L	21.1						32.3			
Pyrene	ug/L	ND						ND			
Selenium	ug/L	1.20						1.01			
Silver	ug/L	0.34						0.34			

Table 4.3
Saugus Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
Lead	ug/L	0.38	0.40	0.38	1.4	6.49	EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L			ND	0.026	0.18	EPA 245.1	0.5	0.019	0.040
Methyl bromide (Bromomethane)	ug/L			ND	ND	ND	EPA 624.1	2	0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L			ND	ND	ND	EPA 624.1	2	0.19 - 0.41	0.50
Methylene chloride	ug/L			ND	ND	ND	EPA 624.1	2	0.16 - 0.46	0.50
n-Nitrosodi-n-propylamine	ug/L			ND	ND	ND	EPA 625.1	5	0.36	20.0
n-Nitrosodimethylamine (NDMA)	ug/L			ND	ND	ND	EPA 625.1	5	0.50	100
n-Nitrosodiphenylamine	ug/L			ND	ND	ND	EPA 625.1	1	0.64	20.0
Naphthalene	ug/L			ND	ND	ND	EPA 625.1	1	0.20	20.0
Nickel	ug/L			2.30	3.02	5.05	EPA 200.8	1	0.08 - 0.50	1.00
Nitrobenzene	ug/L			ND	ND	ND	EPA 625.1	1	0.31	20.0
OctaCDD	pg/L			ND	130 (1)	260 (1)	EPA 1613B		0.59 - 1.0	100
OctaCDF	pg/L			ND	ND	ND	EPA 1613B		0.58 - 0.72	100
PCB-101 (Co: 90/101/113)	pg/L			DNQ Est. Conc. 220	ND	DNQ Est. Conc. 220	EPA 1668C		4.2	610
PCB-105	pg/L			56	56	56	EPA 1668C		3.5	20
PCB-114	pg/L			ND	ND	ND	EPA 1668C		3.7	20
PCB-118	pg/L			140	140	140	EPA 1668C		3.3	20
PCB-123	pg/L			ND	ND	ND	EPA 1668C		3.6	20
PCB-126	pg/L			ND	ND	ND	EPA 1668C		4.2	20
PCB-138 (Co: 129/138/163)	pg/L			DNQ Est. Conc. 200 (1)	ND	DNQ Est. Conc. 200 (1)	EPA 1668C		2.3	610
PCB-158	pg/L			DNQ Est. Conc. 17	ND	DNQ Est. Conc. 17	EPA 1668C		1.7	200
PCB-167	pg/L			DNQ Est. Conc. 8.1	ND	DNQ Est. Conc. 8.1	EPA 1668C		5.3	20
PCB-169	pg/L			ND	ND	ND	EPA 1668C		6.8	20
PCB-170	pg/L			DNQ Est. Conc. 48	ND	DNQ Est. Conc. 48	EPA 1668C		1.4	200
PCB-177	pg/L			DNQ Est. Conc. 24	ND	DNQ Est. Conc. 24	EPA 1668C		1.2	200
PCB-183	pg/L			DNQ Est. Conc. 30 (1)	ND	DNQ Est. Conc. 30 (1)	EPA 1668C		1.0	200
PCB-187	pg/L			DNQ Est. Conc. 51	ND	DNQ Est. Conc. 51	EPA 1668C		0.82	200
PCB-189	pg/L			DNQ Est. Conc. 4.9	ND	DNQ Est. Conc. 4.9	EPA 1668C		1.3	20
PCB-194	pg/L			DNQ Est. Conc. 24	ND	DNQ Est. Conc. 24	EPA 1668C		1.1	200
PCB-201	pg/L			DNQ Est. Conc. 4.5 (2)	ND	DNQ Est. Conc. 4.5 (2)	EPA 1668C		0.62	200
PCB-206	pg/L			DNQ Est. Conc. 17 (2)	ND	DNQ Est. Conc. 17 (2)	EPA 1668C		1.1	200
PCB-37	pg/L			DNQ Est. Conc. 50	ND	DNQ Est. Conc. 50	EPA 1668C		11	200
PCB-52	pg/L			210 (1)	210 (1)	210 (1)	EPA 1668C		4.0	200
PCB-61/70/74/76	pg/L			DNQ Est. Conc. 230 (1)	ND	DNQ Est. Conc. 230 (1)	EPA 1668C		2.9	810
PCB-66	pg/L			DNQ Est. Conc. 92	ND	DNQ Est. Conc. 92	EPA 1668C		2.7	200
PCB-77	pg/L			DNQ Est. Conc. 17	ND	DNQ Est. Conc. 17	EPA 1668C		3.5	20
PCB-81	pg/L			ND	ND	ND	EPA 1668C		3.6	20
PCB-86/87/97/108/119/125	pg/L			DNQ Est. Conc. 140	ND	DNQ Est. Conc. 140	EPA 1668C		3.9	1200
PCB-99	pg/L			DNQ Est. Conc. 74	ND	DNQ Est. Conc. 74	EPA 1668C		3.7	200
PCB110/115	pg/L			DNQ Est. Conc. 190	ND	DNQ Est. Conc. 190	EPA 1668C		3.4	410
PCB128/166	pg/L			DNQ Est. Conc. 22	ND	DNQ Est. Conc. 22	EPA 1668C		2.2	410
PCB135/151	pg/L			DNQ Est. Conc. 55	ND	DNQ Est. Conc. 55	EPA 1668C		2.3	410
PCB147/149	pg/L			DNQ Est. Conc. 140	ND	DNQ Est. Conc. 140	EPA 1668C		2.3	410
PCB153/168	pg/L			DNQ Est. Conc. 170 (1)	ND	DNQ Est. Conc. 170 (1)	EPA 1668C		1.8	410
PCB156/157	pg/L			DNQ Est. Conc. 27 (1)(2)	ND	DNQ Est. Conc. 27 (1)(2)	EPA 1668C		7.2	41
PCB18/30	pg/L			DNQ Est. Conc. 74	ND	DNQ Est. Conc. 74	EPA 1668C		2.5	410
PCB180/193	pg/L			DNQ Est. Conc. 120 (1)	ND	DNQ Est. Conc. 120 (1)	EPA 1668C		1.1	410
PCB20/28	pg/L			DNQ Est. Conc. 150 (1)	ND	DNQ Est. Conc. 150 (1)	EPA 1668C		9.3	410
PCB44/47/65	pg/L			DNQ Est. Conc. 280 (1)	ND	DNQ Est. Conc. 280 (1)	EPA 1668C		4.0	610
PCB49/69	pg/L			DNQ Est. Conc. 71	ND	DNQ Est. Conc. 71	EPA 1668C		3.6	410
PCBs, Sum as Aroclors	pg/L			ND	ND	ND	Calculated			
PCBs, Sum as Congeners	pg/L			406 (1)	406 (1)	406 (1)	Calculated			
Pentachlorophenol	ug/L			ND	ND	ND	EPA 625.1	5	0.82	20.0
pH	SU	8.2	8.1	8.0	8.1	8.3	SM 4500 H+ B			
Phenanthrene	ug/L			ND	ND	ND	EPA 625.1	5	0.59	20.0
Phenol	ug/L			21.1	26.7	32.3	EPA 625.1	1	0.24	20.0
Pyrene	ug/L			ND	ND	ND	EPA 625.1	10	0.60	20.0
Selenium	ug/L			1.01	1.10	1.20	EPA 200.8	2	0.04	1.00
Silver	ug/L			0.34	0.34	0.34	EPA 200.8	0.25	0.02	0.20

Table 4.3
Saugus Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Temperature	Degrees F							79.4	82.1	83.4	80.8
Tetrachloroethene	ug/L	ND						ND			
Thallium	ug/L	ND						ND			
Toluene	ug/L	DNQ Est. Conc. 0.39						0.59			
Total cyanide	ug/L	DNQ Est. Conc. 2.33	6.02	ND	ND	ND	DNQ Est. Conc. 2.44	ND			
Total suspended solids	mg/L	417	308	551	491	319	368	314	311	312	246
Total trihalomethanes	ug/L	4.0	6.4	6.8	1.6	4.4	2.5	1.1	1.7	5.3	2.9
Toxaphene	ug/L	ND						ND			
Toxic equivalence	pg/L							0.26			ND
trans-1,2-Dichloroethene	ug/L	ND						ND			
Trichloroethene	ug/L	ND						ND			
Vinyl chloride	ug/L	ND						ND			
Zinc	ug/L	161	148	105	120	306	154	136			

Table 4.3
Saugus Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
Temperature	Degrees F	75.0	70.6	70.6	78.6	83.4	EPA 170.1 (oF)			
Tetrachloroethene	ug/L			ND	ND	ND	EPA 624.1	2	0.16 - 0.18	0.50
Thallium	ug/L			ND	ND	ND	EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L			DNQ Est. Conc. 0.39	0.30	0.59	EPA 624.1	2	0.04 - 0.15	0.50
Total cyanide	ug/L			ND	0.860	6.02	SM 4500 CN E	5	2.00	5.00
Total suspended solids	mg/L	345	326	246	359	551	SM 2540D			55.6 - 100
Total trihalomethanes	ug/L	2.7	3.5	1.1	3.6	6.8	Calculated			
Toxaphene	ug/L			ND	ND	ND	EPA 608.3	0.5	0.05	5.0
Toxic equivalence	pg/L			ND	0.13	0.26	Calculated			
trans-1,2-Dichloroethene	ug/L			ND	ND	ND	EPA 624.1	1	0.06 - 0.20	0.50
Trichloroethene	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.15	0.50
Vinyl chloride	ug/L			ND	ND	ND	EPA 624.1	2	0.25 - 0.37	0.50
Zinc	ug/L			105	161	306	EPA 200.8	1	0.92 - 0.95	1.00 - 20.0

(1) Blank contamination observed.

(2) Possible interference observed. The measured ion ratio did not meet quantitative criteria for analysis and results are considered to be an estimated maximum possible concentration.

Saugus WRP Effluent Monitoring

Table 4.4
Saugus Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
1,1,1-Trichloroethane	ug/L	ND						ND			
1,1,2,2-Tetrachloroethane	ug/L	ND						ND			
1,1,2-Trichloroethane	ug/L	ND						ND			
1,1-Dichloroethane	ug/L	ND						ND			
1,1-Dichloroethene	ug/L	ND						ND			
1,2,3,4,6,7,8-HeptaCDD	pg/L	ND						ND			ND
1,2,3,4,6,7,8-HeptaCDF	pg/L	ND						ND			ND
1,2,3,4,7,8,9-HeptaCDF	pg/L	ND						ND			ND
1,2,3,4,7,8-HexaCDD	pg/L	ND						ND			ND
1,2,3,4,7,8-HexaCDF	pg/L	ND						ND			DNQ Est. Conc. 1.0
1,2,3,6,7,8-HexaCDD	pg/L	ND						ND			ND
1,2,3,6,7,8-HexaCDF	pg/L	ND						ND			DNQ Est. Conc. 0.25 (1)
1,2,3,7,8,9-HexaCDD	pg/L	ND						ND			ND
1,2,3,7,8,9-HexaCDF	pg/L	ND						ND			ND
1,2,3,7,8-PentaCDD	pg/L	ND						ND			ND
1,2,3,7,8-PentaCDF	pg/L	ND						ND			ND
1,2,3-Trichloropropane	ug/L	ND						ND			
1,2,4-Trichlorobenzene	ug/L	ND						ND			
1,2-Dichlorobenzene	ug/L	ND						ND			
1,2-Dichloroethane	ug/L	ND						ND			
1,2-Dichloropropane	ug/L	ND						ND			
1,2-Diphenylhydrazine	ug/L	ND						ND			
1,3-Dichlorobenzene	ug/L	ND						ND			
1,3-Dichloropropene (Total)	ug/L	ND						ND			
1,4-Dichlorobenzene	ug/L	ND						ND			
1,4-Dioxane	ug/L	0.56						0.41			
2,3,4,6,7,8-HexaCDF	pg/L	ND						ND			DNQ Est. Conc. 0.85 (1)
2,3,4,7,8-PentaCDF	pg/L	ND						ND			ND
2,3,7,8-TCDD	pg/L	ND						ND			ND
2,3,7,8-TetraCDF	pg/L	ND						ND			ND
2,4,6-Trichlorophenol	ug/L	ND						ND			
2,4-Dichlorophenol	ug/L	ND						ND			
2,4-Dimethylphenol	ug/L	ND						ND			
2,4-Dinitrophenol	ug/L	ND						ND			
2,4-Dinitrotoluene	ug/L	ND						ND			
2,6-Dinitrotoluene	ug/L	ND						ND			
2-Chloroethyl vinyl ether (mixed)	ug/L	ND						ND			
2-Chloronaphthalene	ug/L	ND						ND			
2-Chlorophenol	ug/L	ND						ND			
2-Methyl-4,6-dinitrophenol	ug/L	ND						ND			
2-Nitrophenol	ug/L	ND						ND			
3,3'-Dichlorobenzidine	ug/L	ND						ND			
3-Methyl-4-chlorophenol	ug/L	ND						ND			
4,4'-DDD	ug/L	ND						ND			
4,4'-DDE	ug/L	ND						ND			
4,4-DDT	ug/L	ND						ND			
4-Bromophenyl phenyl ether	ug/L	ND						ND			
4-Chlorophenyl phenyl ether	ug/L	ND						ND			
4-Nitrophenol	ug/L	ND						ND			
Acenaphthene	ug/L	ND						ND			
Acenaphthylene	ug/L	ND						ND			
Acrolein	ug/L	ND						ND			
Acrylonitrile	ug/L	ND						ND			
Aldrin	ug/L	ND						ND			
alpha-BHC	ug/L	ND						ND			
Ammonia as nitrogen	mg/L	0.604	0.807	0.512	0.610	0.584	0.872	0.564	0.644	0.540	0.708
Anthracene	ug/L	ND						ND			
Antimony	ug/L	0.62			0.53			0.64			
Aroclor 1016	ug/L	ND						ND			

Table 4.4
Saugus Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
1,1,1-Trichloroethane	ug/L			ND	ND	ND			EPA 624.1	2	0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L			ND	ND	ND			EPA 624.1	1	0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L			ND	ND	ND			EPA 624.1	2	0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L			ND	ND	ND			EPA 624.1	1	0.08 - 0.19	0.50
1,1-Dichloroethene	ug/L			ND	ND	ND			EPA 624.1	2	0.21	0.50
1,2,3,4,6,7,8-HeptaCDD	pg/L			ND	ND	ND			EPA 1613B		0.18 - 0.27	50
1,2,3,4,6,7,8-HeptaCDF	pg/L			ND	ND	ND			EPA 1613B		0.19 - 1.0	50
1,2,3,4,7,8,9-HeptaCDF	pg/L			ND	ND	ND			EPA 1613B		0.21 - 1.2	50
1,2,3,4,7,8-HexaCDD	pg/L			ND	ND	ND			EPA 1613B		0.14 - 0.28	50
1,2,3,4,7,8-HexaCDF	pg/L			ND	ND	DNQ Est. Conc. 1.0			EPA 1613B		0.12 - 0.30	50
1,2,3,6,7,8-HexaCDD	pg/L			ND	ND	ND			EPA 1613B		0.16 - 0.31	50
1,2,3,6,7,8-HexaCDF	pg/L			ND	ND	DNQ Est. Conc. 0.25 (1)			EPA 1613B		0.13 - 0.32	50
1,2,3,7,8,9-HexaCDD	pg/L			ND	ND	ND			EPA 1613B		0.14 - 0.29	50
1,2,3,7,8,9-HexaCDF	pg/L			ND	ND	ND			EPA 1613B		0.16 - 0.35	50
1,2,3,7,8-PentaCDD	pg/L			ND	ND	ND			EPA 1613B		0.24 - 0.82	50
1,2,3,7,8-PentaCDF	pg/L			ND	ND	ND			EPA 1613B		0.16 - 0.57	50
1,2,3-Trichloropropane	ug/L			ND	ND	ND			EPA 524.2 (TCP)		0.0012	0.0050
1,2,4-Trichlorobenzene	ug/L			ND	ND	ND			EPA 625.1	5	0.51	1.0
1,2-Dichlorobenzene	ug/L			ND	ND	ND			EPA 624.1	2	0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L			ND	ND	ND			EPA 624.1	2	0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L			ND	ND	ND			EPA 624.1	1	0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L			ND	ND	ND			EPA 625.1	1	0.63	1.0
1,3-Dichlorobenzene	ug/L			ND	ND	ND			EPA 624.1	2	0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L			ND	ND	ND			Calculated			
1,4-Dichlorobenzene	ug/L			ND	ND	ND			EPA 624.1	2	0.16 - 0.25	0.50
1,4-Dioxane	ug/L			0.41	0.48	0.56			SW-846 8270MOD 1,4-Dioxane		0.26	0.40
2,3,4,6,7,8-HexaCDF	pg/L			ND	ND	DNQ Est. Conc. 0.85 (1)			EPA 1613B		0.13 - 0.31	50
2,3,4,7,8-PentaCDF	pg/L			ND	ND	ND			EPA 1613B		0.17 - 0.66	50
2,3,7,8-TCDD	pg/L			ND	ND	ND	0.028 (2)	0.014 (2)	EPA 1613B		0.31 - 1.0	10
2,3,7,8-TetraCDF	pg/L			ND	ND	ND			EPA 1613B		0.14 - 0.65	10
2,4,6-Trichlorophenol	ug/L			ND	ND	ND			EPA 625.1	10	0.64	1.0
2,4-Dichlorophenol	ug/L			ND	ND	ND			EPA 625.1	5	0.60	1.0
2,4-Dimethylphenol	ug/L			ND	ND	ND			EPA 625.1	2	0.44	1.0
2,4-Dinitrophenol	ug/L			ND	ND	ND			EPA 625.1	5	1.5	5.0
2,4-Dinitrotoluene	ug/L			ND	ND	ND			EPA 625.1	5	0.37	1.0
2,6-Dinitrotoluene	ug/L			ND	ND	ND			EPA 625.1	5	0.50	1.0
2-Chloroethyl vinyl ether (mixed)	ug/L			ND	ND	ND			EPA 624.1	1	0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L			ND	ND	ND			EPA 625.1	10	0.41	1.0
2-Chlorophenol	ug/L			ND	ND	ND			EPA 625.1	5	0.41	1.0
2-Methyl-4,6-dinitrophenol	ug/L			ND	ND	ND			EPA 625.1	5	1.3	5.0
2-Nitrophenol	ug/L			ND	ND	ND			EPA 625.1	10	0.31	1.0
3,3'-Dichlorobenzidine	ug/L			ND	ND	ND			EPA 625.1	5	0.54	1.0
3-Methyl-4-chlorophenol	ug/L			ND	ND	ND			EPA 625.1	1	0.69	1.0
4,4'-DDD	ug/L			ND	ND	ND			EPA 608.3	0.05	0.003	0.01
4,4'-DDE	ug/L			ND	ND	ND			EPA 608.3	0.05	0.002	0.01
4,4-DDT	ug/L			ND	ND	ND			EPA 608.3	0.01	0.004	0.01
4-Bromophenyl phenyl ether	ug/L			ND	ND	ND			EPA 625.1	5	0.58	1.0
4-Chlorophenyl phenyl ether	ug/L			ND	ND	ND			EPA 625.1	5	0.63	1.0
4-Nitrophenol	ug/L			ND	ND	ND			EPA 625.1	10	1.6	5.0
Acenaphthene	ug/L			ND	ND	ND			EPA 625.1	1	0.50	1.0
Acenaphthylene	ug/L			ND	ND	ND			EPA 625.1	10	0.50	1.0
Acrolein	ug/L			ND	ND	ND			EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L			ND	ND	ND			EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L			ND	ND	ND			EPA 608.3	0.005	0.002	0.005
alpha-BHC	ug/L			ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Ammonia as nitrogen	mg/L	0.503	0.574	0.503	0.627	0.872	5.6	2.0	SM 4500 NH3 H		0.030 - 0.069	0.100
Anthracene	ug/L			ND	ND	ND			EPA 625.1	10	0.56	1.0
Antimony	ug/L			0.53	0.60	0.64			EPA 200.8	0.5	0.12	0.50
Aroclor 1016	ug/L			ND	ND	ND			EPA 608.3	0.5	0.1	0.5

Table 4.4
Saugus Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Aroclor 1221	ug/L	ND						ND			
Aroclor 1232	ug/L	ND						ND			
Aroclor 1242	ug/L	ND						ND			
Aroclor 1248	ug/L	ND						ND			
Aroclor 1254	ug/L	ND						ND			
Aroclor 1260	ug/L	ND						ND			
Arsenic	ug/L	DNQ Est. Conc. 0.83			1.25			DNQ Est. Conc. 0.70			
Barium	ug/L	36.2			31.7			26.0			
Benzene	ug/L	ND						ND			
Benzidine	ug/L	ND						ND			
Benzo(a)anthracene	ug/L	ND	ND	ND	ND	ND	ND	ND			ND
Benzo(a)pyrene	ug/L	ND			ND			ND			
Benzo(b)fluoranthene	ug/L	ND			ND			ND			
Benzo(g,h,i)perylene	ug/L	ND						ND			
Benzo(k)fluoranthene	ug/L	ND			ND			ND			
Beryllium	ug/L	ND						ND			
beta-BHC	ug/L	ND						ND			
bis(2-Chloroethoxy) methane	ug/L	ND						ND			
bis(2-Chloroethyl) ether	ug/L	ND						ND			
bis(2-Chloroisopropyl) ether	ug/L	ND						ND			
bis(2-Ethylhexyl) phthalate	ug/L	ND						ND			
BOD	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	mg/L	0.64	0.54	0.56	0.55	0.51	0.56	0.44	0.47	0.47	0.54
Bromodichloromethane	ug/L	1.2	1.2	1.4	0.79	1.4	3.3	1.4	0.87	1.8	1.8
Bromoform	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ug/L	ND						ND			
Cadmium	ug/L	ND			ND			ND			
Carbon tetrachloride	ug/L	ND						ND			
Chlordane	ug/L	ND						ND			
Chloride	mg/L	126	122	116	116	117	116	116	111	109	113
Chlorobenzene	ug/L	ND						ND			
Chlorodibromomethane	ug/L	DNQ Est. Conc. 0.25	DNQ Est. Conc. 0.35	DNQ Est. Conc. 0.41	DNQ Est. Conc. 0.13	ND	0.82	ND	ND	DNQ Est. Conc. 0.39	DNQ Est. Conc. 0.37
Chloroethane	ug/L	ND						ND			
Chloroform	ug/L	3.6	2.6	2.7	2.5	3.2	5.7	3.7	3.0	2.7	3.1
Chlorpyrifos	ug/L	ND						ND			
Chromium III	ug/L	ND						ND			
Chromium VI	ug/L	ND						0.07			
Chromium, total	ug/L	DNQ Est. Conc. 0.41						0.50			
Chrysene	ug/L	ND			ND			ND			
Copper	ug/L	3.48	2.89	3.32	2.83	2.82	3.10	3.19			2.95
delta-BHC	ug/L	ND						ND			
Di-n-butyl phthalate	ug/L	ND						ND			
Di-n-octyl phthalate	ug/L	ND						ND			
Diazinon	ug/L	ND						ND			
Dibenzo(a,h)anthracene	ug/L	ND			ND			ND			
Dieldrin	ug/L	ND						ND			
Diethyl phthalate	ug/L	DNQ Est. Conc. 0.62						ND			
Dimethyl phthalate	ug/L	ND						ND			
Dissolved oxygen	mg/L	8.0	8.0	7.2	7.9	7.6	6.9	6.8	6.8	6.8	7.6
E. coli	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ug/L	ND						ND			
Endosulfan II	ug/L	ND						ND			
Endosulfan sulfate	ug/L	ND						ND			
Endrin	ug/L	ND						ND			
Endrin aldehyde	ug/L	ND						ND			
Ethylbenzene	ug/L	ND						ND			
Fluoranthene	ug/L	ND						ND			
Fluorene	ug/L	ND						ND			
Fluoride	mg/L	0.215				0.182		0.221			0.234

Table 4.4
Saugus Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
Aroclor 1221	ug/L			ND	ND	ND			EPA 608.3	0.5	0.1	0.5
Aroclor 1232	ug/L			ND	ND	ND			EPA 608.3	0.5	0.1	0.5
Aroclor 1242	ug/L			ND	ND	ND			EPA 608.3	0.5	0.1	0.5
Aroclor 1248	ug/L			ND	ND	ND			EPA 608.3	0.5	0.1	0.5
Aroclor 1254	ug/L			ND	ND	ND			EPA 608.3	0.5	0.1	0.5
Aroclor 1260	ug/L			ND	ND	ND			EPA 608.3	0.5	0.1	0.5
Arsenic	ug/L			DNQ Est. Conc. 0.70	0.42	1.25			EPA 200.8	2	0.05 - 0.07	1.00
Barium	ug/L			26.0	31.3	36.2			EPA 200.8		0.07 - 0.10	0.50
Benzene	ug/L			ND	ND	ND			EPA 624.1	2	0.06 - 0.09	0.50
Benzidine	ug/L			ND	ND	ND			EPA 625.1	5	0.77	5.0
Benzo(a)anthracene	ug/L			ND	ND	ND	0.098 (3)	0.049 (3)	EPA 610 & EPA 625.1	5	0.014 - 0.46	0.020 - 1.0
Benzo(a)pyrene	ug/L			ND	ND	ND			EPA 610	10	0.013	0.020
Benzo(b)fluoranthene	ug/L			ND	ND	ND			EPA 610	10	0.015	0.020
Benzo(g,h,i)perylene	ug/L			ND	ND	ND			EPA 625.1	5	0.52	1.0
Benzo(k)fluoranthene	ug/L			ND	ND	ND			EPA 610	10	0.014	0.020
Beryllium	ug/L			ND	ND	ND			EPA 200.8	0.5	0.023 - 0.026	0.25
beta-BHC	ug/L			ND	ND	ND			EPA 608.3	0.005	0.003	0.005
bis(2-Chloroethoxy) methane	ug/L			ND	ND	ND			EPA 625.1	5	0.28	1.0
bis(2-Chloroethyl) ether	ug/L			ND	ND	ND			EPA 625.1	1	0.27	1.0
bis(2-Chloroisopropyl) ether	ug/L			ND	ND	ND			EPA 625.1	2	0.25	1.0
bis(2-Ethylhexyl) phthalate	ug/L			ND	ND	ND			EPA 625.1	5	0.55	1.0
BOD	mg/L	ND	ND	ND	ND	ND	45	20	SM 5210B			3
Boron	mg/L	0.55	0.55	0.44	0.53	0.64		1.5	EPA 200.8		0.008 - 0.013	0.020
Bromodichloromethane	ug/L	1.7	1.1	0.79	1.5	3.3			EPA 624.1	2	0.11 - 0.15	0.50
Bromoform	ug/L	ND	ND	ND	ND	ND			EPA 624.1	2	0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L			ND	ND	ND			EPA 625.1	10	0.58	1.0
Cadmium	ug/L			ND	ND	ND			EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L			ND	ND	ND			EPA 624.1	2	0.18 - 0.34	0.50
Chlordane	ug/L			ND	ND	ND			EPA 608.3	0.1	0.02	0.05
Chloride	mg/L	112	117	109	116	126	230	(4)	EPA 300.0		0.024 - 0.144	10.0
Chlorobenzene	ug/L			ND	ND	ND			EPA 624.1	2	0.07 - 0.10	0.50
Chlorodibromomethane	ug/L	DNQ Est. Conc. 0.29	DNQ Est. Conc. 0.17	ND	0.068	0.82			EPA 624.1	2	0.11 - 0.13	0.50
Chloroethane	ug/L			ND	ND	ND			EPA 624.1	2	0.22 - 0.31	0.50
Chloroform	ug/L	2.5	2.5	2.5	3.2	5.7			EPA 624.1	2	0.08 - 0.35	0.50
Chlorpyrifos	ug/L			ND	ND	ND			SW-846 8141A		0.0026	0.050
Chromium III	ug/L			ND	ND	ND			Calculated			
Chromium VI	ug/L			ND	0.04	0.07			EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total	ug/L			DNQ Est. Conc. 0.41	0.25	0.50			EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L			ND	ND	ND			EPA 610	10	0.014	0.020
Copper	ug/L			2.82	3.07	3.48	23 (3)	15 (3)	EPA 200.8	0.5	0.12 - 0.14	0.50
delta-BHC	ug/L			ND	ND	ND			EPA 608.3	0.005	0.003	0.005
Di-n-butyl phthalate	ug/L			ND	ND	ND			EPA 625.1	10	0.59	1.0
Di-n-octyl phthalate	ug/L			ND	ND	ND			EPA 625.1	10	0.69	1.0
Diazinon	ug/L			ND	ND	ND			SW-846 8141A		0.0035	0.020
Dibenzo(a,h)anthracene	ug/L			ND	ND	ND			EPA 610	10	0.014	0.020
Dieldrin	ug/L			ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Diethyl phthalate	ug/L			ND	ND	DNQ Est. Conc. 0.62			EPA 625.1	2	0.42	1.0
Dimethyl phthalate	ug/L			ND	ND	ND			EPA 625.1	2	0.41	1.0
Dissolved oxygen	mg/L	7.5	7.4	6.8	7.4	8.0			HACH 10360 LDO			0.2
E. coli	No./100mL	ND	ND	ND	ND	ND			SM 9223 Quanti-Tray			1
Endosulfan I	ug/L			ND	ND	ND			EPA 608.3	0.02	0.003	0.01
Endosulfan II	ug/L			ND	ND	ND			EPA 608.3	0.01	0.004	0.01
Endosulfan sulfate	ug/L			ND	ND	ND			EPA 608.3	0.05	0.004	0.01
Endrin	ug/L			ND	ND	ND			EPA 608.3	0.01	0.004	0.01
Endrin aldehyde	ug/L			ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Ethylbenzene	ug/L			ND	ND	ND			EPA 624.1	2	0.11 - 0.15	0.50
Fluoranthene	ug/L			ND	ND	ND			EPA 625.1	1	0.69	1.0
Fluorene	ug/L			ND	ND	ND			EPA 625.1	10	0.58	1.0
Fluoride	mg/L			0.182	0.213	0.234			SM 4500 F C		0.040	0.100

