

Application Type Renewal
Facility Type Municipal
Major / Minor Major

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

 Application No.
 PA0022241

 APS ID
 651218

 Authorization ID
 1216927

Applicant and Facility Information

Applicant Name	Borou	ugh of California	Facility Name	California Borough STP
Applicant Address	225 3	rd Street	Facility Address	1 Mechanic Street
	Califo	rnia, PA 15419		California, PA 15417
Applicant Contact	Mr. Pa	atsy Alfano	Facility Contact	Mr. Doug Baker
Applicant Phone	(724)	938-8878	Facility Phone	(724) 938-8644
Client ID	2933		Site ID	253731
Ch 94 Load Status	Not O	verloaded	Municipality	California Borough
Connection Status	No Lir	mitations	County	Washington
Date Application Rece	eived	February 13, 2018	EPA Waived?	No
Date Application Accepted		February 16, 2018	If No, Reason	Major Facility
Purpose of Application	า	Application for a renewal of a	n existing NPDES Permit for	the discharge of treated Sewage.

Summary of Review

The applicant has applied for a renewal of an existing NPDES Permit, Permit No. PA0022241, which was previously issued by the Department on June 18, 2013. That permit expired on June 30, 2018.

WQM Permit 6312403, issued on March 21, 2013, approved construction of a new STP with a hydraulic design capacity of 1.20 MGD and organic capacity of 1800 lbs/day. Construction was completed in January of 2015. The existing treatment process consists of 2 SBRs, 1 aerobic digester, UV disinfection and a centrifuge for dewatering of digested sludge. Dewatered solids are disposed of at Chestnut Valley Landfill (Permit No. 100419).

The receiving stream, Monongahela River, is classified as a WWF and is located in State Watershed No. 19-C.

The applicant has complied with Act 14 Notifications and no comments were received.

The application states there are no stormwater related outfalls located at the STP. Part C will not contain language titled "Requirements Applicable to Stormwater Outfalls".

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request

Approve	Deny	Signatures	Date
х		hill C Mitebell	
		William C. Mitchell, E.I.T. / Project Manager	February 4, 2021
х		Chke	
		Christopher Kriley, P.E. / Clean Water Program Manager	February 5, 2021

Summary of Review

or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Discharge, Receiving Wate	rs and Water Supply Info	ormation	
Outfall No. 001		_ Design Flow (MGD)	1.2
Latitude <u>40° 04' 11.0</u>	0"	_ Longitude	79° 53' 44.00"
Quad Name California		Quad Code	1806
Wastewater Description:	Sewage Effluent		
Receiving Waters <u>Monc</u>	ngahela River	Stream Code	37185
NHD Com ID		RMI	51.4
Drainage Area 5130		Yield (cfs/mi ²)	
Q ₇₋₁₀ Flow (cfs) 530		Q ₇₋₁₀ Basis	US Army Corp of Engineers & USGS StreamStats
Elevation (ft) 744		Slope (ft/ft)	0.0001
Watershed No. 19-C		Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	PCB		
Source(s) of Impairment	Source Unknown		
TMDL Status	Final	Name Monongahe	la River TMDL
Background/Ambient Data pH (SU)		Data Source	
Temperature (°F)			
Hardness (mg/L)			
Other:			
Nearest Downstream Publ	ic Water Supply Intake	Newell Municipal Authority	
	jahela River	Flow at Intake (cfs)	
PWS RMI 50.6		Distance from Outfall (mi)	0.8

Changes Since Last Permit Issuance: NONE

Other Comments: The discharge is to the Monongahela River which has an EPA Approved TMDL and is impaired by PCBs and Chlordane. No WLAs have been developed for this sewage discharge as neither PCB nor Chlordane is typically found in sewage, but instead found in legacy sediments.

Treatment Facility Summary							
reatment Facility Na	me: California Borough STF)					
WQM Permit No.	Issuance Date						
6312403	3/21/2013						
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)			
Sewage	Secondary	Sequencing Batch Reactor	Ultraviolet	0.598			
Hydraulic Capacity	Organic Capacity			Biosolids			
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposa			
1.2	1800	Not Overloaded	Centrifugation	Landfill			

Changes Since Last Permit Issuance: None

Compliance History

Operations Compliance Check Summary Report

Facility: California_Borough_STP

NPDES Permit No.: PA0022241

Compliance Review Period: 12/14/2015 – 12/14/2020

Open Violations by Client Summary

None.

Inspection Summary

INSP ID	INSPECTED DATE	INSP TYPE	AGENCY	INSPECTION RESULT DESC	# OF VIOLATIONS
3084490	09/25/2020	Compliance Evaluation	PA Dept of Environmental Protection	No Violations Noted	0
3080262	09/02/2020	Administrative/File Review	PA Dept of Environmental Protection	Violation(s) Noted	1
2781463	04/25/2018	Compliance Evaluation	PA Dept of Environmental Protection	No Violations Noted	0
2781427	03/23/2018	Compliance Evaluation	PA Dept of Environmental Protection	No Violations Noted	0
2660285	10/19/2017	Routine/Partial Inspection	PA Dept of Environmental Protection	No Violations Noted	0
2571724	03/16/2017	Compliance Evaluation	PA Dept of Environmental Protection	No Violations Noted	0
2501438	07/18/2016	Compliance Evaluation	PA Dept of Environmental Protection	Violation(s) Noted	1

Violation Summary

VIOL ID	VIOLATION DATE	VIOLATION TYPE	VIOLATION TYPE DESC	RESOLVED DATE
894210	09/02/2020	92A.62	NPDES - Failure to pay annual fee	11/18/2020
764398	07/18/2016	92A.41(A)10C	NPDES - Failure to collect representative samples	01/04/2017

Enforcement Summary

No enforcement actions.

DMR Violation Summary

Current eDMR user.

Effluent limit violation summary 12/14/2015 – 12/14/2020:

MONITORING END DATE	OUTFALL	PARAMETER	SAMPLE VALUE	PERMIT VALUE	UNIT OF MEASURE	STATISTICAL BASE CODE
07/31/2018	001	Fecal Coliform	1050	1000	CFU/100 ml	Instantaneous Maximum
03/31/2019	001	Fecal Coliform	12100	10000	CFU/100 ml	Instantaneous Maximum
06/30/2019	001	Fecal Coliform	4350	1000	CFU/100 ml	Instantaneous Maximum

Compliance Status:

Facility has no compliance issues.

Completed by: David Roote

Completed date: 12/14/2020

Development of Effluent Limitations

Outfall No.	001		Design Flow (MGD)	1.2
Latitude	40° 4' 11.00"		Longitude	-79º 53' 44.00"
Wastewater D	escription:	Sewage Effluent	-	

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
CBOD5	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Solids	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
рН	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform				
(5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform				
(5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform				
(10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform				
(10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Comments: Water Quality Analysis Modeling for CBOD5, DO and Ammonia-Nitrogen is not necessary, and we will again re-impose Federal Minimum Secondary Effluent Limitations due to the large dilution available in the Monongahela River. Q7-10 flow of the Monongahela River at the point of discharge is 530 cfs. The instream to wasteflow dilution ration = total stream flow (531.85667 cfs) / discharge flow (1.85667 cfs) = 286/1.

For existing discharges (NPDES Renewal Applications), if WQM7.0 modeling results for summer indicates that an average monthly warm period limit of 25 mg/L (default in model) is acceptable for ammonia-nitrogen, a year-round monitoring requirement, at a minimum should be established. Due to the large dilution ration discussed above, assume that a monthly warm period limit of 25 mg/L is acceptable for ammonia-nitrogen and impose a year-round monitoring requirement for ammonia-nitrogen that is consistent with Table 6-3 of the Permit Writers Manual. Application data for Outfall # 001 indicates that long-term average ammonia-nitrogen concentration in the discharge is 0.74 mg/L.

Water Quality-Based Limitations

A "Reasonable Potential Analysis" (Attachment Toxic Management Spreadsheet) was conducted. No limitations were determined through water quality modeling, using DEPs Toxic Management Spreadsheet Version 1.1, and no WQBELs will be imposed on this facility during this permit cycle. For modeling purposes, the river width is 542.5 ft. (measured from Google Earth Pro) and an assumed river depth of 12 ft.

Best Professional Judgment (BPJ) Limitations

Comments: A Dissolved Oxygen minimum limitation of 4.0 mg/L will be implemented based on the standard in 25 PA Code Chapter 93 and best professional judgment.

Anti-Backsliding

Section 402(o) of the Clean Water Act (CWA), enacted in the Water Quality Act of 1987, establishes anti-backsliding rules governing two situations. The first situation occurs when a permittee seeks to revise a Technology-Based effluent limitation based on BPJ to reflect a subsequently promulgated effluent guideline which is less stringent. The second situation addressed by Section 402(o) arises when a permittee seeks relaxation of an effluent limitation which is based upon a State treatment standard of water quality standard.

Previous limits can be used pursuant to EPA's anti-backsliding regulation 40 CFR 122.44 (I) Reissued permits. (1) Except as provided in paragraph (I)(2) of this section when a permit is renewed or reissued. Interim effluent limitations, standards or conditions must be at least as stringent as the final effluent limitations, standards, or conditions in the previous permit (unless the circumstances on which the previous permit was based have materially and substantially changed since the time the permit was issued and would constitute cause for permit modification or revocation and reissuance under §122.62). (2) In the case of effluent limitations established on the basis of Section 402(a)(1)(B) of the CWA, a permit may not be renewed, reissued, or modified on the basis of effluent guidelines promulgated under section 304(b) subsequent to the original issuance of such permit, to contain effluent limitations which are less stringent than the comparable effluent limitations in the previous permit.

The facility is not seeking to revise the previously permitted effluent limits.

Additional Considerations:

where monitoring is not required.

Ultraviolet (UV) disinfection is used therefore Total Residual Chlorine (TRC) limits are not applicable. Routine monitoring of UV Transmittance will be at the same monitoring frequency that is used for TRC. For pH, Dissolved Oxygen (DO) and UV Transmittance, a monitoring frequency 1/day has been imposed. In general, less frequent monitoring may be established only when the permittee demonstrates that there will be no discharge on days

Nutrient monitoring is required to establish the nutrient load from the wastewater treatment facility and the impacts that load may have on the quality of the receiving stream(s). A 1/quarter monitor and report requirement for Total N & Total P has been added to the permit as per Chapter 92.a.61.

Mass loading limits are applicable for publicly owned treatment works. Current policy requires average monthly mass loading limits be established for CBOD5, TSS, and NH₃-N and average weekly mass loading limits be established for CBOD5 and TSS. Average monthly mass loading limits (lbs/day) are based on the formula: design flow (MGD) x concentration limit (mg/L) x conversion factor (8.34).

For POTWs with design flows greater than 2,000 GPD influent BOD₅ and TSS monitoring must be established in the permit, and the monitoring should be consistent with the same frequency and sample type as is used for other effluent parameters.

Monitoring frequency for the proposed effluent limits are based upon Table 6-3, Self-Monitoring Requirements for Sewage Dischargers, from the Departments Technical Guidance for the Development and Specification of Effluent Limitations. Please note that Monitoring Requirements were changed for Flow to 2/week Metered to be consistent with the guidance.

Total Dissolved Solids (TDS) and its Major Constituents

Total Dissolved Solids (TDS) and its major constituents including sulfate, chloride, and bromide have emerged as pollutants of concern in several major watersheds in the Commonwealth. The conservative nature of these solids allows them to accumulate in surface waters and they may remain a concern even if the immediate downstream public water supply is not directly impacted. Bromide has been linked to formation of disinfection byproducts at increased levels in public water systems. In addition, as a consequence of actions associated with Triennial Review 13, the Environmental Quality Board has directed DEP to collect additional data related to sulfate, chloride, and 1,4-dioxane. Furthermore, in an August 2013 letter from Jon Capacasa of the Region III Water Protection Program to DEP (attached), EPA has expressed concern related to bromide and the importance of monitoring all point sources for bromide when it may be present.

Based on these concerns and under the authority of §92a.61, DEP has determined it should implement increased monitoring in NPDES permits for these parameters: TDS, sulfate, chloride, bromide, and 1,4-dioxane.

