

Southeast Regional Office CLEAN WATER PROGRAM

Application Type

Facility Type

Major / Minor

Major

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0026786

APS ID 1040105

Authorization ID 1356616

	Applicant and Facility Information									
Applicant Name	Pottstown Borough Authority Montgomery County	Facility Name	Pottstown Borough Sewer System & STP							
Applicant Address	100 East High Street	Facility Address	1269 Industrial Highway							
	Pottstown, PA 19464		Pottstown, PA 19464							
Applicant Contact	Brent Wagner	Facility Contact	Brent Wagner							
Applicant Phone	(610) 970-6540	Facility Phone	(610) 970-6540							
Client ID	52334	Site ID	237350							
Ch 94 Load Status	Not Overloaded	Municipality	Pottstown Borough							
Connection Status	No Limitations	County	Montgomery							
Date Application Rece	eived June 3, 2021	EPA Waived?	No							
Date Application Acce	pted Not Applicable	If No, Reason	Major Facility, Pretreatment							
Purpose of Application	NPDES permit renewal.									

Summary of Review

An application was received to renew the National Pollutant Discharge Elimination System (NPDES) permit number PA0026786. The facility permitted annual average flow is 12.85 million gallons per day (mgd).

Treatment units consist of a mechanical bar screen with back-up comminutor, two pre-aeration/grit removal tanks, eight aeration tanks, two final clarifiers, a dechlorination trough, and two dechlorination tanks. Waste activated sludge is treated by two rotary drum thickeners, two aerobic digesters, one of two dewatering centrifuges and a thermal dryer, producing Class A (land applied) and Class B (landfilled) biosolids. The treatment plant serves the Borough of Pottstown, Lower Pottsgrove Township, West Pottsgrove Township, and Upper Pottsgrove Township. The facility receives both municipal and residual hauled-in waste.

The facility has a pre-treatment plan. The following industrial users were noted on the renewal application:

A&L Handles, Inc (screwdriver handles) 125 gpd

American Key (stainless steel kegs) 2,733.33 gpd

Best Weld, Inc. (bend metal pipes) 3,169 gpd

Dana Driveshaft Products, LLC (driveline parts) 24,741 gpd

Hammond Lead Product (manufacture lead oxide) 761 gpd

Innochem Inc. (manufacture tin oxide and tin sulfate) 8 gpd

Pottstown Memorial Medical Center (hospital) 105,532 gpd

Sly Fox Brewing Co. (brewery) 8,334 gpd

Glen Springs Holdings, Inc. (GW remediation), goes direct to Schuylkill 0 gpd

Delaware County Solid Waste Authority (landfill leachate) 111,199 gpd

Pottstown Landfill, Waste Management (landfill) 31,194 gpd

Western Berks Community Landfill & Recycling Center (landfill leachate) 17,778 gpd

Approve	Deny	Signatures	Date
Х		Harmonie Hawley, PhD, PE / Environmental Engineering Specialist /s/	August 13, 2021
Х		Pravin C. Patel, P.E. / Environmental Engineer Manager /s/	08/16/2021

Summary of Review

Act 14 Notifications:

Montgomery County Received May 14, 2021 Lower Pottsgrove Received May 5, 2021 Upper Pottsgrove Received May 5, 2021 West Pottsgrove Received May 6, 2021 Pottstown Received June 3, 2021

Sludge use and disposal description and location(s): The facility has two biosolids permits (PAG08-0005 and PAG07-011); in addition, biosolids are hauled to a landfill.