Table 4.4
Saugus Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
gamma-BHC (Lindane)	ug/L	ND						ND			
Gross alpha radioactivity	pCi/L	1.31			0.256			-0.213			
Gross beta radioactivity	pCi/L	9.57			20.7			10.4			
Heptachlor	ug/L	ND						ND			
Heptachlor epoxide	ug/L	ND						ND			
Hexachlorobenzene	ug/L	ND						ND			
Hexachlorobutadiene	ug/L	ND						ND			
Hexachlorocyclopentadiene	ug/L	ND						ND			
Hexachloroethane	ug/L	ND						ND			
Indeno (1,2,3-cd) pyrene	ug/L	ND			ND			ND			
Iron	ug/L	DNQ Est. Conc. 13.5			DNQ Est. Conc. 13.3			DNQ Est. Conc. 17.6	DNQ Est. Conc. 13.2	DNQ Est. Conc. 13.8	DNQ Est. Conc. 14.5
Isophorone	ug/L	ND						ND			
Lead	ug/L	DNQ Est. Conc. 0.16	DNQ Est. Conc. 0.17	DNQ Est. Conc. 0.16	DNQ Est. Conc. 0.14	DNQ Est. Conc. 0.15	DNQ Est. Conc. 0.13	DNQ Est. Conc. 0.14	DNQ Est. Conc. 0.12	DNQ Est. Conc. 0.13	DNQ Est. Conc. 0.14
Mercury	ug/L	0.0039	0.0035	0.0029	0.0019	0.0050	0.0086	0.0064			0.0037
Methyl bromide (Bromomethane)	ug/L	ND						ND			
Methyl chloride (Chloromethane)	ug/L	ND						ND			
Methyl tert-butyl ether (MTBE)	ug/L	ND						ND			
Methylene chloride	ug/L	ND						ND			
n-Nitrosodimethylamine (NDMA)	ug/L	ND						ND			
n-Nitrosodi-n-propylamine	ug/L	ND						ND			
n-Nitrosodiphenylamine	ug/L	ND						ND			
Naphthalene	ug/L	ND						ND			
Nickel	ug/L	1.15	1.13	1.12	1.07	1.12	1.24	1.16			1.08
Nitrate + Nitrite as nitrogen	mg/L	6.62	5.90	4.34	4.77	5.69	5.64	5.32	4.81	4.64	5.73
Nitrate as nitrogen	mg/L	6.55	5.84	4.28	4.70	5.57	5.60	5.26	4.75	4.57	5.62
Nitrite as nitrogen	mg/L	0.074	0.057	0.064	0.072	0.117	0.036	0.060	0.060	0.072	0.105
Nitrobenzene	ug/L	ND						ND			
OctaCDD	pg/L	ND						ND			ND
OctaCDF	pg/L	ND						ND			ND
Oil and grease	mg/L	DNQ Est. Conc. 2.0			DNQ Est. Conc. 1.7			ND			ND
Organic nitrogen	mg/L	1.07	1.88	1.24	0.910	0.786	0.578	0.986	0.656	0.282	0.402
Orthophosphate-P	mg/L	0.398			0.264			0.298			0.270
PCB-101 (Co: 90/101/113)	pg/L							DNQ Est. Conc. 8.9			
PCB-105	pg/L							ND			
PCB-114	pg/L							ND			
PCB-118	pg/L							DNQ Est. Conc. 5.3			
PCB-123	pg/L							ND			
PCB-126	pg/L							ND			
PCB-138 (Co: 129/138/163)	pg/L							DNQ Est. Conc. 8.4 (6)			
PCB-158	pg/L							ND			
PCB-167	pg/L							ND			
PCB-169	pg/L							ND			
PCB-170	pg/L							DNQ Est. Conc. 2.7 (1)			
PCB-177	pg/L							DNQ Est. Conc. 1.6 (1)			
PCB-183	pg/L							ND			
PCB-187	pg/L							DNQ Est. Conc. 1.9 (1)			
PCB-189	pg/L							ND			
PCB-194	pg/L							ND			
PCB-201	pg/L							ND			
PCB-206	pg/L							ND			
PCB-37	pg/L							ND			
PCB-52	pg/L							DNQ Est. Conc. 16 (6)			
PCB-61/70/74/76	pg/L							ND			
PCB-66	pg/L							DNQ Est. Conc. 5.3			
PCB-77	pg/L							ND			
PCB-81	pg/L							ND			
PCB-86/87/97/108/119/125	pg/L							ND			
PCB-99	pg/L							DNQ Est. Conc. 2.6 (1)			
PCB-110/115	pg/L							DNQ Est. Conc. 8.1 (1)			

Table 4.4
Saugus Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
gamma-BHC (Lindane)	ug/L			ND	ND	ND			EPA 608.3	0.02	0.003	0.01
Gross alpha radioactivity	pCi/L			-0.213	0.522	1.31		15	EPA 900.0		1.18 - 3.9	3.00
Gross beta radioactivity	pCi/L			9.57	13.6	20.7		(5)	EPA 900.0		0.7 - 2.26	4.00
Heptachlor	ug/L			ND	ND	ND			EPA 608.3	0.01	0.002	0.01
Heptachlor epoxide	ug/L			ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Hexachlorobenzene	ug/L			ND	ND	ND			EPA 625.1	1	0.47	1.0
Hexachlorobutadiene	ug/L			ND	ND	ND			EPA 625.1	1	0.96	1.0
Hexachlorocyclopentadiene	ug/L			ND	ND	ND			EPA 625.1	5	2.0	5.0
Hexachloroethane	ug/L			ND	ND	ND			EPA 625.1	1	0.81	1.0
Indeno (1,2,3-cd) pyrene	ug/L			ND	ND	ND			EPA 610	10	0.013	0.020
Iron	ug/L	DNQ Est. Conc. 11.4	DNQ Est. Conc. 11.3	DNQ Est. Conc. 11.3	ND	DNQ Est. Conc. 17.6		300 (2)	EPA 200.8		5.7 - 8.8	20.0
Isophorone	ug/L			ND	ND	ND			EPA 625.1	1	0.28	1.0
Lead	ug/L	DNQ Est. Conc. 0.12	DNQ Est. Conc. 0.08	DNQ Est. Conc. 0.08	ND	DNQ Est. Conc. 0.17	12 (3) / 7.4 (2)	7 (3) / 5.6 (2)	EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L			0.0019	0.0045	0.0086	0.11 (3)	0.051 (3)	EPA 1631E		0.00010	0.00050
Methyl bromide (Bromomethane)	ug/L			ND	ND	ND			EPA 624.1	2	0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L			ND	ND	ND			EPA 624.1	2	0.19 - 0.41	0.50
Methyl tert-butyl ether (MTBE)	ug/L			ND	ND	ND			EPA 624.1		0.08 - 0.40	0.50
Methylene chloride	ug/L			ND	ND	ND			EPA 624.1	2	0.16 - 0.46	0.50
n-Nitrosodimethylamine (NDMA)	ug/L			ND	ND	ND			EPA 625.1	5	0.50	5.0
n-Nitrosodi-n-propylamine	ug/L			ND	ND	ND			EPA 625.1	5	0.36	1.0
n-Nitrosodiphenylamine	ug/L			ND	ND	ND			EPA 625.1	1	0.64	1.0
Naphthalene	ug/L			ND	ND	ND			EPA 625.1	1	0.20	1.0
Nickel	ug/L			1.07	1.13	1.24	117 (3)	89 (3)	EPA 200.8	1	0.08 - 0.50	1.00
Nitrate + Nitrite as nitrogen	mg/L	4.96	5.61	4.34	5.34	6.62		7.1	SM 4500 NO3 F		0.079	0.230
Nitrate as nitrogen	mg/L	4.92	5.55	4.28	5.27	6.55		7.1	Calculated			
Nitrite as nitrogen	mg/L	0.044	0.062	0.036	0.068	0.117		0.9	SM 4500 NO3 F		0.012 - 0.018	0.030
Nitrobenzene	ug/L			ND	ND	ND			EPA 625.1	1	0.31	1.0
OctaCDD	pg/L			ND	ND	ND			EPA 1613B		0.17 - 0.41	100
OctaCDF	pg/L			ND	ND	ND			EPA 1613B		0.36 - 0.62	100
Oil and grease	mg/L			ND	ND	DNQ Est. Conc. 2.0	15	10	EPA 1664A		1.0 - 2.1	5.2 - 5.7
Organic nitrogen	mg/L	0.737	0.262	0.262	0.816	1.88			Calculated			
Orthophosphate-P	mg/L			0.264	0.308	0.398			SM4500-P G		0.010	0.030
PCB-101 (Co: 90/101/113)	pg/L			DNQ Est. Conc. 8.9	ND	DNQ Est. Conc. 8.9			EPA 1668C		1.4	610
PCB-105	pg/L			ND	ND	ND			EPA 1668C		1.1	20
PCB-114	pg/L			ND	ND	ND			EPA 1668C		1.2	20
PCB-118	pg/L			DNQ Est. Conc. 5.3	ND	DNQ Est. Conc. 5.3			EPA 1668C		1.1	20
PCB-123	pg/L			ND	ND	ND			EPA 1668C		1.2	20
PCB-126	pg/L			ND	ND	ND			EPA 1668C		1.4	20
PCB-138 (Co: 129/138/163)	pg/L			DNQ Est. Conc. 8.4 (6)	ND	DNQ Est. Conc. 8.4 (6)			EPA 1668C		1.1	610
PCB-158	pg/L			ND	ND	ND			EPA 1668C		0.81	200
PCB-167	pg/L			ND	ND	ND			EPA 1668C		0.69	20
PCB-169	pg/L			ND	ND	ND			EPA 1668C		0.84	20
PCB-170	pg/L			DNQ Est. Conc. 2.7 (1)	ND	DNQ Est. Conc. 2.7 (1)			EPA 1668C		1.0	200
PCB-177	pg/L			DNQ Est. Conc. 1.6 (1)	ND	DNQ Est. Conc. 1.6 (1)			EPA 1668C		0.87	200
PCB-183	pg/L			ND	ND	ND			EPA 1668C		0.73	200
PCB-187	pg/L			DNQ Est. Conc. 1.9 (1)	ND	DNQ Est. Conc. 1.9 (1)			EPA 1668C		0.75	200
PCB-189	pg/L			ND	ND	ND			EPA 1668C		0.64	20
PCB-194	pg/L			ND	ND	ND			EPA 1668C		0.74	200
PCB-201	pg/L			ND	ND	ND			EPA 1668C		0.53	200
PCB-206	pg/L			ND	ND	ND			EPA 1668C		1.3	200
PCB-37	pg/L			ND	ND	ND			EPA 1668C		1.6	200
PCB-52	pg/L			DNQ Est. Conc. 16 (6)	ND	DNQ Est. Conc. 16 (6)			EPA 1668C		1.6	200
PCB-61/70/74/76	pg/L			ND	ND	ND			EPA 1668C		1.4	820
PCB-66	pg/L			DNQ Est. Conc. 5.3	ND	DNQ Est. Conc. 5.3			EPA 1668C		1.3	200
PCB-77	pg/L			ND	ND	ND			EPA 1668C		1.4	20
PCB-81	pg/L			ND	ND	ND			EPA 1668C		1.5	20
PCB-86/87/97/108/119/125	pg/L			ND	ND	ND			EPA 1668C		1.3	1200
PCB-99	pg/L			DNQ Est. Conc. 2.6 (1)	ND	DNQ Est. Conc. 2.6 (1)			EPA 1668C		1.2	200
PCB-110/115	pg/L			DNQ Est. Conc. 8.1 (1)	ND	DNQ Est. Conc. 8.1 (1)			EPA 1668C		1.2	410

Table 4.4
Saugus Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
PCB-128/166	pg/L							ND			
PCB-135/151	pg/L							DNQ Est. Conc. 3.9			
PCB-147/149	pg/L							DNQ Est. Conc. 7.2 (1)			
PCB-153/168	pg/L							ND			
PCB-156/157	pg/L							ND			
PCB-18/30	pg/L							DNQ Est. Conc. 8.9			
PCB-180/193	pg/L							DNQ Est. Conc. 5.5 (1)(6)			
PCB-20/28	pg/L							DNQ Est. Conc. 12 (6)			
PCB-44/47/65	pg/L							ND			
PCB-49/69	pg/L							DNQ Est. Conc. 4.3			
PCBs, Sum as Aroclors	pg/L	ND						ND			
PCBs, Sum as Congeners	pg/L							ND			
Pentachlorophenol	ug/L	ND						ND			
Perchlorate	ug/L	0.18			0.060			ND			
pH	SU	7.3	7.1	7.2	7.3	7.2	7.2	7.2	7.1	7.3	7.3
Phenanthrene	ug/L	ND						ND			
Phenol	ug/L	ND						DNQ Est. Conc. 0.26			
Pyrene	ug/L	ND						ND			
Radium 226 + Radium 228	pCi/L	0.279			0.526			0.00887			
Selenium	ug/L	DNQ Est. Conc. 0.44			DNQ Est. Conc. 0.54			DNQ Est. Conc. 0.27			
Settleable solids	mL/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ug/L	ND			ND			ND			
Strontium-90	pCi/L	0.155			-0.0370			0.637			
Sulfate	mg/L	116	111	119	127	123	113	110	116	119	117
Surfactant (CTAS)	mg/L	0.10				ND		ND			ND
Surfactant (MBAS)	mg/L	DNQ Est. Conc. 0.04				DNQ Est. Conc. 0.07		0.11			DNQ Est. Conc. 0.07
Temperature	Degrees F	71.0	71.0	72.0	74.6	77.4	80.5	83.3	86.2	86.5	83.3
Tetrachloroethene	ug/L	ND						ND			
Thallium	ug/L	ND						ND			
Toluene	ug/L	ND						ND			
Total coliform	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total cyanide	ug/L	ND	ND	ND	ND	ND	DNQ Est. Conc. 3.55	ND			ND
Total dissolved solids	mg/L	600	566	566	603	540	540	525	535	447	537
Total hardness (CaCO3)	mg/L	181	172	170	175	165	161	140	146	150	150
Total Kjeldahl Nitrogen (TKN)	mg/L	1.67	2.69	1.75	1.52	1.37	1.45	1.55	1.30	0.822	1.11
Total nitrogen	mg/L	8.29	8.59	6.09	6.29	7.06	7.09	6.87	6.11	5.46	6.84
Total phosphorus	mg/L	0.273			0.306			0.310			0.295
Total residual chlorine	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total suspended solids	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total trihalomethanes	ug/L	4.8	3.8	4.1	3.3	4.6	9.8	5.1	3.9	4.5	4.9
Toxaphene	ug/L	ND						ND			
Toxic equivalence	ug/L	ND						ND			ND
trans-1,2-Dichloroethene	ug/L	ND						ND			
Trichloroethene	ug/L	ND						ND			
Tritium	pCi/L	93.7			-95.5			-30.6			
Turbidity (flow proportioned avg daily value)	NTU	1.5	1.5	1.5	1.4	1.4	1.3	1.4	1.1	0.94	0.92
Uranium	pCi/L	0.644			0.420			0.525			
Vinyl chloride	ug/L	ND						ND			
Zinc	ug/L	64.3	73.2	75.1	66.3	63.7	70.7	62.2			63.3

Table 4.4
Saugus Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
PCB-128/166	pg/L			ND	ND	ND			EPA 1668C		1.0	410
PCB-135/151	pg/L			DNQ Est. Conc. 3.9	ND	DNQ Est. Conc. 3.9			EPA 1668C		1.1	410
PCB-147/149	pg/L			DNQ Est. Conc. 7.2 (1)	ND	DNQ Est. Conc. 7.2 (1)			EPA 1668C		1.1	410
PCB-153/168	pg/L			ND	ND	ND			EPA 1668C		0.87	410
PCB-156/157	pg/L			ND	ND	ND			EPA 1668C		0.91	41
PCB-18/30	pg/L			DNQ Est. Conc. 8.9	ND	DNQ Est. Conc. 8.9			EPA 1668C		2.1	410
PCB-180/193	pg/L			DNQ Est. Conc. 5.5 (1)(6)	ND	DNQ Est. Conc. 5.5 (1)(6)			EPA 1668C		0.77	410
PCB-20/28	pg/L			DNQ Est. Conc. 12 (6)	ND	DNQ Est. Conc. 12 (6)			EPA 1668C		1.8	410
PCB-44/47/65	pg/L			ND	ND	ND			EPA 1668C		1.6	610
PCB-49/69	pg/L			DNQ Est. Conc. 4.3	ND	DNQ Est. Conc. 4.3			EPA 1668C		1.4	410
PCBs, Sum as Aroclors	pg/L			ND	ND	ND			Calculated			
PCBs, Sum as Congeners	pg/L			ND	ND	ND			Calculated			
Pentachlorophenol	ug/L			ND	ND	ND			EPA 625.1	5	0.82	1.0
Perchlorate	ug/L			ND	0.080	0.18			EPA 331.0		0.020 - 0.086	0.050 - 0.50
pH	SU	7.2	7.2	7.1	7.2	7.3	(7)		SM 4500 H+ B			
Phenanthrene	ug/L			ND	ND	ND			EPA 625.1	5	0.59	1.0
Phenol	ug/L			ND	ND	DNQ Est. Conc. 0.26			EPA 625.1	1	0.24	1.0
Pyrene	ug/L			ND	ND	ND			EPA 625.1	10	0.60	1.0
Radium 226 + Radium 228	pCi/L			0.00887	0.271	0.526		5	Calculated			
Selenium	ug/L			DNQ Est. Conc. 0.27	ND	DNQ Est. Conc. 0.54			EPA 200.8	2	0.04	1.00
Settleable solids	mL/L	ND	ND	ND	ND	ND	0.3	0.1	SM 2540F			0.1
Silver	ug/L			ND	ND	ND			EPA 200.8	0.25	0.02	0.20
Strontium-90	pCi/L			-0.0370	0.264	0.637		8	EPA 905.0		0.324 - 0.671	3.00
Sulfate	mg/L	134	125	110	119	134		300	EPA 300.0		0.040 - 0.161	2.50
Surfactant (CTAS)	mg/L			ND	0.025	0.10			SM 5540D		0.08	0.10
Surfactant (MBAS)	mg/L			DNQ Est. Conc. 0.04	0.028	0.11		0.5	SM 5540C		0.02 - 0.05	0.10
Temperature	Degrees F	77.4	72.9	71.0	78.0	86.5	(8)		EPA 170.1 (oF)			
Tetrachloroethene	ug/L			ND	ND	ND			EPA 624.1	2	0.16 - 0.18	0.50
Thallium	ug/L			ND	ND	ND			EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L			ND	ND	ND			EPA 624.1	2	0.04 - 0.15	0.50
Total coliform	No./100mL	ND	ND	ND	ND	ND	(9)	(9)	SM 9222B			1
Total cyanide	ug/L			ND	ND	DNQ Est. Conc. 3.55	8.9 (3)	4.1 (3)	SM 4500 CN E	5	2.00	5.00
Total dissolved solids	mg/L	566	568	447	549	603		1000	SM 2540C			25.0
Total hardness (CaCO3)	mg/L	172	169	140	163	181			Calculated			
Total Kjeldahl Nitrogen (TKN)	mg/L	1.24	0.836	0.822	1.44	2.69			EPA 351.2		0.132	0.200
Total nitrogen	mg/L	6.20	6.45	5.46	6.78	8.59			Total Nitrogen Calculation			
Total phosphorus	mg/L			0.273	0.296	0.31			SM4500-P H		0.015	0.030
Total residual chlorine	mg/L	ND	ND	ND	ND	ND	0.1		SM 4500 Cl G		0.02	0.10
Total suspended solids	mg/L	ND	ND	ND	ND	ND	45	15	SM 2540D			2.5
Total trihalomethanes	ug/L	4.2	3.6	3.3	4.7	9.8		80	Calculated			
Toxaphene	ug/L			ND	ND	ND			EPA 608.3	0.5	0.05	0.5
Toxic equivalence	ug/L			ND	ND	ND			Calculated			
trans-1,2-Dichloroethene	ug/L			ND	ND	ND			EPA 624.1	1	0.06 - 0.20	0.50
Trichloroethene	ug/L			ND	ND	ND			EPA 624.1	2	0.12 - 0.15	0.50
Tritium	pCi/L			-95.5	31.2	93.7		20000	EPA 906.0		227 - 318	500
Turbidity (flow proportioned avg daily value)	NTU	1.0	0.94	0.92	1.2	1.5	2		SM 2130B		0.098 - 0.12	0.50
Uranium	pCi/L			0.420	0.530	0.644		20	EPA 908.0		0.163 - 0.179	1.00
Vinyl chloride	ug/L			ND	ND	ND			EPA 624.1	2	0.25 - 0.37	0.50
Zinc	ug/L			62.2	67.4	75.1	218	189	EPA 200.8	1	0.92 - 0.95	1.00

(1) Possible interference observed. The measured ion ratio did not meet quantitative criteria for analysis and results are considered to be an estimated maximum possible concentration.

(2) Limit became effective on July 1, 2022, as part of the Saugus WPR's latest NPDES Permit (R4-2022-0175).

(3) Limit was effective through June 30, 2022, as part of the Saugus WRP's previous NPDES Permit (R4-2015-0072).

(4) In 2022, the monthly TSO-based interim limit was equal to the monthly average chloride concentration in the treated water supply for the State Water Project plus 64 mg/L; compliance was based on the 12-month rolling average of the effluent chloride concentration. The NPDES-based limit is 100 mg/L as a three-month rolling average. See Chapter 1 for details.

(5) The gross beta radiation limit is 4 millirem/year with a screening level of 50 pCi/L.

(6) Blank contamination observed.

(7) The pH of NPDES effluent shall be within the range of 6.5 to 8.5.

(8) The interim effluent temperature limit is 86°F except as a result of external ambient temperature.

(9) The number of total coliform bacteria shall not exceed 2.2/100mL as a 7-day median, 23/100mL in more than one sample within any 30-day period, and 240/100mL in any sample.

Valencia WRP Influent Monitoring

Table 4.3
Valencia Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
1,1,1-Trichloroethane	ug/L	ND						ND			
1,1,2,2-Tetrachloroethane	ug/L	ND						ND			
1,1,2-Trichloroethane	ug/L	ND						ND			
1,1-Dichloroethane	ug/L	ND						ND			
1,1-Dichloroethene	ug/L	ND						ND			
1,2,3,4,6,7,8-HeptaCDD	pg/L							DNQ Est. Conc. 20 (1)			ND
1,2,3,4,6,7,8-HeptaCDF	pg/L							ND			ND
1,2,3,4,7,8,9-HeptaCDF	pg/L							ND			ND
1,2,3,4,7,8-HexaCDD	pg/L							ND			ND
1,2,3,4,7,8-HexaCDF	pg/L							ND			ND
1,2,3,6,7,8-HexaCDD	pg/L							ND			ND
1,2,3,6,7,8-HexaCDF	pg/L							ND			ND
1,2,3,7,8,9-HexaCDD	pg/L							ND			ND
1,2,3,7,8,9-HexaCDF	pg/L							ND			DNQ Est. Conc. 0.65 (2)
1,2,3,7,8-PentaCDD	pg/L							ND			ND
1,2,3,7,8-PentaCDF	pg/L							ND			ND
1,2,4-Trichlorobenzene	ug/L	ND						ND			
1,2-Dichlorobenzene	ug/L	ND						ND			
1,2-Dichloroethane	ug/L	ND						ND			
1,2-Dichloropropane	ug/L	ND						ND			
1,2-Diphenylhydrazine	ug/L	ND						ND			
1,3-Dichlorobenzene	ug/L	ND						ND			
1,3-Dichloropropene (Total)	ug/L	ND						ND			
1,4-Dichlorobenzene	ug/L	ND						ND			
2,3,4,6,7,8-HexaCDF	pg/L							DNQ Est. Conc. 0.55 (2)			ND
2,3,4,7,8-PentaCDF	pg/L							ND			ND
2,3,7,8-TCDD	pg/L	ND						ND			ND
2,3,7,8-TetraCDF	pg/L							ND			ND
2,4,6-Trichlorophenol	ug/L	ND						ND			
2,4-Dichlorophenol	ug/L	ND						ND			
2,4-Dimethylphenol	ug/L	ND						ND			
2,4-Dinitrophenol	ug/L	ND						ND			
2,4-Dinitrotoluene	ug/L	ND						ND			
2,6-Dinitrotoluene	ug/L	ND						ND			
2-Chloroethyl vinyl ether (mixed)	ug/L	ND						ND			
2-Chloronaphthalene	ug/L	ND						ND			
2-Chlorophenol	ug/L	ND						ND			
2-Methyl-4,6-dinitrophenol	ug/L	ND						ND			
2-Nitrophenol	ug/L	ND						ND			
3,3'-Dichlorobenzidine	ug/L	ND						ND			
3-Methyl-4-chlorophenol	ug/L	ND						ND			
4,4'-DDD	ug/L	ND						ND			
4,4'-DDE	ug/L	ND						ND			
4,4'-DDT	ug/L	ND						ND			
4-Bromophenyl phenyl ether	ug/L	ND						ND			
4-Chlorophenyl phenyl ether	ug/L	ND						ND			
4-Nitrophenol	ug/L	ND						ND			
Acenaphthene	ug/L	ND						ND			
Acenaphthylene	ug/L	ND						ND			
Acrolein	ug/L	ND						ND			
Acrylonitrile	ug/L	ND						ND			
Aldrin	ug/L	ND						ND			
alpha-BHC	ug/L	ND						ND			
Anthracene	ug/L	ND						ND			
Antimony	ug/L	0.68						0.75			
Aroclor 1016	ug/L	ND						ND			
Aroclor 1221	ug/L	ND						ND			
Aroclor 1232	ug/L	ND						ND			
Aroclor 1242	ug/L	ND						ND			