Increased monitoring in NPDES permits will only occur when the following conditions are met:

Where the concentration of TDS in the discharge exceeds 1,000 mg/L, or the net TDS load from a discharge exceeds 20,000 lbs/day, and the discharge flow exceeds 0.1 MGD, Part A of the permit should include monitor and report for TDS, sulfate, chloride, and bromide. Discharges of 0.1 MGD or less should monitor and report for TDS, sulfate, chloride, and bromide if the concentration of TDS in the discharge exceeds 5,000 mg/L.

- Where the concentration of bromide in a discharge exceeds 1 mg/L and the discharge flow exceeds 0.1 MGD, Part A of the permit should include monitor and report for bromide. Discharges of 0.1 MGD or less should monitor and report for bromide if the concentration of bromide in the discharge exceeds 10 mg/L.
- Where the concentration of 1,4-dioxane (CAS 123-91-1) in a discharge exceeds 10 µg/L and the discharge flow exceeds 0.1 MGD, Part A of the permit should include monitor and report for 1,4-dioxane. Discharges of 0.1 MGD or less should monitor and report for 1,4-dioxane if the concentration of 1,4-dioxane in the discharge exceeds 100 µg/L.

Monitoring is not required for TDS, sulfate, chloride, bromide & 1,4-dioxane. Concentrations of bromide is less than 1 mg/L (application reports 0.5 mg/L), TDS is less than 1000 mg/L (application reports 656 mg/L) & 1,4-dioxane is less than 10 ug/L (application reports ND).

Whole Effluent Toxicity (WET)

For Outfall 001, X Acute Chronic WET Testing was completed:

- For the permit renewal application (4 tests).
- Quarterly throughout the permit term.
- Quarterly throughout the permit term and a TIE/TRE was conducted.

Other:

The dilution series used for the tests was: 100%, 60%, 30%, 3%, and 1%. The Target Instream Waste Concentration (TIWC) to be used for analysis of the results is: 0.03 or 3%.

Summary of Four Most Recent Test Results

TST Data Analysis

(Please see the attached DEP WET Analysis Spreadsheet).

	Ceriodaphnia	Results (Pass/Fail)	Pimephales Results (Pass/Fail)	
Test Date	Survival	Reproduction	Survival	Growth
6/25/2015	PASS	N/A – Acute Testing	PASS	N/A – Acute Testing
6/15/2017	PASS	N/A – Acute Testing	PASS	N/A – Acute Testing
3/30/2018	PASS	N/A – Acute Testing	PASS	N/A – Acute Testing
6/29/2018	PASS	N/A – Acute Testing	PASS	N/A – Acute Testing

* A "passing" result is that in which the replicate data for the TIWC is not statistically significant from the control condition. This is exhibited when the calculated t value ("T-Test Result") is greater than the critical t value. A "failing" result is exhibited when the calculated t value ("T-Test Result") is less than the critical t value.

Is there reasonable potential for an excursion above water guality standards based on the results of these tests? (NOTE - In general, reasonable potential is determined anytime there is at least one test failure in the previous four tests).

Comments: Federal regulation, in 40 CFR 122.21(j)(5)(ii)(A), requires that POTWs with design flow rates exceeding 1 MGD submit a minimum of 4 WET tests, either in the form of 4 quarterly tests or 4 annual tests, in the year preceding the permit application or in the 4 and half year time period of the prior permit cycle, respectively, in accordance with 40 CFR 122.21(j)(5)(iv)(A) and (B).

The applicant was in the process of building a new STP during the last permit cycle. The newly constructed relocated 1.2 MGD STP went online in January of 2015. The applicant's engineer stated in an email that the applicant was unaware that WET testing had to be conducted during or after construction activities. 4 WET tests were submitted with the renewal application and no reasonable potential was determined based upon those test results.

Part C.III, Whole Effluent Toxicity (WET), requires annual testing in conformance with the Federal Regulations. The applicant is aware of the permit requirements and they have been advised to strictly adhere to those requirements. If those requirements are not strictly followed, then the Department may impose guarterly testing during the next permit cycle.

Evaluation of Test Type, IWC and Dilution Series for Renewed Permit

Acute Partial Mix Factor (PMFa): 0.125 Chronic Partial Mix Factor (PMFc): 0.864

1. Determine IWC – Acute (IWCa):

(Q_d x 1.547) / ((Q₇₋₁₀ x PMFa) + (Q_d x 1.547))

[(1.2 MGD x 1.547) / ((530 cfs x 0.125) + (1.2 MGD x 1.547))] x 100 = 2.73%

Is IWCa < 1%? YES X NO (YES - Acute Tests Required OR NO - Chronic Tests Required)

Type of Test for Permit Renewal: Chronic Tests

2a. Determine Target IWCa (If Acute Tests Required)

TIWCa = 2.73% / 0.3 = 9.1%

2b. Determine Target IWCc (If Chronic Tests Required)

(Q_d x 1.547) / (Q₇₋₁₀ x PMFc) + (Q_d x 1.547)

[(1.2 MGD x 1.547) / ((530 cfs x 0.864) + (1.2 MGD x 1.547))] x 100 = 1 %

3. Determine Dilution Series

Dilution Series = 100%, 60%, 30%, 2%, and 1%.

WET Limits

Has reasonable potential been determined? YES
NO

Will WET limits be established in the permit? \Box YES \boxtimes NO

If WET limits will be established, identify the species and the limit values for the permit (TU).

N/A

If WET limits will not be established, but reasonable potential was determined, indicate the rationale for not establishing WET limits:

N/A

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

	Effluent Limitations						Monitoring Requirements	
Parameter	Mass Units (Ibs/day) ⁽¹⁾			Concentrations (mg/L)			Minimum ⁽²⁾	Required
Farameter	Average Monthly	Weekly Average	Instantaneous Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report Daily Max	xxx	XXX	xxx	xxx	2/week	Metered
pH (S.U.)	ХХХ	XXX	6.0	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	4.0	XXX	XXX	XXX	1/day	Grab
CBOD5	250	375	XXX	25	40	50	2/week	24-Hr Composite
BOD5 Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	2/week	24-Hr Composite
TSS	300	450	XXX	30	45	60	2/week	24-Hr Composite
TSS Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	xxx	2/week	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	ххх	xxx	XXX	200 Geo Mean	xxx	1000	2/week	Grab
UV Transmittance (%)	ХХХ	XXX	Report	XXX	XXX	XXX	1/day	Measured
Total Nitrogen	xxx	xxx	xxx	XXX	Report Daily Max	xxx	1/quarter	24-Hr Composite
Ammonia-Nitrogen	Report	XXX	XXX	Report	XXX	Report	2/week	Grab
Total Phosphorus	xxx	xxx	XXX	XXX	Report Daily Max	xxx	1/quarter	24-Hr Composite

Compliance Sampling Location: Outfall # 001



Toxics Management Spreadsheet Version 1.1, October 2020

Discharge Information

Instructions Disc	harge Stream		
Facility: Califo	rnia Borough STP	NPDES Permit No.: PA0022241	Outfall No.: 001
Evaluation Type:	Major Sewage / Industrial Waste	Wastewater Description: Treated Sewage	

			Discharge	Characteris	tics			
Design Flow	Hardness (mg/l)*	pH (SU)*	P	artial Mix Fa	actors (PMF	s)	Complete Mi	x Times (min)
(MGD)*	naroness (ing/i)*	рн (30)-	AFC	CFC	THH	CRL	Q ₇₋₁₀	Qh
1.2	168.7	7.415						

					0 If lef	t blank	0.5 lf le	eft blank	0) if left blan	k	1 If lef	t blank
	Discharge Pollutant	Units	Ma	x Discharge Conc	Trib Conc	Stream Conc	Daily CV	Hourly CV	Strea m CV	Fate Coeff	FOS	Criteri a Mod	Chem Transl
	Total Dissolved Solids (PWS)	mg/L		656									
2	Chloride (PWS)	mg/L		186									
Group	Bromide	mg/L		0.5									
5	Sulfate (PWS)	mg/L		130									
	Fluoride (PWS)	mg/L											
	Total Aluminum	µg/L		54									
	Total Antimony	µg/L		0.36									
	Total Arsenic	µg/L		1.3									
	Total Barium	µg/L		22									
	Total Beryllium	µg/L	<	0.3									
	Total Boron	µg/L		405									
	Total Cadmium	µg/L	<	0.33									
	Total Chromium (III)	µg/L		3									
	Hexavalent Chromium	µg/L		4.8									
	Total Cobalt	µg/L		1									
	Total Copper	µg/L		8									
2	Free Cyanide	µg/L		2.8									
Group	Total Cyanide	µg/L	<	2.2									
5	Dissolved Iron	µg/L		35									
	Total Iron	µg/L		87									
	Total Lead	µg/L	<	0.66									
	Total Manganese	µg/L		15									
	Total Mercury	µg/L		0.08									
	Total Nickel	µg/L		11									
	Total Phenols (Phenolics) (PWS)	µg/L	<	75									
	Total Selenium	µg/L		0.71									
	Total Silver	µg/L	<	0.66									
	Total Thallium	µg/L	<	0.33									
	Total Zinc	µg/L		86									
	Total Molybdenum	µg/L		66									
	Acrolein	µg/L	<	1.9									
	Acrylamide	µg/L	<										
	Acrylonitrile	µg/L	<	1.2									
	Benzene	µg/L	<	0.23									
	Bromoform	µg/L	<	0.4									

Discharge Information

	a			0.04	H		1				
	Carbon Tetrachloride	µg/L	<	0.31		╪					
	Chlorobenzene	µg/L		0.31		Ť					
	Chlorodibromomethane	µg/L	<	0.45							
	Chloroethane	µg/L	<	0.33		+					
	2-Chloroethyl Vinyl Ether	µg/L	<	0.38		7					
	Chloroform	µg/L	<	0.21		Ť					
	Dichlorobromomethane	µg/L	<	0.28		+			<u> </u>		
					╟┿┿	┿				<u> </u>	┝┼╾┼╾
	1,1-Dichloroethane	µg/L	<	0.32		+					
3	1,2-Dichloroethane	µg/L	<	0.28		Ì					
Group	1,1-Dichloroethylene	µg/L	<	0.29		ļ					
ē	1,2-Dichloropropane	µg/L	<	0.24		-					
G	1,3-Dichloropropylene	µg/L	<	0.47		÷					
	1,4-Dioxane	µg/L	<	58.9		Ť				<u> </u>	
	Ethylbenzene		<	0.34		+					
		µg/L	`	0.34		+				<u> </u>	
	Methyl Bromide	µg/L				+					
	Methyl Chloride	µg/L				İ.					
	Methylene Chloride	µg/L	<	0.45		_					
	1,1,2,2-Tetrachloroethane	µg/L	<	0.34		-					
	Tetrachloroethylene	µg/L	<	0.35		1					
	Toluene	µg/L	<	0.23		t					
	1,2-trans-Dichloroethylene		<	0.23		+					
		µg/L				+					
	1,1,1-Trichloroethane	µg/L	<	0.22		+					
	1,1,2-Trichloroethane	µg/L	<	0.33		1					
	Trichloroethylene	µg/L	<	0.33							
	Vinyl Chloride	µg/L	<	0.3		+					
	2-Chlorophenol	µg/L	<	0.31		+					
	2,4-Dichlorophenol		<	0.3		ŧ				<u> </u>	
		µg/L				+				 	
	2,4-Dimethylphenol	µg/L	<	0.2	┝┼┼┼	╞					
	4,6-Dinitro-o-Cresol	µg/L	<	0.24		+					
ž	2,4-Dinitrophenol	µg/L	<	2.4		Ť					
Group	2-Nitrophenol	µg/L	<	0.42		-					
ž	4-Nitrophenol	µg/L	<	0.99		Ŧ					
<u> </u>	p-Chloro-m-Cresol	µg/L	<	0.15		÷					
	Pentachlorophenol	µg/L	<	1.1							
			<	0.22	₩	+			<u> </u>	<u> </u>	
	Phenol	µg/L				╪					
	2,4,6-Trichlorophenol	µg/L	<	0.54		1					
	Acenaphthene	µg/L	<	0.14							
	Acenaphthylene	µg/L	<	0.18		⊹					
	Anthracene	µg/L	<	0.14		+					
	Benzidine	µg/L	<	2.9							
	Benzo(a)Anthracene	µg/L	<	0.16		+			<u> </u>		
			<	0.10		+					
	Benzo(a)Pyrene	µg/L				+					
	3,4-Benzofluoranthene	µg/L	<	0.12							
	Benzo(ghi)Perylene	µg/L	<	0.21							
	Benzo(k)Fluoranthene	µg/L	<	0.18		-					
	Bis(2-Chloroethoxy)Methane	µg/L	<	0.2		+					
	Bis(2-Chloroethyl)Ether	µg/L	<	0.18		Í					
	Bis(2-Chloroisopropyl)Ether	µg/L	<	0.26		+					
			-			+					
	Bis(2-Ethylhexyl)Phthalate	µg/L		0.36		+					
	4-Bromophenyl Phenyl Ether	µg/L	<	0.16		1					
	Butyl Benzyl Phthalate	µg/L		0.29							
	2-Chloronaphthalene	µg/L	<	0.17							
	4-Chlorophenyl Phenyl Ether	µg/L	<	0.13		1					
	Chrysene	µg/L	<	0.14							
	Dibenzo(a,h)Anthrancene	µg/L	<	0.2		+					
			<			+					
	1,2-Dichlorobenzene	µg/L	<	0.38							
	1,3-Dichlorobenzene	µg/L		0.32		Ţ					
ŝ	1,4-Dichlorobenzene	µg/L		0.42							
9	3,3-Dichlorobenzidine	µg/L	<	0.45							
Group	Diethyl Phthalate	µg/L	<	0.17							
Ċ	Dimethyl Phthalate	µg/L	<	0.13							
	Di-n-Butyl Phthalate	μg/L	<	0.113		+					
	er in engin mananate	P8				-					
	2,4-Dinitrotoluene	µg/L	<	0.12							