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 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.

ischarge, Receiving	Waters and Water Supply Info	rmation				
Outfall No. 001		Design Flow (MGD)	12.85			
Latitude 40° 14′	' 09"	Longitude	-75° 37' 30"			
	stown	Quad Code	1740			
Wastewater Descript	tion: Treated Sewage Effluent	with industrial contributions				
Receiving Waters	Schuylkill River (WWF, MF)	Stream Code	00833			
NHD Com ID	25990598	RMI	52.45			
Drainage Area	1148.47	Yield (cfs/mi²)	0/245			
Q ₇₋₁₀ Flow (cfs)	281	Q ₇₋₁₀ Basis	PA StreamStats			
Elevation (ft)	115.8	Slope (ft/ft)	0.00028			
Watershed No.	3-D	Chapter 93 Class.	WWF, MF			
Existing Use _	Same as Chapter 93	Existing Use Qualifier	N/A			
Exceptions to Use _	None	Exceptions to Criteria	None			
Assessment Status	Impaired					
Cause(s) of Impairme	ent Polychlorinated Biphenyl	ls (PCBs)				
Source(s) of Impairm	nent Source Unknown					
TMDL Status	Final	Name Schuylkill Ri	iver PCB TMDL			
Background/Ambient	t Data	Data Source				
pH (SU)	7	TRG WQM (391-2000-007 de	efault data)			
Temperature (°F)	68 (20 °C)	TRG WQM (391-2000-007 de	efault data)			
Hardness (mg/L)	100	Toxics Analysis Spreadsheet	default			
Other:	N/A	None				
Nearest Downstream	n Public Water Supply Intake	PA American Royersford (3.7	mad)			
	chuylkill River	Flow at Intake (cfs) ~291				
-	5.95	Distance from Outfall (mi) 6.5				

Changes Since Last Permit Issuance: None

Other Comments: Last Fact Sheet used *Water Resources Investigations Report 99-4068 "Comparison of Methods for Computing Streamflow Statistics for Pennsylvania Streams" (1999), Appendix 1. From 1935-1996, Q7-10 = 281 cfs at USGS01472000, where DA = 1147 mi2; this information is barely changed in the renewal.

Discharge, Receiving Water	rs and Water Supply Inforn	nation	
Outfall No. 002 Latitude 40° 14' 04" Quad Name Pottstown Wastewater Description:	Stormwater	Design Flow (MGD) Longitude Quad Code	0 -75° 37' 44" 1740
Receiving Waters Schur	ylkill River (WWF, MF) Impaired	Stream Code	00833
Cause(s) of Impairment	Polychlorinated Biphenyls	(PCBs)	
Source(s) of Impairment	Source Unknown		
TMDL Status	Final	Name Schuylkill Ri	ver PCB TMDL

Changes Since Last Permit Issuance: None - same information as Outfall 001

Other Comments: None

	Trea	atment Facility Summa	ary	
Treatment Facility Nar	ne: Pottstown Borough STF			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Activated Sludge	Chlorine With Dechlorination	12.85
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
15.6	23000	Not Overloaded	Permit/Hauled off	Permit/Hauled o

Changes Since Last Permit Issuance: the facility removed the grit removal tanks with the scum handling equipment (permit 4621401 issued 5/6/2021). The mechanical screens and comminutors were replaced (permit 4618407 issued 9/26/2018). The sludge dryer system was replaced (permit 4617406 issued 3/12/2018)

Other Comments: None

Compliance History

DMR Data for Outfall 001 (from July 1, 2020 to June 30, 2021)