Table 4.3
Valencia Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
1,1,1-Trichloroethane	ug/L			ND	ND	ND	EPA 624.1	2	0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L			ND	ND	ND	EPA 624.1	1	0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L			ND	ND	ND	EPA 624.1	1	0.08 - 0.19	0.50
1,1-Dichloroethene	ug/L			ND	ND	ND	EPA 624.1	2	0.21	0.50
1,2,3,4,6,7,8-HeptaCDD	pg/L			ND	ND	DNQ Est. Conc. 20 (1)	EPA 1613B		0.39 - 0.44	50
1,2,3,4,6,7,8-HeptaCDF	pg/L			ND	ND	ND	EPA 1613B		1.7 - 2.7	50
1,2,3,4,7,8,9-HeptaCDF	pg/L			ND	ND	ND	EPA 1613B		1.9 - 3.2	50
1,2,3,4,7,8-HexaCDD	pg/L			ND	ND	ND	EPA 1613B		0.12 - 0.24	50
1,2,3,4,7,8-HexaCDF	pg/L			ND	ND	ND	EPA 1613B		0.16 - 0.25	50
1,2,3,6,7,8-HexaCDD	pg/L			ND	ND	ND	EPA 1613B		0.14 - 0.28	50
1,2,3,6,7,8-HexaCDF	pg/L			ND	ND	ND	EPA 1613B		0.15 - 0.24	50
1,2,3,7,8,9-HexaCDD	pg/L			ND	ND	ND	EPA 1613B		0.12 - 0.24	50
1,2,3,7,8,9-HexaCDF	pg/L			ND	ND	DNQ Est. Conc. 0.65 (2)	EPA 1613B		0.19 - 0.29	50
1,2,3,7,8-PentaCDD	pg/L			ND	ND	ND	EPA 1613B		1.0 - 1.1	50
1,2,3,7,8-PentaCDF	pg/L			ND	ND	ND	EPA 1613B		0.078 - 0.24	50
1,2,4-Trichlorobenzene	ug/L			ND	ND	ND	EPA 625.1	5	0.51	10.0 - 20.0
1,2-Dichlorobenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L			ND	ND	ND	EPA 624.1	1	0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L			ND	ND	ND	EPA 625.1	1	0.63	10.0 - 20.0
1,3-Dichlorobenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L			ND	ND	ND	Calculated			
1,4-Dichlorobenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.16 - 0.25	0.50
2,3,4,6,7,8-HexaCDF	pg/L			ND	ND	DNQ Est. Conc. 0.55 (2)	EPA 1613B		0.17 - 0.25	50
2,3,4,7,8-PentaCDF	pg/L			ND	ND	ND	EPA 1613B		0.087 - 0.26	50
2,3,7,8-TCDD	pg/L			ND	ND	ND	EPA 1613B		0.32 - 0.77	9.9 - 10
2,3,7,8-TetraCDF	pg/L			ND	ND	ND	EPA 1613B		0.24 - 0.25	9.9 - 10
2,4,6-Trichlorophenol	ug/L			ND	ND	ND	EPA 625.1	10	0.64	10.0 - 20.0
2,4-Dichlorophenol	ug/L			ND	ND	ND	EPA 625.1	5	0.60	10.0 - 20.0
2,4-Dimethylphenol	ug/L			ND	ND	ND	EPA 625.1	2	0.44	10.0 - 20.0
2,4-Dinitrophenol	ug/L			ND	ND	ND	EPA 625.1	5	1.5	50.0 - 100
2,4-Dinitrotoluene	ug/L			ND	ND	ND	EPA 625.1	5	0.37	10.0 - 20.0
2,6-Dinitrotoluene	ug/L			ND	ND	ND	EPA 625.1	5	0.50	10.0 - 20.0
2-Chloroethyl vinyl ether (mixed)	ug/L			ND	ND	ND	EPA 624.1	1	0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L			ND	ND	ND	EPA 625.1	10	0.41	10.0 - 20.0
2-Chlorophenol	ug/L			ND	ND	ND	EPA 625.1	5	0.41	10.0 - 20.0
2-Methyl-4,6-dinitrophenol	ug/L			ND	ND	ND	EPA 625.1	5	1.3	50.0 - 100
2-Nitrophenol	ug/L			ND	ND	ND	EPA 625.1	10	0.31	10.0 - 20.0
3,3'-Dichlorobenzidine	ug/L			ND	ND	ND	EPA 625.1	5	0.54	10.0 - 20.0
3-Methyl-4-chlorophenol	ug/L			ND	ND	ND	EPA 625.1	1	0.69	10.0 - 20.0
4,4'-DDD	ug/L			ND	ND	ND	EPA 608.3	0.05	0.003	0.10
4,4'-DDE	ug/L			ND	ND	ND	EPA 608.3	0.05	0.002	0.10
4,4'-DDT	ug/L			ND	ND	ND	EPA 608.3	0.01	0.004	0.10
4-Bromophenyl phenyl ether	ug/L			ND	ND	ND	EPA 625.1	5	0.58	10.0 - 20.0
4-Chlorophenyl phenyl ether	ug/L			ND	ND	ND	EPA 625.1	5	0.63	10.0 - 20.0
4-Nitrophenol	ug/L			ND	ND	ND	EPA 625.1	10	1.6	50.0 - 100
Acenaphthene	ug/L			ND	ND	ND	EPA 625.1	1	0.50	10.0 - 20.0
Acenaphthylene	ug/L			ND	ND	ND	EPA 625.1	10	0.50	10.0 - 20.0
Acrolein	ug/L			ND	ND	ND	EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L			ND	ND	ND	EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L			ND	ND	ND	EPA 608.3	0.005	0.002	0.05
alpha-BHC	ug/L			ND	ND	ND	EPA 608.3	0.01	0.003	0.10
Anthracene	ug/L			ND	ND	ND	EPA 625.1	10	0.56	10.0 - 20.0
Antimony	ug/L			0.68	0.72	0.75	EPA 200.8	0.5	0.12	0.50
Aroclor 1016	ug/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1221	ug/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1232	ug/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1242	ug/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0

Table 4.3
Valencia Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Aroclor 1248	ug/L	ND						ND			
Aroclor 1254	ug/L	ND						ND			
Aroclor 1260	ug/L	ND						ND			
Arsenic	ug/L	1.41						1.32			
Benzene	ug/L	ND						ND			
Benzidine	ug/L	ND						ND			
Benzo(a)anthracene	ug/L	ND						ND			
Benzo(a)pyrene	ug/L	ND						ND			
Benzo(b)fluoranthene	ug/L	ND						ND			
Benzo(g,h,i)perylene	ug/L	ND						ND			
Benzo(k)fluoranthene	ug/L	ND						ND			
Beryllium	ug/L	ND						ND			
beta-BHC	ug/L	ND						ND			
bis(2-Chloroethoxy) methane	ug/L	ND						ND			
bis(2-Chloroethyl) ether	ug/L	ND						ND			
bis(2-Chloroisopropyl) ether	ug/L	ND						ND			
bis(2-Ethylhexyl) phthalate	ug/L	ND						ND			
BOD	mg/L	410	445	371	399	309	418	432	325	362	397
Bromodichloromethane	ug/L	DNQ Est. Conc. 0.34						ND	DNQ Est. Conc. 0.17	ND	DNQ Est. Conc. 0.43
Bromoform	ug/L	1.2						ND	0.97	1.2	0.89
Butyl benzyl phthalate	ug/L	ND						ND			
Cadmium	ug/L	0.20						DNQ Est. Conc. 0.17			
Carbon tetrachloride	ug/L	ND						ND			
Chlordane	ug/L	ND						ND			
Chloride	mg/L	116	115	112	111	109	109	108	118	104	111
Chlorobenzene	ug/L	ND						ND			
Chloroethane	ug/L	ND						ND			
Chloroform	ug/L	1.4						1.0	0.90	0.86	1.7
Chromium, total	ug/L	2.86						2.08			
Chrysene	ug/L	ND						ND			
Copper	ug/L	121						121			
delta-BHC	ug/L	ND						ND			
Di-n-butyl phthalate	ug/L	ND						ND			
Di-n-octyl phthalate	ug/L	ND						ND			
Dibenzo(a,h)anthracene	ug/L	ND						ND			
Dibromochloromethane	ug/L	0.75						ND	DNQ Est. Conc. 0.46	1.0	0.69
Dieldrin	ug/L	ND						DNQ Est. Conc. 0.03			
Diethyl phthalate	ug/L	DNQ Est. Conc. 13.0						ND			
Dimethyl phthalate	ug/L	ND						ND			
Endosulfan I	ug/L	ND						ND			
Endosulfan II	ug/L	ND						ND			
Endosulfan sulfate	ug/L	ND						ND			
Endrin	ug/L	ND						ND			
Endrin aldehyde	ug/L	ND						DNQ Est. Conc. 0.05			
Ethylbenzene	ug/L	ND						ND			
Fluoranthene	ug/L	ND						ND			
Fluorene	ug/L	ND						ND			
gamma-BHC (Lindane)	ug/L	ND						ND			
Heptachlor	ug/L	ND						ND			
Heptachlor epoxide	ug/L	ND						ND			
Hexachlorobenzene	ug/L	ND						ND			
Hexachlorobutadiene	ug/L	ND						ND			
Hexachlorocyclopentadiene	ug/L	ND						ND			
Hexachloroethane	ug/L	ND						ND			
Indeno (1,2,3-cd) pyrene	ug/L	ND						ND			
Iron	ug/L							6,810	6,180	5,890	7,060
Isophorone	ug/L	ND						ND			
Lead	ug/L	1.99						1.22			
Mercury	ug/L	0.064						0.14			

Table 4.3
Valencia Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
Aroclor 1248	ug/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1254	ug/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Aroclor 1260	ug/L			ND	ND	ND	EPA 608.3	0.5	0.1	5.0
Arsenic	ug/L			1.32	1.36	1.41	EPA 200.8	2	0.05 - 0.07	1.00
Benzene	ug/L			ND	ND	ND	EPA 624.1	2	0.06 - 0.09	0.50
Benzidine	ug/L			ND	ND	ND	EPA 625.1	5	0.77	50.0 - 100
Benzo(a)anthracene	ug/L			ND	ND	ND	EPA 625.1	5	0.46	10.0 - 20.0
Benzo(a)pyrene	ug/L			ND	ND	ND	EPA 625.1	10	0.54	10.0 - 20.0
Benzo(b)fluoranthene	ug/L			ND	ND	ND	EPA 625.1	10	0.61	10.0 - 20.0
Benzo(g,h,i)perylene	ug/L			ND	ND	ND	EPA 625.1	5	0.52	10.0 - 20.0
Benzo(k)fluoranthene	ug/L			ND	ND	ND	EPA 625.1	10	0.53	10.0 - 20.0
Beryllium	ug/L			ND	ND	ND	EPA 200.8	0.5	0.023 - 0.026	0.25
beta-BHC	ug/L			ND	ND	ND	EPA 608.3	0.005	0.003	0.05
bis(2-Chloroethoxy) methane	ug/L			ND	ND	ND	EPA 625.1	5	0.28	10.0 - 20.0
bis(2-Chloroethyl) ether	ug/L			ND	ND	ND	EPA 625.1	1	0.27	10.0 - 20.0
bis(2-Chloroisopropyl) ether	ug/L			ND	ND	ND	EPA 625.1	2	0.25	10.0 - 20.0
bis(2-Ethylhexyl) phthalate	ug/L			ND	ND	ND	EPA 625.1	5	0.55	10.0 - 20.0
BOD	mg/L	320	406	309	383	445	SM 5210B			100 - 150
Bromodichloromethane	ug/L	DNQ Est. Conc. 0.27	DNQ Est. Conc. 0.25	ND	ND	DNQ Est. Conc. 0.43	EPA 624.1	2	0.11 - 0.15	0.50
Bromoform	ug/L	1.2	1.5	ND	0.99	1.5	EPA 624.1	2	0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L			ND	ND	ND	EPA 625.1	10	0.58	10.0 - 20.0
Cadmium	ug/L			DNQ Est. Conc. 0.17	0.10	0.20	EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L			ND	ND	ND	EPA 624.1	2	0.18 - 0.34	0.50
Chlordane	ug/L			ND	ND	ND	EPA 608.3		0.02	0.50
Chloride	mg/L	110	110	104	111	118	EPA 300.0		0.024 - 0.144	10.0
Chlorobenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.07 - 0.10	0.50
Chloroethane	ug/L			ND	ND	ND	EPA 624.1	2	0.22 - 0.31	0.50
Chloroform	ug/L	1.1	1.1	0.86	1.2	1.7	EPA 624.1	2	0.08 - 0.35	0.50
Chromium, total	ug/L			2.08	2.47	2.86	EPA 200.8	0.5	0.27	0.50
Chrysene	ug/L			ND	ND	ND	EPA 625.1	10	0.41	10.0 - 20.0
Copper	ug/L			121	121	121	EPA 200.8	0.5	0.12 - 0.14	0.50
delta-BHC	ug/L			ND	ND	ND	EPA 608.3	0.005	0.003	0.05
Di-n-butyl phthalate	ug/L			ND	ND	ND	EPA 625.1	10	0.59	10.0 - 20.0
Di-n-octyl phthalate	ug/L			ND	ND	ND	EPA 625.1	10	0.69	10.0 - 20.0
Dibenzo(a,h)anthracene	ug/L			ND	ND	ND	EPA 625.1	10	0.58	10.0 - 20.0
Dibromochloromethane	ug/L	0.59	0.74	ND	0.54	1.0	EPA 624.1	2	0.11 - 0.13	0.50
Dieldrin	ug/L			ND	ND	DNQ Est. Conc. 0.03	EPA 608.3	0.01	0.003	0.10
Diethyl phthalate	ug/L			ND	ND	DNQ Est. Conc. 13.0	EPA 625.1	2	0.42	10.0 - 20.0
Dimethyl phthalate	ug/L			ND	ND	ND	EPA 625.1	2	0.41	10.0 - 20.0
Endosulfan I	ug/L			ND	ND	ND	EPA 608.3	0.02	0.003	0.10
Endosulfan II	ug/L			ND	ND	ND	EPA 608.3	0.01	0.004	0.10
Endosulfan sulfate	ug/L			ND	ND	ND	EPA 608.3	0.05	0.004	0.10
Endrin	ug/L			ND	ND	ND	EPA 608.3	0.01	0.004	0.10
Endrin aldehyde	ug/L			ND	ND	DNQ Est. Conc. 0.05	EPA 608.3	0.01	0.003	0.10
Ethylbenzene	ug/L			ND	ND	ND	EPA 624.1	2	0.11 - 0.15	0.50
Fluoranthene	ug/L			ND	ND	ND	EPA 625.1	1	0.69	10.0 - 20.0
Fluorene	ug/L			ND	ND	ND	EPA 625.1	10	0.58	10.0 - 20.0
gamma-BHC (Lindane)	ug/L			ND	ND	ND	EPA 608.3	0.02	0.003	0.10
Heptachlor	ug/L			ND	ND	ND	EPA 608.3	0.01	0.002	0.10
Heptachlor epoxide	ug/L			ND	ND	ND	EPA 608.3	0.01	0.003	0.10
Hexachlorobenzene	ug/L			ND	ND	ND	EPA 625.1	1	0.47	10.0 - 20.0
Hexachlorobutadiene	ug/L			ND	ND	ND	EPA 625.1	1	0.96	10.0 - 20.0
Hexachlorocyclopentadiene	ug/L			ND	ND	ND	EPA 625.1	5	2.0	50.0 - 100
Hexachloroethane	ug/L			ND	ND	ND	EPA 625.1	1	0.81	10.0 - 20.0
Indeno (1,2,3-cd) pyrene	ug/L			ND	ND	ND	EPA 625.1	10	0.53	10.0 - 20.0
Iron	ug/L	5,220	4,640	4,640	5,970	7,060	EPA 200.8		5.7	20.0
Isophorone	ug/L			ND	ND	ND	EPA 625.1	1	0.28	10.0 - 20.0
Lead	ug/L			1.22	1.60	1.99	EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L			0.064	0.10	0.14	EPA 245.1	0.5	0.019	0.040

Table 4.3
Valencia Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Methyl bromide (Bromomethane)	ug/L	ND						ND			
Methyl chloride (Chloromethane)	ug/L	ND						ND			
Methylene chloride	ug/L	ND						ND			
n-Nitrosodi-n-propylamine	ug/L	ND / ND						ND / ND			
n-Nitrosodimethylamine (NDMA)	ug/L	ND / ND						ND / 0.14			
n-Nitrosodiphenylamine	ug/L	ND / ND						ND / ND			
Naphthalene	ug/L	ND						ND			
Nickel	ug/L	4.29						5.00			
Nitrobenzene	ug/L	ND						ND			
OctaCDD	pg/L							180 (1)			160 (1)
OctaCDF	pg/L							ND			ND
PCB-101 (Co: 90/101/113)	pg/L							DNQ Est. Conc. 300			
PCB-105	pg/L							74			
PCB-110/115	pg/L							DNQ Est. Conc. 280			
PCB-114	pg/L							ND			
PCB-118	pg/L							200			
PCB-123	pg/L							DNQ Est. Conc. 7.2			
PCB-126	pg/L							ND			
PCB-128/166	pg/L							DNQ Est. Conc. 32			
PCB-135/151	pg/L							DNQ Est. Conc. 63			
PCB-138 (Co: 129/138/163)	pg/L							DNQ Est. Conc. 220 (1)			
PCB-147/149	pg/L							DNQ Est. Conc. 150			
PCB-153/168	pg/L							DNQ Est. Conc. 170 (1)			
PCB-156/157	pg/L							DNQ Est. Conc. 32 (1)			
PCB-158	pg/L							DNQ Est. Conc. 20			
PCB-167	pg/L							DNQ Est. Conc. 9.2			
PCB-169	pg/L							ND			
PCB-170	pg/L							DNQ Est. Conc. 48			
PCB-177	pg/L							DNQ Est. Conc. 22			
PCB-18/30	pg/L							DNQ Est. Conc. 62			
PCB-180/193	pg/L							DNQ Est. Conc. 120 (1)			
PCB-183	pg/L							DNQ Est. Conc. 35 (1)			
PCB-187	pg/L							DNQ Est. Conc. 47			
PCB-189	pg/L							DNQ Est. Conc. 5.5			
PCB-194	pg/L							DNQ Est. Conc. 17 (2)			
PCB-20/28	pg/L							DNQ Est. Conc. 130 (1)			
PCB-201	pg/L							DNQ Est. Conc. 3.8 (2)			
PCB-206	pg/L							DNQ Est. Conc. 12			
PCB-37	pg/L							DNQ Est. Conc. 36			
PCB-44/47/65	pg/L							DNQ Est. Conc. 250 (1)			
PCB-49/69	pg/L							DNQ Est. Conc. 71			
PCB-52	pg/L							280 (1)			
PCB-61/70/74/76	pg/L							DNQ Est. Conc. 240 (1)			
PCB-66	pg/L							DNQ Est. Conc. 85			
PCB-77	pg/L							DNQ Est. Conc. 13			
PCB-81	pg/L							ND			
PCB-86/87/97/108/119	pg/L							DNQ Est. Conc. 190			
PCB-99	pg/L							DNQ Est. Conc. 91			
PCBs, Sum as Aroclors	pg/L	ND						ND			
PCBs, Sum as Congeners	pg/L							554 (1)			
Pentachlorophenol	ug/L	ND						ND			
pH	SU	7.6	7.6	7.6	7.7	7.4	7.5	7.6	7.6	7.6	7.5
Phenanthrene	ug/L	ND						ND			
Phenol	ug/L	23.5						24.3			
Pyrene	ug/L	ND						ND			
Selenium	ug/L	1.17						1.22	1.28	1.06	1.47
Silver	ug/L	DNQ Est. Conc. 0.15						0.20			
Temperature	Degrees F							80.9	80.5	80.6	79.2
Tetrachloroethene	ug/L	ND						ND			

Table 4.3
Valencia Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
Methyl bromide (Bromomethane)	ug/L			ND	ND	ND	EPA 624.1	2	0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L			ND	ND	ND	EPA 624.1	2	0.19 - 0.41	0.50
Methylene chloride	ug/L			ND	ND	ND	EPA 624.1	2	0.16 - 0.46	0.50
n-Nitrosodi-n-propylamine	ug/L			ND / ND	ND / ND	ND / ND	EPA 625.1 & EPA 1625C	5	0.0006 - 0.36	0.020 - 20.0
n-Nitrosodimethylamine (NDMA)	ug/L			ND / ND	ND / 0.070	ND / 0.14	EPA 625.1 & EPA 1625C	5	0.0005 - 0.50	0.020 - 100
n-Nitrosodiphenylamine	ug/L			ND / ND	ND / ND	ND / ND	EPA 625.1 & EPA 1625C	1	0.0013 - 0.64	0.10 - 20.0
Naphthalene	ug/L			ND	ND	ND	EPA 625.1	1	0.20	10.0 - 20.0
Nickel	ug/L			4.29	4.64	5.00	EPA 200.8	1	0.08 - 0.50	1.00
Nitrobenzene	ug/L			ND	ND	ND	EPA 625.1	1	0.31	10.0 - 20.0
OctaCDD	pg/L			160 (1)	170 (1)	180 (1)	EPA 1613B		1.3 - 2.0	99 - 100
OctaCDF	pg/L			ND	ND	ND	EPA 1613B		0.27 - 0.87	99 - 100
PCB-101 (Co: 90/101/113)	pg/L			DNQ Est. Conc. 300	ND	DNQ Est. Conc. 300	EPA 1668C		4.7	610
PCB-105	pg/L			74	74	74	EPA 1668C		3.9	20
PCB-110/115	pg/L			DNQ Est. Conc. 280	ND	DNQ Est. Conc. 280	EPA 1668C		3.8	410
PCB-114	pg/L			ND	ND	ND	EPA 1668C		4.2	20
PCB-118	pg/L			200	200	200	EPA 1668C		3.7	20
PCB-123	pg/L			DNQ Est. Conc. 7.2	ND	DNQ Est. Conc. 7.2	EPA 1668C		4.1	20
PCB-126	pg/L			ND	ND	ND	EPA 1668C		4.7	20
PCB-128/166	pg/L			DNQ Est. Conc. 32	ND	DNQ Est. Conc. 32	EPA 1668C		2.3	410
PCB-135/151	pg/L			DNQ Est. Conc. 63	ND	DNQ Est. Conc. 63	EPA 1668C		2.4	410
PCB-138 (Co: 129/138/163)	pg/L			DNQ Est. Conc. 220 (1)	ND	DNQ Est. Conc. 220 (1)	EPA 1668C		2.4	610
PCB-147/149	pg/L			DNQ Est. Conc. 150	ND	DNQ Est. Conc. 150	EPA 1668C		2.4	410
PCB-153/168	pg/L			DNQ Est. Conc. 170 (1)	ND	DNQ Est. Conc. 170 (1)	EPA 1668C		1.9	410
PCB-156/157	pg/L			DNQ Est. Conc. 32 (1)	ND	DNQ Est. Conc. 32 (1)	EPA 1668C		5.7	41
PCB-158	pg/L			DNQ Est. Conc. 20	ND	DNQ Est. Conc. 20	EPA 1668C		1.8	200
PCB-167	pg/L			DNQ Est. Conc. 9.2	ND	DNQ Est. Conc. 9.2	EPA 1668C		4.4	20
PCB-169	pg/L			ND	ND	ND	EPA 1668C		5.4	20
PCB-170	pg/L			DNQ Est. Conc. 48	ND	DNQ Est. Conc. 48	EPA 1668C		1.6	200
PCB-177	pg/L			DNQ Est. Conc. 22	ND	DNQ Est. Conc. 22	EPA 1668C		1.4	200
PCB-18/30	pg/L			DNQ Est. Conc. 62	ND	DNQ Est. Conc. 62	EPA 1668C		1.9	410
PCB-180/193	pg/L			DNQ Est. Conc. 120 (1)	ND	DNQ Est. Conc. 120 (1)	EPA 1668C		1.2	410
PCB-183	pg/L			DNQ Est. Conc. 35 (1)	ND	DNQ Est. Conc. 35 (1)	EPA 1668C		1.1	200
PCB-187	pg/L			DNQ Est. Conc. 47	ND	DNQ Est. Conc. 47	EPA 1668C		1.2	200
PCB-189	pg/L			DNQ Est. Conc. 5.5	ND	DNQ Est. Conc. 5.5	EPA 1668C		1.2	20
PCB-194	pg/L			DNQ Est. Conc. 17 (2)	ND	DNQ Est. Conc. 17 (2)	EPA 1668C		1.2	200
PCB-20/28	pg/L			DNQ Est. Conc. 130 (1)	ND	DNQ Est. Conc. 130 (1)	EPA 1668C		5.6	410
PCB-201	pg/L			DNQ Est. Conc. 3.8 (2)	ND	DNQ Est. Conc. 3.8 (2)	EPA 1668C		0.49	200
PCB-206	pg/L			DNQ Est. Conc. 12	ND	DNQ Est. Conc. 12	EPA 1668C		1.3	200
PCB-37	pg/L			DNQ Est. Conc. 36	ND	DNQ Est. Conc. 36	EPA 1668C		6.4	200
PCB-44/47/65	pg/L			DNQ Est. Conc. 250 (1)	ND	DNQ Est. Conc. 250 (1)	EPA 1668C		4.1	610
PCB-49/69	pg/L			DNQ Est. Conc. 71	ND	DNQ Est. Conc. 71	EPA 1668C		3.7	410
PCB-52	pg/L			280 (1)	280 (1)	280 (1)	EPA 1668C		4.2	200
PCB-61/70/74/76	pg/L			DNQ Est. Conc. 240 (1)	ND	DNQ Est. Conc. 240 (1)	EPA 1668C		2.2	810
PCB-66	pg/L			DNQ Est. Conc. 85	ND	DNQ Est. Conc. 85	EPA 1668C		2.0	200
PCB-77	pg/L			DNQ Est. Conc. 13	ND	DNQ Est. Conc. 13	EPA 1668C		2.6	20
PCB-81	pg/L			ND	ND	ND	EPA 1668C		2.7	20
PCB-86/87/97/108/119	pg/L			DNQ Est. Conc. 190	ND	DNQ Est. Conc. 190	EPA 1668C		4.3	1200
PCB-99	pg/L			DNQ Est. Conc. 91	ND	DNQ Est. Conc. 91	EPA 1668C		4.0	200
PCBs, Sum as Aroclors	pg/L			ND	ND	ND	Calculated			
PCBs, Sum as Congeners	pg/L			554 (1)	554 (1)	554 (1)	Calculated			
Pentachlorophenol	ug/L			ND	ND	ND	EPA 625.1	5	0.82	10.0 - 20.0
pH	SU	7.8	7.6	7.4	7.6	7.8	SM 4500 H+ B			
Phenanthrene	ug/L			ND	ND	ND	EPA 625.1	5	0.59	10.0 - 20.0
Phenol	ug/L			23.5	23.9	24.3	EPA 625.1	1	0.24	10.0 - 20.0
Pyrene	ug/L			ND	ND	ND	EPA 625.1	10	0.60	10.0 - 20.0
Selenium	ug/L	1.14	1.09	1.06	1.20	1.47	EPA 200.8	2	0.04	1.00
Silver	ug/L			DNQ Est. Conc. 0.15	0.10	0.20	EPA 200.8	0.25	0.02	0.20
Temperature	Degrees F	74.4	72.3	72.3	78.0	80.9	EPA 170.1 (oF)			
Tetrachloroethene	ug/L			ND	ND	ND	EPA 624.1	2	0.16 - 0.18	0.50

Table 4.3
Valencia Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Thallium	ug/L	ND						ND			
Toluene	ug/L	DNQ Est. Conc. 0.48						0.98			
Total cyanide	ug/L	DNQ Est. Conc. 2.53						DNQ Est. Conc. 2.98	ND	ND	ND
Total suspended solids	mg/L	461	583	382	419	321	456	494	467	326	383
Total trihalomethanes	ug/L	3.4						1.0	1.9	3.1	3.3
Toxaphene	ug/L	ND						ND			
Toxic equivalence	pg/L							0.18			0.16
trans-1,2-Dichloroethene	ug/L	ND						ND			
Trichloroethene	ug/L	ND						ND			
Vinyl chloride	ug/L	ND						ND			
Zinc	ug/L	105						159			

Table 4.3
Valencia Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	Method	ML	MDL	RL
Thallium	ug/L			ND	ND	ND	EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L			DNQ Est. Conc. 0.48	0.49	0.98	EPA 624.1	2	0.04 - 0.15	0.50
Total cyanide	ug/L	ND	ND	ND	ND	DNQ Est. Conc. 2.98	SM 4500 CN E	5	2.00	5.00
Total suspended solids	mg/L	308	387	308	416	583	SM 2540D			50 - 100
Total trihalomethanes	ug/L	2.9	3.3	1.0	2.7	3.4	Calculated			
Toxaphene	ug/L			ND	ND	ND	EPA 608.3	0.5	0.05	5.0
Toxic equivalence	pg/L			0.16	0.17	0.18	Calculated			
trans-1,2-Dichloroethene	ug/L			ND	ND	ND	EPA 624.1	1	0.06 - 0.20	0.50
Trichloroethene	ug/L			ND	ND	ND	EPA 624.1	2	0.12 - 0.15	0.50
Vinyl chloride	ug/L			ND	ND	ND	EPA 624.1	2	0.25 - 0.37	0.50
Zinc	ug/L			105	132	159	EPA 200.8	1	0.92 - 0.95	1.00

(1) Blank Contamination observed.

(2) Possible interference observed. The measured ion ratio did not meet quantitative criteria for analysis and results are considered to be an estimated maximum possible concentration.