Discharge Information

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	2,6-Dinitrotoluene	µg/L	<	0.2			Ļ				
	Di-n-Octyl Phthalate	µg/L	<	0.094			H				
	1,2-Diphenylhydrazine	µg/L	<	0.25	i		Ē				
	Fluoranthene	µg/L	<	0.16							
	Fluorene	µg/L	<	0.19			Ħ				
				0.22	1-		Η			<u> </u>	
	Hexachlorobenzene	µg/L	<				H				
	Hexachlorobutadiene	µg/L	<	0.18							
	Hexachlorocyclopentadiene	µg/L	<	0.16			Ļ				
	Hexachloroethane	µg/L	<	0.28			H				
	Indeno(1,2,3-cd)Pyrene	µg/L	<	0.11	1 T		Ħ				
	Isophorone	µg/L	<	0.14			E				
	Naphthalene			1.1		+	H				
		µg/L			-		H			<u> </u>	
	Nitrobenzene	µg/L	<	0.26			H			 	
	n-Nitrosodimethylamine	µg/L	<	0.6			Γ				
	n-Nitrosodi-n-Propylamine	µg/L	<	0.23			Ц				
	n-Nitrosodiphenylamine	µg/L	<	0.17			H				
	Phenanthrene	µg/L	<	0.12			Ħ				
	Pyrene	µg/L	<	0.15	1		Ħ				
							H			 	
	1,2,4-Trichlorobenzene	µg/L	<	0.15			H				
	Aldrin	µg/L	<		1-		H				
	alpha-BHC	µg/L	۷				Í				
	beta-BHC	µg/L	<								
	gamma-BHC	µg/L	<				Ħ				
	delta BHC	µg/L	<				H				
					10	Ħ	Ħ			 <u> </u>	
	Chlordane	µg/L	<				ļ				
	4,4-DDT	µg/L	<				Ļ				
	4,4-DDE	µg/L	<				H				
	4,4-DDD	µg/L	۷		i		Ĺ				
	Dieldrin	µg/L	<								
	alpha-Endosulfan	µg/L	<			+	H				
	beta-Endosulfan		<			\vdash	Н			<u> </u>	
		µg/L					E				
٩	Endosulfan Sulfate	µg/L	<				Ļ				
~	Endrin	µg/L	<				L				
ō	Endrin Aldehyde	µg/L	<				H				
	Heptachlor	µg/L	<				Ī				
	Heptachlor Epoxide	µg/L	<								
	PCB-1016	µg/L	<		₩	++	H				
					H-		Η			<u> </u>	
	PCB-1221	µg/L	<				È				
	PCB-1232	µg/L	<								
	PCB-1242	µg/L	<				H				
	PCB-1248	µg/L	<				H				
	PCB-1254	µg/L	<				[
	PCB-1260	µg/L	<				Ħ				
	PCBs, Total	µg/L	<		H	Ħ	Ħ				
			<		1		H				
	Toxaphene	µg/L									
	2,3,7,8-TCDD	ng/L	<		1		μ				
	Gross Alpha	pCi/L			-		H				
	Total Beta	pCi/L	<		1		Í				
	Radium 226/228	pCi/L	<				(I				
Grou	Total Strontium	µg/L	<				H				
Ō	Total Uranium	µg/L	<		H	Ħ	Ħ				
	Osmotic Pressure	mOs/kg	-				E				
	Osmolic Pressure	mosnig								<u> </u>	
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Discharge Information

12/17/2020

Toxics Management Spreadsheet Version 1.1, October 2020



Stream / Surface Water Information

California Borough STP, NPDES Permit No. PA0022241, Outfall 001

Instructions Discharge	Stream	
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Receiving Surface Water Name: Monongahela River

Location	Stream Code*	RMI*	Elevation (ft)*	DA (mi ²)*	Slope (ft/ft)	PWS Withdrawal (MGD)	Apply Fish Criteria*
Point of Discharge	037185	51.4	744	5130	0.0001		Yes
End of Reach 1	037185	50.6	743.9	5160	0.0001	0.356	Yes

Statewide Criteria
 Great Lakes Criteria
 ORSANCO Criteria

Q₇₋₁₀

Location	RMI	LFY	Flow	(cfs)	W/D	Width	Depth	Velocit	Time	Tributa	ary	Stream	m	Analys	sis
Location	RIVII	(cfs/mi ²)*	Stream	Tributary	Ratio	(ft)	(ft)	y (fps)	(days)	Hardness	pН	Hardness*	pH*	Hardness	pН
Point of Discharge	51.4	0.1	530			542.5	12					100	7		
End of Reach 1	50.6	0.1													

No. Reaches to Model: 1

Q_h

Location	RMI	LFY	Flow	(cfs)	W/D	Width	Depth	Velocit	Time	Tributa	ary	Stream	m	Analys	is
Location	PCIVII	(cfs/mi ²)	Stream	Tributary	Ratio	(ft)	(ft)	y (fps)	(days)	Hardness	pН	Hardness	pН	Hardness	pН
Point of Discharge	51.4														
End of Reach 1	50.6														

Stream / Surface Water Information

12/17/2020



Toxics Management Spreadsheet Version 1.1, October 2020

Model Results

California Borough STP, NPDES Permit No. PA0022241, Outfall 001

		Instructions	Results	RETURN TO INPUTS	SAVE AS PDF	PRINT	All	🔿 Inputs	⊖ Results	🔿 Limits	
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Hydrodynamics

Q 7-10

RMI	Stream Flow (cfs)	PWS Withdrawal (cfs)	Net Stream Flow (cfs)	Discharge Analysis Flow (cfs)	Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Time (days)	Complete Mix Time (min)
51.4	530		530	1.856	0.0001	12.	542.5	45.208	0.082	0.598	963.647
50.6	533	0.551	532.449268								

Qn

RMI	Stream Flow (cfs)	PWS Withdrawal (cfs)	Net Stream Flow (cfs)	Discharge Analysis Flow (cfs)	Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Time (days)	Complete Mix Time (min)
51.4	1786.51		1786.51	1.856	0.0001	20.46	542.5	26.515	0.161	0.303	434.966
50.6	1795.347	0.551	1794.80								

✓ Wasteload Allocations

AFC	CCT (min):	15	PMF:	0.125	Ana	lysis Hardne	ss (mg/l):	101.88 Analysis pH: 7.01
Pollutants	Conc	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	750	750	27,465	
Total Antimony	0	0		0	1,100	1,100	40,282	
Total Arsenic	0	0		0	340	340	12,451	Chem Translator of 1 applied
Total Barium	0	0		0	21,000	21,000	769,015	
Total Boron	0	0		0	8,100	8,100	296,620	
Total Cadmium	0	0		0	2.050	2.17	79.6	Chem Translator of 0.943 applied
Total Chromium (III)	0	0		0	578.503	1,831	67,040	Chem Translator of 0.316 applied
Hexavalent Chromium	0	0		0	16	16.3	597	Chem Translator of 0.982 applied
Total Cobalt	0	0		0	95	95.0	3,479	
Total Copper	0	0		0	13.677	14.2	522	Chem Translator of 0.96 applied
Free Cyanide	0	0		0	22	22.0	806	

Model Results

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Dissolved Iron	0	0	0	N/A	N/A	N/A	
Total Iron	0	0	0	N/A	N/A	N/A	
Total Lead	ō	ō	0	65,901	83.6	3,061	Chem Translator of 0.788 applied
Total Manganese	0	0	0	N/A	N/A	N/A	onem Hansador or etros appilea
Total Mercury	ō	ō	ō	1,400	1.65	60.3	Chem Translator of 0.85 applied
Total Nickel	ō	ō	0	475.657	477	17,453	Chem Translator of 0.998 applied
Total Phenols (Phenolics) (PWS)	0	0	0	N/A	N/A	N/A	onem Hanslator or 0.000 applied
Total Selenium	0	ő	ō	N/A	N/A	N/A	Chem Translator of 0.922 applied
Total Silver	0	0	0	3.321	3.91	143	Chem Translator of 0.85 applied
Total Thallium	0	ō	0	65	65.0	2.380	onen hanslator or 6.00 applied
Total Zinc	0	0	0	119.040	122	4,457	Chem Translator of 0.978 applied
Acrolein	0	0	0	3	3.0	110	onem Hansador or elerro appred
Acrylonitrile	0	0	0	650	650	23,803	
Benzene	0	0	0	640	640	23,437	
Bromoform	0	0	0	1,800	1.800	65,916	
Carbon Tetrachloride	0	0	0	2.800	2.800	102.535	
Chlorobenzene	0	ŏ	ŏ	1,200	1.200	43,944	
Chlorodibromomethane	0	0	0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	ŏ	ŏ	18.000	18.000	659,155	
Chloroform	0	0	0	1,900	1.900	69.578	
Dichlorobromomethane	0	0	0	N/A	N/A	N/A	
1.2-Dichloroethane	0	0	0	15,000	15.000	549,296	
1,1-Dichloroethylene	0	0	0	7,500	7,500	274.648	
1.2-Dichloropropane	0	0	0	11,000	11.000	402,817	
1,3-Dichloropropylene	0	0	0	310	310	11,352	
Ethylbenzene	ō	ō	0	2,900	2,900	106,197	
Methylene Chloride	0	0	0	12.000	12.000	439,437	
1.1.2.2-Tetrachloroethane	0	0	0	1.000	1.000	36,620	
Tetrachloroethylene	0	0	0	700	700	25,634	
Toluene	0	0	0	1,700	1.700	62,254	
1,2-trans-Dichloroethylene	0	0	0	6.800	6,800	249,014	
1.1.1-Trichloroethane	0	0	0	3.000	3.000	109.859	
1,1,2-Trichloroethane	0	0	0	3,400	3,400	124,507	
Trichloroethylene	0	0	0	2,300	2,300	84,225	
Vinyl Chloride	0	0	0	N/A	N/A	N/A	
2-Chlorophenol	0	0	0	560	560	20,507	
2,4-Dichlorophenol	0	0	0	1,700	1,700	62,254	
2,4-Dimethylphenol	0	0	0	660	660	24,169	
4,6-Dinitro-o-Cresol	0	0	0	80	80.0	2,930	
2,4-Dinitrophenol	0	0	0	660	660	24,169	
2-Nitrophenol	0	0	0	8,000	8,000	292,958	
4-Nitrophenol	0	0	0	2,300	2,300	84,225	
p-Chloro-m-Cresol	0	0	0	160	160	5,859	
Pentachlorophenol	0	0	0	8.788	8.79	322	
Phenol	0	0	0	N/A	N/A	N/A	
2.4.8 Tricklassehane'			-		400	16.845	
2,4,6-Trichlorophenol	0	0	0	460	460	10,840	
2,4,6-1 nchlorophenol Acenaphthene	0	0	0	460 83	460 83.0	3,039	