Parameter	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20
Flow (MGD)												
Average Monthly	4.619	4.327	4.647	7.598	7.965	5.243	8.240	4.655	3.953	3.337	4.491	3.939
Flow (MGD)												
Daily Maximum	13.767	16.009	8.695	25.543	20.945	16.074	31.825	11.008	11.008	8.321	22.317	12.864
pH (S.U.)												
Instantaneous												
Minimum	6.9	6.1	6.2	6.0	6.0	6.3	6.5	6.6	6.8	6.2	6.7	6.1
pH (S.U.)												
Instantaneous												
Maximum	7.4	7.3	7.5	7.4	7.2	7.4	7.1	7.4	7.2	7.3	7.0	7.5
DO (mg/L)												
Instantaneous												
Minimum	7.6	7.8	7.9	8.7	9.2	9.1	8.9	8.4	8.1	7.8	7.7	7.7
DO (mg/L)												
Average Monthly	8.0	8.2	8.5	9.2	9.6	9.5	9.5	8.8	8.4	10.4	7.9	7.9
TRC (mg/L)												
Average Monthly	0.07	0.1	0.08	0.19	0.15	0.11	0.2	0.14	0.1	0.07	0.10	0.04
TRC (mg/L)												
Instantaneous			0.40			0.4=	4.0					0.40
Maximum	0.22	0.9	0.43	0.76	0.83	0.47	1.3	0.90	0.6	0.6	1.5	0.12
CBOD5 (lbs/day)	004	054	054	000	504	075	500	000	400	400	005	400
Average Monthly	221	254	254	636	534	275	500	268	163	133	285	168
CBOD5 (lbs/day)	004	040	007	4400	004	500	4474	400	400	450	000	000
Weekly Average	394	212	287	1182	934	502	1171	188	169	158	900	322
CBOD5 (mg/L)	6	7	7	8.3	7.1	6	5.6	6	5	4.7	5	4.7
Average Monthly CBOD5 (mg/L)	6	/	/	0.3	7.1	0	5.0	0	5	4.7	5	4.7
Weekly Average	7	7	7	9.7	8.0	7	7.5	5	5	5.8	8	6.0
BOD5 (lbs/day)	,	,	,	9.1	0.0	,	7.5	3	3	3.0	0	0.0
Raw Sewage Influent												
Average Monthly	16872	12630	11549	11723	11093	8413	14431	8893	7299	9184	8833	11615
BOD5 (mg/L)	10072	12000	11043	11123	11093	0413	14401	0035	1233	3104	0000	11013
Raw Sewage Influent												
Average Monthly	438	350	314	185	167	229	210	243	237	330	271	347
TSS (lbs/day)	700	000	017	100	107	220	210	2-10	201	000	211	0-11
Average Monthly	313	402	337	1066	936	619	988	519	415	314	703	351

NPDES Permit Fact Sheet Pottstown Borough Sewer System & STP

	•	1	•	1	•	1	1	1	1	1	1	1
TSS (lbs/day)												
Weekly Average	564	321	464	1884	1704	1143	2399	380	500	330	1990	800
TSS (mg/L)												
Average Monthly	8	10	9	14	12.0	14	11	11	13	11	13	9.0
TSS (mg/L)												
Raw Sewage Influent												
Average Monthly	787	525	337	207	182	390	287	264	373	460	663	328
TSS (mg/L)												
Weekly Average	9	11	10	21	13.3	19	15	9	15	13	20	13.1
Total Dissolved Solids												
(lbs/day)												
Average Monthly	62848	56376	61352	71406	92080	60797	68715	47824	52827	58468	57524	57204
Total Dissolved Solids												
(lbs/day)												
Special Effluent Gross												
Average Monthly	GG	GG	GG	1	1	1	1	1	1	1	1	1
Total Dissolved Solids												
(lbs/day)												
Daily Maximum	150835	84750	173897	156282	201169	138118	133439	91248	146650	103013	201014	203843
Total Dissolved Solids												
(lbs/day)												
Special Effluent Gross						_					_	
Daily Maximum	GG	GG	GG	1	1	1	1	1	1	1	1	1
Total Dissolved Solids												
(mg/L)												
Average Monthly	1741	1793	1660	1250	1534	1613	1118	1297	2980	2129	1712	1802
Total Dissolved Solids												
(mg/L)												
Special Effluent Gross							_		_			
Average Monthly	GG	GG	GG	1	1	1	1	1	1	1	1	1
Total Dissolved Solids												
(mg/L)	0050	0070	5750	0000	0.400	0054	4070	4000	4704	0400	0000	0000
Daily Maximum	2952	2676	5752	2066	2422	2654	1672	1992	1704	3100	2680	2920
Total Dissolved Solids												
(mg/L)												
Special Effluent Gross	00	00	00									
Daily Maximum	GG	GG	GG	1	1	1	1	1	1	1	1	1
Fecal Coliform												
(No./100 ml)	40	40	00	10	4.4	F0	2.4	4.5	24	24	20	20
Geometric Mean	42	49	98	16	14	50	34	15	31	31	26	38
Fecal Coliform												
(No./100 ml)												
Instantaneous	004	400	4000	00	4.40	400	070	405	400	0.40	400	000
Maximum	921	186	1986	93	146	196	276	125	136	249	128	308