Valencia WRP Effluent Monitoring

Table 4.4
Valencia Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
1,1,1-Trichloroethane	ug/L	ND						ND			
1,1,2,2-Tetrachloroethane	ug/L	ND						ND			
1,1,2-Trichloroethane	ug/L	ND						ND			
1,1-Dichloroethane	ug/L	ND						ND			
1,1-Dichloroethene	ug/L	ND						ND			
1,2,3,4,6,7,8-HeptaCDD	pg/L	ND			ND			ND			ND
1,2,3,4,6,7,8-HeptaCDF	pg/L	ND			ND			ND			ND
1,2,3,4,7,8,9-HeptaCDF	pg/L	ND			ND			ND			ND
1,2,3,4,7,8-HexaCDD	pg/L	ND			DNQ Est. Conc. 5.7			ND			ND
1,2,3,4,7,8-HexaCDF	pg/L	ND			ND			ND			ND
1,2,3,6,7,8-HexaCDD	pg/L	ND			DNQ Est. Conc. 5.4			ND			ND
1,2,3,6,7,8-HexaCDF	pg/L	ND			ND			ND			ND
1,2,3,7,8,9-HexaCDD	pg/L	ND			ND			ND			ND
1,2,3,7,8,9-HexaCDF	pg/L	ND			ND			ND			DNQ Est. Conc. 0.77
1,2,3,7,8-PentaCDD	pg/L	ND			DNQ Est. Conc. 3.7			ND			ND
1,2,3,7,8-PentaCDF	pg/L	ND			DNQ Est. Conc. 3.4			ND			ND
1,2,3-Trichloropropane	ug/L	DNQ Est. Conc. 0.0014						ND			
1,2,4-Trichlorobenzene	ug/L	ND						ND			
1,2-Dichlorobenzene	ug/L	ND						ND			
1,2-Dichloroethane	ug/L	ND						ND			
1,2-Dichloropropane	ug/L	ND						ND			
1,2-Diphenylhydrazine	ug/L	ND						ND			
1,3-Dichlorobenzene	ug/L	ND						ND			
1,3-Dichloropropene (Total)	ug/L	ND						ND			
1,4-Dichlorobenzene	ug/L	ND						ND			
1,4-Dioxane	ug/L	0.61						0.43			
2,3,4,6,7,8-HexaCDF	pg/L	ND			ND			ND			ND
2,3,4,7,8-PentaCDF	pg/L	ND			DNQ Est. Conc. 2.9 (1)			ND			ND
2,3,7,8-TCDD	pg/L	ND			ND			ND			ND
2,3,7,8-TetraCDF	pg/L	ND			ND			ND			ND
2,4,6-Trichlorophenol	ug/L	ND						ND			
2,4-Dichlorophenol	ug/L	ND						ND			
2,4-Dimethylphenol	ug/L	ND						ND			
2,4-Dinitrophenol	ug/L	ND						ND			
2,4-Dinitrotoluene	ug/L	ND						ND			
2,6-Dinitrotoluene	ug/L	ND						ND			
2-Chloroethyl vinyl ether (mixed)	ug/L	ND						ND			
2-Chloronaphthalene	ug/L	ND						ND			
2-Chlorophenol	ug/L	ND						ND			
2-Methyl-4,6-dinitrophenol	ug/L	ND						ND			
2-Nitrophenol	ug/L	ND						ND			
3,3'-Dichlorobenzidine	ug/L	ND						ND			
3-Methyl-4-chlorophenol	ug/L	ND						ND			
4,4'-DDD	ug/L	ND						ND			
4,4'-DDE	ug/L	ND						ND			
4,4'-DDT	ug/L	ND						ND			
4-Bromophenyl phenyl ether	ug/L	ND						ND			
4-Chlorophenyl phenyl ether	ug/L	ND						ND			
4-Nitrophenol	ug/L	ND						ND			
Acenaphthene	ug/L	ND						ND			
Acenaphthylene	ug/L	ND						ND			
Acrolein	ug/L	ND						ND			
Acrylonitrile	ug/L	ND						ND			
Aldrin	ug/L	ND						ND			
alpha-BHC	ug/L	ND						ND			
Ammonia as nitrogen	mg/L	0.961	1.08	ND	0.298	0.884	0.623	0.210	0.172	0.143	0.288
Anthracene	ug/L	ND						ND			
Antimony	ug/L	0.52						0.66			
Aroclor 1016	ug/L	ND						ND			

Table 4.4
Valencia Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
1,1,1-Trichloroethane	ug/L			ND	ND	ND			EPA 624.1	2	0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L			ND	ND	ND			EPA 624.1	1	0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L			ND	ND	ND			EPA 624.1	2	0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L			ND	ND	ND			EPA 624.1	1	0.08 - 0.19	0.50
1,1-Dichloroethene	ug/L			ND	ND	ND			EPA 624.1	2	0.21	0.50
1,2,3,4,6,7,8-HeptaCDD	pg/L			ND	ND	ND			EPA 1613B		0.076 - 0.29	47 - 50
1,2,3,4,6,7,8-HeptaCDF	pg/L			ND	ND	ND			EPA 1613B		0.21 - 0.52	47 - 50
1,2,3,4,7,8,9-HeptaCDF	pg/L			ND	ND	ND			EPA 1613B		0.25 - 0.57	47 - 50
1,2,3,4,7,8-HexaCDD	pg/L			ND	ND	DNQ Est. Conc. 5.7			EPA 1613B		0.10 - 0.58	47 - 50
1,2,3,4,7,8-HexaCDF	pg/L			ND	ND	ND			EPA 1613B		0.047 - 0.48	47 - 50
1,2,3,6,7,8-HexaCDD	pg/L			ND	ND	DNQ Est. Conc. 5.4			EPA 1613B		0.11 - 0.59	47 - 50
1,2,3,6,7,8-HexaCDF	pg/L			ND	ND	ND			EPA 1613B		0.045 - 0.48	47 - 50
1,2,3,7,8,9-HexaCDD	pg/L			ND	ND	ND			EPA 1613B		0.099 - 0.52	47 - 50
1,2,3,7,8,9-HexaCDF	pg/L			ND	ND	DNQ Est. Conc. 0.77			EPA 1613B		0.060 - 0.49	47 - 50
1,2,3,7,8-PentaCDD	pg/L			ND	ND	DNQ Est. Conc. 3.7			EPA 1613B		0.26 - 1.0	47 - 50
1,2,3,7,8-PentaCDF	pg/L			ND	ND	DNQ Est. Conc. 3.4			EPA 1613B		0.10 - 0.56	47 - 50
1,2,3-Trichloropropane	ug/L			ND	ND	DNQ Est. Conc. 0.0014			EPA 524.2 (TCP)		0.0012	0.0050
1,2,4-Trichlorobenzene	ug/L			ND	ND	ND			EPA 625.1	5	0.51	1.0
1,2-Dichlorobenzene	ug/L			ND	ND	ND			EPA 624.1	2	0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L			ND	ND	ND			EPA 624.1	2	0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L			ND	ND	ND			EPA 624.1	1	0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L			ND	ND	ND			EPA 625.1	1	0.63	1.0
1,3-Dichlorobenzene	ug/L			ND	ND	ND			EPA 624.1	2	0.13 - 0.15	0.50
1,3-Dichloropropene (Total)	ug/L			ND	ND	ND			Calculated			
1,4-Dichlorobenzene	ug/L			ND	ND	ND			EPA 624.1	2	0.16 - 0.25	0.50
1,4-Dioxane	ug/L			0.43	0.52	0.61			SW-846 8270MOD 1,4-Dioxane		0.26	0.40
2,3,4,6,7,8-HexaCDF	pg/L			ND	ND	ND			EPA 1613B		0.048 - 0.43	47 - 50
2,3,4,7,8-PentaCDF	pg/L			ND	ND	DNQ Est. Conc. 2.9 (1)			EPA 1613B		0.11 - 0.61	47 - 50
2,3,7,8-TCDD	pg/L			ND	ND	ND	0.028	0.014	EPA 1613B		0.37 - 1.8	9.4 - 10
2,3,7,8-TetraCDF	pg/L			ND	ND	ND			EPA 1613B		0.087 - 0.61	9.4 - 10
2,4,6-Trichlorophenol	ug/L			ND	ND	ND			EPA 625.1	10	0.64	1.0
2,4-Dichlorophenol	ug/L			ND	ND	ND			EPA 625.1	5	0.60	1.0
2,4-Dimethylphenol	ug/L			ND	ND	ND			EPA 625.1	2	0.44	1.0
2,4-Dinitrophenol	ug/L			ND	ND	ND			EPA 625.1	5	1.5	5.0
2,4-Dinitrotoluene	ug/L			ND	ND	ND			EPA 625.1	5	0.37	1.0
2,6-Dinitrotoluene	ug/L			ND	ND	ND			EPA 625.1	5	0.50	1.0
2-Chloroethyl vinyl ether (mixed)	ug/L			ND	ND	ND			EPA 624.1	1	0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L			ND	ND	ND			EPA 625.1	10	0.41	1.0
2-Chlorophenol	ug/L			ND	ND	ND			EPA 625.1	5	0.41	1.0
2-Methyl-4,6-dinitrophenol	ug/L			ND	ND	ND			EPA 625.1	5	1.3	5.0
2-Nitrophenol	ug/L			ND	ND	ND			EPA 625.1	10	0.31	1.0
3,3'-Dichlorobenzidine	ug/L			ND	ND	ND			EPA 625.1	5	0.54	1.0
3-Methyl-4-chlorophenol	ug/L			ND	ND	ND			EPA 625.1	1	0.69	1.0
4,4'-DDD	ug/L			ND	ND	ND			EPA 608.3	0.05	0.003	0.01
4,4'-DDE	ug/L			ND	ND	ND			EPA 608.3	0.05	0.002	0.01
4,4'-DDT	ug/L			ND	ND	ND			EPA 608.3	0.01	0.004	0.01
4-Bromophenyl phenyl ether	ug/L			ND	ND	ND			EPA 625.1	5	0.58	1.0
4-Chlorophenyl phenyl ether	ug/L			ND	ND	ND			EPA 625.1	5	0.63	1.0
4-Nitrophenol	ug/L			ND	ND	ND			EPA 625.1	10	1.6	5.0
Acenaphthene	ug/L			ND	ND	ND			EPA 625.1	1	0.50	1.0
Acenaphthylene	ug/L			ND	ND	ND			EPA 625.1	10	0.50	1.0
Acrolein	ug/L			ND	ND	ND			EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L			ND	ND	ND			EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L			ND	ND	ND			EPA 608.3	0.005	0.002	0.005
alpha-BHC	ug/L			ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Ammonia as nitrogen	mg/L	0.399	0.185	ND	0.437	1.08	5.2	1.75	SM 4500 NH3 H		0.030 - 0.069	0.100
Anthracene	ug/L			ND	ND	ND			EPA 625.1	10	0.56	1.0
Antimony	ug/L			0.52	0.59	0.66			EPA 200.8	0.5	0.12	0.50
Aroclor 1016	ug/L			ND	ND	ND			EPA 608.3	0.5	0.1 - 0.12	0.50

Table 4.4
Valencia Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Aroclor 1221	ug/L	ND						ND			
Aroclor 1232	ug/L	ND						ND			
Aroclor 1242	ug/L	ND						ND			
Aroclor 1248	ug/L	ND						ND			
Aroclor 1254	ug/L	ND						ND			
Aroclor 1260	ug/L	ND						ND			
Arsenic	ug/L	DNQ Est. Conc. 0.59	DNQ Est. Conc. 0.61	DNQ Est. Conc. 0.62	DNQ Est. Conc. 0.99	DNQ Est. Conc. 0.71	DNQ Est. Conc. 0.83	DNQ Est. Conc. 0.49			DNQ Est. Conc. 0.42
Benzene	ug/L	ND						ND			
Benzidine	ug/L	ND						ND			
Benzo(a)anthracene	ug/L	ND						ND			
Benzo(a)pyrene	ug/L	DNQ Est. Conc. 0.016						ND			
Benzo(b)fluoranthene	ug/L	0.021						ND			
Benzo(g,h,i)perylene	ug/L	ND						ND			
Benzo(k)fluoranthene	ug/L	DNQ Est. Conc. 0.019						ND			
Beryllium	ug/L	ND						ND			
beta-BHC	ug/L	ND						ND			
bis(2-Chloroethoxy) methane	ug/L	ND						ND			
bis(2-Chloroethyl) ether	ug/L	ND						ND			
bis(2-Chloroisopropyl) ether	ug/L	ND						ND			
bis(2-Ethylhexyl) phthalate	ug/L	ND	ND	ND	ND	ND	ND	ND			ND
BOD	mg/L	4.2	ND	ND	ND	ND	4.1	ND	ND	ND	ND
Boron	mg/L	0.56	0.49	0.52	0.46	0.48	0.45	0.44	0.46	0.47	0.54
Bromodichloromethane	ug/L	1.9	2.4	1.1	0.77	6.8	4.8	2.1	2.8	4.2	11.4
Bromoform	ug/L	ND	ND	ND	ND	ND	DNQ Est. Conc. 0.33	ND	ND	ND	1.6
Butyl benzyl phthalate	ug/L	ND						ND			
Cadmium	ug/L	ND						ND			
Carbon tetrachloride	ug/L	ND						ND			
Chlordane	ug/L	ND						ND			
Chloride	mg/L	124	118	120	120	124	118	116	119	116	122
Chlorobenzene	ug/L	ND						ND			
Chloroethane	ug/L	ND						ND			
Chloroform	ug/L	4.7	4.3	1.8	1.8	8.0	6.0	3.6	4.9	4.9	10.2
Chlorpyrifos	ug/L	ND						ND			
Chromium III	ug/L	ND						ND			
Chromium VI	ug/L	DNQ Est. Conc. 0.02						0.07			
Chromium, total	ug/L	DNQ Est. Conc. 0.47						DNQ Est. Conc. 0.45			
Chrysene	ug/L	DNQ Est. Conc. 0.019						ND			
Copper	ug/L	1.70	1.82	1.79	2.02	1.62	1.42	1.12			2.59
delta-BHC	ug/L	ND						ND			
Di-n-butyl phthalate	ug/L	ND						ND			
Di-n-octyl phthalate	ug/L	ND						ND			
Diazinon	ug/L	ND						ND			
Dibenzo(a,h)anthracene	ug/L	DNQ Est. Conc. 0.017						ND			
Dibromochloromethane	ug/L	DNQ Est. Conc. 0.40	0.61	DNQ Est. Conc. 0.29	DNQ Est. Conc. 0.15	2.8	2.1	0.72	0.77	2.0	7.7
Dieldrin	ug/L	ND						ND			
Diethyl phthalate	ug/L	ND						ND			
Dimethyl phthalate	ug/L	ND						ND			
Dissolved oxygen	mg/L	8.0	8.6	7.4	7.2	7.6	7.1	7.2	6.9	6.9	7.4
E. coli	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	ug/L	ND						DNQ Est. Conc. 0.005			
Endosulfan II	ug/L	ND						ND			
Endosulfan sulfate	ug/L	ND						ND			
Endrin	ug/L	ND						ND			
Endrin aldehyde	ug/L	ND						ND			
Ethylbenzene	ug/L	ND						ND			
Fluoranthene	ug/L	ND						ND			
Fluorene	ug/L	ND						ND			
Fluoride	mg/L	0.297						0.302			
gamma-BHC	ug/L	ND						ND			

Table 4.4
Valencia Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
Aroclor 1221	ug/L			ND	ND	ND			EPA 608.3	0.5	0.1 - 0.12	0.50
Aroclor 1232	ug/L			ND	ND	ND			EPA 608.3	0.5	0.1 - 0.12	0.50
Aroclor 1242	ug/L			ND	ND	ND			EPA 608.3	0.5	0.1 - 0.12	0.50
Aroclor 1248	ug/L			ND	ND	ND			EPA 608.3	0.5	0.1 - 0.12	0.50
Aroclor 1254	ug/L			ND	ND	ND			EPA 608.3	0.5	0.1 - 0.12	0.50
Aroclor 1260	ug/L			ND	ND	ND			EPA 608.3	0.5	0.1 - 0.12	0.50
Arsenic	ug/L			DNQ Est. Conc. 0.42	ND	DNQ Est. Conc. 0.99			EPA 200.8	2	0.05 - 0.07	1.00
Benzene	ug/L			ND	ND	ND			EPA 624.1	2	0.06 - 0.09	0.50
Benzidine	ug/L			ND	ND	ND			EPA 625.1	5	0.77	5.0
Benzo(a)anthracene	ug/L			ND	ND	ND			EPA 625.1	5	0.46	1.0
Benzo(a)pyrene	ug/L			ND	ND	DNQ Est. Conc. 0.016			EPA 610	10	0.013	0.020
Benzo(b)fluoranthene	ug/L			ND	0.011	0.021			EPA 610	10	0.015	0.020
Benzo(g,h,i)perylene	ug/L			ND	ND	ND			EPA 625.1	5	0.52	1.0
Benzo(k)fluoranthene	ug/L			ND	ND	DNQ Est. Conc. 0.019			EPA 610	10	0.014	0.020
Beryllium	ug/L			ND	ND	ND			EPA 200.8	0.5	0.023 - 0.026	0.25
beta-BHC	ug/L			ND	ND	ND			EPA 608.3	0.005	0.003	0.005
bis(2-Chloroethoxy) methane	ug/L			ND	ND	ND			EPA 625.1	5	0.28	1.0
bis(2-Chloroethyl) ether	ug/L			ND	ND	ND			EPA 625.1	1	0.27	1.0
bis(2-Chloroisopropyl) ether	ug/L			ND	ND	ND			EPA 625.1	2	0.25	1.0
bis(2-Ethylhexyl) phthalate	ug/L			ND	ND	ND		4 (2)	EPA 625.1	5	0.55	1.0
BOD	mg/L	ND	ND	ND	0.69	4.2	45	20	SM 5210B			3
Boron	mg/L	0.53	0.53	0.44	0.49	0.56		1.5	EPA 200.8		0.008 - 0.013	0.020
Bromodichloromethane	ug/L	10.2	3.2	0.77	4.3	11.4			EPA 624.1	2	0.11 - 0.15	0.50
Bromoform	ug/L	1.0	DNQ Est. Conc. 0.21	ND	0.22	1.6			EPA 624.1	2	0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L			ND	ND	ND			EPA 625.1	10	0.58	1.0
Cadmium	ug/L			ND	ND	ND			EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L			ND	ND	ND			EPA 624.1	2	0.18 - 0.34	0.50
Chlordane	ug/L			ND	ND	ND			EPA 608.3	0.1	0.02	0.05
Chloride	mg/L	112	119	112	119	124	230	(3)	EPA 300.0		0.024 - 0.144	10.0
Chlorobenzene	ug/L			ND	ND	ND			EPA 624.1	2	0.07 - 0.10	0.50
Chloroethane	ug/L			ND	ND	ND			EPA 624.1	2	0.22 - 0.31	0.50
Chloroform	ug/L	9.0	4.4	1.8	5.3	10.2			EPA 624.1	2	0.08 - 0.35	0.50
Chlorpyrifos	ug/L			ND	ND	ND			SW-846 8141A		0.0026	0.050
Chromium III	ug/L			ND	ND	ND			Calculated			
Chromium VI	ug/L			DNQ Est. Conc. 0.02	0.04	0.07			EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total	ug/L			DNQ Est. Conc. 0.45	ND	DNQ Est. Conc. 0.47			EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L			ND	ND	DNQ Est. Conc. 0.019			EPA 610	10	0.014	0.020
Copper	ug/L			1.12	1.76	2.59	39 (2)	12 (2)	EPA 200.8	0.5	0.12 - 0.14	0.50
delta-BHC	ug/L			ND	ND	ND			EPA 608.3	0.005	0.003	0.005
Di-n-butyl phthalate	ug/L			ND	ND	ND			EPA 625.1	10	0.59	1.0
Di-n-octyl phthalate	ug/L			ND	ND	ND			EPA 625.1	10	0.69	1.0
Diazinon	ug/L			ND	ND	ND			SW-846 8141A		0.0035	0.020
Dibenzo(a,h)anthracene	ug/L			ND	ND	DNQ Est. Conc. 0.017			EPA 610	10	0.014	0.020
Dibromochloromethane	ug/L	5.6	1.2	DNQ Est. Conc. 0.15	2.0	7.7			EPA 624.1	2	0.11 - 0.13	0.50
Dieldrin	ug/L			ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Diethyl phthalate	ug/L			ND	ND	ND			EPA 625.1	2	0.42	1.0
Dimethyl phthalate	ug/L			ND	ND	ND			EPA 625.1	2	0.41	1.0
Dissolved oxygen	mg/L	6.2	7.6	6.2	7.3	8.7			HACH 10360 LDO			0.2
E. coli	No./100mL	ND	ND	ND	ND	ND			SM 9223 Quanti-Tray			1
Endosulfan I	ug/L			ND	ND	DNQ Est. Conc. 0.005			EPA 608.3	0.02	0.003	0.01
Endosulfan II	ug/L			ND	ND	ND			EPA 608.3	0.01	0.004	0.01
Endosulfan sulfate	ug/L			ND	ND	ND			EPA 608.3	0.05	0.004	0.01
Endrin	ug/L			ND	ND	ND			EPA 608.3	0.01	0.004	0.01
Endrin aldehyde	ug/L			ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Ethylbenzene	ug/L			ND	ND	ND			EPA 624.1	2	0.11 - 0.15	0.50
Fluoranthene	ug/L			ND	ND	ND			EPA 625.1	1	0.69	1.0
Fluorene	ug/L			ND	ND	ND			EPA 625.1	10	0.58	1.0
Fluoride	mg/L			0.297	0.300	0.302			SM 4500 F C		0.040	0.100
gamma-BHC	ug/L			ND	ND	ND			EPA 608.3	0.02	0.003	0.01

Table 4.4
Valencia Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Gross alpha radioactivity	pCi/L	0.468						-0.244			
Gross beta radioactivity	pCi/L	24.6						9.92			
Heptachlor	ug/L	ND						ND			
Heptachlor epoxide	ug/L	ND						ND			
Hexachlorobenzene	ug/L	ND						ND			
Hexachlorobutadiene	ug/L	ND						ND			
Hexachlorocyclopentadiene	ug/L	ND						ND			
Hexachloroethane	ug/L	ND						ND			
Indeno (1,2,3-cd) pyrene	ug/L	DNQ Est. Conc. 0.017						ND			
Iron	ug/L	85.7	75.2	92.9	84.3	128	78.7	117	139	137	180
Isophorone	ug/L	ND						ND			
Lead	ug/L	DNQ Est. Conc. 0.03						DNQ Est. Conc. 0.03			
Mercury	ug/L	0.016	0.0024	0.0018	0.022	0.0050		0.013	0.0028		0.0030
Methyl bromide (Bromomethane)	ug/L	ND						ND			
Methyl chloride (Chloromethane)	ug/L	ND						ND			
Methyl tert-butyl ether (MTBE)	ug/L	ND						ND			
Methylene chloride	ug/L	ND						ND			
n-Nitrosodi-n-propylamine	ug/L	ND / ND						ND			
n-Nitrosodimethylamine (NDMA)	ug/L	ND / 0.02						ND			
n-Nitrosodiphenylamine	ug/L	ND / ND						ND			
Naphthalene	ug/L	ND						ND			
Nickel	ug/L	2.26			2.25			2.09			
Nitrate + nitrite as nitrogen	mg/L	2.72	4.54	4.38	4.21	4.49	4.32	3.35	3.20	3.29	3.38
Nitrate as nitrogen	mg/L	2.69	4.46	4.31	4.02	4.36	4.15	3.21	3.06	3.15	3.19
Nitrite as nitrogen	mg/L	ND	0.080	0.066	0.194	0.126	0.167	0.144	0.138	0.141	0.186
Nitrobenzene	ug/L	ND						ND			
OctaCDD	pg/L	ND			ND			ND			ND
OctaCDF	pg/L	ND			ND			ND			ND
Oil and grease	mg/L	DNQ Est. Conc. 1.8						ND			ND
Organic nitrogen	mg/L	0.949	1.04	1.45	0.812	0.986	1.29	1.31	0.690	1.12	0.902
Orthophosphate-P	mg/L	0.479			3.07			0.525			0.740
PCB-101 (Co: 90/101/113)	pg/L							DNQ Est. Conc. 6.1 (1)			
PCB-105	pg/L							ND			
PCB-110/115	pg/L							DNQ Est. Conc. 7.8			
PCB-114	pg/L							ND			
PCB-118	pg/L							DNQ Est. Conc. 3.6 (1)			
PCB-123	pg/L							ND			
PCB-126	pg/L							ND			
PCB-128/166	pg/L							ND			
PCB-135/151	pg/L							ND			
PCB-138 (Co: 129/138/163)	pg/L							ND			
PCB-147/149	pg/L							DNQ Est. Conc. 3.0			
PCB-153/168	pg/L							ND			
PCB-156/157	pg/L							ND			
PCB-158	pg/L							ND			
PCB-167	pg/L							ND			
PCB-169	pg/L							ND			
PCB-170	pg/L							ND			
PCB-177	pg/L							ND			
PCB-18/30	pg/L							DNQ Est. Conc. 6.2			
PCB-180/193	pg/L							ND			
PCB-183	pg/L							ND			
PCB-187	pg/L							ND			
PCB-189	pg/L							ND			
PCB-194	pg/L							ND			
PCB-20/28	pg/L							ND			
PCB-201	pg/L							ND			
PCB-206	pg/L							ND			
PCB-37	pg/L							DNQ Est. Conc. 2.0			

Table 4.4
Valencia Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
Gross alpha radioactivity	pCi/L			-0.244	0.234	0.468	15		EPA 900.0		3.14 - 3.29	3.0
Gross beta radioactivity	pCi/L			9.92	17.3	24.6		50 (4)	EPA 900.0		1.04 - 1.09	4.0
Heptachlor	ug/L			ND	ND	ND			EPA 608.3	0.01	0.002	0.01
Heptachlor epoxide	ug/L			ND	ND	ND			EPA 608.3	0.01	0.003	0.01
Hexachlorobenzene	ug/L			ND	ND	ND			EPA 625.1	1	0.47	1.0
Hexachlorobutadiene	ug/L			ND	ND	ND			EPA 625.1	1	0.96	1.0
Hexachlorocyclopentadiene	ug/L			ND	ND	ND			EPA 625.1	5	2.0	5.0
Hexachloroethane	ug/L			ND	ND	ND			EPA 625.1	1	0.81	1.0
Indeno (1,2,3-cd) pyrene	ug/L			ND	ND	DNQ Est. Conc. 0.017			EPA 610	10	0.013	0.020
Iron	ug/L	109	80.2	75.2	109	180		300	EPA 200.8		5.7 - 8.8	20.0
Isophorone	ug/L			ND	ND	ND			EPA 625.1	0.5	0.28	1.0
Lead	ug/L			DNQ Est. Conc. 0.03	ND	DNQ Est. Conc. 0.03			EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L			0.0018	0.0082	0.022			EPA 1631E		0.00010	0.00050
Methyl bromide (Bromomethane)	ug/L			ND	ND	ND			EPA 624.1	2	0.27 - 0.30	0.50
Methyl chloride (Chloromethane)	ug/L			ND	ND	ND			EPA 624.1	2	0.19 - 0.41	0.50
Methyl tert-butyl ether (MTBE)	ug/L			ND	ND	ND			EPA 624.1		0.08 - 0.40	0.50
Methylene chloride	ug/L			ND	ND	ND			EPA 624.1	2	0.16 - 0.46	0.50
n-Nitrosodi-n-propylamine	ug/L			ND / ND	ND / ND	ND / ND			EPA 625.1 & EPA 1625C	5	0.0006 - 0.36	0.010 - 1.0
n-Nitrosodimethylamine (NDMA)	ug/L			ND / ND	ND / 0.01	ND / 0.02			EPA 625.1 & EPA 1625C	5	0.0005 - 0.50	0.010 - 5.0
n-Nitrosodiphenylamine	ug/L			ND / ND	ND / ND	ND / ND			EPA 625.1 & EPA 1625C	1	0.0013 - 0.64	0.050 - 1.0
Naphthalene	ug/L			ND	ND	ND			EPA 625.1	1	0.20	1.0
Nickel	ug/L			2.09	2.20	2.26			EPA 200.8	1	0.08 - 0.50	1.00
Nitrate + nitrite as nitrogen	mg/L	3.39	3.44	2.72	3.73	4.54		6.8	SM 4500 NO3 F		0.079	0.230
Nitrate as nitrogen	mg/L	3.11	3.02	2.69	3.56	4.46		6.8	Calculated			
Nitrite as nitrogen	mg/L	0.282	0.418	ND	0.162	0.418		0.9	SM 4500 NO3 F		0.012 - 0.018	0.030
Nitrobenzene	ug/L			ND	ND	ND			EPA 625.1	1	0.31	1.0
OctaCDD	pg/L			ND	ND	ND			EPA 1613B		0.21 - 0.74	94 - 100
OctaCDF	pg/L			ND	ND	ND			EPA 1613B		0.44 - 1.0	94 - 100
Oil and grease	mg/L			ND	ND	DNQ Est. Conc. 1.8	15	10	EPA 1664A		1.0 - 2.1	5.6 - 6.8
Organic nitrogen	mg/L	0.711	0.631	0.631	0.991	1.45			Calculated			
Orthophosphate-P	mg/L			0.479	1.20	3.07			SM4500-P G		0.010	0.030
PCB-101 (Co: 90/101/113)	pg/L			DNQ Est. Conc. 6.1 (1)	ND	DNQ Est. Conc. 6.1 (1)			EPA 1668C		1.3	610
PCB-105	pg/L			ND	ND	ND			EPA 1668C		0.99	20
PCB-110/115	pg/L			DNQ Est. Conc. 7.8	ND	DNQ Est. Conc. 7.8			EPA 1668C		1.0	410
PCB-114	pg/L			ND	ND	ND			EPA 1668C		1.1	20
PCB-118	pg/L			DNQ Est. Conc. 3.6 (1)	ND	DNQ Est. Conc. 3.6 (1)			EPA 1668C		0.96	20
PCB-123	pg/L			ND	ND	ND			EPA 1668C		1.1	20
PCB-126	pg/L			ND	ND	ND			EPA 1668C		1.2	20
PCB-128/166	pg/L			ND	ND	ND			EPA 1668C		0.81	410
PCB-135/151	pg/L			ND	ND	ND			EPA 1668C		0.86	410
PCB-138 (Co: 129/138/163)	pg/L			ND	ND	ND			EPA 1668C		0.84	610
PCB-147/149	pg/L			DNQ Est. Conc. 3.0	ND	DNQ Est. Conc. 3.0			EPA 1668C		0.84	410
PCB-153/168	pg/L			ND	ND	ND			EPA 1668C		0.68	410
PCB-156/157	pg/L			ND	ND	ND			EPA 1668C		0.51	41
PCB-158	pg/L			ND	ND	ND			EPA 1668C		0.63	200
PCB-167	pg/L			ND	ND	ND			EPA 1668C		0.39	20
PCB-169	pg/L			ND	ND	ND			EPA 1668C		0.47	20
PCB-170	pg/L			ND	ND	ND			EPA 1668C		0.73	200
PCB-177	pg/L			ND	ND	ND			EPA 1668C		0.63	200
PCB-18/30	pg/L			DNQ Est. Conc. 6.2	ND	DNQ Est. Conc. 6.2			EPA 1668C		1.1	410
PCB-180/193	pg/L			ND	ND	ND			EPA 1668C		0.56	410
PCB-183	pg/L			ND	ND	ND			EPA 1668C		0.53	200
PCB-187	pg/L			ND	ND	ND			EPA 1668C		0.48	200
PCB-189	pg/L			ND	ND	ND			EPA 1668C		0.54	20
PCB-194	pg/L			ND	ND	ND			EPA 1668C		0.48	200
PCB-20/28	pg/L			ND	ND	ND			EPA 1668C		1.2	410
PCB-201	pg/L			ND	ND	ND			EPA 1668C		0.35	200
PCB-206	pg/L			ND	ND	ND			EPA 1668C		0.77	200
PCB-37	pg/L			DNQ Est. Conc. 2.0	ND	DNQ Est. Conc. 2.0			EPA 1668C		1.1	200