Model Results

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Benzidine	0	0		0	300	300	10,986	
Benzo(a)Anthracene	0	0		0	0.5	0.5	18.3	
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A	
Benzo(k)Fluoranthene	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroethyl)Ether	0	0		0	30,000	30,000	1,098,592	
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0		0	4,500	4,500	164,789	
4-Bromophenyl Phenyl Ether	0	0		0	270	270	9,887	
Butyl Benzyl Phthalate	0	0		0	140	140	5,127	
2-Chloronaphthalene	0	0		0	N/A	N/A	N/A	
Chrysene	0	0		0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	0		0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0		0	820	820	30,028	
1,3-Dichlorobenzene	0	0		0	350	350	12,817	
1,4-Dichlorobenzene	0	0		0	730	730	26,732	
3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	4,000	4,000	146,479	
Dimethyl Phthalate	0	0		0	2,500	2,500	91,549	
Di-n-Butyl Phthalate	0	0		0	110	110	4,028	
2,4-Dinitrotoluene	0	0		0	1,600	1,600	58,592	
2,6-Dinitrotoluene	0	0		0	990	990	36,254	
1,2-Diphenylhydrazine	0	0		0	15	15.0	549	
Fluoranthene	0	0		0	200	200	7,324	
Fluorene	0	0		0	N/A	N/A	N/A	
Hexachlorobenzene	0	0		0	N/A	N/A	N/A	
Hexachlorobutadiene	0	0		0	10	10.0	366	
Hexachlorocyclopentadiene	0	0		0	5	5.0	183	
Hexachloroethane	0	0		0	60	60.0	2,197	
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Isophorone	0	0		0	10,000	10,000	366,197	
Naphthalene	0	0		0	140	140	5,127	
Nitrobenzene	0	0		0	4,000	4,000	146,479	
n-Nitrosodimethylamine	0	0		0	17,000	17,000	622,536	
n-Nitrosodi-n-Propylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0		0	300	300	10,986	
Phenanthrene	0	0		0	5	5.0	183	
Pyrene	0	0		0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0		0	130	130	4,761	
CFC CC	T (min): 7	20	PMF:	0.864	Ana	alysis Hardne	ess (mg/l):	100.28 Analysis pH: 7.00

Pollutants	Conc	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	

Model Results

12/17/2020

Total Antimony 0 0 220 220 44.512 Total Barium 0 0 150 150 37.167 Chem Translator of 1 applied Total Barium 0 0 4.100 4.100 10.155.00 Total Chomium (III) 0 0 989.449 Total Chomium (III) 0 0 0 74.283 86.4 21.402 Chem Translator of 0.80 applied Heaxalent Chomium (III) 0 0 74.283 86.4 21.402 Chem Translator of 0.80 applied Total Chomium (III) 0 0 10 10.4 2.578 Chem Translator of 0.80 applied Total Cobat 0 0 19.0 4.100 4.108 Total Cobat 0.0 8.2 2.317 Chem Translator of 0.80 applied Total Cobat 0 0 15.00 1.500 4.20.748 WQC = 30 day average: PMF = 1 Total Manganese 0 0 1.500 4.20.748 WQC = 30 day average: PMF = 1 Total Nickel 0 0	Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Arsenic 0 0 1 0 150 1710 2710 Chem Translator of 1 applied Total Boron 0 0 0 1.600 1.000 306.440 Chem Translator of 0.000 applied Total Commum 0 0 0 0.246 0.277 67.2 Chem Translator of 0.000 applied Total Commum 0 0 0 0.246 0.276 67.2 Chem Translator of 0.000 applied Hexavalent Chromium 0 0 0 10 10.4 2.76 Chem Translator of 0.000 applied Total Coper 0 0 0 10 10.4 2.76 Chem Translator of 0.000 applied Total Coper 0 0 0 10.50 1.500 1.500 Chem Translator of 0.000 applied Total Lead 0 0 0 0.524 3.19 791 Chem Translator of 0.017.000 applied Total Manganese 0 0 0 0.770 0.91 224 Chem Translator of 0.023 applied			-		-				
Total Barium 0 0 4,100 4,100 4,100 1,015,002 Total Gorin 0 0 0 0 1,000 1,000 306,440 Total Cadmium 0 0 0 0,246 0,27 67.2 Chem Translator of 0.80 applied Total Cobalt 0 0 0 10 10.4 2,578 Chem Translator of 0.80 applied Total Cobalt 0 0 0 10 10.4 2,578 Chem Translator of 0.80 applied Total Cobalt 0 0 0 10 10.4 2,578 Chem Translator of 0.80 applied Total Cobalt 0 0 0 8.2,377 Chem Translator of 0.98 applied Total Cobalt 0 0 0 1,500			-		-				Chem Translator of 1 applied
Total Boon 0 0 0 1.000 1.000 1000 30.440 Total Chomium 0 0 0 0.46 0.27 67.2 Chem Translator of 0.80 applied Hexavalent Chromium 0 0 0 174.283 86.4 21.402 Chem Translator of 0.80 applied Total Coper 0 0 0 10 10.4 2.578 Chem Translator of 0.80 applied Total Coper 0 0 0 5.2 5.2 1.288 Chem Translator of 0.98 applied Total Coper 0 0 0 0 1.500 1		-	-		-				Chem translator of trapplied
Total Cadmium 0 0 0 0 0 0 0 0 0 0 742 Chem Translator of 0.88 applied Total Chomium (III) 0 0 0 74283 88.4 21.402 Chem Translator of 0.88 applied Total Cobat 0 0 0 10 10.4 2.578 Chem Translator of 0.98 applied Total Cobat 0 0 0 87.7 0.53 2.317 Chem Translator of 0.98 applied Total Cobat 0 0 0 8.7 0.53 2.317 Chem Translator of 0.98 applied Dissolved iron 0 0 0 1.500 15.00 420.748 WQC = 30 day average; PMF = 1 Total Manganese 0 0 0 0 0 1.600 12.44 Chem Translator of 0.85 applied Total Manganese 0 0 0 0 12.44 Chem Translator of 0.85 applied Total Nicket 0 0 0 13.03.221 Chem Translator of 0.82 applied		-	-		-		11.1		
Total Chromium (III) 0 0 74.283 86.4 21.402 Chem Translator of 0.88 applied Hexavalent Cobalt 0 0 0 10 10.4 2.576 Chem Translator of 0.48 applied Total Coper 0 0 0 10 10.4 4.708 Chem Translator of 0.48 applied Total Coper 0 0 0 0 10 10.4 4.708 Chem Translator of 0.48 applied Total Coper 0 0 0 0 5.2 5.2 1.288 Chem Translator of 0.490 applied Total Ion 0 0 0 1.500 1.500 1.500 4.29.748 WCC = 30 day average: PMF = 1 Total Lead 0 0 0 2.524 3.19 791 Chem Translator of 0.89 applied Total Mickel 0 0 0 0.52.129 52.3 11.285 Chem Translator of 0.997 applied Total Mickel 0 0 0 0 0 0 0 0 0		-	-						Chem Translator of 0,000 applied
Hexavalent Chromium 0 0 10 10.4 2.578 Chem Translator of 0.982 applied Total Copper 0 0 0 19 19.0 4.708 Total Copper 0 0 6 0 8.977 0.35 2.317 Chem Translator of 0.08 applied Free Cyanide 0 0 6 0 N/A N/A N/A Total Icon 0 0 0 1.500 1.500 429.748 WCC = 30 day average: PMF = 1 Total Iron 0 0 0 1.500 1.600 1.600 429.748 WCC = 30 day average: PMF = 1 Total Marganese 0 0 0 0.700 0.61 2.24 Chem Translator of 0.85 applied Total Silver 0 0 0 0.700 0.61 2.24 Chem Translator of 0.997 applied Total Silver 0 0 0 1.800 1.280 Chem Translator of 0.997 applied Total Silver 0 0 1.3 1.30 <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		-	-						
Total Cobait 0 0 10 10.0 4.708 Total Copper 0 0 0 8.977 9.35 2.317 Chem Translator of 0.98 applied Dissolved Iron 0 0 0 6.2 5.2 1.288 Dissolved Iron 0 0 0 1.600 420,748 WQC = 30 day average; PMF = 1 Total Lead 0 0 2.524 3.18 791 Chem Translator of 0.791 applied Total Maganese 0 0 1.600 420,748 WQC = 30 day average; PMF = 1 Total Maganese 0 0 1.600 1.205 Chem Translator of 0.791 applied Total Mickel 0 0 0 1.238 Chem Translator of 0.222 applied Total Selenium 0 0 0 1.30 3.221 Chem Translator of 1.908 applied Total Selenium 0 0 1.30 1.30 3.221 Chem Translator of 1.908 applied Total Silver 0 0 1.30 1.30 3.			-					-	
Total Copper 0 0 8.977 9.35 2.317 Chem Translator of 0.98 applied Free Gyanide 0 0 5.2 5.2 1.288									Chem translator of 0.802 applied
Free Cyanide 0 0 5.2 5.2 1.288 Dissolved from 0 0 N/A N/A N/A N/A Total Iron 0 0 1.500 1.500 429.748 WQC = 30 day average; PMF = 1 Total Lead 0 0 0 2.524 3.19 701 Chem Translator of 0.701 applied Total Manganese 0 0 0 0.770 0.91 224 Chem Translator of 0.967 applied Total Mickel 0 0 0 6.2129 52.3 12.465 Chem Translator of 0.927 applied Total Selenium 0 0 0 0.4800 4.90 1.236 Chem Translator of 0.922 applied Total Selenium 0 0 0 118.418 120 29.758 Chem Translator of 0.922 applied Total Total Silver 0 0 118.418 120 29.758 Chem Translator of 0.928 applied Acrolein 0 0 118.418 120 29.758 Chem Translator of 0.9			-		-				Chem Translater of 0.08 applied
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1,2-trans-Dichloroethylene 0 0 1,400 1,400 346,893 1,1,1-Trichloroethane 0 0 610 610 151,146						330			
1,1,1-Trichloroethane 0 0 0 610 610 151,146			-		-				
			0						
1,1,2-Trichloroethane 0 0 0 680 680 168,491	1,1,2-Trichloroethane	0	0		0	680	680	168,491	
Trichloroethylene 0 0 450 450 111,501	Trichloroethylene	0	0		0	450	450	111,501	