NPDES Permit Fact Sheet Pottstown Borough Sewer System & STP

Total Nitrogen												
(lbs/day)												
Average Monthly	963	1371	995	1394	1728	1224	1148	811	1173	2428	749	803
Total Nitrogen (mg/L)												
Average Monthly	25	38	25.63	22	26.94	28	16.7	21	35.6	35.6	20	24.46
Ammonia (lbs/day)												
Average Monthly	154	105	252	634	473	221	284	159	104	94	91	815
Ammonia (mg/L)												
Average Monthly	4.3	3.2	6.5	10.0	6.7	6.2	4.1	3.5	2.6	3.4	1.9	2.4
Total Phosphorus												
(lbs/day)												
Average Monthly	46	54.1	50	106	214.6	61	41.2	74	92	70	86	99
Total Phosphorus												
(mg/L)												
Average Monthly	1.2	1.5	1.3	1.4	3.23	1.4	0.6	1.9	2.8	2.5	2.3	3.0
Total Aluminum												
(mg/L)												
Daily Maximum	0.15			0.12			0.89			0.05		
Total Copper (mg/L)												
Average Monthly	0.012	0.014	0.012	0.022	0.013	0.011	0.012	0.019	0.021	0.019	0.010	0.025
Free Cyanide (mg/L)												
Daily Maximum	0.006			< 0.004			0.010			0.012		
Total Mercury (mg/L)												
Daily Maximum	< 0.0002			< 0.0002			< 0.0002			< 0.0002		
Sulfate (mg/L)												
Daily Maximum	58	74	61	67	59	72	38	61	92.4	80	78.6	95
Total Tritium (pCi/L)												
Daily Maximum	1380			940			760			900		
Total Zinc (mg/L)												
Daily Maximum	0.041			0.034			0.059			0.041		
Benzidine (mg/L)												
Daily Maximum	< 0.05			< 0.05			< 0.05			< 0.050		
Chloride (mg/L)		4000	0=0	0.45	400	4000	-40		4400	4400		1010
Daily Maximum	780	1030	859	815	490	1020	519	737	1180	1100	559	1240
Bromide (mg/L)	7	40	0.5	0.0	0.5	0.4	0.4	7 7	40	44	4.07	40
Daily Maximum	7	10	8.5	8.8	2.5	9.4	6.1	7.7	12	11	4.67	13
Total Phenolics (mg/L)	0.000			0.000			0.004			0.040		
Daily Maximum	< 0.002			0.026			0.024			0.012		
PCBs (Dry Weather)												
(pg/L)												
Daily Maximum							FF					
PCBs (Wet Weather)												
(pg/L)							0040					
Daily Maximum							2810					

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Chronic WET - Ceriodaphnia Survival						
(TUc)						
Daily Maximum			14.29			
Chronic WET -						
Ceriodaphnia						
Reproduction (TUc)						
Daily Maximum			14.29			
Chronic WET -						
Pimephales Survival						
(TUc)						
Daily Maximum			14.29			
Chronic WET -						
Pimephales Growth						
(TUc)						
Daily Maximum			14.29			

DMR Data for Outfall 002 (from July 1, 2020 to June 30, 2021)

Parameter	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20
pH (S.U.)												
Daily Maximum							7.7					
CBOD5 (mg/L)												
Daily Maximum							39					
COD (mg/L)												
Daily Maximum							148					
TSS (mg/L)												
Daily Maximum							98					
Oil and Grease (mg/L)												
Daily Maximum							14					
Fecal Coliform												
(No./100 ml)												
Daily Maximum							365					
TKN (mg/L)												
Daily Maximum							2.8					
Total Phosphorus												
(mg/L)												
Daily Maximum							8.0					
Dissolved Iron (mg/L)												
Daily Maximum							0.06					