Table 4.4
Valencia Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
PCB-44/47/65	pg/L							ND			
PCB-49/69	pg/L							DNQ Est. Conc. 3.4			
PCB-52	pg/L							DNQ Est. Conc. 13 (5)			
PCB-61/70/74/76	pg/L							ND			
PCB-66	pg/L							DNQ Est. Conc. 3.6 (1)			
PCB-77	pg/L							ND			
PCB-81	pg/L							ND			
PCB-86/87/97/108/119	pg/L							DNQ Est. Conc. 6.2			
PCB-99	pg/L							ND			
PCBs, Sum as Aroclors	pg/L	ND						ND			
PCBs, Sum as Congeners	pg/L							ND			
Pentachlorophenol	ug/L	ND						ND			
Perchlorate	ug/L	ND						DNQ Est. Conc. 0.14			
pH	SU	7.3	7.3	7.3	7.2	7.2	7.3	7.4	7.4	7.4	7.4
Phenanthrene	ug/L	ND						ND			
Phenol	ug/L	ND						DNQ Est. Conc. 0.33			
Pyrene	ug/L	ND						ND			
Radium 226 + Radium 228	pCi/L	0.0924						0.684			
Selenium	ug/L	DNQ Est. Conc. 0.42	DNQ Est. Conc. 0.44	DNQ Est. Conc. 0.46	DNQ Est. Conc. 0.50	DNQ Est. Conc. 0.38	DNQ Est. Conc. 0.42	DNQ Est. Conc. 0.40	DNQ Est. Conc. 0.36	DNQ Est. Conc. 0.29	DNQ Est. Conc. 0.32
Settleable solids	mL/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ug/L	ND						ND			ND
Strontium-90	pCi/L	0.380						0.489			
Sulfate	mg/L	173	169	175	178	174	169	176	177	179	181
Surfactant (CTAS)	mg/L	DNQ Est. Conc. 0.08			ND			ND			ND
Surfactant (MBAS)	mg/L	DNQ Est. Conc. 0.03			0.12			DNQ Est. Conc. 0.09			DNQ Est. Conc. 0.08
Temperature	Degrees F	70.8	71.5	72.6	75.0	77.5	80.7	83.8	86.3	86.4	83.2
Tetrachloroethene	ug/L	ND						ND			
Thallium	ug/L	ND						ND			
Toluene	ug/L	DNQ Est. Conc. 0.43						ND			
Total coliform	No./100mL	ND	ND	ND	ND	ND	ND	1	ND	1	ND
Total cyanide	ug/L	ND	DNQ Est. Conc. 1.96	DNQ Est. Conc. 2.10	DNQ Est. Conc. 1.60	DNQ Est. Conc. 4.00	DNQ Est. Conc. 3.90	DNQ Est. Conc. 1.81	DNQ Est. Conc. 2.65	ND	DNQ Est. Conc. 1.72
Total dissolved solids	mg/L	687	679	682	711	677	764	656	705	626	669
Total hardness (CaCO3)	mg/L	231	237	245	233	227	232	237	226	219	238
Total Kjeldahl Nitrogen (TKN)	mg/L	1.91	2.12	1.53	1.11	1.87	1.91	1.52	0.862	1.26	1.19
Total nitrogen	mg/L	4.63	6.66	5.91	5.32	6.36	6.23	4.87	4.06	4.55	4.57
Total phosphorus	mg/L	0.522			3.15			0.587			
Total residual chlorine	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	DNQ Est. Conc. 0.03	DNQ Est. Conc. 0.03
Total suspended solids	mg/L	ND	ND	ND	2.7	ND	ND	ND	ND	ND	ND
Total trihalomethanes	ug/L	6.6	7.3	2.9	2.6	17.6	12.9	6.4	8.5	11.1	30.9
Toxaphene	ug/L	ND						ND			
Toxic equivalence	pg/L	ND			ND			ND			ND
trans-1,2-Dichloroethene	ug/L	ND						ND			
Trichloroethene	ug/L	ND						ND			
Tritium	pCi/L	-104						36.5			
Turbidity (flow proportioned avg daily value)	NTU	0.60	0.63	0.80	1.1	0.93	1.0	0.95	0.95	1.0	1.1
Uranium	pCi/L	1.11						0.745			
Vinyl chloride	ug/L	ND						ND			
Zinc	ug/L	25.2			26.8			16.6			21.7

Table 4.4
Valencia Water Reclamation Plant
2022 EFF-001 Monitoring Results

Parameter	Units	November 2022	December 2022	Minimum	Average	Maximum	NPDES Limit		Method	ML	MDL	RL
							Max Daily	Monthly Average				
PCB-44/47/65	pg/L			ND	ND	ND			EPA 1668C		1.3	610
PCB-49/69	pg/L			DNQ Est. Conc. 3.4	ND	DNQ Est. Conc. 3.4			EPA 1668C		1.1	410
PCB-52	pg/L			DNQ Est. Conc. 13 (5)	ND	DNQ Est. Conc. 13 (5)			EPA 1668C		1.3	200
PCB-61/70/74/76	pg/L			ND	ND	ND			EPA 1668C		0.86	820
PCB-66	pg/L			DNQ Est. Conc. 3.6 (1)	ND	DNQ Est. Conc. 3.6 (1)			EPA 1668C		0.82	200
PCB-77	pg/L			ND	ND	ND			EPA 1668C		0.94	20
PCB-81	pg/L			ND	ND	ND			EPA 1668C		1.0	20
PCB-86/87/97/108/119	pg/L			DNQ Est. Conc. 6.2	ND	DNQ Est. Conc. 6.2			EPA 1668C		1.2	1200
PCB-99	pg/L			ND	ND	ND			EPA 1668C		1.1	200
PCBs, Sum as Aroclors	pg/L			ND	ND	ND			Calculated			
PCBs, Sum as Congeners	pg/L			ND	ND	ND			Calculated			
Pentachlorophenol	ug/L			ND	ND	ND			EPA 625.1	5	0.82	1.0
Perchlorate	ug/L			ND	ND	DNQ Est. Conc. 0.14			EPA 331.0		0.086 - 0.10	0.50
pH	SU	7.3	7.3	7.2	7.3	7.4	(6)		SM 4500 H+ B			
Phenanthrene	ug/L			ND	ND	ND			EPA 625.1	5	0.59	1.0
Phenol	ug/L			ND	ND	DNQ Est. Conc. 0.33			EPA 625.1	1	0.24	1.0
Pyrene	ug/L			ND	ND	ND			EPA 625.1	10	0.60	1.0
Radium 226 + Radium 228	pCi/L			0.0924	0.388	0.684	5		Calculated			
Selenium	ug/L	DNQ Est. Conc. 0.40	DNQ Est. Conc. 0.38	DNQ Est. Conc. 0.29	ND	DNQ Est. Conc. 0.50	6.8	4.5	EPA 200.8	2	0.04	1.00
Settleable solids	mL/L	ND	ND	ND	ND	ND	0.3	0.1	SM 2540F			0.1
Silver	ug/L			ND	ND	ND			EPA 200.8	0.25	0.02	0.20
Strontium-90	pCi/L			0.380	0.435	0.489	8		EPA 905.0		0.674 - 0.736	3.0
Sulfate	mg/L	184	180	169	176	184		400	EPA 300.0		0.040 - 0.161	2.50
Surfactant (CTAS)	mg/L			ND	ND	DNQ Est. Conc. 0.08			SM 5540D		0.08	0.10
Surfactant (MBAS)	mg/L			DNQ Est. Conc. 0.03	0.030	0.12		0.5	SM 5540C		0.02 - 0.05	0.10
Temperature	Degrees F	77.7	73.9	70.8	78.3	86.4	(7)		EPA 170.1 (oF)			
Tetrachloroethene	ug/L			ND	ND	ND			EPA 624.1	2	0.16 - 0.18	0.50
Thallium	ug/L			ND	ND	ND			EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L			ND	ND	DNQ Est. Conc. 0.43			EPA 624.1	2	0.04 - 0.15	0.50
Total coliform	No./100mL	ND	ND	ND	0.2	1	(8)	(8)	SM 9221B & SM 9222B			1
Total cyanide	ug/L	DNQ Est. Conc. 3.29	ND	ND	ND	DNQ Est. Conc. 4.00	7.0 (2) / 8.1 (9)	4.7 (2) / 4.4 (9)	SM 4500 CN E	5	1.00 - 2.90	5.00
Total dissolved solids	mg/L	584	694	584	678	764		1,000	SM 2540C			25.0
Total hardness (CaCO3)	mg/L	255	246	219	236	255			Calculated			
Total Kjeldahl Nitrogen (TKN)	mg/L	1.11	0.816	0.816	1.43	2.12			EPA 351.2		0.132	0.200
Total nitrogen	mg/L	4.50	4.26	4.06	5.16	6.66			Total Nitrogen Calculation			
Total phosphorus	mg/L			0.522	1.42	3.15			SM4500-P H		0.015	0.030
Total residual chlorine	mg/L	ND	DNQ Est. Conc. 0.02	ND	ND	DNQ Est. Conc. 0.03	0.1		SM 4500 Cl G		0.020 - 0.024	0.10
Total suspended solids	mg/L	ND	ND	ND	0.23	2.7	45	15	SM 2540D			2.5
Total trihalomethanes	ug/L	25.8	8.8	2.6	12	30.9		80	Calculated			
Toxaphene	ug/L			ND	ND	ND			EPA 608.3	0.5	0.05	0.5
Toxic equivalence	pg/L			ND	ND	ND			Calculated			
trans-1,2-Dichloroethene	ug/L			ND	ND	ND			EPA 624.1	1	0.06 - 0.20	0.50
Trichloroethene	ug/L			ND	ND	ND			EPA 624.1	2	0.12 - 0.15	0.50
Tritium	pCi/L			-104	18.2	36.5	20,000		EPA 906.0		310 - 408	500
Turbidity (flow proportioned avg daily value)	NTU	0.87	0.97	0.60	0.91	1.1	2		SM 2130B		0.12	0.50
Uranium	pCi/L			0.745	0.928	1.11	20		EPA 908.0		0.0935 - 0.162	1.0
Vinyl chloride	ug/L			ND	ND	ND			EPA 624.1	2	0.25 - 0.37	0.50
Zinc	ug/L			16.6	22.6	26.8			EPA 200.8	1	0.92 - 0.95	1.00

(1) Possible interference observed. The measured ion ratio did not meet qualitative criteria for analysis and results are considered to be an estimated maximum possible concentration.

(2) Limit was effective through June 30, 2022, as part of the Valencia WRP's previous NPDES Permit (R4-2015-0071).

(3) In 2022, the monthly TSO-based interim limit was equal to the monthly average chloride concentration in the treated water supply for the State Water Project plus 77 mg/L; compliance was based on the 12-month rolling average of the effluent chloride concentration. The NPDES-based limit is 100 mg/L as a three-month rolling average. See Chapter 1 for details.

(4) The gross beta radiation limit is 4 millirem/year with a screening level of 50 pCi/L.

(5) Blank Contamination observed.

(6) The pH of NPDES effluent shall be within the range of 6.5 to 8.5.

(7) The interim effluent temperature limit is 86°F except as a result of external ambient temperature.

(8) The number of total coliform bacteria shall not exceed 2.2/100mL as a 7-day median, 23/100mL in more than one sample within any 30-day period, and 240/100mL in any sample.

(9) Limit became effective on July 1, 2022, as part of the Valencia WRP's latest NPDES permit (R4-2022-0174).

Valencia WRP Biosolids Monitoring

NPDES ID: CAL054216
Biosolids Status: Active
Facility Name: LACSD - VALENCIA WRP
P.O. BOX 4998 WHITTIER, CA 90607-4998

View Annual Report

NPDES FORM 6100-035		UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 BIOSOLIDS ANNUAL REPORT	Form Approved. OMB No. 2040-0004. Exp. 03/31/2022

EPA's sewage sludge regulations require certain publicly owned treatment works (POTWs) and Class I sewage sludge management facilities to submit to a Sewage Sludge (Biosolids) Annual Report (see 40 CFR 503.18 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_118), 503.28 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_128), 503.48 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_148)). Facilities that must submit a Sewage Sludge (Biosolids) Annual Report include POTWs with a design flow rate equal to or greater than one million gallons per day, POTWs that serve 10,000 people or more, Class I Sludge Management Facilities (as defined by 40 CFR 503.9 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19)), and facilities otherwise required to file this report (e.g., permit condition, enforcement action, state law). This is the electronic form for Sewage Sludge (Biosolids) Annual Report filers to use if they are located in one of the states, tribes, or territories (https://www.epa.gov/npdes/npdes-state-program-information) where EPA administers the Federal biosolids program.

For the purposes of this form, the term 'sewage sludge (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19)' also refers to the material that is commonly referred to as 'biosolids'. EPA does not have a regulatory definition for biosolids but this material is commonly referred to as sewage sludge that is placed on, or applied to the land to use the beneficial properties of the material as a soil amendment, conditioner, or fertilizer. EPA's use of the term 'biosolids' in this form is to confirm that information about beneficially used sewage sludge (a.k.a. biosolids) should be reported on this form.

Public Availability of Information Submitted on and with General Permit Reports

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk (NPDESeReporting@epa.gov (mailto:NPDESereporting@epa.gov)) for further guidance.

Please note that EPA may contact you after you submit this report for more information regarding your sewage sludge management program.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with EPA regulations (40 CFR 503.18, 503.28, and 503.48). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 3 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden including through the use of automated collection techniques to the Director, Regulatory Support Division, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Program Information

Please select all of the following that apply to your obligation to submit a Sewage Sludge (Biosolids) Annual Report in compliance with 40 CFR part 503. The facility is:

- a Class I Sludge Management Facility as defined in 40 CFR 503.9
- a POTW with a design flow rate equal to or greater than one million gallons per day
- a POTW that serves 10,000 people or more

In the reporting period, did you manage your sewage sludge or biosolids using any of the following management practices: land application, surface disposal, or incineration?

☐ YES ☑ NO

Unless otherwise required to report (e.g., permit condition, enforcement action, state law), this facility is not required to submit a Sewage Sludge (Biosolids) Annual Report. If you are required to submit this report please select "Yes (Required to Submit)" below. If you wish to voluntarily complete and submit this report please select "Yes (Voluntary Submission)" below. Otherwise, please select "No (Exit Form)" to exit this form or simply close your internet browser. Please note that all Sewage Sludge (Biosolids) Annual Report submissions are made public by EPA through its web pages:

Yes (Required to Submit)

If your facility is a POTW, please provide the estimated total amount of sewage sludge produced at your facility for the reporting period (in dry metric tons). If your facility is not a POTW, please provide the estimated total amount of biosolids produced at your facility for the reporting period (in dry metric tons).

5094

Reporting Period Start Date: 01/01/2022 **Reporting Period End Date:** 12/31/2022

Treatment Processes

Processes to Significantly Reduce Pathogens (PSRP):
Anaerobic Digestion

Processes to Further Reduce Pathogens (PFRP):

Physical Treatment Options:
Preliminary Operations (e.g., sludge grinding, degritting, blending)
Thickening (e.g., Gravity and/or Flotation Thickening, Centrifugation, Belt Filter Press, Vacuum Filter, Screw Press)

Other Processes to Manage Sewage Sludge:
Methane or Biogas Capture and Recovery

Analytical Methods

Did you or your facility collect sewage sludge or biosolids samples for laboratory analysis? ☑ YES ☐ NO

Analytical Methods

- EPA Method 6020 - Arsenic (ICP-MS)
- EPA Method 6020 - Cadmium (ICP-MS)
- EPA Method 6020 - Copper (ICP-MS)
- EPA Method 6020 - Lead (ICP-MS)
- EPA Method 7471 - Mercury (CVAA)
- EPA Method 6020 - Molybdenum (ICP-MS)
- EPA Method 6020 - Nickel (ICP-MS)

- EPA Method 6020 - Selenium (ICP-MS)
- EPA Method 6020 - Zinc (ICP-MS)
- Standard Method 4500-NH3 - Ammonia Nitrogen
- Standard Method 4500-Norg - Organic Nitrogen
- Standard Method 2540 - Total Solids

Other Analytical Methods

- Other Nitrate Nitrogen Analytical Method
  Other Analytical Methods Text Area:
  SM 4500 NO3

- Other Total Kjeldahl Nitrogen Analytical Method
  Other Analytical Methods Text Area:
  SM 4500 NH3

Sludge Management - Land Application

Sludge Management - Surface Disposal

Sludge Management - Incineration

Sludge Management - Other Management Practice

ID: 001

Amount: 5094

Management Practice Detail: Disposal in a Municipal Landfill (under 40 CFR 258)

Handler, Preparer, or Applier Type: Off-Site Third-Party Handler or Applier

NPDES ID of handler:

Facility Information:
H.M. Holloway Landfill
13850 Holloway Road
Lost Hills, CA 93249
US

Contact Information:
Maneul Avalos
Mine Superintendent
661-431-2286
mavalos@hmholloway.com

Pathogen Class: Class B

Do you have any deficiencies to report for this SSUID? ☐ YES ☐ NO ☑ UNKNOWN

Additional Information

Please enter any additional information that you would like to provide in the comment box below.

Additional Attachments

Name	Created Date	Size
Valencia_NANI_Data_Summary-GS-AP-V3.pdf	01/30/2023 10:35 AM	223.79 KB

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

Certified By: Matthew J. Bao (MATTHEWBAO)

Certified On: 02/02/2023 1:23 PM

Notice and Necessary Information

To be Completed by Preparers of Class B Biosolids

Facility Name: Valencia Water Reclamation Plant **Monitoring Period:** 12/01/2022 to 12/31/2022

1. Pollutant and Nitrogen concentrations (report results in mg/kg on a 100% dry weight basis).

	As	Cd	Cu	Pb	Hg	Mo	Ni	Se	Zn	Org-N	NH_3-N	% solids
Result	5.78	0.80	889	6.77	1.41	13.0	20.8	7.08	822	66,700	9,420	11.8
Table 3	41	39	1,500	300	17	na	420	100	2,800	na	na	na
Table 1	75	85	4,300	840	57	75	420	100	7,500	na	na	na

Sampling date(s): 12/07/2022 / 12/08/2022 **Sample Number(s):** 22120700481/22120800353

2. Class B Pathogen Reduction: (Check off and fill in applicable portion)

√ anaerobic digestion for 38 days at 37.0 °C (98.7 °F) (range for past month)
Class B: either 15 days at 35°C to 55°C or 60 days at 20°C
___ aerobic digestion for ____to ____ days at _____to ____ degrees F / C (range for past month)
Class B: time (days) ≥ 20 - 15(temp, degrees C) for times between 40 and 60 days
___ drying beds for ____to_____ months (attach records of dates in and out)
Class B: time > 3 months; 2 months > 0 degrees C
___ fecal coliform: geometric mean of seven samples = _____ (attach lab results)
Class B: geometric mean of seven samples is < 2,000,000 mpn
___ lime stabilization: pH at 2 hours after addition = _____
Class B: pH 2 hours after addition of lime is ≥ 12

3. Vector Attraction Reduction:

√ Option 1: % VS_{in} = 90 %VS_{out} = 76 %VSR = 62 per Van Kleeck method
VAR: VSR > 38%
____ Option 2/3: Bench scale test: % VSR = _____ after ____ days
VAR: additional VSR < 17% after 40 days (anaerobic), < 15% after 30 days (aerobic)
____ Option 4: SOUR = _____
VAR: SOUR < 1.5 mg O_2/hr/gram (dry weight)
____ Option 5: Composted _____ days at temps of _____ to _____degrees F/C (attach times/temps)
VAR: temp > 40 degrees C for 14 days, w/5 days > 45 degrees C
____ Option 6: time alkali added: _____ pH after 2 hours = ___ pH after 22 hours = ___
VAR: pH ≥ 12 for 2 hours after alkali addition, ≥ 11.5 for additional 22 hrs
____ Option 7: % solids = _____ Stabilization method: _____
VAR: stabilized solids > 75%
____ Option 8: % solids = _____
VAR: unstabilized solids > 90%
____ Option 9/10: Applier will inject/incorporate within _____ hours
VAR: injection within 1 hour, incorporation within 6 hours

Certification: I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Official Title: Matthew J. Bao - Supervising Engineer

Phone: (562) 908-4288 Extension 2824 **E-mail:** mbao@lacsd.org

Signature: Matthew Bao **Date:** 1/30/23

2022 BIOSOLIDS MANAGEMENT PROGRAM
Valencia Water Reclamation Plant
mg/kg Dry Weight (unless otherwise noted)

Sample No.	Date	% TS	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn
22011200172	1/12/2022	20.7	4.96	0.57	19.2	727	5.96	0.50	9.45	16.9	5.02	647
22020900450	2/9/2022	22.1	4.96	0.62	-	802	5.99	0.38	9.65	16.5	5.27	695
22030200461	3/2/2022	22.9	4.63	0.68	-	748	6.44	0.57	9.87	17.1	5.01	654
22041300426	4/13/2022	19.9	5.61	0.77	13.7	776	6.55	0.53	10.5	15.8	5.21	726
22050400458	5/4/2022	16.2	5.96	0.81	-	837	10.7	1.47	11.2	16.5	5.81	769
22060800468	6/8/2022	18.2	5.41	0.75	-	788	7.98	< 0.11	10.3	16.3	5.44	736
22071300415	7/13/2022	20.4	5.46	0.80	16.5	805	7.11	0.39	10.5	18.7	5.53	760
22080300484	8/3/2022	21.7	3.84	0.67	-	567	4.89	2.71	8.53	12.8	4.20	564
22090700489	9/7/2022	23.4	5.12	0.94	-	800	7.27	0.52	12.0	18.8	5.92	806
22101200409	10/12/2022	17.4	5.08	0.76	14.7	771	7.79	0.38	12.2	19.3	6.66	743
22110200440	11/2/2022	16.3	4.14	0.88	-	820	6.77	0.36	10.8	17.6	5.62	758
22120700481	12/7/2023	11.8	5.78	0.80	-	889	6.77	1.41	13.0	20.8	7.08	822
MEAN		**19.3**	**5.08**	**0.75**	**16.0**	**778**	**7.0**	**0.84**	**10.7**	**17.3**	**5.56**	**723**
MAX			**5.96**	**0.94**	**19.2**	**889**	**10.7**	**2.71**	**13.0**	**20.8**	**7.08**	**822**
TABLE 1 LIMITS		****	**75**	**85**	****	**4,300**	**840**	**57**	**75**	**420**	**100**	**7,500**
TABLE 3 LIMITS		****	**41**	**39**	****	**1,500**	**300**	**17**	****	**420**	**100**	**2,800**

Sample No.	Date	% TS	NH_3-N	Org-N	NO_3-N	NO_2-N	PO_4	Boron	K	pH
22011200172	1/12/2022	20.7	10,500	60,400	< 9.66	22.6	93,400	35.1	1,660	8.2
22020900450	2/9/2022	22.1	8,820	66,500	12.6	9.39	91,100	-	-	-
22030200461	3/2/2022	22.9	11,400	66,500	< 8.73	4.96	110,000	-	-	-
22041300426	4/13/2022	19.9	7,440	63,400	34.2	5.1	127,000	34.4	1,550	8.5
22050400458 *	5/4/2022	16.2	16,000	46,000	24.0	12.0	76,600	-	-	-
22060800468	6/8/2022	18.2	3,400	13,000	11.7	4.53	96,800	-	-	-
22071300415	7/13/2022	20.4	19,000	45,000	25.9	5.29	127,000	39.6	1,610	8.4
22080300484	8/3/2022	21.7	10,100	59,800	23.8	7.63	104,000	-	-	-
22090700489	9/7/2022	23.4	7,220	55,400	20.6	4.91	90,700	-	-	-
22101200409**	10/12/2022	17.4	5,230	51,200	14.2	5.8	93,800	40.8	1,930	8.4
22110200440	11/2/2022	16.3	9,230	55,600	3.02	1.37	115,000	-	-	-
22120700481	12/7/2023	11.8	9,420	66,700	18.8	9.98	82,000	-	-	-
MEAN		**19.3**	**10,000**	**54,000**	**18.9**	**7.8**	**101,000**	**37.5**	**1,690**	**8.4**
MAX			**19,000**	**66,700**	**34.2**	**22.6**	**127,000**	**40.8**	**1,930**	**8.5**

\ = No limit

* = Ammonia as N and Organic N are in Lab ID: 22052700001

** = Org N and NH_3-N were resampled in December with Lab ID: 22120800353.

4th Quarter BIOSOLIDS MANAGEMENT PROGRAM
Valencia Biosolids Cake - Soluble Metals Concentrations - mg/L
Analyzed by California Title 22 Waste Extraction Test

Sample No.		Al	Sb	As	Ba	Be	Cd	Cr	Co	Cu
22011200174	1/12/2022	27.8	0.019	0.056	2.65	< 0.01	< 0.005	0.11	< 0.04	< 0.10
22041300429	4/13/2022	28.4	0.015	< 0.050	2.59	< 0.01	< 0.005	0.10	< 0.04	< 0.10
22071300418	1/0/1900	28.5	0.022	0.065	3.50	< 0.01	< 0.005	0.12	< 0.04	< 0.10
22101200412	10/12/2022	23.7	0.018	< 0.050	2.55	< 0.01	< 0.005	0.12	< 0.04	< 0.10
MEAN		**27.1**	**0.019**	**0.060**	**2.82**	**ND**	**ND**	**0.11**	**ND**	**ND**
MAX		**28.5**	**0.022**	**0.065**	**3.50**	**ND**	**ND**	**0.12**	**ND**	**ND**
TITLE 22 STLCs		****	**15**	**5.0**	**100**	**0.75**	**1.0**	**5**	**80**	**25**

Sample No.		Pb	Hg	Mo	Ni	Se	Ag	Tl	Sn	V	Zn
22011200174	1/12/2022	0.07	< 0.0005	0.08	< 1.00	< 0.02	< 0.02	< 0.04	< 0.04	0.64	7.7
22041300429	4/13/2022	0.04	< 0.0005	0.07	< 1.00	< 0.02	< 0.02	< 0.04	< 0.04	0.55	7.34
22071300418	7/13/2022	0.07	< 0.0025	0.09	< 1.00	< 0.02	< 0.02	< 0.04	< 0.04	0.59	9.61
22101200412	10/12/2022	0.03	< 0.0005	0.08	< 1.00	< 0.02	< 0.02	< 0.04	< 0.04	0.52	7.11
MEAN		**0.05**	**ND**	**0.08**	**ND**	**ND**	**ND**	**ND**	**ND**	**0.57**	**7.9**
MAX		**0.07**	**ND**	**0.09**	**ND**	**ND**	**ND**	**ND**	**ND**	**0.64**	**9.6**
TITLE 22 STLCs		**5.0**	**0.2**	**350**	**20**	**1.0**	**5**	**7.0**	****	**24**	**250**

\ = No limit

ND = Not Detected

2022 BIOSOLIDS MANAGEMENT PROGRAM

VALENCIA WATER RECLAMATION PLANT
Digester Performance

Month	Temp (°F)	Detention Time (Days)	VSD (%)
January	98.2	43	65
February	98.1	38	66
March	98.9	37	66
April	98.5	37	63
May	98.5	38	64
June	98.9	39	66
July	98.4	42	64
August	98.5	39	63
September	98.8	42	61
October	98.8	38	60
November	98.5	41	64
December	98.7	38	62
MEAN	**98.6**	**39**	**64**
MIN	**98.1**	**37**	**60**

Quarterly Valencia Biosolids Cake
Detected Priority Pollutants
mg/kg on a Dry Weight Basis