Model Results

12/17/2020

Vinyl Chloride 2-Chlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 4,8-Dinitro-Cresol 2,4-Dinitrophenol 2-Nitrophenol		0 0 0 0 0	0	N/A 110	N/A 110	N/A 27,256	
2,4-Dichlorophenol 2,4-Dimethylphenol 4,8-Dinitro-o-Cresol 2,4-Dinitrophenol 2-Nitrophenol	0 0 0 0	0	-		110	27,256	
2,4-Dimethylphenol 4,6-Dinitro-o-Cresol 2,4-Dinitrophenol 2-Nitrophenol	0					04.045	
4,6-Dinitro-o-Cresol 2,4-Dinitrophenol 2-Nitrophenol	0	0	_	340	340	84,245	
2,4-Dinitrophenol 2-Nitrophenol		-	0	130	130	32,212	
2-Nitrophenol	0	0	0	16	16.0	3,964	
	-	0	0	130	130	32,212	
	0	0	0	1,600	1,600	396,449	
4-Nitrophenol	0	0	0	470	470	116,457	
p-Chloro-m-Cresol	0	0	0	30	30.0	7,433	
Pentachlorophenol	0	0	0	6.742	6.74	1,671	
Phenol	0	0	0	N/A	N/A	N/A	
2,4,6-Trichlorophenol	0	0	0	91	91.0	22,548	
Acenaphthene	0	0	0	17	17.0	4,212	
Anthracene	0	0	0	N/A	N/A	N/A	
Benzidine	0	0	0	59	59.0	14,619	
Benzo(a)Anthracene	0	0	0	0.1	0.1	24.8	
Benzo(a)Pyrene	0	0	0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0	0	N/A	N/A	N/A	
Benzo(k)Fluoranthene	0	0	0	N/A	N/A	N/A	
Bis(2-Chloroethyl)Ether	0	0	0	6,000	6,000	1,486,685	
Bis(2-Chloroisopropyl)Ether	0	0	0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0	0	910	910	225,481	
4-Bromophenyl Phenyl Ether	0	0	0	54	54.0	13,380	
Butyl Benzyl Phthalate	0	0	0	35	35.0	8,672	
2-Chloronaphthalene	0	0	0	N/A	N/A	N/A	
Chrysene	0	0	0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	0	0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0	0	160	160	39,645	
1,3-Dichlorobenzene	0	0	0	69	69.0	17,097	
1,4-Dichlorobenzene	0	0	0	150	150	37,167	
3,3-Dichlorobenzidine	0	0	0	N/A	N/A	N/A	
Diethyl Phthalate	0	0	0	800	800	198,225	
Dimethyl Phthalate	0	0	0	500	500	123,890	
Di-n-Butyl Phthalate	0	0	0	21	21.0	5,203	
2,4-Dinitrotoluene	0	0	0	320	320	79,290	
2,6-Dinitrotoluene	0	0	0	200	200	49,556	
1,2-Diphenylhydrazine	0	0	0	3	3.0	743	
Fluoranthene	0	0	0	40	40.0	9,911	
Fluorene	0	0	0	N/A	N/A	N/A	
Hexachlorobenzene	0	0	0	N/A	N/A	N/A	
Hexachlorobutadiene	0	0	0	2	2.0	496	
Hexachlorocyclopentadiene	0	0	0	1	1.0	248	
Hexachloroethane	0	0	0	12	12.0	2,973	
Indeno(1,2,3-cd)Pyrene	0	0	0	N/A	N/A	N/A	
Isophorone	0	0	0	2,100	2,100	520,340	

Model Results

12/17/2020

Naphthalene	0	0	0	43	43.0	10,655	
Nitrobenzene	0	0	0	810	810	200,702	
n-Nitrosodimethylamine	0	0	0	3,400	3,400	842,455	
n-Nitrosodi-n-Propylamine	0	0	0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0	0	59	59.0	14,619	
Phenanthrene	0	0	0	1	1.0	248	
Pyrene	0	0	0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0	0	26	26.0	6,442	

✓ THH	CCT (min): 720	THH PMF:	0.864	Analysis Hardness (mg/l):	N/A	Analysis pH:	N/A	PWS PMF:	0.9456	i

Pollutants	Conc	Stream	Trib Conc	Fate	WQC	WQ Obj	WLA (µg/L)	Comments
Pollutants	(ug/L)	CV	(µg/L)	Coef	(µg/L)	(µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	500,000	500,000	###############	WQC applied at RMI 50.6 with a design stream flow of 533 cfs
Chloride (PWS)	0	0		0	250,000	250,000	68,125,994	WQC applied at RMI 50.6 with a design stream flow of 533 cfs
Sulfate (PWS)	0	0		0	250,000	250,000	68,125,994	WQC applied at RMI 50.6 with a design stream flow of 533 cfs
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	5.6	5.6	1,388	
Total Arsenic	0	0		0	10	10.0	2,478	
Total Barium	0	0		0	2,400	2,400	594,674	
Total Boron	0	0		0	3,100	3,100	768,121	
Total Cadmium	0	0		0	N/A	N/A	N/A	
Total Chromium (III)	0	0		0	N/A	N/A	N/A	
Hexavalent Chromium	0	0		0	N/A	N/A	N/A	
Total Cobalt	0	0		0	N/A	N/A	N/A	
Total Copper	0	0		0	N/A	N/A	N/A	
Free Cyanide	0	0		0	140	140	34,689	
Dissolved Iron	0	0		0	300	300	74,334	
Total Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	N/A	N/A	N/A	
Total Manganese	0	0		0	1,000	1,000	247,781	
Total Mercury	0	0		0	0.050	0.05	12.4	
Total Nickel	0	0		0	610	610	151,146	
Total Phenols (Phenolics) (PWS)	0	0		0	5	5.0	1,363	WQC applied at RMI 50.6 with a design stream flow of 533 cfs
Total Selenium	0	0		0	N/A	N/A	N/A	
Total Silver	0	0		0	N/A	N/A	N/A	
Total Thallium	0	0		0	0.24	0.24	59.5	
Total Zinc	0	0		0	N/A	N/A	N/A	
Acrolein	0	0		0	6	6.0	1,487	
Acrylonitrile	0	0		0	N/A	N/A	N/A	
Benzene	0	0		0	N/A	N/A	N/A	
Bromoform	0	0		0	N/A	N/A	N/A	
Carbon Tetrachloride	0	0		0	N/A	N/A	N/A	
Chlorobenzene	0	0		0	130	130	32,212	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	

Model Results

12/17/2020

2-Chloroethyl Vinyl Ether	0	0	0	N/A	N/A	N/A	
2-Chloroform	0	0	0	N/A N/A	N/A	N/A N/A	
Dichlorobromomethane	0	0	0	N/A N/A	N/A	N/A N/A	
	-	-	0		N/A N/A		
1,2-Dichloroethane	0	0		N/A		N/A	
1,1-Dichloroethylene	0	0	0	33	33.0	8,177	
1,2-Dichloropropane	0	0	0	N/A	N/A	N/A	
1,3-Dichloropropylene	0	0	0	N/A	N/A	N/A	
Ethylbenzene	0	0	0	530	530	131,324	
Methylene Chloride	0	0	0	N/A	N/A	N/A	
1,1,2,2-Tetrachloroethane	0	0	0	N/A	N/A	N/A	
Tetrachloroethylene	0	0	0	N/A	N/A	N/A	
Toluene	0	0	0	1,300	1,300	322,115	
1,2-trans-Dichloroethylene	0	0	0	140	140	34,689	
1,1,1-Trichloroethane	0	0	0	N/A	N/A	N/A	
1,1,2-Trichloroethane	0	0	0	N/A	N/A	N/A	
Trichloroethylene	0	0	0	N/A	N/A	N/A	
Vinyl Chloride	0	0	0	N/A	N/A	N/A	
2-Chlorophenol	0	0	0	81	81.0	20,070	
2,4-Dichlorophenol	0	0	0	77	77.0	19,079	
2,4-Dimethylphenol	0	0	0	380	380	94,157	
4,6-Dinitro-o-Cresol	0	0	0	13	13.0	3,221	
2,4-Dinitrophenol	0	0	0	69	69.0	17,097	
2-Nitrophenol	0	0	0	N/A	N/A	N/A	
4-Nitrophenol	0	0	0	N/A	N/A	N/A	
p-Chloro-m-Cresol	0	0	0	N/A	N/A	N/A	
Pentachlorophenol	0	0	0	N/A	N/A	N/A	
Phenol	0	0	0	10,400	10,400	2,576,921	
2,4,6-Trichlorophenol	0	0	0	N/A	N/A	N/A	
Acenaphthene	0	0	0	670	670	166,013	
Anthracene	0	0	0	8,300	8,300	2,056,581	
Benzidine	0	0	0	N/A	N/A	N/A	
Benzo(a)Anthracene	0	0	0	N/A	N/A	N/A	
Benzo(a)Pyrene	0	0	0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0	0	N/A	N/A	N/A	
Benzo(k)Fluoranthene	0	0	0	N/A	N/A	N/A	
Bis(2-Chloroethyl)Ether	0	0	0	N/A	N/A	N/A	
Bis(2-Chloroisopropyl)Ether	0	0	0	1,400	1,400	346,893	
Bis(2-Ethylhexyl)Phthalate	0	0	0	N/A	N/A	N/A	
4-Bromophenyl Phenyl Ether	0	0	0	N/A	N/A	N/A	
Butyl Benzyl Phthalate	0	0	0	150	150	37,167	
2-Chloronaphthalene	0	ō	0	1,000	1.000	247,781	
Chrysene	0	ō	0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	ō	0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0	0	420	420	104.068	
1.3-Dichlorobenzene	0	0	0	420	420	104,068	
1,0*Dionorobenzene	v	v	v	720	720	104,000	

Model Results

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1,4-Dichlorobenzene 0 0 420 420 104,088 3,3-Dichlorobenzidine 0 0 0 N/A N/A N/A Diethyl Phthalate 0 0 0 17,000 17,000 4,212,275 Dimethyl Phthalate 0 0 0 270,000 270,000 86,900,832 Di-n-Butyl Phthalate 0 0 0 2,000 2,000 495,562 2,4-Dinitrotoluene 0 0 0 N/A N/A N/A 2,8-Dinitrotoluene 0 0 0 N/A N/A N/A 1,2-Diphenylhydrazine 0 0 0 N/A N/A N/A Fluorente 0 0 0 1,100 1,100 272,559 Hexachlorobenzene 0 0 0 N/A N/A Hexachlorobutadiene 0 0 N/A N/A N/A	
Diethyl Phthalate 0 0 17,000 17,000 4,212,275 Dimethyl Phthalate 0 0 0 270,000 270,000 66,900,832 Din-Butyl Phthalate 0 0 0 2,000 2,000 495,562 2,4-Dinitrotoluene 0 0 0 0 N/A N/A 2,6-Dinitrotoluene 0 0 0 0 N/A N/A 1,2-Diphenylhydrazine 0 0 0 130 130 32,212 Fluorene 0 0 0 1,100 2,72,559 Hexachlorobenzene 0 0 0 N/A N/A	
Dimethyl Phthalate 0 0 270,000 270,000 86,900,832 Di-n-Butyl Phthalate 0 0 0 2,000 2,000 495,662 2,4-Dinitrotoluene 0 0 0 N/A N/A N/A 2,6-Dinitrotoluene 0 0 0 N/A N/A N/A 1,2-Diphenylhydrazine 0 0 0 N/A N/A N/A Fluoranthene 0 0 0 130 132,212 Eluoranthene Eluoranthene 0 0 1,100 127,559 Hexachlorobenzene 0 0 0 N/A N/A N/A Hexachlorobutadiene 0 0 N/A N/A N/A	
Di-n-Butyl Phthalate 0 0 2,000 2,000 495,662 2,4-Dinitrotoluene 0 0 0 N/A N/A N/A 2,6-Dinitrotoluene 0 0 0 N/A N/A N/A 1,2-Diphenylhydrazine 0 0 0 N/A N/A N/A Fluoranthene 0 0 0 130 132,212 Fluoranthene 0 0 0 1,100 272,559 Hexachlorobenzene 0 0 0 N/A N/A Hexachlorobutadiene 0 0 N/A N/A N/A	
2.4-Dinitrotoluene 0 0 N/A N/A N/A 2.6-Dinitrotoluene 0 0 0 N/A N/A N/A 1.2-Diphenylhydrazine 0 0 0 N/A N/A N/A 1.2-Diphenylhydrazine 0 0 0 N/A N/A N/A Fluoranthene 0 0 0 130 130 32,212 Fluorene 0 0 0 1,100 1,72,559 Hexachlorobenzene 0 0 0 N/A N/A Hexachlorobutadiene 0 0 N/A N/A N/A	
2,6-Dinitrotoluene 0 0 0 N/A N/A N/A 1,2-Diphenylhydrazine 0 0 0 N/A N/A N/A Fluoranthene 0 0 0 130 130 32,212 Fluorene 0 0 0 1,100 1,100 272,559 Hexachlorobenzene 0 0 0 N/A N/A N/A Hexachlorobutadiene 0 0 0 N/A N/A N/A	
1,2-Diphenylhydrazine 0 0 0 N/A N/A N/A Fluoranthene 0 0 0 130 130 32,212 Fluorene 0 0 0 1,100 1,100 272,559 Hexachlorobenzene 0 0 0 N/A N/A N/A Hexachlorobutadiene 0 0 N/A N/A N/A N/A	
Fluoranthene 0 0 130 130 32,212 Fluorene 0 0 0 1,100 1,100 272,559 Hexachlorobenzene 0 0 0 N/A N/A N/A Hexachlorobutadiene 0 0 0 N/A N/A N/A	
Fluorene 0 0 1,100 1,100 272,559 Hexachlorobenzene 0 0 0 N/A N/A N/A Hexachlorobutadiene 0 0 0 N/A N/A N/A	
Hexachlorobenzene 0 0 0 N/A N/A N/A Hexachlorobutadiene 0 0 0 N/A N/A N/A	
Hexachlorobutadiene 0 0 0 0 N/A N/A N/A	
Hexachlorocyclopentadiene 0 0 0 40 40.0 9,911	
Hexachloroethane 0 0 0 0 N/A N/A N/A	
Indeno(1,2,3-cd)Pyrene 0 0 0 0.0038 0.004 0.94	
Isophorone 0 0 0 35 35.0 8,672	
Naphthalene 0 0 0 N/A N/A N/A	
Nitrobenzene 0 0 0 17 17.0 4,212	
n-Nitrosodimethylamine 0 0 0 N/A N/A N/A	
n-Nitrosodi-n-Propylamine 0 0 0 N/A N/A N/A N/A	
n-Nitrosodiphenylamine 0 0 0 N/A N/A N/A	
Phenanthrene 0 0 0 N/A N/A N/A	
Pyrene 0 0 0 830 830 205,658	
1,2,4-Trichlorobenzene 0 0 0 35 35.0 8,672	
CRL CCT (min): ###### PMF: 1 Analysis Hardness (mg/l): N/A Analysis pH: N/A Stream loc. LT : 0 Stream loc. LT : 0	
Pollutants Conc Stream Inb Conc Fate WQC WQ Obj WLA (µg/L) Comments	
Total Dissolved Solids (PWS) 0 0 N/A N/A N/A N/A	
Chloride (PWS) 0 0 N/A N/A N/A	
Sulfate (PWS) 0 0 0 N/A N/A N/A	
Total Aluminum 0 0 0 N/A N/A N/A	
Total Antimony 0 0 0 N/A N/A N/A	
Total Arsenic 0 0 0 N/A N/A N/A	
Total Barium 0 0 0 N/A N/A N/A	
Total Boron 0 0 0 N/A N/A N/A	
Total Cadmium 0 0 0 N/A N/A N/A	
Total Chromium (III) 0 0 0 N/A N/A N/A	
Hexavalent Chromium 0 0 0 0 N/A N/A N/A	
Total Cobalt 0 0 N/A N/A N/A	
Total Copper 0 0 0 N/A N/A N/A	
Total Copper 0 0 N/A N/A N/A	