Compliance History

Effluent Violations for Outfall 001, from: August 1, 2020 To: June 30, 2021

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Total Dissolved Solids	08/31/20	Daily Max	201014	lbs/day	200290	lbs/day
Total Dissolved Solids	02/28/21	Daily Max	201169	lbs/day	200290	lbs/day
Total Dissolved Solids	02/28/21	Daily Max	201169	lbs/day	200290	lbs/day
Total Dissolved Solids	08/31/20	Daily Max	201014	lbs/day	200290	lbs/day
Total Dissolved Solids	04/30/21	Daily Max	5752	mg/L	3000	mg/L
Total Dissolved Solids	04/30/21	Daily Max	5752	mg/L	3000	mg/L
Total Dissolved Solids	09/30/20	Daily Max	3100	mg/L	3000	mg/L
Fecal Coliform	04/30/21	IMAX	1986	No./100 ml	1000	No./100 ml
Fecal Coliform	04/30/21	IMAX	1986	No./100 ml	1000	No./100 ml

Summary of Inspections: An inspection was conducted on 10/16/2020 by Water Quality Specialist Paul Jardel and no violations were noted. There were complaint inspections conducted on 3/25/2021, 03/04/2021 and 02/17/2021.

Other Comments: An Open Violations Report was run on 6/8/2021 and there are open violations. There are 4 open violations by Safe Drinking Water on the water authority. There are 4 open violations on the Biosolids permit (PAG080005) on 04/26/2021. There are 4 open violations for the STP on 04/15/2020, 05/05/2020, and 02/17/2020.

Development of Effluent Limitations								
Outfall No.	001	Design Flow (MGD)	12.85					
Latitude	40° 14' 9.00'	Longitude	-75° 37' 30.00"					
Wastewater Description: Treated Sewage Effluent with industrial contributions								

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
CBOD ₅	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)
pН	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: The minimum dissolved oxygen (DO) concentration is 5.0 mg/l (Chapter 93.7). The pH range 6 to 9 is retained in this permit and is based on Chapter 95.2. Total Suspended Solids (TSS) is retained in this permit renewal and is based on Chapter 92a.47(a)(1 and 2). CBOD5, fecal coliform, and TRC are retained in the permit but are based on more stringent limitations then those found in the above table.

Effluent monitoring and frequency of monitoring for Total Nitrogen (TN) and Total Phosphorous (TP) will not be changed for this renewal. TN and TP monitoring is consistent with the Standard Operating Procedure (SOP) for "Establishing Effluent Limitations for Individual Sewage Permits" (Final November 9, 2012; Revised January 10, 2019; Version 1.6). As the Schuylkill River is not impaired for nutrients and the plant is meeting requirements for these parameters, a monitoring frequency lower than those listed in Table 6-3 from a Technical Guidance for the Development and Specification of Effluent Limitations (362-0400-001) is allowed. The frequency of 1/week will remain unchanged.

E. coli was added to the permit with a sampling frequency of once per month per SOP No. BCW-PMT-033 based on Chapter 92a.61.

Water Quality-Based Limitations

A "Reasonable Potential Analysis" was conducted using the DEP TMS spreadsheet (Attachment A) and the following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	Model
Total Aluminum	Report	TMS
Total Arsenic	Report	TMS
Total Boron	Report	TMS
Total Copper	Report	TMS
Free Cyanide	0.0249	TMS
Total Manganese	Report	TMS
Total Selenium	0.0315	TMS
Total Zinc	0.325	TMS
Bromoform	Report	TMS

Chlorodibromomethane	0.0231	TMS
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The above limitations are included in the permit with the exception of Total Copper. Total Copper has a limit of 0.04 mg/l monthly average and 0.074 mg/l instantaneous maximum and these will be retained in the permit renewal. Based on the new information run on the TMS model Total Mercury, Benzidine and Total Phenolics were not retained in the permit renewal. The three aforementioned parameters were monitor only in the existing permit.