Date	1/12/2022	4/16/2022	7/13/2022	10/12/2022
Sample Number(s)	22011200172	22041300426	22071300415	22101200409
	22011200173	22041300428	22071300416	22101200410
		22060800470	22071300417	22101200411
Constituent	**Result**	**Result**	**Result**	**Result**
Total Cyanide	1.99	0.88	3.15	0.46
Total Chromium	19.2	13.7	16.5	14.7
Arsenic	4.96	5.61	5.46	5.08
Antimony	1.62	1.78	2.60	2.08
Beryllium	0.056	0.056	0.11	0.067
Cadmium	0.57	0.77	0.80	0.76
Copper	727	776	805	771
Lead	5.96	6.55	7.11	7.79
Mercury	0.50	0.53	0.39	0.38
Nickel	16.9	15.8	18.7	19.3
Selenium	5.02	5.21	5.53	6.66
Silver	2.34	2.52	3.24	2.77
Zinc	647	726	760	743
PP'-DDE	ND	ND	0.0098	ND
Dieldrin	0.031	ND	ND	ND
Endrin Aldehyde	0.011	ND	ND	ND
Toulene	ND	ND	ND	1.000
Phenol	ND	ND	100	100

ND = Non Detect

VALENCIA WATER RECLAMATION PLANT
2022 Biosolids Cake Quarterly 24-Hour Composite Samples (VOC's - Grab Samples)

Sample Number(s)	22011200172	22041300427	22071300415	22101200409	
	22011200173	22041300428	22071300416	22101200410	
	22011200386	22041300429	22071300417	22101200411	
	22020900452	22060800470			
		22061500464			
Sample Date	1/12/2022	4/13/2022	7/13/2022	10/12/2022	Dry Weight
Description	Result	Result	Result	Result	Unit of Measure
TOTAL CYANIDE	1.99	0.88	3.15	0.46	MG/KG
TOTAL CHROMIUM	19.2	13.7	16.5	14.7	MG/KG
TOTAL SOLIDS	20.7	19.9	20.4	17.4	%
ARSENIC	4.96	5.61	5.46	5.08	MG/KG
CADMIUM	0.57	0.77	0.80	0.76	MG/KG
COPPER	727	776	805	771	MG/KG
LEAD	5.96	6.55	7.11	7.79	MG/KG
MERCURY	0.50	0.53	0.39	0.38	MG/KG
NICKEL	16.9	15.8	18.7	19.3	MG/KG
SELENIUM	5.02	5.21	5.53	6.66	MG/KG
SILVER	2.34	2.52	3.24	2.77	MG/KG
ZINC	647	726	760	743	MG/KG
ANTIMONY	1.62	1.78	2.60	2.08	MG/KG
BERYLLIUM	0.056	0.065	0.11	0.067	MG/KG
THALLIUM	< 0.2	< 0.2	< 0.2	< 0.2	MG/KG
COBALT	2.76	3.53	2.98	3.80	MG/KG
BARIUM	184	107	214	190	MG/KG
MANGANESE	103	85.9	101	83.3	MG/KG
MOLYBDENUM	9.45	10.5	10.5	12.2	MG/KG
VANADIUM	52.7	54.6	51.8	48.8	MG/KG
PHENOLS	< 21.0	< 20.0	93	< 45	MG/KG
FLUORIDE	43	11	10	19	MG/KG
ETHYL PARATHION	< 17.0*	< 48.0	< 43.0	< 44.0	MG/KG
DEMETON	< 17.0*	< 48.0	< 43.0	< 44.0	MG/KG
GUTHION	< 17.0*	< 48.0	< 43.0	< 44.0	MG/KG
MALATHION	< 17.0*	< 48.0	< 43.0	< 44.0	MG/KG
OP'-DDE	< 0.001	< 0.011	0.0098	< 0.012	MG/KG
PP'-DDE	< 0.001	< 0.011	0.0098	< 0.012	MG/KG
OP'-DDD	< 0.001	< 0.011	< 0.0098	< 0.012	MG/KG
PP'-DDD	< 0.001	< 0.011	< 0.0098	< 0.012	MG/KG
OP'-DDT	< 0.001	< 0.011	< 0.0098	< 0.012	MG/KG
PP'-DDT	< 0.001	< 0.011	< 0.0098	< 0.012	MG/KG
ALPHA-BHC	< 0.001	< 0.011	< 0.0098	< 0.012	MG/KG
LINDANE (GAMMA-BHC)	< 0.010	< 0.011	< 0.0098	< 0.012	MG/KG
HEPTACHLOR	< 0.010	< 0.011	< 0.0098	< 0.012	MG/KG
HEPTACHLOR EPOXIDE	< 0.010	< 0.011	< 0.0098	< 0.012	MG/KG
ALDRIN	< 0.001	< 0.011	< 0.0098	< 0.012	MG/KG
DIELDRIN	0.031	< 0.053	< 0.049	< 0.061	MG/KG
ENDRIN	< 0.050	< 0.053	< 0.049	< 0.061	MG/KG
TOXAPHENE	< 0.500	< 0.530	< 0.490	< 0.610	MG/KG
METHOXYCLOR	< 0.050	< 0.053	< 0.049	< 0.061	MG/KG
2,4-D(ACID)	< 3.6	< 3.5	< 1.3	< 4.1	MG/KG
2,4,5-TP(SILVEX)	< 1.8	< 1.7	< 0.650	< 2.1	MG/KG
AROCLOR 1242	< 0.100	< 0.110	< 0.098	< 0.120	MG/KG
AROCLOR 1254	< 0.100	< 0.110	< 0.098	< 0.120	MG/KG
BETA-BHC	< 0.010	< 0.011	< 0.0098	< 0.012	MG/KG
DELTA-BHC	< 0.010	< 0.011	< 0.0098	< 0.012	MG/KG
ENDOSULFAN I	< 0.010	< 0.053	< 0.049	< 0.061	MG/KG
ENDOSULFAN II	< 0.010	< 0.053	< 0.049	< 0.061	MG/KG
ENDOSULFAN SULFATE	< 0.010	< 0.053	< 0.049	< 0.061	MG/KG
ENDRIN ALDEHYDE	0.011	< 0.053	< 0.049	< 0.061	MG/KG
AROCLOR 1016	< 0.100	< 0.110	< 0.098	< 0.120	MG/KG
AROCLOR 1221	< 0.100	< 0.110	< 0.098	< 0.120	MG/KG
AROCLOR 1232	< 0.100	< 0.110	< 0.098	< 0.120	MG/KG
AROCLOR 1248	< 0.100	< 0.110	< 0.098	< 0.120	MG/KG
AROCLOR 1260	< 0.100	< 0.110	< 0.098	< 0.120	MG/KG
TECHNICAL CHLORDANE	< 0.100	< 0.110	< 0.0980	< 0.120	MG/KG

VALENCIA WATER RECLAMATION PLANT
2022 Biosolids Cake Quarterly 24-Hour Composite Samples (VOC's - Grab Samples)

Sample Number(s)	22011200172	22041300427	22071300415	22101200409	
	22011200173	22041300428	22071300416	22101200410	
	22011200386	22041300429	22071300417	22101200411	
	22020900452	22060800470			
		22061500464			
Sample Date	1/12/2022	4/13/2022	7/13/2022	10/12/2022	Dry Weight
Description	Result	Result	Result	Result	Unit of Measure
MIREX	< 0.010	< 0.011	< 0.0098	< 0.012	MG/KG
METHYLENE CHLORIDE	< 0.240	< 7.700	< 4.300	< 5.400	MG/KG
CHLOROFORM	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
1,1,1-TRICHLOROETHANE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
CARBON TETRACHLORIDE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
1,1-DICHLOROETHENE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
TRICHLOROETHYLENE	< 0.240	< 7.700	< 0.860	< 1.100	MG/KG
TETRACHLOROETHYLENE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
BROMODICHLOROMETHANE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
DIBROMOCHLOROMETHANE	< 0.240	< 7.700	< 0.860	< 1.100	MG/KG
BROMOFORM	< 0.240	< 7.700	< 2.200	< 2.700	MG/KG
CHLOROBENZENE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
VINYL CHLORIDE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
O-DICHLOROBENZENE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
M-DICHLOROBENZENE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
P-DICHLOROBENZENE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
1,1-DICHLOROETHANE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
1,1,2-TRICHLOROETHANE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
1,2-DICHLOROETHANE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
BENZENE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
TOLUENE	< 0.240	< 7.700	< 0.430	1.000	MG/KG
ETHYL BENZENE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
TRANS-1,2-DICHLOROETHYLENE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
BROMOMETHANE	< 0.240	< 7.700	< 8.600	< 11.000	MG/KG
CHLOROETHANE	< 0.240	< 7.700	< 0.860	< 1.100	MG/KG
2-CHLOROETHYLVINYLETHER	< 2.400	< 2.000	< 8.600	< 11.000	MG/KG
CHLOROMETHANE	< 0.240	< 7.700	< 8.600	< 11.000	MG/KG
1,2-DICHLOROPROPANE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
CIS-1,3-DICHLOROPROPENE	< 0.240	< 7.700	< 0.430	< 0.540	MG/KG
TRANS-1,3-DICHLOROPROPENE	< 0.240	< 7.700	< 0.860	< 1.100	MG/KG
1,1,2,2-TETRACHLOROETHANE	< 0.240	< 7.700	< 0.860	< 1.100	MG/KG
ACROLEIN	< 0.240	< 7.700	< 22.000	< 27.000	MG/KG
ACRYLONITRILE	< 0.240	< 7.700	< 11.000	< 13.000	MG/KG
FREON 12 (CCL2F2)	< 0.240	< 7.700	< 0.860	< 1.100	MG/KG
FREON 11 (CCL3F)	< 0.240	< 7.700	< 4.300	< 5.400	MG/KG
2-BUTANONE	< 5.200	< 7.700	13.000	< 11.000	MG/KG
2,4,5-TRICHLOROPHENOL	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
ACENAPHTHENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
ACENAPHTHYLENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
ANTHRACENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
BENZIDINE	< 260	< 440	< 220	< 110	MG/KG
BENZO(A)ANTHRACENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
BENZO(A)PYRENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
BENZO(B)FLUORANTHENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
BENZO(G.H.I.)PERYLENE	< 52.0	< 44.0	< 43.0	< 22.0	MG/KG
BENZO(K)FLUORANTHENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
BIS(2-CL-ETHOXY)METHANE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
BIS(2-CHLOROETHYL)ETHER	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
BIS(2-CL-ISOPROPYL)ETHER	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
DIETHYLHEXYL PHTHALATE	< 26.0	< 44.0	< 43.0	< 22.0	MG/KG
4-BROMOPHENYL PHENYLETHE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
BUTYLBENZYL PHTHALATE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
2-CHLORONAPHTHALENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
4-CHLOROPHENYLPHENYLETHE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
CHRYSENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
DIBENZO(A,H)ANTHRACENE	< 52.0	< 88.0	< 43.0	< 22.0	MG/KG
1,2-DICHLOROBENZENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
1,3-DICHLOROBENZENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
1,4-DICHLOROBENZENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG

VALENCIA WATER RECLAMATION PLANT
2022 Biosolids Cake Quarterly 24-Hour Composite Samples (VOC's - Grab Samples)

Sample Number(s)	22011200172	22041300427	22071300415	22101200409	
	22011200173	22041300428	22071300416	22101200410	
	22011200386	22041300429	22071300417	22101200411	
	22020900452	22060800470			
		22061500464			
Sample Date	1/12/2022	4/13/2022	7/13/2022	10/12/2022	Dry Weight
Description	Result	Result	Result	Result	Unit of Measure
3,3'-DICHLOROBENZIDINE	< 130.0	< 220	< 220	< 110	MG/KG
DIETHYL PHTHALATE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
DIMETHYL PHTHALATE	< 130.0	< 220	< 43.0	< 22.0	MG/KG
DI-N-BUTYL PHTHALATE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
2,4-DINITROTOLUENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
2,6-DINITROTOLUENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
DI-N-OCTYL PHTHALATE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
1,2-DIPHENYLHYDRAZINE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
1,2,4-TRICHLOROBENZENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
2,3,7,8-TCDD	< 0.000011	< 0.000092	< 0.000019	< 0.000012	NG/KG
2,4,6-TRICHLOROPHENOL	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
2,4-DICHLOROPHENOL	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
2,4-DIMETHYLPHENOL	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
2,4-DINITROPHENOL	< 1300.0	< 2,200.0	< 220.0	< 110	MG/KG
2-CHLOROPHENOL	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
2-METHYL-4,6DINITROPHENOL	< 260	< 44.0	< 220	< 110	MG/KG
2-NITROPHENOL	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
4-CHLORO-3-METHYLPHENOL	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
4-NITROPHENOL	< 26.0	< 44.0	< 220	< 110	MG/KG
FLUORANTHENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
FLUORENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
HEXACHLOROBENZENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
HEXACHLOROBUTADIENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
HEXACHLOROCYCLOPENTADIEN	< 26.0	< 44.0	< 43.0	< 22.0	MG/KG
HEXACHLOROETHANE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
INDENO(1,2,3-C,D)PYRENE	< 52.0	< 88.0	< 43.0	< 22.0	MG/KG
ISOPHORONE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
M+P CRESOL	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
NAPHTHALENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
NITROBENZENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
N-NITROSODIMETHYLAMINE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
N-NITROSODI-N-PROPYLAMINE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
N-NITROSODIPHENYLAMINE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
O-CRESOL	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
PENTACHLOROPHENOL	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
PHENANTHRENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
PHENOL	< 26.0	< 44.0	100	< 11.0	MG/KG
PYRENE	< 26.0	< 44.0	< 22.0	< 11.0	MG/KG
PYRIDINE	< 52.0	< 88.0	< 43.0	< 22.0	MG/KG

* = 4 analytes above (Guthion, Parathion, Demeton, and Malathion) were resampled in February. The contract lab missed the holding time for extraction.

Whittier Narrows WRP Influent Monitoring

Whittier Narrows Water Reclamation Plant
2022 INF-001 Monitoring Results

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022
1,1,1-Trichloroethane	ug/L		ND						ND	
1,1,2,2-Tetrachloroethane	ug/L		ND						ND	
1,1,2-Trichloroethane	ug/L		ND						ND	
1,1-Dichloroethane	ug/L		ND						ND	
1,1-Dichloroethylene	ug/L		ND						ND	
1,2,4-Trichlorobenzene	ug/L		ND							ND
1,2-Dichlorobenzene	ug/L		ND						ND	
1,2-Dichloroethane	ug/L		ND						ND	
1,2-Dichloropropane	ug/L		ND						ND	
1,2-Diphenylhydrazine	ug/L		ND							ND
1,2-trans-Dichloroethylene	ug/L		ND						ND	
1,3-Dichlorobenzene	ug/L		ND						ND	
1,3-Dichloropropene	ug/L		ND						ND	
1,4-Dichlorobenzene	ug/L		ND						DNQ Est. Conc. 0.21	
2,3,7,8-TCDD	pg/L		ND			ND			DNQ Est. Conc. 0.78(1)(2)	
2,4,6-Trichlorophenol	ug/L		ND							ND
2,4-Dichlorophenol	ug/L		ND							ND
2,4-Dimethylphenol	ug/L		ND							ND
2,4-Dinitrophenol	ug/L		ND							ND
2,4-Dinitrotoluene	ug/L		ND							ND
2,6-Dinitrotoluene	ug/L		ND							ND
2-Chloroethylvinyl ether	ug/L		ND						0.59	
2-Chloronaphthalene	ug/L		ND							
2-Chlorophenol	ug/L		ND							ND
2-Methyl-4,6-dinitrophenol	ug/L		ND							ND
2-Nitrophenol	ug/L		ND							ND
3,3'-Dichlorobenzidine	ug/L		ND							ND
3-Methyl-4-chlorophenol	ug/L		ND							ND
4,4-DDD	ug/L		ND						ND	
4,4-DDE	ug/L		ND						ND	
4,4-DDT	ug/L		ND						ND	
4-Bromophenyl phenyl ether	ug/L		ND							ND
4-Chlorophenyl phenyl ether	ug/L		ND							ND
4-Nitrophenol	ug/L		ND							ND
Acenaphthene	ug/L		ND							ND
Acenaphthylene	ug/L		ND							ND
Acrolein	ug/L		ND						ND	
Acrylonitrile	ug/L		ND						ND	
Aldrin	ug/L		ND						ND	
alpha-BHC	ug/L		ND						ND	
alpha-Endosulfan	ug/L		ND						ND	
Anthracene	ug/L		ND							ND
Antimony	ug/L		0.71						0.93	
Aroclor 1016	ug/L		ND						ND	
Aroclor 1221	ug/L		ND						ND	
Aroclor 1232	ug/L		ND						ND	
Aroclor 1242	ug/L		ND						ND	
Aroclor 1248	ug/L		ND						ND	
Aroclor 1254	ug/L		ND						ND	
Aroclor 1260	ug/L		ND						ND	
Arsenic	ug/L		2.07						1.96	
Benzene	ug/L		ND						ND	
Benzidine	ug/L		ND							ND
Benzo(a)anthracene	ug/L		ND							ND
Benzo(a)pyrene	ug/L		ND							ND
Benzo(b)fluoranthene	ug/L		ND							ND
Benzo(g,h,i)perylene	ug/L		ND							ND
Benzo(k)fluoranthene	ug/L		ND							ND
Beryllium	ug/L		ND						ND	
beta-BHC	ug/L		ND						ND	
beta-endosulfan	ug/L		ND						ND	
bis(2-Chloroethoxy) methane	ug/L		ND							ND

Parameter	Units	October 2022	November 2022	December 2022	Monthly Average			Method	ML	MDL	RL
					Minimum	Average	Maximum				
1,1,1-Trichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.08 - 0.19	0.50
1,1-Dichloroethylene	ug/L				ND	ND	ND	EPA 624.1		0.21	0.50
1,2,4-Trichlorobenzene	ug/L				ND	ND	ND	EPA 625.1		0.51	20.0
1,2-Dichlorobenzene	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L				ND	ND	ND	EPA 624.1		0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L				ND	ND	ND	EPA 625.1		0.63	20.0
1,2-trans-Dichloroethylene	ug/L				ND	ND	ND	EPA 624.1		0.06 - 0.20	0.50
1,3-Dichlorobenzene	ug/L				ND	ND	ND	EPA 624.1		0.13 - 0.15	0.50
1,3-Dichloropropene	ug/L				ND	ND	ND	Calculated		Not applicable	Not applicable
1,4-Dichlorobenzene	ug/L				ND	ND	DNQ Est. Conc. 0.21	EPA 624.1		0.16 - 0.25	0.50
2,3,7,8-TCDD	pg/L		ND		ND	ND	DNQ Est. Conc. 0.78(1)(2)	EPA 1613B		0.11 - 1.2	9.4 - 10
2,4,6-Trichlorophenol	ug/L				ND	ND	ND	EPA 625.1		0.64	20.0
2,4-Dichlorophenol	ug/L				ND	ND	ND	EPA 625.1		0.60	20.0
2,4-Dimethylphenol	ug/L				ND	ND	ND	EPA 625.1		0.44	20.0
2,4-Dinitrophenol	ug/L				ND	ND	ND	EPA 625.1		1.5	100
2,4-Dinitrotoluene	ug/L				ND	ND	ND	EPA 625.1		0.37	20.0
2,6-Dinitrotoluene	ug/L				ND	ND	ND	EPA 625.1		0.50	20.0
2-Chloroethylvinyl ether	ug/L				ND	0.30	0.59	EPA 624.1		0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L	ND			ND	ND	ND	EPA 625.1		0.41	10.0 - 20.0
2-Chlorophenol	ug/L				ND	ND	ND	EPA 625.1		0.41	20.0
2-Methyl-4,6-dinitrophenol	ug/L				ND	ND	ND	EPA 625.1		1.3	100
2-Nitrophenol	ug/L				ND	ND	ND	EPA 625.1		0.31	20.0
3,3'-Dichlorobenzidine	ug/L				ND	ND	ND	EPA 625.1		0.54	20.0
3-Methyl-4-chlorophenol	ug/L				ND	ND	ND	EPA 625.1		0.69	20.0
4,4-DDD	ug/L				ND	ND	ND	608.3/8081/8082		0.003	0.10
4,4-DDE	ug/L				ND	ND	ND	608.3/8081/8082		0.002	0.10
4,4-DDT	ug/L				ND	ND	ND	608.3/8081/8082		0.004	0.10
4-Bromophenyl phenyl ether	ug/L				ND	ND	ND	EPA 625.1		0.58	20.0
4-Chlorophenyl phenyl ether	ug/L				ND	ND	ND	EPA 625.1		0.63	20.0
4-Nitrophenol	ug/L				ND	ND	ND	EPA 625.1		1.6	100
Acenaphthene	ug/L				ND	ND	ND	EPA 625.1		0.50	20.0
Acenaphthylene	ug/L				ND	ND	ND	EPA 625.1		0.50	20.0
Acrolein	ug/L				ND	ND	ND	EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L				ND	ND	ND	EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L				ND	ND	ND	608.3/8081/8082		0.002	0.05
alpha-BHC	ug/L				ND	ND	ND	608.3/8081/8082		0.003	0.10
alpha-Endosulfan	ug/L				ND	ND	ND	608.3/8081/8082		0.003	0.10
Anthracene	ug/L				ND	ND	ND	EPA 625.1		0.56	20.0
Antimony	ug/L				0.71	0.82	0.93	EPA 200.8	0.5	0.12	0.50
Aroclor 1016	ug/L				ND	ND	ND	608.3/8081/8082		0.1	5.0
Aroclor 1221	ug/L				ND	ND	ND	608.3/8081/8082		0.1	5.0
Aroclor 1232	ug/L				ND	ND	ND	608.3/8081/8082		0.1	5.0
Aroclor 1242	ug/L				ND	ND	ND	608.3/8081/8082		0.1	5.0
Aroclor 1248	ug/L				ND	ND	ND	608.3/8081/8082		0.1	5.0
Aroclor 1254	ug/L				ND	ND	ND	608.3/8081/8082		0.1	5.0
Aroclor 1260	ug/L				ND	ND	ND	608.3/8081/8082		0.1	5.0
Arsenic	ug/L				1.96	2.02	2.07	EPA 200.8	2	0.05 - 0.07	1.00
Benzene	ug/L				ND	ND	ND	EPA 624.1		0.06 - 0.09	0.50
Benzidine	ug/L				ND	ND	ND	EPA 625.1		0.77	100
Benzo(a)anthracene	ug/L				ND	ND	ND	EPA 625.1		0.46	20.0
Benzo(a)pyrene	ug/L				ND	ND	ND	EPA 625.1		0.54	20.0
Benzo(b)fluoranthene	ug/L				ND	ND	ND	EPA 625.1		0.61	20.0
Benzo(g,h,i)perylene	ug/L				ND	ND	ND	EPA 625.1		0.52	20.0
Benzo(k)fluoranthene	ug/L				ND	ND	ND	EPA 625.1		0.53	20.0
Beryllium	ug/L				ND	ND	ND	EPA 200.8	0.5	0.023 - 0.026	0.25
beta-BHC	ug/L				ND	ND	ND	608.3/8081/8082		0.003	0.05
beta-endosulfan	ug/L				ND	ND	ND	608.3/8081/8082		0.004	0.10
bis(2-Chloroethoxy) methane	ug/L				ND	ND	ND	EPA 625.1		0.28	20.0

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022
bis(2-Chloroethyl) ether	ug/L		ND							ND
bis(2-Chloroisopropyl) ether	ug/L		ND							ND
bis(2-Ethylhexyl) phthalate	ug/L		ND							ND
BOD	mg/L	299	294	334	298	310	294	292	278	231
Bromodichloromethane	ug/L		ND						ND	
Bromoform	ug/L		ND						ND	
Butyl benzyl phthalate	ug/L		ND							ND
Cadmium	ug/L		DNQ Est. Conc. 0.18			ND			ND	
Carbon tetrachloride	ug/L		ND						ND	
Chlorobenzene	ug/L		ND						ND	
Chloroethane	ug/L		ND						ND	
Chloroform	ug/L		11.4						3.5	
Chromium VI	ug/L		0.08			0.12			0.31	
Chromium, total	ug/L		10						7.35	
Chrysene	ug/L		ND							ND
Copper	ug/L		87.3			63.1			76.6	
Cyanide, total	ug/L		DNQ Est. Conc. 2.61						ND	
delta-BHC	ug/L		ND						ND	
Di-n-butyl phthalate	ug/L		ND							ND
Di-n-octyl phthalate	ug/L		ND							ND
Dibenzo(a,h)anthracene	ug/L		ND							ND
Dibromochloromethane	ug/L		DNQ Est. Conc. 0.19						ND	
Dieldrin	ug/L		ND						ND	
Diethyl phthalate	ug/L		DNQ Est. Conc. 9.6							ND
Dimethyl phthalate	ug/L		ND							ND
Endosulfan sulfate	ug/L		ND						ND	
Endrin	ug/L		ND						ND	
Endrin aldehyde	ug/L		ND						DNQ Est. Conc. 0.03	
Ethylbenzene	ug/L		ND						ND	
Fluoranthene	ug/L		ND							ND
Fluorene	ug/L		ND							ND
gamma-BHC	ug/L		ND						ND	
Heptachlor	ug/L		ND						ND	
Heptachlor epoxide	ug/L		ND						ND	
Hexachlorobenzene	ug/L		ND							ND
Hexachlorobutadiene	ug/L		ND							ND
Hexachlorocyclopentadiene	ug/L		ND							ND
Hexachloroethane	ug/L		ND							ND
Indeno (1,2,3-cd) pyrene	ug/L		ND							ND
Isophorone	ug/L		ND							ND
Lead	ug/L		8.57			1.76			2.11	
Mercury	ug/L		0.034			0.084	0.14		0.068	
Methyl bromide (bromomethane)	ug/L		ND						ND	
Methyl chloride (chloromethane)	ug/L		ND						ND	
Methylene chloride	ug/L		ND						DNQ Est. Conc. 0.16	
n-Nitrosodi-n-propylamine	ug/L		ND						ND	
n-Nitrosodimethylamine (NDMA)	ug/L		ND						0.022	
n-Nitrosodiphenylamine	ug/L		ND						ND	
Naphthalene	ug/L		ND							ND
Nickel	ug/L		5.80						5.84	
Nitrobenzene	ug/L		ND							ND
PCB-037	pg/L								39	
PCB-052	pg/L								380(1)	
PCB-066	pg/L								110	
PCB-070 and 074 (Co: 61,70,74,76)	pg/L								240	
PCB-077	pg/L								ND	
PCB-081	pg/L								ND	
PCB-099	pg/L								100	
PCB-101 (Co: 90/101/113)	pg/L								230	
PCB-105	pg/L								73	
PCB-110 (Co: 110,115)	pg/L								250	
PCB-114	pg/L								ND	
PCB-118	pg/L								180	
PCB-123	pg/L								ND	
PCB-126	pg/L								ND	
PCB-128 (Co: 128,166)	pg/L								DNQ Est. Conc. 25	
PCB-149 (Co: 147,149)	pg/L								150(2)	
PCB-151 (Co: 135,151)	pg/L								66	
PCB-158	pg/L								23	
PCB-167	pg/L								ND	
PCB-169	pg/L								ND	