Model Results

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Total Manganese Total Mercury Total Nickel Total Phenols (Phenolics) (PWS) Total Selenium Total Silver Total Thallium Total Zinc Acrolein Acrolein Benzene Bromoform Carbon Tetrachloride	0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	N/A N/A N/A N/A	
Total Mercury Total Nickel Total Phenols (Phenolics) (PWS) Total Selenium Total Silver Total Thallium Total Zinc Acrolein Acrolein Acroloritrile Benzene Bromoform Carbon Tetrachloride	0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	N/A N/A N/A N/A	N/A N/A N/A	N/A N/A	
Total Nickel Total Phenols (Phenolics) (PWS) Total Selenium Total Silver Total Thallium Total Zinc Acrolein Acrolein Acrolonitrile Benzene Bromoform Carbon Tetrachloride	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0	N/A N/A N/A	N/A N/A	N/A	
Total Phenols (Phenolics) (PWS) Total Selenium Total Silver Total Thallium Total Zinc Acrolein Acrolein Benzene Bromoform Carbon Tetrachloride	0 0 0 0 0 0	0 0 0 0 0	0	N/A N/A	N/A		
Total Selenium Total Silver Total Thallium Total Zinc Acrolein Acroloninile Benzene Bromoform Carbon Tetrachloride	0 0 0 0 0	0	0	N/A			
Total Silver Total Thallium Total Zinc Acrolein Acrylonitrile Benzene Bromoform Carbon Tetrachloride	0 0 0 0 0 0 0	0	-		N/A	N/A	
Total Thallium Total Zinc Acrolein Acrylonitrile Benzene Bromoform Carbon Tetrachloride	0 0 0 0	0	0	N/A	N/A	N/A	
Total Zinc Acrolein Acrylonitrile Benzene Bromoform Carbon Tetrachloride	0	_	0				
Acrolein Acrylonitrile Benzene Bromoform Carbon Tetrachloride	0	0	0	N/A	N/A	N/A	
Acrylonitrile Benzene Bromoform Carbon Tetrachloride	_		0	N/A	N/A	N/A	
Benzene Bromoform Carbon Tetrachloride	0	0	0	N/A	N/A	N/A	
Bromoform Carbon Tetrachloride	-	0	0	0.051	0.051	49.1	
Carbon Tetrachloride	0	0	0	1.2	1.2	1,156	
	0	0	0	4.3	4.3	4,142	
Chlorobenzene	0	0	0	0.23	0.23	222	
	0	0	0	N/A	N/A	N/A	
	0	0	0	0.4	0.4	385	
, , ,	0	0	0	N/A	N/A	N/A	
	0	0	0	5.7	5.7	5,491	
	0	0	0	0.55	0.55	530	
-	0	0	0	0.38	0.38	366	
	0	0	0	N/A	N/A	N/A	
	0	0	0	N/A	N/A	N/A	
1,3-Dichloropropylene	0	0	0	0.34	0.34	328	
Ethylbenzene	0	0	0	N/A	N/A	N/A	
Methylene Chloride	0	0	0	4.6	4.6	4,431	
1,1,2,2-Tetrachloroethane	0	0	0	0.17	0.17	164	
Tetrachloroethylene	0	0	0	0.69	0.69	665	
Toluene	0	0	0	N/A	N/A	N/A	
1,2-trans-Dichloroethylene	0	0	0	N/A	N/A	N/A	
	0	0	0	N/A	N/A	N/A	
1,1,2-Trichloroethane	0	0	0	0.59	0.59	568	
Trichloroethylene	0	0	0	2.5	2.5	2,408	
Vinyl Chloride	0	0	0	0.025	0.025	24.1	
2-Chlorophenol	0	0	0	N/A	N/A	N/A	
2,4-Dichlorophenol	0	0	0	N/A	N/A	N/A	
2,4-Dimethylphenol	0	0	0	N/A	N/A	N/A	
4,6-Dinitro-o-Cresol	0	0	0	N/A	N/A	N/A	
2,4-Dinitrophenol	0	0	0	N/A	N/A	N/A	
2-Nitrophenol	0	0	0	N/A	N/A	N/A	
4-Nitrophenol	0	0	0	N/A	N/A	N/A	
p-Chloro-m-Cresol	0	0	0	N/A	N/A	N/A	
Pentachlorophenol	0	0	0	0.270	0.27	260	
Phenol	0	0	0	N/A	N/A	N/A	
2,4,6-Trichlorophenol	0	0	0	1.4	1.4	1,349	
Acenaphthene	0	0	0	N/A	N/A	N/A	

Model Results

12/17/2020

Anthracene	0	0	0	N/A	N/A	N/A	
Benzidine	0	0	0	0.000086	0.00009	0.083	
Benzo(a)Anthracene	0	0	0	0.0038	0.004	3.66	
Benzo(a)Pyrene	0	0	0	0.0038	0.004	3.66	
3,4-Benzofluoranthene	0	0	0	0.0038	0.004	3.66	
Benzo(k)Fluoranthene	0	0	0	0.0038	0.004	3.66	
Bis(2-Chloroethyl)Ether	0	0	0	0.03	0.03	28.9	
Bis(2-Chloroisopropyl)Ether	0	0	0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0	0	1.2	1.2	1,156	
4-Bromophenyl Phenyl Ether	0	0	0	N/A	N/A	N/A	
Butyl Benzyl Phthalate	0	0	0	N/A	N/A	N/A	
2-Chloronaphthalene	0	0	0	N/A	N/A	N/A	
Chrysene	0	0	0	0.0038	0.004	3.66	
Dibenzo(a,h)Anthrancene	0	0	0	0.0038	0.004	3.66	
1,2-Dichlorobenzene	0	0	0	N/A	N/A	N/A	
1,3-Dichlorobenzene	0	0	0	N/A	N/A	N/A	
1,4-Dichlorobenzene	0	0	0	N/A	N/A	N/A	
3,3-Dichlorobenzidine	0	0	0	0.021	0.021	20.2	
Diethyl Phthalate	0	0	0	N/A	N/A	N/A	
Dimethyl Phthalate	0	0	0	N/A	N/A	N/A	
Di-n-Butyl Phthalate	0	0	0	N/A	N/A	N/A	
2,4-Dinitrotoluene	0	0	0	0.05	0.05	48.2	
2,6-Dinitrotoluene	0	0	0	0.05	0.05	48.2	
1,2-Diphenylhydrazine	0	0	0	0.036	0.036	34.7	
Fluoranthene	0	0	0	N/A	N/A	N/A	
Fluorene	0	0	0	N/A	N/A	N/A	
Hexachlorobenzene	0	0	0	0.00028	0.0003	0.27	
Hexachlorobutadiene	0	0	0	0.44	0.44	424	
Hexachlorocyclopentadiene	0	0	0	N/A	N/A	N/A	
Hexachloroethane	0	0	0	1.4	1.4	1,349	
Indeno(1,2,3-cd)Pyrene	0	0	0	N/A	N/A	N/A	
Isophorone	0	0	0	N/A	N/A	N/A	
Naphthalene	0	0	0	N/A	N/A	N/A	
Nitrobenzene	0	0	0	N/A	N/A	N/A	
n-Nitrosodimethylamine	0	0	0	0.00069	0.0007	0.66	
n-Nitrosodi-n-Propylamine	0	0	0	0.005	0.005	4.82	
n-Nitrosodiphenylamine	0	0	0	3.3	3.3	3,179	
Phenanthrene	0	0	0	N/A	N/A	N/A	
Pyrene	0	0	0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0	0	N/A	N/A	N/A	

☑ Recommended WQBELs & Monitoring Requirements

No. Samples/Month: 4

Model Results

12/17/2020

	Mass Limits		Concentration Limits						
Pollutants	AML (lbs/day)	MDL (lbs/day)	AML	MDL	IMAX	Units	Governing WQBEL	WQBEL Basis	Comments

Other Pollutants without Limits or Monitoring

The following pollutants do not require effluent limits or monitoring based on water quality because reasonable potential to exceed water quality criteria was not determined and the discharge concentration was less than thresholds for monitoring, or the pollutant was not detected and a sufficiently sensitive analytical method was used (e.g., <= Target QL).