A new limitation for Chlorodibromomethane is added to this permit. As the facility may not be able to meet this new limitation a 3-year Compliance Schedule is being implemented for the permittee to determine the source and how the limitation will be met. The limitations will take effect 3-years after permit issuance.

The WQM model was run for the conventional parameters and the results were the same limitations as the existing permit for CBOD5, NH3-N and DO (Attachment B).

The TRC spreadsheet was run and the results were the same limitations as the existing permit and the limitations noted in 92a.48(b)(2) (Attachment C).

PCBs will continue to be monitored for compliance with the Schuylkill River PCB TMDL (Final PCB TMDL Development for the Schuylkill River, Pennsylvania, Established on 4/7/2007 by the US Environmental Protection Agency). No numerical permit limit is listed (Appendix B, Table B-1) for this permit and plant; however, monitoring is required. A wasteload allocation (WLA) is listed for this plant as 2.14E-4 g/day (Appendix D, Table B-1), but the plant is not required to meet that WLA at this time. The WLA was based on a water quality criterion of 0.044 ng/L (PCB TMDL and a Delaware River Basin Commission, 2003 study). A requirement is included in Part C of the permit to conduct annual sampling for dry and wet weather and implement a Pollutant Minimization Plan (this is the same requirement as the previous permit issued in 2016 and the permit prior to the 2016 issued permit).

The Delaware River Basin Commission (DRBC) revised the Total Dissolved Solids (TDS) in Docket D-1989-055 CP-4. The current NPDES permit has daily maximum effluent limits of 3,000 mg/l and 200,290 lbs/day when the average monthly flow <= 8.935 mgd and daily maximum effluent limits of 2,238 mg/l and 240,000 lbs/day when the average monthly flow > 8.935 mgd. The TDS requirements in Effluent Table C-2 is an average monthly limit of 200,290 lb/d and daily maximum values of 3,000 mg/l and 240,000 lb/d with a monitoring of monthly. It is noted in Docket D-1989-055 CP-4 that "The revisions to the limits will not result in an increase in the allowable TDS load for the WWTP discharge and are therefore approved by this docket". Based on this new information, the same TDS limitations as Docket D-1989-055 CP-4 are in the permit renewal.

Best Professional Judgment (BPJ) Limitations

Comments: Chloride, Bromide and Total Sulfate monitoring are retained in the permit renewal due to the high TDS which is consistent with DEP guidance.

Influent monitoring of BOD5 and TSS are retained in the permit. The frequency for influent BOD5 monitoring is reduced from 1/day to 1/week; reporting of BOD5 is required by Chapter 94. CBOD5 influent monitoring is added to the permit at a frequency of 1/day (the same frequency of CBOD5 effluent monitoring). This parameter is included to meet the 85% removal requirement in the existing, and the renewed, permit. While the facility has already been monitoring influent CBOD5 to meet the fomented requirement, the parameter is added to the Part A limitations for simplicity. These are consistent with DEP SOP for New and Reissuance Sewage Individual NPDES Permit Applications.

Total tritium is a radioactive isotope that may be present in landfill leachate. The parameter is retained in the permit renewal as a "monitor only" parameter.

Oil and grease monitoring are added to the permit due to a potential to be present in the wastewater from the industrial sources listed in the permit application. In addition, oil and grease can be found in the Additional Requirements section of the Part A limitations of the current permit.

Anti-Backsliding

Total Copper limitations were retained in the permit renewal. The TDS was modified based on new information that became available.

	Development of Effluent Limitations								
Outfall No.	002			Design Flow (MGD)	0				
Latitude	40° 14' 4.00"			Longitude	-75° 37' 44.00"				
Wastewater	Description:	Stormwater							

This is a stormwater outfall. The same monitoring requirements as the current permit are retained in this permit renewal.