Parameter	Units	October 2022	November 2022	December 2022	Monthly Average			Method	ML	MDL	RL
					Minimum	Average	Maximum				
bis(2-Chloroethyl) ether	ug/L				ND	ND	ND	EPA 625.1		0.27	20.0
bis(2-Chloroisopropyl) ether	ug/L				ND	ND	ND	EPA 625.1		0.25	20.0
bis(2-Ethylhexyl) phthalate	ug/L				ND	ND	ND	EPA 625.1		0.55	20.0
BOD	mg/L	288	296	319	231	294	334	SM 5210B		Not applicable	120
Bromodichloromethane	ug/L				ND	ND	ND	EPA 624.1		0.11 - 0.15	0.50
Bromoform	ug/L				ND	ND	ND	EPA 624.1		0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L				ND	ND	ND	EPA 625.1		0.58	20.0
Cadmium	ug/L		DNQ Est. Conc. 0.17		ND	ND	DNQ Est. Conc. 0.18	EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L				ND	ND	ND	EPA 624.1		0.18 - 0.34	0.50
Chlorobenzene	ug/L				ND	ND	ND	EPA 624.1		0.07 - 0.10	0.50
Chloroethane	ug/L				ND	ND	ND	EPA 624.1		0.22 - 0.31	0.50
Chloroform	ug/L				3.5	7.4	11.4	EPA 624.1		0.08 - 0.35	0.50
Chromium VI	ug/L		0.14		0.08	0.16	0.31	EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total	ug/L				7.35	8.7	10	EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L				ND	ND	ND	EPA 625.1		0.41	20.0
Copper	ug/L		87.3		63.1	78.6	87.3	EPA 200.8	0.5	0.12 - 0.14	0.50
Cyanide, total	ug/L				ND	ND	DNQ Est. Conc. 2.61	SM 4500 CN E	5	2.00	5.00
delta-BHC	ug/L				ND	ND	ND	608.3/8081/8082		0.003	0.05
Di-n-butyl phthalate	ug/L				ND	ND	ND	EPA 625.1		0.59	20.0
Di-n-octyl phthalate	ug/L				ND	ND	ND	EPA 625.1		0.69	20.0
Dibenzo(a,h)anthracene	ug/L				ND	ND	ND	EPA 625.1		0.58	20.0
Dibromochloromethane	ug/L				ND	ND	DNQ Est. Conc. 0.19	EPA 624.1		0.11 - 0.13	0.50
Dieldrin	ug/L				ND	ND	ND	608.3/8081/8082		0.003	0.10
Diethyl phthalate	ug/L				ND	ND	DNQ Est. Conc. 9.6	EPA 625.1		0.42	20.0
Dimethyl phthalate	ug/L				ND	ND	ND	EPA 625.1		0.41	20.0
Endosulfan sulfate	ug/L				ND	ND	ND	608.3/8081/8082		0.004	0.10
Endrin	ug/L				ND	ND	ND	608.3/8081/8082		0.004	0.10
Endrin aldehyde	ug/L				ND	ND	DNQ Est. Conc. 0.03	608.3/8081/8082		0.003	0.10
Ethylbenzene	ug/L				ND	ND	ND	EPA 624.1		0.11 - 0.15	0.50
Fluoranthene	ug/L				ND	ND	ND	EPA 625.1		0.69	20.0
Fluorene	ug/L				ND	ND	ND	EPA 625.1		0.58	20.0
gamma-BHC	ug/L				ND	ND	ND	608.3/8081/8082		0.003	0.10
Heptachlor	ug/L				ND	ND	ND	608.3/8081/8082		0.002	0.10
Heptachlor epoxide	ug/L				ND	ND	ND	608.3/8081/8082		0.003	0.10
Hexachlorobenzene	ug/L				ND	ND	ND	EPA 625.1		0.47	20.0
Hexachlorobutadiene	ug/L				ND	ND	ND	EPA 625.1		0.96	20.0
Hexachlorocyclopentadiene	ug/L				ND	ND	ND	EPA 625.1		2.0	100
Hexachloroethane	ug/L				ND	ND	ND	EPA 625.1		0.81	20.0
Indeno (1,2,3-cd) pyrene	ug/L				ND	ND	ND	EPA 625.1		0.53	20.0
Isophorone	ug/L				ND	ND	ND	EPA 625.1		0.28	20.0
Lead	ug/L		2.84		1.76	3.82	8.57	EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L		0.082		0.034	0.08	0.14	EPA 1631E		0.00050	0.0025 - 0.025
Methyl bromide (bromomethane)	ug/L				ND	ND	ND	EPA 624.1		0.27 - 0.30	0.50
Methyl chloride (chloromethane)	ug/L				ND	ND	ND	EPA 624.1		0.19 - 0.41	0.50
Methylene chloride	ug/L				ND	ND	DNQ Est. Conc. 0.16	EPA 624.1		0.16 - 0.46	0.50
n-Nitrosodi-n-propylamine	ug/L				ND	ND	ND	EPA 1625B (Modified)		0.0006 - 0.0014	0.020
n-Nitrosodimethylamine (NDMA)	ug/L				ND	ND	0.022	EPA 1625B (Modified)		0.0005	0.020
n-Nitrosodiphenylamine	ug/L				ND	ND	ND	EPA 1625B (Modified)		0.0013 - 0.0057	0.10
Naphthalene	ug/L				ND	ND	ND	EPA 625.1		0.20	20.0
Nickel	ug/L				5.80	5.82	5.84	EPA 200.8	1	0.08 - 0.50	1.00
Nitrobenzene	ug/L				ND	ND	ND	EPA 625.1		0.31	20.0
PCB-037	pg/L				39	39	39	EPA 1668		12.0	21.0
PCB-052	pg/L				380(1)	380(1)	380(1)	EPA 1668		9.2	110
PCB-066	pg/L				110	110	110	EPA 1668		9.9	42.0
PCB-070 and 074 (Co: 61,70,74,76)	pg/L				240	240	240	EPA 1668		10.0	170
PCB-077	pg/L				ND	ND	ND	EPA 1668		14	21
PCB-081	pg/L				ND	ND	ND	EPA 1668		14	21
PCB-099	pg/L				100	100	100	EPA 1668		7.1	42
PCB-101 (Co: 90/101/113)	pg/L				230	230	230	EPA 1668		7.0	130
PCB-105	pg/L				73	73	73	EPA 1668		6.2	42
PCB-110 (Co: 110,115)	pg/L				250	250	250	EPA 1668		6.3	42
PCB-114	pg/L				ND	ND	ND	EPA 1668		7.0	42
PCB-118	pg/L				180	180	180	EPA 1668		6.1	42
PCB-123	pg/L				ND	ND	ND	EPA 1668		7.2	42
PCB-126	pg/L				ND	ND	ND	EPA 1668		6.7	21
PCB-128 (Co: 128,166)	pg/L				DNQ Est. Conc. 25	ND	DNQ Est. Conc. 25	EPA 1668		5.8	84
PCB-149 (Co: 147,149)	pg/L				150(2)	150(2)	150(2)	EPA 1668		6.1	42
PCB-151 (Co: 135,151)	pg/L				66	66	66	EPA 1668		6.4	42
PCB-158	pg/L				23	23	23	EPA 1668		4.8	21
PCB-167	pg/L				ND	ND	ND	EPA 1668		6.2	42
PCB-169	pg/L				ND	ND	ND	EPA 1668		9.8	21

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022
PCB-170	pg/L								DNQ Est. Conc. 28(2)	
PCB-177	pg/L								DNQ Est. Conc. 16	
PCB-183	pg/L								DNQ Est. Conc. 19	
PCB-187	pg/L								63	
PCB-189	pg/L								ND	
PCB-194	pg/L								ND	
PCB-201	pg/L								ND	
PCB-206	pg/L								DNQ Est. Conc. 12(2)	
PCB153/168	pg/L								180	
PCB156/157	pg/L								ND	
PCB18/30	pg/L								50	
PCB180/193	pg/L								78	
PCB20/28	pg/L								150(2)	
PCB44/47/65	pg/L								170(1)	
PCB49/69	pg/L								61	
Pentachlorophenol	ug/L		ND							ND
pH	SU	7.7	7.8	7.7	7.6	7.6	7.8	7.7	7.6	7.6
Phenanthrene	ug/L		ND							ND
Phenol	ug/L		25.3							DNQ Est. Conc. 18.9
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L		ND						ND	
Polychlorinated Biphenyls (PCBs), Sum as Congeners	pg/L								2,960	
Pyrene	ug/L		ND							ND
Selenium	ug/L		1.89						1.30	
Silver	ug/L		0.92						0.38	
Technical chlordane	ug/L		ND						ND	
Temperature	Degrees F	65.1	66.8	68.3	70.9	73.4	73.4	76.5	78.7	80.6
Tetrachloroethylene	ug/L		ND						ND	
Thallium	ug/L		ND						ND	
Toluene	ug/L		3.6						0.96	
Total suspended solids	mg/L	235	305	326	319	298	320	268	286	288
Toxaphene	ug/L		ND						ND	
Trichloroethylene	ug/L		ND						ND	
Vinyl chloride	ug/L		ND						ND	
Zinc	ug/L		249			217			172	

Parameter	Units	October 2022	November 2022	December 2022	Monthly Average			Method	ML	MDL	RL
					Minimum	Average	Maximum				
PCB-170	pg/L				DNQ Est. Conc. 28(2)	ND	DNQ Est. Conc. 28(2)	EPA 1668		5.6	42
PCB-177	pg/L				DNQ Est. Conc. 16	ND	DNQ Est. Conc. 16	EPA 1668		4.9	21
PCB-183	pg/L				DNQ Est. Conc. 19	ND	DNQ Est. Conc. 19	EPA 1668		3.7	21
PCB-187	pg/L				63	63	63	EPA 1668		3.6	21
PCB-189	pg/L				ND	ND	ND	EPA 1668		5.4	21
PCB-194	pg/L				ND	ND	ND	EPA 1668		3.7	42
PCB-201	pg/L				ND	ND	ND	EPA 1668		8.5	21
PCB-206	pg/L				DNQ Est. Conc. 12(2)	ND	DNQ Est. Conc. 12(2)	EPA 1668		4.1	42
PCB153/168	pg/L				180	180	180	EPA 1668		4.7	42
PCB156/157	pg/L				ND	ND	ND	EPA 1668		8.7	42
PCB18/30	pg/L				50	50	50	EPA 1668		6.2	42.0
PCB180/193	pg/L				78	78	78	EPA 1668		4.3	42
PCB20/28	pg/L				150(2)	150(2)	150(2)	EPA 1668		12.0	84.0
PCB44/47/65	pg/L				170(1)	170(1)	170(1)	EPA 1668		9.3	130
PCB49/69	pg/L				61	61	61	EPA 1668		8.4	42.0
Pentachlorophenol	ug/L				ND	ND	ND	EPA 625.1		0.82	20.0
pH	SU	7.6	7.6	7.5	7.5	7.7	7.8	SM 4500 H+ B			
Phenanthrene	ug/L				ND	ND	ND	EPA 625.1		0.59	20.0
Phenol	ug/L				DNQ Est. Conc. 18.9	12.6	25.3	EPA 625.1		0.24	20.0
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L				ND	ND	ND	Calculated		Not applicable	Not applicable
Polychlorinated Biphenyls (PCBs), Sum as Congeners	pg/L				2,960	2,960	2,960	Calculated		Not applicable	Not applicable
Pyrene	ug/L				ND	ND	ND	EPA 625.1		0.60	20.0
Selenium	ug/L				1.30	1.60	1.89	EPA 200.8	2	0.04	1.00
Silver	ug/L				0.38	0.65	0.92	EPA 200.8	0.25	0.02	0.20
Technical chlordane	ug/L				ND	ND	ND	608.3/8081/8082		0.02	0.50
Temperature	Degrees F	78.1	71.0	66.3	65.6	72.4	80.6	EPA 170.1 (oF)		Not applicable	Not applicable
Tetrachloroethylene	ug/L				ND	ND	ND	EPA 624.1		0.16 - 0.18	0.50
Thallium	ug/L				ND	ND	ND	EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L				0.96	2.3	3.6	EPA 624.1		0.04 - 0.15	0.50
Total suspended solids	mg/L	351	322	322	235	303	351	SM 2540D		Not applicable	50.0 - 83.3
Toxaphene	ug/L				ND	ND	ND	608.3/8081/8082		0.05	5.0
Trichloroethylene	ug/L				ND	ND	ND	EPA 624.1		0.12 - 0.15	0.50
Vinyl chloride	ug/L				ND	ND	ND	EPA 624.1		0.25 - 0.37	0.50
Zinc	ug/L		192		172	208	249	EPA 200.8	1	0.92 - 0.95	1.00 - 5.00

(1) Possible interference observed. The measured ion ratio did not meet qualitative criteria for analysis and results are considered to be an estimated maximum possible concentration.

(2) Blank contamination observed.

Whittier Narrows WRP Effluent Monitoring

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
1,1,1-Trichloroethane	ug/L		ND		ND		ND		ND		ND
1,1,2,2-Tetrachloroethane	ug/L		ND		ND		ND		ND		ND
1,1,2-Trichloroethane	ug/L		ND		ND		ND		ND		ND
1,1-Dichloroethane	ug/L		ND		ND		ND		ND		ND
1,1-Dichloroethylene	ug/L		ND		ND		ND		ND		ND
1,2,3,4,6,7,8-HeptaCDD	pg/L		ND			ND			ND		
1,2,3,4,6,7,8-HeptaCDF	pg/L		ND			ND			DNQ Est. Conc. 6.6		
1,2,3,4,7,8,9-HeptaCDF	pg/L		ND			ND			DNQ Est. Conc. 4.0(2)		
1,2,3,4,7,8-HexaCDD	pg/L		ND			ND			ND		
1,2,3,4,7,8-HexaCDF	pg/L		ND			ND			DNQ Est. Conc. 4.5(1)		
1,2,3,6,7,8-HexaCDD	pg/L		ND			ND			DNQ Est. Conc. 4.6(1)		
1,2,3,6,7,8-HexaCDF	pg/L		ND			ND			DNQ Est. Conc. 4.0(1)		
1,2,3,7,8,9-HexaCDD	pg/L		ND			ND			ND		
1,2,3,7,8,9-HexaCDF	pg/L		ND			ND			DNQ Est. Conc. 4.5(1)		
1,2,3,7,8-PentaCDD	pg/L		ND			ND			DNQ Est. Conc. 2.7(2)		
1,2,3,7,8-PentaCDF	pg/L		ND			ND			DNQ Est. Conc. 2.6(2)		
1,2,3-Trichloropropane	ug/L		DNQ Est. Conc. 0.0019				DNQ Est. Conc. 0.0012		DNQ Est. Conc. 0.0014		
1,2,4-Trichlorobenzene	ug/L		ND		ND		ND		ND		ND
1,2-Dichlorobenzene	ug/L		ND		ND		ND		ND		ND
1,2-Dichloroethane	ug/L		ND		ND		ND		ND		ND
1,2-Dichloropropane	ug/L		ND		ND		ND		ND		ND
1,2-Diphenylhydrazine	ug/L		ND						ND		
1,2-trans-Dichloroethylene	ug/L		ND		ND		ND		ND		ND
1,3-Dichlorobenzene	ug/L		ND		ND		ND		ND		ND
1,3-Dichloropropene	ug/L		ND		ND		0.05		ND		ND
1,4-Dichlorobenzene	ug/L		ND		ND		ND		ND		ND
1,4-Dioxane	ug/L		0.94			0.73	0.69		0.72		
2,3,4,6,7,8-HexaCDF	pg/L		ND			ND			DNQ Est. Conc. 3.8(1)		
2,3,4,7,8-PentaCDF	pg/L		ND			ND			DNQ Est. Conc. 3.4		
2,3,7,8-TCDD	ug/L		ND			ND	ND		ND		
2,3,7,8-TetraCDF	pg/L		ND			ND			ND		
2,4,6-Trichlorophenol	ug/L		ND		ND		ND		ND		ND
2,4-Dichlorophenol	ug/L		ND						ND		
2,4-Dimethylphenol	ug/L		ND						ND		
2,4-Dinitrophenol	ug/L		ND						ND		
2,4-Dinitrotoluene	ug/L		ND						ND		
2,6-Dinitrotoluene	ug/L		ND						ND		
2-Chloroethyl vinyl ether	ug/L		ND		ND		ND		ND		ND
2-Chloronaphthalene	ug/L		ND								ND
2-Chlorophenol	ug/L		ND						ND		
2-Methyl-4,6-dinitrophenol	ug/L		ND						ND		
2-Nitrophenol	ug/L		ND						ND		
3,3'-Dichlorobenzidine	ug/L		ND							ND	
3-Methyl-4-chlorophenol	ug/L		ND						ND		
4,4-DDD	ug/L		ND		ND		ND		ND		ND
4,4-DDE	ug/L		ND		ND		ND		ND		ND
4,4-DDT	ug/L		ND		ND		DNQ Est. Conc. 0.004		ND		ND
4-Bromophenyl phenyl ether	ug/L		ND						ND		
4-Chlorophenyl phenyl ether	ug/L		ND						ND		
4-Nitrophenol	ug/L		ND						ND		
Acenaphthene	ug/L		ND						ND		
Acenaphthylene	ug/L		ND						ND		
Acrolein	ug/L		ND							ND	
Acrylonitrile	ug/L		ND						ND		
Aldrin	ug/L		ND		ND		ND		ND		ND
alpha-BHC	ug/L		ND		ND		ND		ND		ND
alpha-Endosulfan	ug/L		ND						ND		
Ammonia nitrogen	mg/L	0.652	0.366	0.512	0.342	0.425	0.464	0.780	1.96	0.538	0.680
Anthracene	ug/L		ND		ND	ND	ND		ND		ND
Antimony	ug/L		0.52			0.52	DNQ Est. Conc. 0.43		0.70		
Aroclor 1016	ug/L		ND		ND		ND		ND		ND
Aroclor 1221	ug/L		ND		ND		ND		ND		ND
Aroclor 1232	ug/L		ND		ND		ND		ND		ND
Aroclor 1242	ug/L		ND		ND		ND		ND		ND
Aroclor 1248	ug/L		ND		ND		ND		ND		ND
Aroclor 1254	ug/L		ND		ND		ND		ND		ND

Parameter	Units	November 2022	December 2022	Monthly Average			NPDES Limit		Method	ML	MDL	RL
				Minimum	Average	Maximum	Max Daily	Monthly Average				
1,1,1-Trichloroethane	ug/L		ND	ND	ND	ND			EPA 624.1		0.16 - 0.23	0.50
1,1,2,2-Tetrachloroethane	ug/L		ND	ND	ND	ND			EPA 624.1		0.12 - 0.21	0.50
1,1,2-Trichloroethane	ug/L		ND	ND	ND	ND			EPA 624.1		0.12 - 0.13	0.50
1,1-Dichloroethane	ug/L		ND	ND	ND	ND			EPA 624.1		0.08 - 0.19	0.50
1,1-Dichloroethylene	ug/L		ND	ND	ND	ND			EPA 624.1		0.21	0.50
1,2,3,4,6,7,8-HeptaCDD	pg/L	ND		ND	ND	ND			EPA 1613B		0.097 - 0.29	47 - 51
1,2,3,4,6,7,8-HeptaCDF	pg/L	ND		ND	ND	DNQ Est. Conc. 6.6			EPA 1613B		0.36 - 0.55	47 - 51
1,2,3,4,7,8,9-HeptaCDF	pg/L	ND		ND	ND	DNQ Est. Conc. 4.0(2)			EPA 1613B		0.34 - 0.56	47 - 51
1,2,3,4,7,8-HexaCDD	pg/L	DNQ Est. Conc. 2.1		ND	ND	DNQ Est. Conc. 2.1			EPA 1613B		0.11 - 0.58	47 - 51
1,2,3,4,7,8-HexaCDF	pg/L	ND		ND	ND	DNQ Est. Conc. 4.5(1)			EPA 1613B		0.14 - 0.43	47 - 51
1,2,3,6,7,8-HexaCDD	pg/L	ND		ND	ND	DNQ Est. Conc. 4.6(1)			EPA 1613B		0.14 - 0.61	47 - 51
1,2,3,6,7,8-HexaCDF	pg/L	ND		ND	ND	DNQ Est. Conc. 4.0(1)			EPA 1613B		0.12 - 0.41	47 - 51
1,2,3,7,8,9-HexaCDD	pg/L	ND		ND	ND	ND			EPA 1613B		0.11 - 0.52	47 - 51
1,2,3,7,8,9-HexaCDF	pg/L	ND		ND	ND	DNQ Est. Conc. 4.5(1)			EPA 1613B		0.12 - 0.30	47 - 51
1,2,3,7,8-PentaCDD	pg/L	ND		ND	ND	DNQ Est. Conc. 2.7(2)			EPA 1613B		0.13 - 0.90	47 - 51
1,2,3,7,8-PentaCDF	pg/L	ND		ND	ND	DNQ Est. Conc. 2.6(2)			EPA 1613B		0.12 - 0.44	47 - 51
1,2,3-Trichloropropane	ug/L		ND	ND	ND	DNQ Est. Conc. 0.0019			SRL-524M-TCP		0.0012	0.0050
1,2,4-Trichlorobenzene	ug/L		ND	ND	ND	ND			EPA 625.1		0.51	1.0
1,2-Dichlorobenzene	ug/L		ND	ND	ND	ND			EPA 624.1		0.12 - 0.15	0.50
1,2-Dichloroethane	ug/L		ND	ND	ND	ND			EPA 624.1		0.12 - 0.22	0.50
1,2-Dichloropropane	ug/L		ND	ND	ND	ND			EPA 624.1		0.09 - 0.14	0.50
1,2-Diphenylhydrazine	ug/L			ND	ND	ND			EPA 625.1		0.63	1.0
1,2-trans-Dichloroethylene	ug/L		ND	ND	ND	ND			EPA 624.1		0.06 - 0.20	0.50
1,3-Dichlorobenzene	ug/L		ND	ND	ND	ND			EPA 624.1		0.13 - 0.15	0.50
1,3-Dichloropropene	ug/L		ND	ND	0.008	0.05			Calculated		Not applicable	Not applicable
1,4-Dichlorobenzene	ug/L		ND	ND	ND	ND			EPA 624.1		0.16 - 0.25	0.50
1,4-Dioxane	ug/L		0.51	0.51	0.72	0.94			SW-846 8270MOD 1,4-Dioxane / EPA 522		0.028 - 0.26	0.070 - 0.40
2,3,4,6,7,8-HexaCDF	pg/L	ND		ND	ND	DNQ Est. Conc. 3.8(1)			EPA 1613B		0.11 - 0.31	47 - 51
2,3,4,7,8-PentaCDF	pg/L	ND		ND	ND	DNQ Est. Conc. 3.4			EPA 1613B		0.13 - 0.49	47 - 51
2,3,7,8-TCDD	ug/L	ND	ND	ND	ND	ND	0.000000028	0.000000014	EPA 1613B		0.15 - 1.4	9.4 - 10
2,3,7,8-TetraCDF	pg/L	ND		ND	ND	ND			EPA 1613B		0.023 - 0.50	9.4 - 10
2,4,6-Trichlorophenol	ug/L		ND	ND	ND	ND			EPA 625.1		0.64	1.0
2,4-Dichlorophenol	ug/L			ND	ND	ND			EPA 625.1		0.60	1.0
2,4-Dimethylphenol	ug/L			ND	ND	ND			EPA 625.1		0.44	1.0
2,4-Dinitrophenol	ug/L			ND	ND	ND			EPA 625.1		1.5	5.0
2,4-Dinitrotoluene	ug/L			ND	ND	ND			EPA 625.1		0.37	1.0
2,6-Dinitrotoluene	ug/L			ND	ND	ND			EPA 625.1		0.50	1.0
2-Chloroethyl vinyl ether	ug/L		ND	ND	ND	ND			EPA 624.1		0.18 - 0.28	0.50
2-Chloronaphthalene	ug/L			ND	ND	ND			EPA 625.1		0.41	1.0
2-Chlorophenol	ug/L			ND	ND	ND			EPA 625.1		0.41	1.0
2-Methyl-4,6-dinitrophenol	ug/L			ND	ND	ND			EPA 625.1		1.3	5.0
2-Nitrophenol	ug/L			ND	ND	ND			EPA 625.1		0.31	1.0
3,3'-Dichlorobenzidine	ug/L			ND	ND	ND			EPA 625.1		0.54	1.0
3-Methyl-4-chlorophenol	ug/L			ND	ND	ND			EPA 625.1		0.69	1.0
4,4-DDD	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.003	0.01
4,4-DDE	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.002	0.01
4,4-DDT	ug/L		ND	ND	ND	DNQ Est. Conc. 0.004			608.3/8081/8082		0.004	0.01
4-Bromophenyl phenyl ether	ug/L			ND	ND	ND			EPA 625.1		0.58	1.0
4-Chlorophenyl phenyl ether	ug/L			ND	ND	ND			EPA 625.1		0.63	1.0
4-Nitrophenol	ug/L			ND	ND	ND			EPA 625.1		1.6	5.0
Acenaphthene	ug/L			ND	ND	ND			EPA 625.1		0.50	1.0
Acenaphthylene	ug/L			ND	ND	ND			EPA 625.1		0.50	1.0
Acrolein	ug/L			ND	ND	ND			EPA 624.1		0.64 - 0.88	2.0
Acrylonitrile	ug/L			ND	ND	ND			EPA 624.1		0.31 - 0.64	2.0
Aldrin	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.002	0.005
alpha-BHC	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.003	0.01
alpha-Endosulfan	ug/L			ND	ND	ND			608.3/8081/8082		0.003	0.01
Ammonia nitrogen	mg/L	0.689	0.331	0.331	0.64	1.96	(3)	(4)	SM 4500 NH3 H		0.020 - 0.030	0.100
Anthracene	ug/L	ND	ND	ND	ND	ND			EPA 610 / EPA 625.1		0.016 - 0.56	0.020 - 1.0
Antimony	ug/L	0.68	DNQ Est. Conc. 0.46	DNQ Est. Conc. 0.43	0.40	0.70			EPA 200.8	0.5	0.12	0.50
Aroclor 1016	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.1	0.5
Aroclor 1221	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.1	0.5
Aroclor 1232	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.1	0.5
Aroclor 1242	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.1	0.5
Aroclor 1248	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.1	0.5
Aroclor 1254	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.1	0.5

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Aroclor 1260	ug/L		ND		ND		ND		ND		ND
Arsenic	ug/L		DNQ Est. Conc. 0.79			DNQ Est. Conc. 0.78	DNQ Est. Conc. 0.84		DNQ Est. Conc. 0.82		
Barium	ug/L		49.2				27.4		43.8		
Benzene	ug/L		ND		ND		ND		ND		ND
Benzidine	ug/L		ND		ND		ND			ND	ND
Benzo(a)anthracene	ug/L		ND						ND		
Benzo(a)pyrene	ug/L		ND				ND		ND		
Benzo(b)fluoranthene	ug/L		ND						ND		
Benzo(g,h,i)perylene	ug/L		ND						ND		
Benzo(k)fluoranthene	ug/L		ND		ND	ND	ND		ND		ND
Beryllium	ug/L		ND			ND	ND		ND		
beta-BHC	ug/L		ND		ND		ND		ND		ND
beta-Endosulfan	ug/L		ND						ND		
bis(2-Chloroethoxy) methane	ug/L		ND						ND		
bis(2-Chloroethyl) ether	ug/L		ND						ND		
bis(2-Chloroisopropyl) ether	ug/L		ND						ND		
bis(2-Ethylhexyl) phthalate	ug/L		ND		ND		ND		ND		ND
BOD	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	mg/L	0.3	0.3	0.32	0.29	0.28	0.32	0.28	0.28	0.30	0.34
Bromodichloromethane	ug/L		3.5		DNQ Est. Conc. 0.23		4.3		4.6		4.6
Bromoform	ug/L		ND		ND		ND		ND		ND
Butyl benzyl phthalate	ug/L		ND						ND		
Cadmium	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ug/L		ND		ND		ND		ND		ND
Chloride	mg/L	125	116	121	125	117	119	121	122	108	124
Chlorobenzene	ug/L		ND		ND		ND		ND		ND
Chloroethane	ug/L		ND		ND		ND		ND		ND
Chloroform	ug/L		11.0		2.5		14.1		9.8		10.5
Chromium III	ug/L		0.94			0.74	0.72		0.57		
Chromium VI	ug/L		0.08			0.14	0.13		0.14		
Chromium, total	ug/L		0.99			1.02	0.77		0.76		
Chrysene	ug/L		ND						ND		
Copper	ug/L	3.34	3.87	4.12	4.05	2.77	3.28	3.23	2.52	3.16	2.82
Cyanide, total	ug/L		DNQ Est. Conc. 2.23				ND		ND		
delta-BHC	ug/L		ND		ND		ND		ND		ND
Di-n-butyl phthalate	ug/L		ND						ND		
Di-n-octyl phthalate	ug/L		ND						ND		
Dibenzo(a,h)anthracene	ug/L		ND		ND	ND	ND		ND		ND
Dibromochloromethane	ug/L		0.53		ND		0.85		1.3		1.3
Dieldrin	ug/L	ND	DNQ Est. Conc. 0.006	DNQ Est. Conc. 0.003	ND	ND	ND	ND	DNQ Est. Conc. 0.003	ND	ND
Diethyl phthalate	ug/L		ND						ND		
Dimethyl phthalate	ug/L		ND						ND		
Dissolved oxygen	mg/L	6.6	6.9	6.8	6.5	6.4	6.4	5.8	6.2	5.7	6.4
E. coli	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	ug/L		ND						ND		
Endrin	ug/L		ND		ND		ND		ND		ND
Endrin aldehyde	ug/L		ND						ND		
Ethylbenzene	ug/L		ND		ND		ND		ND		ND
Fluoranthene	ug/L		ND		ND		ND		ND		ND
Fluorene	ug/L		ND		ND		ND		ND		ND
Fluoride	mg/L	0.590	0.474		0.533		0.417		0.519		0.690
gamma-BHC	ug/L		ND		ND		ND		ND		ND
Gross alpha radioactivity	pCi/L		1.39				4.98		-0.275		
Gross beta radioactivity	pCi/L		10.7				11.8		9.24		
Heptachlor	ug/L		ND		ND		ND		ND		ND
Heptachlor epoxide	ug/L		ND		ND		ND		ND		ND
Hexachlorobenzene	ug/L		ND				ND		ND		
Hexachlorobutadiene	ug/L		ND						ND		
Hexachlorocyclopentadiene	ug/L		ND				ND		ND		
Hexachloroethane	ug/L		ND							ND	
Indeno (1,2,3-cd) pyrene	ug/L		ND		ND	ND	ND		ND		ND
Iron	ug/L		36.3				31.8		30.6		
Isophorone	ug/L		ND						ND		
Lead	ug/L	0.33	0.29	DNQ Est. Conc. 0.23	DNQ Est. Conc. 0.21	0.27	0.29	DNQ Est. Conc. 0.21	0.31	DNQ Est. Conc. 0.17	DNQ Est. Conc. 0.22
Mercury	ug/L		0.0021			0.0023	0.0032		0.0049		
Methoxychlor	ug/L		ND		ND		ND		ND		ND