Pollutants	Governing WQBEL	Units	Comments
Total Dissolved Solids (PWS)	136,252	mg/L	Discharge Conc ≤ 10% WQBEL
Chloride (PWS)	68,126	mg/L	Discharge Conc ≤ 10% WQBEL
Bromide	N/A	N/A	No WQS
Sulfate (PWS)	68,126	mg/L	Discharge Conc ≤ 10% WQBEL
Total Aluminum	17,604	µg/L	Discharge Conc ≤ 10% WQBEL
Total Antimony	1,388	µg/L	Discharge Conc ≤ 10% WQBEL
Total Arsenic	2,478	µg/L	Discharge Conc ≤ 10% WQBEL
Total Barium	492,907	µg/L	Discharge Conc ≤ 10% WQBEL
Total Beryllium	N/A	N/A	No WQS
Total Boron	190,121	µg/L	Discharge Conc ≤ 10% WQBEL
Total Cadmium	51.0	µg/L	Discharge Conc ≤ 10% WQBEL
Total Chromium (III)	21,402	µg/L	Discharge Conc ≤ 10% WQBEL
Hexavalent Chromium	382	µg/L	Discharge Conc ≤ 10% WQBEL
Total Cobalt	2,230	µg/L	Discharge Conc ≤ 10% WQBEL
Total Copper	334	µg/L	Discharge Conc ≤ 10% WQBEL
Free Cyanide	516	µg/L	Discharge Conc ≤ 25% WQBEL
Total Cyanide	N/A	N/A	No WQS
Dissolved Iron	74,334	µg/L	Discharge Conc ≤ 10% WQBEL
Total Iron	429,748	µg/L	Discharge Conc ≤ 10% WQBEL
Total Lead	791	µg/L	Discharge Conc < TQL
Total Manganese	247,781	µg/L	Discharge Conc ≤ 10% WQBEL
Total Mercury	12.4	µg/L	Discharge Conc ≤ 10% WQBEL
Total Nickel	11,187	µg/L	Discharge Conc ≤ 10% WQBEL
Total Phenols (Phenolics) (PWS)	1,363	µg/L	Discharge Conc ≤ 10% WQBEL
Total Selenium	1,236	µg/L	Discharge Conc ≤ 10% WQBEL
Total Silver	91.7	µg/L	Discharge Conc ≤ 10% WQBEL
Total Thallium	59.5	µg/L	Discharge Conc < TQL
Total Zinc	2,857	µg/L	Discharge Conc ≤ 10% WQBEL
Total Molybdenum	N/A	N/A	No WQS
Acrolein	70.4	µg/L	Discharge Conc < TQL
Acrylonitrile	49.1	µg/L	Discharge Conc < TQL
Benzene	1,156	µg/L	Discharge Conc < TQL
Bromoform	4,142	µg/L	Discharge Conc < TQL
Carbon Tetrachloride	222	µg/L	Discharge Conc < TQL
}	•		

Model Results

12/17/2020

Chlorobenzene	28,166	µg/L	Discharge Conc ≤ 25% WQBEL
Chlorodibromomethane	385	µg/L	Discharge Conc < TQL
Chloroethane	N/A	N/A	No WQS
2-Chloroethyl Vinyl Ether	422,492	µg/L	Discharge Conc < TQL
Chloroform	5,491	µg/L	Discharge Conc < TQL
Dichlorobromomethane	530	µg/L	Discharge Conc < TQL
1,1-Dichloroethane	N/A	N/A	No WQS
1,2-Dichloroethane	366	µg/L	Discharge Conc < TQL
1,1-Dichloroethylene	8,177	µg/L	Discharge Conc < TQL
1,2-Dichloropropane	258,190	µg/L	Discharge Conc < TQL
1,3-Dichloropropylene	328	µg/L	Discharge Conc < TQL
1,4-Dioxane	N/A	N/A	No WQS
Ethylbenzene	68,068	µg/L	Discharge Conc < TQL
Methylene Chloride	4,431	µg/L	Discharge Conc < TQL
1,1,2,2-Tetrachloroethane	164	µg/L	Discharge Conc < TQL
Tetrachloroethylene	665	µg/L	Discharge Conc < TQL
Toluene	39,902	µg/L	Discharge Conc < TQL
1,2-trans-Dichloroethylene	34,689	µg/L	Discharge Conc < TQL
1,1,1-Trichloroethane	70,415	µg/L	Discharge Conc < TQL
1,1,2-Trichloroethane	568	µg/L	Discharge Conc < TQL
Trichloroethylene	2,408	µg/L	Discharge Conc < TQL
Vinyl Chloride	24.1	µg/L	Discharge Conc < TQL
2-Chlorophenol	13,144	µg/L	Discharge Conc < TQL
2,4-Dichlorophenol	19,079	µg/L	Discharge Conc < TQL
2,4-Dimethylphenol	15,491	µg/L	Discharge Conc < TQL
4,6-Dinitro-o-Cresol	1,878	µg/L	Discharge Conc < TQL
2,4-Dinitrophenol	15,491	µg/L	Discharge Conc < TQL
2-Nitrophenol	187,774	µg/L	Discharge Conc < TQL
4-Nitrophenol	53,985	µg/L	Discharge Conc < TQL
p-Chloro-m-Cresol	3,755	µg/L	Discharge Conc < TQL
Pentachlorophenol	206	µg/L	Discharge Conc < TQL
Phenol	2,576,921	µg/L	Discharge Conc < TQL
2,4,6-Trichlorophenol	1,349	µg/L	Discharge Conc < TQL
Acenaphthene	1,948	µg/L	Discharge Conc < TQL
Acenaphthylene	N/A	N/A	No WQS
Anthracene	2,056,581	µg/L	Discharge Conc < TQL
Benzidine	0.083	µg/L	Discharge Conc < TQL
Benzo(a)Anthracene	3.66	µg/L	Discharge Conc < TQL
Benzo(a)Pyrene	3.66	µg/L	Discharge Conc < TQL
3,4-Benzofluoranthene	3.66	µg/L	Discharge Conc < TQL
Benzo(ghi)Perylene	N/A	N/A	No WQS
Benzo(k)Fluoranthene	3.66	µg/L	Discharge Conc < TQL
Bis(2-Chloroethoxy)Methane	N/A	N/A	No WQS
Bis(2-Chloroethyl)Ether	28.9	µg/L	Discharge Conc < TQL
Bis(2-Chloroisopropyl)Ether	346.893	µg/L	Discharge Conc < TQL

Model Results

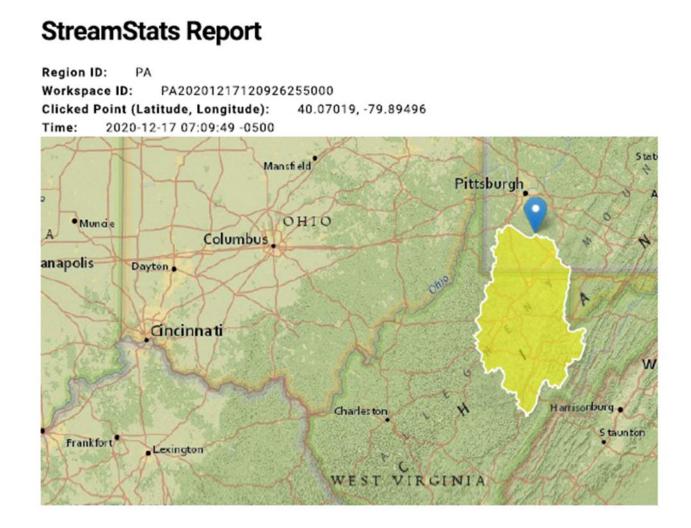
12/17/2020

NPDES Permit No. PA0022241

Bis(2-Ethylhexyl)Phthalate	1,156	µg/L	Discharge Conc ≤ 25% WQBEL
4-Bromophenyl Phenyl Ether	6,337	µg/L	Discharge Conc < TQL
Butyl Benzyl Phthalate	3,286	µg/L	Discharge Conc ≤ 25% WQBEL
2-Chloronaphthalene	247,781	µg/L	Discharge Conc < TQL
4-Chlorophenyl Phenyl Ether	N/A	N/A	No WQS
Chrysene	3.66	µg/L	Discharge Conc < TQL
Dibenzo(a,h)Anthrancene	3.66	µg/L	Discharge Conc < TQL
1,2-Dichlorobenzene	19,247	µg/L	Discharge Conc < TQL
1,3-Dichlorobenzene	8,215	µg/L	Discharge Conc ≤ 25% WQBEL
1,4-Dichlorobenzene	17,134	µg/L	Discharge Conc ≤ 25% WQBEL
3,3-Dichlorobenzidine	20.2	µg/L	Discharge Conc < TQL
Diethyl Phthalate	93,887	µg/L	Discharge Conc < TQL
Dimethyl Phthalate	58,679	µg/L	Discharge Conc < TQL
Di-n-Butyl Phthalate	2,582	µg/L	Discharge Conc < TQL
2,4-Dinitrotoluene	48.2	µg/L	Discharge Conc < TQL
2,6-Dinitrotoluene	48.2	µg/L	Discharge Conc < TQL
Di-n-Octyl Phthalate	N/A	N/A	No WQS
1,2-Diphenylhydrazine	34.7	µg/L	Discharge Conc < TQL
Fluoranthene	4,694	µg/L	Discharge Conc < TQL
Fluorene	272,559	µg/L	Discharge Conc < TQL
Hexachlorobenzene	0.27	µg/L	Discharge Conc < TQL
Hexachlorobutadiene	235	µg/L	Discharge Conc < TQL
Hexachlorocyclopentadiene	117	µg/L	Discharge Conc < TQL
Hexachloroethane	1,349	µg/L	Discharge Conc < TQL
Indeno(1,2,3-cd)Pyrene	0.94	µg/L	Discharge Conc < TQL
Isophorone	8,672	µg/L	Discharge Conc < TQL
Naphthalene	3,286	µg/L	Discharge Conc ≤ 25% WQBEL
Nitrobenzene	4,212	µg/L	Discharge Conc < TQL
n-Nitrosodimethylamine	0.66	µg/L	Discharge Conc < TQL
n-Nitrosodi-n-Propylamine	4.82	µg/L	Discharge Conc < TQL
n-Nitrosodiphenylamine	3,179	µg/L	Discharge Conc < TQL
Phenanthrene	117	µg/L	Discharge Conc < TQL
Pyrene	205,658	µg/L	Discharge Conc < TQL
1,2,4-Trichlorobenzene	3,051	µg/L	Discharge Conc < TQL
	-		-

Model Results

12/17/2020



Basin Characteristics			
Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	5130	square miles
ELEV	Mean Basin Elevation	1854	feet

Low-Flow Statistics Parameters(100 Percent (5130 square miles) Low Flow Region 4)								
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit			
DRNAREA	Drainage Area	5130	square miles	2.26	1400			

Applicant:	Borough of California
Name of plant:	California Borough STP
Permit Number:	PA0022241
Municipality:	California Borough
County:	Washington County
Receiving stream:	Monongahela River

The following program will calulate partial mix factors for acute and chronic conditions:

calculated fields

net stream flow (Qs cfs)=	530
discharge flow (Qd mgd)=	1.2
velocity (fps)=	0.082
width (feet) =	542.5
depth (feet) =	12
slope (ft/ft) =	0.0001

or

complete mix time (min) =

963.63

FOR ACUTE CONDITIONS: IF COMPLETE MIX TIME < 15 MINUTES THEN PMF = 1, IF > 15 MINUTES CALCULATE PMFa

PMFa =

0.125	
12.48	%

FOR CHRONIC CONDITIONS: IF COMPLETE MIX TIME < 720 MINUTES THEN PMF = 1, IF > 720 MINUTES CALCULATE PMFc

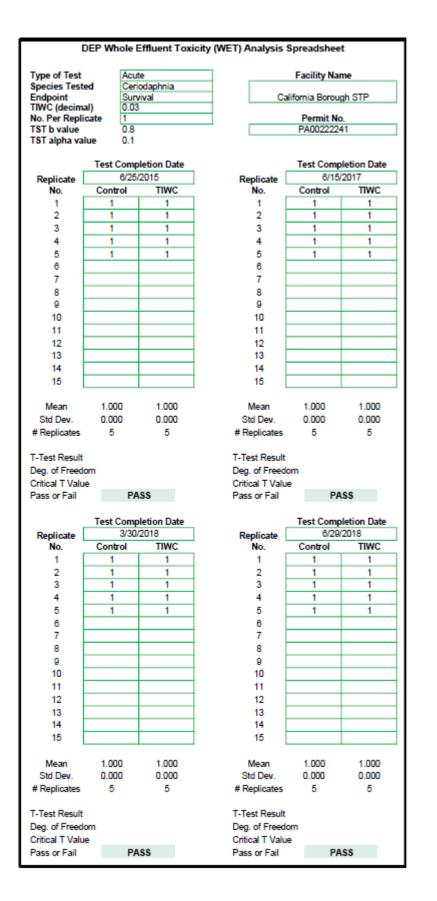
PMFc =	or	0.864 86.44 %]		
IWCc=[Qd * 1.547] / [((Qs*PMFc	:) + (Qd * 1.547)]] =	0.0040		
Target IWCc=IWCc/1=	[0.004			0.40	%
IWCa=[Qd * 1.547] / [(0	Qs*PMFa) + (Qd * 1.547)]] =	0.0273		
Target IWCa=IWCa/0.3=	[0.091	or		9.10	%
WET tests should pass than the target IWCa (ac					nelas LC50 are	greater
Program written by Dav	vid Ponc	hione on April 8,	1999			

Program run by :