Parameter	Units	November 2022	December 2022	Monthly Average			NPDES Limit		Method	ML	MDL	RL
				Minimum	Average	Maximum	Max Daily	Monthly Average				
Aroclor 1260	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.1	0.5
Arsenic	ug/L	DNQ Est. Conc. 0.85	DNQ Est. Conc. 0.68	DNQ Est. Conc. 0.68	ND	DNQ Est. Conc. 0.85			EPA 200.8	2	0.05 - 0.07	1.00
Barium	ug/L		54.5	27.4	43.7	54.5			EPA 200.8		0.07 - 0.10	0.50
Benzene	ug/L		ND	ND	ND	ND			EPA 624.1		0.06 - 0.09	0.50
Benzidine	ug/L		ND	ND	ND	ND			EPA 625.1		0.77	5.0
Benzo(a)anthracene	ug/L			ND	ND	ND			EPA 625.1		0.46	1.0
Benzo(a)pyrene	ug/L		ND	ND	ND	ND			EPA 525.2 / EPA 610	10	0.013 - 0.020	0.020 - 0.10
Benzo(b)fluoranthene	ug/L			ND	ND	ND			EPA 610	10	0.015	0.020
Benzo(g,h,i)perylene	ug/L			ND	ND	ND			EPA 625.1		0.52	1.0
Benzo(k)fluoranthene	ug/L	ND	ND	ND	ND	ND			EPA 610	10	0.014	0.020
Beryllium	ug/L	ND	ND	ND	ND	ND			EPA 200.8	0.5	0.023 - 0.026	0.25
beta-BHC	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.003	0.005
beta-Endosulfan	ug/L			ND	ND	ND			608.3/8081/8082		0.004	0.01
bis(2-Chloroethoxy) methane	ug/L			ND	ND	ND			EPA 625.1		0.28	1.0
bis(2-Chloroethyl) ether	ug/L			ND	ND	ND			EPA 625.1		0.27	1.0
bis(2-Chloroisopropyl) ether	ug/L			ND	ND	ND			EPA 625.1		0.25	1.0
bis(2-Ethylhexyl) phthalate	ug/L		ND	ND	ND	ND			EPA 625.1		0.55	1.0
BOD	mg/L	ND	ND	ND	ND	ND	45	20	SM 5210B		Not applicable	3
Boron	mg/L	0.36	0.32	0.28	0.31	0.36		1.0 (5)	EPA 200.8		0.008 - 0.013	0.020
Bromodichloromethane	ug/L		5.2	DNQ Est. Conc. 0.23	3.7	5.2			EPA 624.1		0.11 - 0.15	0.50
Bromoform	ug/L		ND	ND	ND	ND			EPA 624.1		0.13 - 0.18	0.50
Butyl benzyl phthalate	ug/L			ND	ND	ND			EPA 625.1		0.58	1.0
Cadmium	ug/L	ND	ND	ND	ND	ND	.	1.1 (6)	EPA 200.8	0.25	0.030 - 0.035	0.20
Carbon tetrachloride	ug/L		ND	ND	ND	ND			EPA 624.1		0.18 - 0.34	0.50
Chloride	mg/L	120	131	108	121	131		180	EPA 300.0		0.024 - 0.144	10.0
Chlorobenzene	ug/L		ND	ND	ND	ND			EPA 624.1		0.07 - 0.10	0.50
Chloroethane	ug/L		ND	ND	ND	ND			EPA 624.1		0.22 - 0.31	0.50
Chloroform	ug/L		15.5	2.5	10.6	15.5			EPA 624.1		0.08 - 0.35	0.50
Chromium III	ug/L	0.73	0.82	0.57	0.75	0.94			EPA 200.8		Not applicable	Not applicable
Chromium VI	ug/L	0.16	0.15	0.08	0.13	0.16			EPA 218.6 (Dissolved)		0.02	0.05
Chromium, total	ug/L	0.92	0.73	0.73	0.86	1.02			EPA 200.8	0.5	0.27 - 0.28	0.50
Chrysene	ug/L			ND	ND	ND			EPA 610	10	0.014	0.020
Copper	ug/L	2.99	2.31	2.31	3.20	4.12	16.8 (6) / 25.4 (5)	13 (6) / 19.4 (5)	EPA 200.8	0.5	0.12 - 0.14	0.50
Cyanide, total	ug/L		ND	ND	ND	DNQ Est. Conc. 2.23			SM 4500 CN E	5	2.00	5.00
delta-BHC	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.003	0.005
Di-n-butyl phthalate	ug/L			ND	ND	ND			EPA 625.1		0.59	1.0
Di-n-octyl phthalate	ug/L			ND	ND	ND			EPA 625.1		0.69	1.0
Dibenzo(a,h)anthracene	ug/L	ND	ND	ND	ND	ND			EPA 610	10	0.014	0.020
Dibromochloromethane	ug/L		0.97	ND	0.8	1.3			EPA 624.1		0.11 - 0.13	0.50
Dieldrin	ug/L	ND	DNQ Est. Conc. 0.002	ND	ND	DNQ Est. Conc. 0.006	0.00028	0.00014	608.3/8081/8082		0.002 - 0.003	0.01
Diethyl phthalate	ug/L			ND	ND	ND			EPA 625.1		0.42	1.0
Dimethyl phthalate	ug/L			ND	ND	ND			EPA 625.1		0.41	1.0
Dissolved oxygen	mg/L	6.0	7.1	5.7	6.4	7.1			HACH 10360 LDO		Not applicable	0.2
E. coli	No./100mL	ND	ND	ND	ND	ND			SM 9223 Quanti-Tray		Not applicable	1
Endosulfan sulfate	ug/L			ND	ND	ND			608.3/8081/8082		0.004	0.01
Endrin	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.004	0.01
Endrin aldehyde	ug/L			ND	ND	ND			608.3/8081/8082		0.003	0.01
Ethylbenzene	ug/L		ND	ND	ND	ND			EPA 624.1		0.11 - 0.15	0.50
Fluoranthene	ug/L		ND	ND	ND	ND			EPA 625.1		0.69	1.0
Fluorene	ug/L		ND	ND	ND	ND			EPA 625.1		0.58	1.0
Fluoride	mg/L		0.461	0.417	0.526	0.690			SM 4500 F C		0.040	0.100
gamma-BHC	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.003	0.01
Gross alpha radioactivity	pCi/L		0.0175	-0.275	1.60	4.98			EPA 900.0		1.36 - 3.66	3.00
Gross beta radioactivity	pCi/L		4.10	4.10	9.0	11.8			EPA 900.0		0.506 - 1.55	4.00
Heptachlor	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.002	0.01
Heptachlor epoxide	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.003	0.01
Hexachlorobenzene	ug/L		ND	ND	ND	ND			EPA 508.1 / EPA 625.1		0.0039 - 0.47	0.10 - 1.0
Hexachlorobutadiene	ug/L			ND	ND	ND			EPA 625.1		0.96	1.0
Hexachlorocyclopentadiene	ug/L		ND	ND	ND	ND			EPA 525.2 / EPA 625.1		0.092 - 2.0	1.0 - 5.0
Hexachloroethane	ug/L			ND	ND	ND			EPA 625.1		0.81	1.0
Indeno (1,2,3-cd) pyrene	ug/L	ND	ND	ND	ND	ND			EPA 610	10	0.013	0.020
Iron	ug/L		36.8	30.6	33.9	36.8			EPA 200.8		5.7 - 8.8	20.0
Isophorone	ug/L			ND	ND	ND			EPA 625.1		0.28	1.0
Lead	ug/L	0.26	DNQ Est. Conc. 0.20	DNQ Est. Conc. 0.17	0.14	0.33	62 (6) / 166 (7)		EPA 200.8	0.5	0.01 - 0.02	0.25
Mercury	ug/L	0.0058	0.0057	0.0021	0.0040	0.0058		0.012 (8)	EPA 1631E		0.00010	0.00050
Methoxychlor	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.004	0.01

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Methyl bromide (bromomethane)	ug/L		ND		ND		ND		ND		ND
Methyl chloride (chloromethane)	ug/L		ND		ND		ND		ND		ND
Methyl tert-butyl ether	ug/L		ND		ND		ND		ND		ND
Methylene chloride	ug/L		ND		DNQ Est. Conc. 0.30		ND		ND		ND
Monthly Median TST	PASS/FAIL										
n-Nitrosodi-n-propylamine	ug/L		ND				ND		ND		
n-Nitrosodimethylamine (NDMA)	ug/L	0.0048	0.0081	0.013	0.0076	0.0046	0.0093	0.010	0.0082	0.0069	0.0074
n-Nitrosodiphenylamine	ug/L		ND						ND		
Naphthalene	ug/L		ND				ND		ND		
Nickel	ug/L		3.27			2.11	2.53		1.90		
Nitrate + nitrite as nitrogen	mg/L	6.11	5.98	6.96	6.76	7.01	5.91	7.27	5.77	6.25	6.89
Nitrate nitrogen	mg/L	5.86	5.88	6.84	6.71	6.84	5.70	7.12	5.31	6.07	6.63
Nitrite nitrogen	mg/L	0.253	0.104	0.123	0.047	0.175	0.206	0.153	0.459	0.181	0.261
Nitrobenzene	ug/L		ND						ND		
OctaCDD	pg/L		ND			ND			ND		
OctaCDF	pg/L		ND			ND			ND		
Oil and grease	mg/L	ND	ND	ND	ND	DNQ Est. Conc. 1.8	ND	DNQ Est. Conc. 2.6	ND	ND	ND
Organic nitrogen	mg/L	1.24	1.08	0.446	1.21	0.523	0.966	0.330	0.730	0.045	0.205
PCB-037	pg/L								DNQ Est. Conc. 4.9		
PCB-052	pg/L								ND		
PCB-066	pg/L								ND		
PCB-070 and 074 (Co: 61,70,74,76)	pg/L								ND		
PCB-077	pg/L								DNQ Est. Conc. 5.5		
PCB-081	pg/L								ND		
PCB-087 and 119 (Co: 86,87,97,108,119)	pg/L								DNQ Est. Conc. 17		
PCB-099	pg/L								DNQ Est. Conc. 7.2		
PCB-101 (Co: 90/101/113)	pg/L								DNQ Est. Conc. 29(1)		
PCB-105	pg/L								DNQ Est. Conc. 2.9		
PCB-110 (Co: 110,115)	pg/L								DNQ Est. Conc. 19(1)		
PCB-114	pg/L								ND		
PCB-118	pg/L								DNQ Est. Conc. 13(1)		
PCB-123	pg/L								ND		
PCB-126	pg/L								ND		
PCB-128 (Co: 128,166)	pg/L								ND		
PCB-138 (Co: 129,138,163)	pg/L								DNQ Est. Conc. 19		
PCB-149 (Co: 147,149)	pg/L								DNQ Est. Conc. 26(1)		
PCB-151 (Co: 135,151)	pg/L								DNQ Est. Conc. 16		
PCB-158	pg/L								DNQ Est. Conc. 1.6		
PCB-167	pg/L								DNQ Est. Conc. 2.0		
PCB-169	pg/L								ND		
PCB-170	pg/L								ND		
PCB-177	pg/L								DNQ Est. Conc. 4.6		
PCB-183	pg/L								DNQ Est. Conc. 3.5		
PCB-187	pg/L								DNQ Est. Conc. 5.1(2)		
PCB-189	pg/L								ND		
PCB-194	pg/L								ND		
PCB-201	pg/L								ND		
PCB-206	pg/L								ND		
PCB-153/168	pg/L								DNQ Est. Conc. 19		
PCB-156/157	pg/L								DNQ Est. Conc. 2.5		
PCB-18/30	pg/L								ND		
PCB-180/193	pg/L								DNQ Est. Conc. 11		
PCB-20/28	pg/L								ND		
PCB-44/47/65	pg/L								ND		
PCB-49/69	pg/L								ND		
Pentachlorophenol	ug/L		ND		ND		ND		ND		ND
Perchlorate	ug/L	0.20	0.23	0.27	0.22	0.25	DNQ Est. Conc. 0.35	DNQ Est. Conc. 0.35	DNQ Est. Conc. 0.15	0.89	0.58
pH	SU	7.3	7.4	7.3	7.3	7.3	7.4	7.4	7.4	7.3	7.3
Phenanthrene	ug/L		ND		ND		ND		ND		ND
Phenol	ug/L		DNQ Est. Conc. 0.25		DNQ Est. Conc. 0.32		ND		ND		ND
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L		ND		ND		ND		ND		ND
Polychlorinated Biphenyls (PCBs), Sum as Congeners	pg/L								ND		
Potassium	mg/L	16.5	14.7	16.0	16.0	16.0	15.6	15.9	15.6	14.2	14.5
Pyrene	ug/L		ND						ND		
Radium-226 + radium-228	pCi/L		0.852				0.421		0.928		
Selenium	ug/L		DNQ Est. Conc. 0.55			DNQ Est. Conc. 0.52	DNQ Est. Conc. 0.47		DNQ Est. Conc. 0.28		
Settleable solids	mL/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Parameter	Units	November 2022	December 2022	Monthly Average			NPDES Limit		Method	ML	MDL	RL
				Minimum	Average	Maximum	Max Daily	Monthly Average				
Methyl bromide (bromomethane)	ug/L		ND	ND	ND	ND			EPA 624.1		0.27 - 0.30	0.50
Methyl chloride (chloromethane)	ug/L		ND	ND	ND	ND			EPA 624.1		0.19 - 0.41	0.50
Methyl tert-butyl ether	ug/L		ND	ND	ND	ND			EPA 624.1		0.08 - 0.40	0.50
Methylene chloride	ug/L		ND	ND	ND	DNQ Est. Conc. 0.30			EPA 624.1		0.16 - 0.46	0.50
Monthly Median TST	PASS/FAIL								EPA-821-R-02-013			
n-Nitrosodi-n-propylamine	ug/L		ND	ND	ND	ND			EPA 625.1 / EPA 1625B (Modified)		0.00063 - 0.36	0.0020 - 1.0
n-Nitrosodimethylamine (NDMA)	ug/L	0.0089	0.0050	0.0050	0.008	0.013			EPA 1625B (Modified)		0.0005 - 0.00052	0.0020
n-Nitrosodiphenylamine	ug/L			ND	ND	ND			EPA 625.1 / EPA 1625B (Modified)		0.00132 - 0.64	0.010 - 1.0
Naphthalene	ug/L		ND	ND	ND	ND			EPA 625.1		0.20	1.0
Nickel	ug/L	3.63	1.19	1.19	2.44	3.63			EPA 200.8	1	0.08 - 0.50	1.00
Nitrate + nitrite as nitrogen	mg/L	7.34	7.03	5.77	6.61	7.34		8	SM 4500 NO3 F		0.097 - 0.108	0.230
Nitrate nitrogen	mg/L	7.08	6.94	5.31	6.42	7.12		8	Calculated		Not applicable	Not applicable
Nitrite nitrogen	mg/L	0.263	0.095	0.047	0.193	0.459		1.0	SM 4500 NO3 F		0.012	0.030
Nitrobenzene	ug/L			ND	ND	ND			EPA 625.1		0.31	1.0
OctaCDD	pg/L	ND		ND	ND	ND			EPA 1613B		0.19 - 0.36	94 -100
OctaCDF	pg/L	ND		ND	ND	ND			EPA 1613B		0.33 - 0.46	94 - 100
Oil and grease	mg/L	DNQ Est. Conc. 3.0	ND	ND	ND	DNQ Est. Conc. 3.0	15	10	EPA 1664A		1.0 - 2.1	5.5 - 5.7
Organic nitrogen	mg/L	0.253	0.657	0.045	0.640	1.24			Calculated		Not applicable	Not applicable
PCB-037	pg/L			DNQ Est. Conc. 4.9	ND	DNQ Est. Conc. 4.9			EPA 1668		1.9	20
PCB-052	pg/L			ND	ND	ND			EPA 1668		1.7	100
PCB-066	pg/L			ND	ND	ND			EPA 1668		0.91	41
PCB-070 and 074 (Co: 61,70,74,76)	pg/L			ND	ND	ND			EPA 1668		0.95	160
PCB-077	pg/L			DNQ Est. Conc. 5.5	ND	DNQ Est. Conc. 5.5			EPA 1668		0.90	20
PCB-081	pg/L			ND	ND	ND			EPA 1668		0.93	20
PCB-087 and 119 (Co: 86,87,97,108,119)	pg/L			DNQ Est. Conc. 17	ND	DNQ Est. Conc. 17			EPA 1668		1.5	120
PCB-099	pg/L			DNQ Est. Conc. 7.2	ND	DNQ Est. Conc. 7.2			EPA 1668		1.3	41
PCB-101 (Co: 90/101/113)	pg/L			DNQ Est. Conc. 29	ND	DNQ Est. Conc. 29			EPA 1668		1.7	120
PCB-105	pg/L			DNQ Est. Conc. 2.9	ND	DNQ Est. Conc. 2.9			EPA 1668		1.3	41
PCB-110 (Co: 110,115)	pg/L			DNQ Est. Conc. 19	ND	DNQ Est. Conc. 19			EPA 1668		1.3	41
PCB-114	pg/L			ND	ND	ND			EPA 1668		1.4	41
PCB-118	pg/L			DNQ Est. Conc. 13	ND	DNQ Est. Conc. 13			EPA 1668		1.2	41
PCB-123	pg/L			ND	ND	ND			EPA 1668		1.4	41
PCB-126	pg/L			ND	ND	ND			EPA 1668		1.5	20
PCB-128 (Co: 128,166)	pg/L			ND	ND	ND			EPA 1668		0.81	81
PCB-138 (Co: 129,138,163)	pg/L			DNQ Est. Conc. 19	ND	DNQ Est. Conc. 19			EPA 1668		0.85	61
PCB-149 (Co: 147,149)	pg/L			DNQ Est. Conc. 26	ND	DNQ Est. Conc. 26			EPA 1668		0.84	41
PCB-151 (Co: 135,151)	pg/L			DNQ Est. Conc. 16	ND	DNQ Est. Conc. 16			EPA 1668		0.86	41
PCB-158	pg/L			DNQ Est. Conc. 1.6	ND	DNQ Est. Conc. 1.6			EPA 1668		0.61	20
PCB-167	pg/L			DNQ Est. Conc. 2.0	ND	DNQ Est. Conc. 2.0			EPA 1668		0.42	41
PCB-169	pg/L			ND	ND	ND			EPA 1668		0.48	20
PCB-170	pg/L			ND	ND	ND			EPA 1668		0.89	41
PCB-177	pg/L			DNQ Est. Conc. 4.6	ND	DNQ Est. Conc. 4.6			EPA 1668		0.74	20
PCB-183	pg/L			DNQ Est. Conc. 3.5	ND	DNQ Est. Conc. 3.5			EPA 1668		0.67	20
PCB-187	pg/L			DNQ Est. Conc. 5.1	ND	DNQ Est. Conc. 5.1			EPA 1668		0.66	20
PCB-189	pg/L			ND	ND	ND			EPA 1668		0.58	20
PCB-194	pg/L			ND	ND	ND			EPA 1668		0.63	41
PCB-201	pg/L			ND	ND	ND			EPA 1668		0.44	20
PCB-206	pg/L			ND	ND	ND			EPA 1668		0.96	41
PCB-153/168	pg/L			DNQ Est. Conc. 19	ND	DNQ Est. Conc. 19			EPA 1668		0.68	41
PCB-156/157	pg/L			DNQ Est. Conc. 2.5	ND	DNQ Est. Conc. 2.5			EPA 1668		0.52	41
PCB-18/30	pg/L			ND	ND	ND			EPA 1668		1.7	41
PCB-180/193	pg/L			DNQ Est. Conc. 11	ND	DNQ Est. Conc. 11			EPA 1668		0.65	41
PCB-20/28	pg/L			ND	ND	ND			EPA 1668		2.7	81
PCB-44/47/65	pg/L			ND	ND	ND			EPA 1668		1.7	120
PCB-49/69	pg/L			ND	ND	ND			EPA 1668		1.5	41
Pentachlorophenol	ug/L		ND	ND	ND	ND			EPA 625.1		0.82	1.0
Perchlorate	ug/L	0.40	0.23	DNQ Est. Conc. 0.15	0.27	0.89			EPA 331.0		0.0201 - 0.086	0.05 - 0.50
pH	SU	7.3	7.3	7.3	7.3	7.4			SM 4500 H+ B		Not applicable	Not applicable
Phenanthrene	ug/L		ND	ND	ND	ND			EPA 625.1		0.59	1.0
Phenol	ug/L		DNQ Est. Conc. 0.52	ND	ND	DNQ Est. Conc. 0.52			EPA 625.1		0.24	1.0
Polychlorinated Biphenyls (PCBs), Sum as Aroclors	ug/L		ND	ND	ND	ND			Calculated		Not applicable	Not applicable
Polychlorinated Biphenyls (PCBs), Sum as Congeners	pg/L			ND	ND	ND			Calculated		Not applicable	Not applicable
Potassium	mg/L	15.2	14.8	14.2	15.4	16.5			EPA 200.8		0.020 - 0.022	0.20
Pyrene	ug/L			ND	ND	ND			EPA 625.1		0.60	1.0
Radium-226 + radium-228	pCi/L		0.185	0.185	0.596	0.928			Calculated		Not applicable	Not applicable
Selenium	ug/L	DNQ Est. Conc. 0.58	DNQ Est. Conc. 0.60	DNQ Est. Conc. 0.28	ND	DNQ Est. Conc. 0.60			EPA 200.8	2	0.04	1.00
Settleable solids	mL/L	ND	ND	ND	ND	ND			SM 2540F		Not applicable	0.1

Parameter	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022
Silver	ug/L		ND			ND	ND		ND		
Strontium-90	pCi/L		0.276				-0.177		0.446		
Sulfate	mg/L	113	136	143	128	134	134	110	108	98.6	115
Surfactant (CTAS)	mg/L		DNQ Est. Conc. 0.09				ND		ND		
Surfactant (MBAS)	mg/L		DNQ Est. Conc. 0.06				DNQ Est. Conc. 0.08		DNQ Est. Conc. 0.06		DNQ Est. Conc. 0.08
Technical chlordane	ug/L		ND				ND		ND		
Temperature	Degrees F	71.0	71.6	74.0	76.6	78.9	81.8	83.5	85	85.3	82.8
Tetrachloroethylene	ug/L		ND		ND		ND		ND		ND
Thallium	ug/L		ND			ND	ND		ND		
Toluene	ug/L		ND		DNQ Est. Conc. 0.16		DNQ Est. Conc. 0.08		DNQ Est. Conc. 0.07		DNQ Est. Conc. 0.20
Total coliform	No./100mL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total dissolved solids	mg/L	638	610	649	650	631	502	640	625	573	648
Total hardness	mg/L	218	218	239	242	235	242	229	223	195	208
Total nitrogen	mg/L	8.00	7.43	7.92	8.31	7.96	7.34	8.38	8.46	6.83	7.78
Total phosphorus	mg/L	0.140	0.122	0.147	0.111	0.083	0.084	0.113	0.084	0.110	0.109
Total residual chlorine	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total suspended solids	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	ug/L		ND		ND		ND		ND		ND
Toxic equivalence	ug/L		ND			ND			ND		
Trichloroethylene	ug/L		ND		ND		ND		ND		ND
Tritium	pCi/L		-154				-12.6		118		
Turbidity (flow proportioned avg daily value) (11)	NTU	DNQ Est. Conc. 0.30	0.55	DNQ Est. Conc. 0.40	DNQ Est. Conc. 0.35	DNQ Est. Conc. 0.30	DNQ Est. Conc. 0.30	DNQ Est. Conc. 0.35	DNQ Est. Conc. 0.30	DNQ Est. Conc. 0.35	DNQ Est. Conc. 0.35
Uranium	pCi/L		1.74				2.39		1.31		
Vinyl chloride	ug/L		ND		ND		ND		ND		ND
Zinc	ug/L	67.4	72.8	63.6	64.9	59.1	53.5	57.2	49.0	48.2	49.1

Parameter	Units	November 2022	December 2022	Monthly Average			NPDES Limit		Method	ML	MDL	RL
				Minimum	Average	Maximum	Max Daily	Monthly Average				
Silver	ug/L	ND	ND	ND	ND	ND			EPA 200.8	0.25	0.02	0.20
Strontium-90	pCi/L		0.330	-0.177	0.263	0.446			EPA 905.0		0.336 - 2.31	3.00
Sulfate	mg/L	146	154	98.6	127	154		300	EPA 300.0		0.040 - 0.161	2.50
Surfactant (CTAS)	mg/L	ND	ND	ND	ND	DNQ Est. Conc. 0.09			SM 5540D		0.06 - 0.08	0.10
Surfactant (MBAS)	mg/L	0.095	0.050	0.050	0.024	0.095		0.5	SM 5540C		0.023 - 0.03	0.050 - 0.10
Technical chlordane	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.02	0.05
Temperature	Degrees F	77.6	74.1	70.8	78.5	85.3	86 (9)		EPA 170.1 (oF)		Not applicable	Not applicable
Tetrachloroethylene	ug/L		ND	ND	ND	ND			EPA 624.1		0.16 - 0.18	0.50
Thallium	ug/L	ND	ND	ND	ND	ND			EPA 200.8	1	0.019 - 0.024	0.25
Toluene	ug/L		DNQ Est. Conc. 0.06	ND	ND	DNQ Est. Conc. 0.20			EPA 624.1		0.04 - 0.15	0.50
Total coliform	No./100mL	ND	ND	ND	ND	ND	(10)	(10)	SM 9222B		Not applicable	1
Total dissolved solids	mg/L	644	700	502	626	700		750	SM 2540C		Not applicable	41.7 - 83.3
Total hardness	mg/L	226	237	195	226	242			Calculated		Not applicable	Not applicable
Total nitrogen	mg/L	8.28	8.02	6.83	7.89	8.46			Total Nitrogen Calculation		Not applicable	Not applicable
Total phosphorus	mg/L	0.136	0.075	0.075	0.110	0.147			SM4500-P H		0.015	0.030 - 0.033
Total residual chlorine	mg/L	ND	ND	ND	ND	ND	0.1		SM 4500 Cl G		0.01 - 0.02	0.10
Total suspended solids	mg/L	ND	ND	ND	ND	ND	45	15	SM 2540D		Not applicable	2.5
Toxaphene	ug/L		ND	ND	ND	ND			608.3/8081/8082		0.05	0.5
Toxic equivalence	ug/L	ND		ND	ND	ND			Calculated		Not applicable	Not applicable
Trichloroethylene	ug/L		ND	ND	ND	ND			EPA 624.1		0.12 - 0.15	0.50
Tritium	pCi/L		-79.7	-154	30	118			EPA 906.0		300 - 370	500
Turbidity (flow proportioned avg daily value)	NTU	DNQ Est. Conc. 0.40	DNQ Est. Conc. 0.35	DNQ Est. Conc. 0.30	0.04	0.55	2 (11)		SM 2130B		0.060 - 0.13	0.50
Uranium	pCi/L		1.65	1.31	1.77	2.39			EPA 908.0		0.128 - 0.15	1.00
Vinyl chloride	ug/L		ND	ND	ND	ND			EPA 624.1		0.25 - 0.37	0.50
Zinc	ug/L	54.3	49.8	48.2	57.4	72.8	159 (6)	114 (6)	EPA 200.8	1	0.92 - 0.95	1.00

(1) Blank contamination observed.
(2) Possible interference observed. The measured ion ratio did not meet qualitative criteria for analysis and results are considered to be an estimated maximum possible concentration.
(3) For Discharge Point 001, the Maximum Daily Limit for Ammonia is 7.5 mg/L from April 1 to September 30 and 15.9 mg/L from October 1 to March 31. For Discharge Points 002, 003, and 004 the Maximum Daily Limit for Ammonia is 10.1 mg/L from April 1 to September 30 and 9.96 mg/L from October 1 to March 31.
(4) For Discharge Point 001, the Monthly Average Limit for Ammonia is 3.3 mg/L from April 1 to September 30 and 4.1 mg/L from October 1 to March 31. For Discharge Points 002, 003, and 004 the Monthly Average Limit for Ammonia is 3.7 mg/L for the entire year.
(5) Effluent limits for Discharge Point 001 (San Gabriel River).
(6) Wet weather effluent limits for Discharge Points 002, 003, and 004.
(7) Wet weather effluent limits for Discharge Point 001.
(8) Annual average effluent limit for Discharge Points 002, 003, and 004.
(9) The temperature of wastes discharged shall not exceed 86F except as a result of external ambient temperature.
(10) The number of total coliform bacteria shall not exceed 2.2/100 mL as a 7-day median, 23/100 mL in more than one sample within any 30-day period, and 240/100 mL in any sample.
(11) The turbidity shall not exceed an average 2 NTU in a 24-hour period, 5 NTU more than 5 percent of the time with in a 24-hour period, and 10 NTU at any time.