W. Mitchell

on December 16, 2020

For Department use only



· ·	DED Whele I	- Hunnt Taviai	the (MCT) An abusis	Consolation		
	UCF WINDIE I	Entuent Toxici	ity (WET) Analysis	apreadsnee	n.	
Type of Test	Acu		コ	Facility Na	me	
Species Test Endpoint		ephales /ival	Ca	lifornia Borou	gh STP	
TIWC (decim						
No. Per Repli TST b value	icate 10 0.8			Permit No. PA00222241		
TST alpha va						
	T (0			T 10		
Deallingto		letion Date	Destinate		letion Date /2017	
Replicate No.	Control	TIWC	Replicate No.	Control	TIWC	
1	1	1	1	0.9	0.8	
2	1	1	2	0.9	1	
3	0.9	0.9	3	1	1	
4 5	1	1	4	1	0.9	
5 6			6			
7			7			
8			8			
9			9			
10			10			
11			11			
12 13			12 13			
14			14			
15			15			
Mean	0.975	0.975	Mean	0.950	0.925	
Std Dev.	0.050	0.050	Std Dev.	0.058	0.096	
# Replicates	4	4	# Replicates	4	4	
T-Test Result	11.0	3270	T-Test Result	6.2	947	
Deg. of Freed	om	5	Deg. of Freedom 4			
Critical T Valu	Deg. of Freedom 5		Deg. of Freedo	om ·	4	
		759	Critical T Valu	e 1.5	332	
Pass or Fail			-	e 1.5		
	PA	759 ISS	Critical T Valu	e 1.5 PA	332 ISS	
Pass or Fail	PA Test Comp	759	Critical T Valu Pass or Fail	e 1.5 PA Test Comp	332	
	PA Test Comp	759 ISS Iletion Date	Critical T Valu	e 1.5 PA Test Comp	332 ISS	
Pass or Fail Replicate No. 1	PA Test Comp 4/1/ Control 1	759 IsS Ietion Date 2018 TIWC 1	Critical T Valu Pass or Fail Replicate [No. 1 [e 1.5 PA Test Comp 7/1/ Control 1	siss soletion Date 2018 TIWC	
Pass or Fail Replicate No. 1 2	PA Test Comp 4/1/ Control 1 0.9	759 SS 2018 TIWC 1 0.9	Critical T Valu Pass or Fail Replicate (No. 1 2	e 1.5 PA Test Comp 7/1/ Control 1 1	332 ISS Detion Date 2018 TIWC 1 1	
Pass or Fail Replicate No. 1 2 3	PA Test Comp 4/1/ Control 1 0.9 1	759 SS 2018 TIWC 1 0.9 1	Critical T Valu Pass or Fail Replicate No. 1 2 3	e 1.5 PA Test Comp 7/1/ Control 1 1 1	332 ISS Detion Date 2018 TIWC 1 1 1	
Pass or Fail Replicate No. 1 2 3 4	PA Test Comp 4/1/ Control 1 0.9	759 SS 2018 TIWC 1 0.9	Critical T Valu Pass or Fail Replicate No. 1 2 3 4	e 1.5 PA Test Comp 7/1/ Control 1 1	332 ISS Detion Date 2018 TIWC 1 1	
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Pass or Fail Replicate No. 1 2 3 4 5 6 7	PA Test Comp 4/1/ Control 1 0.9 1	759 SS 2018 TIWC 1 0.9 1	Critical T Valu Pass or Fail No. 1 2 3 4 5 6 7	e 1.5 PA Test Comp 7/1/ Control 1 1 1	332 ISS Detion Date 2018 TIWC 1 1 1	
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Pass or Fail Replicate No. 1 2 3 4 5 6 7 8 9	PA Test Comp 4/1/ Control 1 0.9 1	759 SS 2018 TIWC 1 0.9 1	Critical T Valu Pass or Fail No. 1 2 3 4 5 6 7 8 9	e 1.5 PA Test Comp 7/1/ Control 1 1 1	332 ISS Detion Date 2018 TIWC 1 1 1	
Pass or Fail Replicate No. 1 2 3 4 5 6 7 8 9 10	PA Test Comp 4/1/ Control 1 0.9 1	759 SS 2018 TIWC 1 0.9 1	Critical T Valu Pass or Fail No. 1 2 3 4 5 6 7 8 9 10	e 1.5 PA Test Comp 7/1/ Control 1 1 1	332 ISS Detion Date 2018 TIWC 1 1 1	
Pass or Fail Replicate No. 1 2 3 4 5 6 7 8 9 10 11	PA Test Comp 4/1/ Control 1 0.9 1	759 SS 2018 TIWC 1 0.9 1	Critical T Valu Pass or Fail No. 1 2 3 4 5 6 7 8 9 10 11	e 1.5 PA Test Comp 7/1/ Control 1 1 1	332 ISS Detion Date 2018 TIWC 1 1 1	
Pass or Fail Replicate No. 1 2 3 4 5 6 7 8 9 10	PA Test Comp 4/1/ Control 1 0.9 1	759 SS 2018 TIWC 1 0.9 1	Critical T Valu Pass or Fail No. 1 2 3 4 5 6 7 8 9 10	e 1.5 PA Test Comp 7/1/ Control 1 1 1	332 ISS Soletion Date 2018 TIWC 1 1 1	
Pass or Fail Replicate No. 1 2 3 4 5 6 7 8 9 10 11 12	PA Test Comp 4/1/ Control 1 0.9 1	759 SS 2018 TIWC 1 0.9 1	Critical T Valu Pass or Fail No. 1 2 3 4 5 6 7 8 9 10 11 12	e 1.5 PA Test Comp 7/1/ Control 1 1 1	332 ISS Soletion Date 2018 TIWC 1 1 1	
Pass or Fail Replicate No. 1 2 3 4 5 6 7 8 9 10 11 12 13	PA Test Comp 4/1/ Control 1 0.9 1	759 SS 2018 TIWC 1 0.9 1	Critical T Valu Pass or Fail No. 1 2 3 4 5 6 7 8 9 10 11 12 13	e 1.5 PA Test Comp 7/1/ Control 1 1 1	332 ISS Soletion Date 2018 TIWC 1 1 1	
Pass or Fail Replicate No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	PA Test Comp 4/1/ Control 1 0.9 1 1 1	759 SS 2018 TIWC 1 0.9 1 1 1 1 1 1 1 1 1 1 1 1 1	Critical T Valu Pass or Fail No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	e 1.5 PA Test Comp 7/1/ Control 1 1 1 1	332 ISS 2018 TIWC 1 1 1 1 1	
Pass or Fail Replicate No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Mean	PA Test Comp 4/1/ Control 1 0.9 1 1 0.9 1 0.9 1 0.9 1 0.9 1 1 0.9 1 0.9 1 0 0 0 0 0 0 0 0 0 0 0 0 0	759 SS Idetion Date 2018 TIWC 1 0.9 1 1 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0	Critical T Valu Pass or Fail No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Mean	e 1.5 PA Test Comp 7/1/ Control 1 1 1 1 1 1 1	332 ISS Detion Date 2018 TIWC 1 1 1 1 1 1 1 1 1 1 1 1 1	
Pass or Fail Replicate No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Mean Std Dev.	PA Test Comp 4/1/ Control 1 0.9 1 1 0.9 1 0.9 0.975 0.050	759 SS Idetion Date 2018 TIWC 1 0.9 1 1 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0	Critical T Valu Pass or Fail No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Mean Std Dev.	e 1.5 PA Test Comp 7/1/ Control 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	332 ISS Detion Date 2018 TIWC 1 1 1 1 1 1 1 1 1 1 1 1 1	
Pass or Fail Replicate No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Mean	PA Test Comp 4/1/ Control 1 0.9 1 1 0.9 1 0.9 1 0.9 1 0.9 1 1 0.9 1 0.9 1 0 0 0 0 0 0 0 0 0 0 0 0 0	759 SS Idetion Date 2018 TIWC 1 0.9 1 1 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0	Critical T Valu Pass or Fail No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Mean	e 1.5 PA Test Comp 7/1/ Control 1 1 1 1 1 1 1	332 ISS Detion Date 2018 TIWC 1 1 1 1 1 1 1 1 1 1 1 1 1	
Pass or Fail Replicate No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Mean Std Dev.	PA Test Comp 4/1// Control 1 1 1 1 0.9 1 1 1 0.9 1 1 1 0.9 1 4	759 SS Idetion Date 2018 TIWC 1 0.9 1 1 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 1 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0	Critical T Valu Pass or Fail No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Mean Std Dev.	e 1.5 PA Test Comp 7/1/ Control 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	332 ISS Detion Date 2018 TIWC 1 1 1 1 1 1 1 1 1 1 1 1 1	
Pass or Fail Replicate No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Mean Std Dev. # Replicates	PA Test Comp 4/1// Control 1 1 1 1 0.9 1 1 1 0.9 1 1 1 0.9 1 4 11.6	759 SS Iletion Date 2018 TIWC 1 0.9 1 1 1 0.9 1 1 0.9 1 0 0 0 0 0 0 0 0 0 0 0 0 0	Critical T Valu Pass or Fail No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15 Mean Std Dev. # Replicates	e 1.5 PA Test Comp 7/1/ Control 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	332 ISS Detion Date 2018 TIWC 1 1 1 1 1 1 1 1 1 1 1 1 1	
Pass or Fail Replicate No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Mean Std Dev. # Replicates T-Test Result	PA Test Comp 4/1// Control 1 0.9 1 1 0.9 1 1 0.9 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	759 SS Iletion Date 2018 TIWC 1 0.9 1 1 1 0.9 1 1 0.9 1 0.9 1 1 0.9 1 1 0.9 1 1 0.9 1 1 0.9 1 1 0.9 1 1 0.9 1 1 0.9 1 1 0.9 1 1 0.9 1 1 0.9 1 1 0.9 1 1 0.9 1 1 0.9 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	Critical T Valu Pass or Fail No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 14 15 Mean Std Dev. # Replicates T-Test Result	e 1.5 PA Test Comp 7/1/ Control 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	332 ISS Detion Date 2018 TIWC 1 1 1 1 1 1 1 1 1 1 1 1 1	

WET Summary and Evaluation								
	WEI S	uninary and	Evaluation					
Facility Name	California Bor	ough STP						
Permit No.	PA0022241							
Design Flow (MGD)	1.2							
Q ₇₋₁₀ Flow (cfs)	530							
PMFa	0.125							
PMFc	0.864							
			Test Result	s (Pass/Fail)				
		Test Date	Test Date	Test Date	Test Date			
Species	Endpoint	6/25/15	6/15/17	3/30/18	6/29/18			
Ceriodaphnia	Survival	PASS	PASS	PASS	PASS			
Test Results (Pass/Fail)								
		Test Date	Test Date	Test Date	Test Date			
Species	Endpoint	6/27/15	6/17/17	4/1/18	7/1/18			
Pimephales	Survival	PASS	PASS	PASS	PASS			
			Test Results (Pass/Fail)					
		Test Date	Test Date	Test Date	Test Date			
Species	Endpoint							
			Test Deset	(Dece / Ee il)				
			Test Result	s (Pass/Fail)				
	1	Teet Dete	Test Date	Test Date				
Crusting 1	En de sint	Test Date	Test Date	Test Date	Test Date			
Species	Endpoint	Test Date	Test Date	Test Date	Test Date			
Species	Endpoint	Test Date	Test Date	Test Date	Test Date			
		Test Date	Test Date	Test Date	Test Date			
Species Reasonable Potentia		Test Date	Test Date	Test Date	Test Date			
Reasonable Potentia	I? NO	Test Date	Test Date	Test Date	Test Date			
Reasonable Potentia	I? NO		Test Date	Test Date	Test Date			
Reasonable Potentia Permit Recommenda Test Type	I? NO I <u>tions</u> Chronic		Test Date	Test Date	Test Date			
Reasonable Potentia <u>Permit Recommenda</u> Test Type TIWC	I? NO Itions Chronic 1	% Effluent		Test Date	Test Date			
Reasonable Potentia Permit Recommenda Test Type TIWC Dilution Series	I? NO Itions Chronic 1 1, 2,			Test Date	Test Date			
Reasonable Potentia <u>Permit Recommenda</u> Test Type TIWC	I? NO Itions Chronic 1	% Effluent		Test Date	Test Date			