		Whole Effluent Toxicity (\	WET)	
For Outfall 001,	Acute 🛭 Chronic WE	T Testing was completed:		
Quarterly			cted.	
	s used for the tests was: d for analysis of the results	100%, 56%, 12%, 6%, and is: 12%.	I 3%. The Target Instre	eam Waste Concentration
Summary of Fou	r Most Recent Test Resu	<u>ults</u>		
TST Data Analysi (NOTE – In lieu o	_	low, the application manager	may attach the DEP WE	ET Analysis Spreadsheet).
	Ceriodaphnia R	Results (Pass/Fail)	Pimephales Re	esults (Pass/Fail)
Test Date	Survival	Reproduction	Survival	Growth
7/18/2017	Pass	Pass	Pass	Pass
10/6/2018	Pass	Pass	Pass	Pass
7/26/2019	Pass	Pass	Pass	Pass
7/17/2020	Pass	Pass	Pass	Pass
exhibited when the t value ("T-Test Res	calculated t value ("T-Test Re sult") is less than the critical t le potential for an excursion	ate data for the TIWC is not state data for the TIWC is not state suit") is greater than the critical state value. On above water quality standarined anytime there is at least	t value. A "failing" result is e ards based on the results	exhibited when the calculated so of these tests? (NOTE
\square YES \boxtimes NO				
Comments: None	Э			
Evaluation of Te	st Type, IWC and Dilutio	n Series for Renewed Perm	<u>nit</u>	
Δcute Partial Miv	Factor (PMFa): 0 054	Chronic Partial Mix Fac	etor (PMFc): 0 539	

Acute Partial Mix Factor (PMFa): 0.054

1. Determine IWC - Acute (IWCa):

 $(Q_d \times 1.547) / ((Q_{7-10} \times PMFa) + (Q_d \times 1.547))$

 $[(12.85 \text{ MGD} \times 1.547) / ((281 \text{ cfs} \times 0.054) + (12.85 \text{ MGD} \times 1.547))] \times 100 = 56.7\%$

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

If the discharge is to the tidal portion of the Delaware River, indicate how the type of test was determined:

Not Applicable

Type of Test for Permit Renewal: Chronic

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

TIWCa = $IWC_a / 0.3 = N/A\%$

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

$$(Q_d \times 1.547) / (Q_{7-10} \times PMFc) + (Q_d \times 1.547)$$

 $[(12.85 \text{ MGD} \times 1.547) / ((281 \text{ cfs} \times 0.539) + (12.85 \text{ MGD} \times 1.547))] \times 100 = 11.6\% = 12\%$

3. Determine Dilution Series

(NOTE – check Attachment C of WET SOP for dilution series based on TIWCa or TIWCc, whichever applies). Dilution Series = 100%, 56%, 12%, 6%, and 3%.

WET Limits

Has reasonable potential been determined? ☐ YES ☒ NO

Will WET limits be established in the permit? ☐ YES ☒ NO

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

Not Applicable

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

Not Applicable

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: Phase 1 through Permit Expiration Date.

			Effluent L	imitations			Monitoring Re	quirements
Parameter	Mass Units	(lbs/day) (1)		Concentrat	ions (mg/L)		Minimum (2)	Required
Faranietei	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Inst Min	Report	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5 Nov 1 - Apr 30	2679	4287	XXX	25	40	50	1/day	24-Hr Composite
CBOD5 May 1 - Oct 31	2143	3215	XXX	20	30	40	1/day	24-Hr Composite
TSS	3215	4823	XXX	30	45	60	1/day	24-Hr Composite
Total Dissolved Solids	200290	240000 Daily Max	XXX	Report	3000.0 Daily Max	XXX	1/week	24-Hr Composite
Oil and Grease	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/day	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/month	Grab
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Ammonia Nov 1 - Apr 30	1714	XXX	XXX	16.0	XXX	32	1/day	24-Hr Composite
Ammonia May 1 - Oct 31	857	XXX	XXX	8.0	XXX	16	1/day	24-Hr Composite

Outfall 001, Continued (from Phase 1 through Permit Expiration Date)

			Effluent L	imitations			Monitoring Requirements	
Parameter	Mass Units	Mass Units (lbs/day) (1)		Concentrat	ions (mg/L)		Minimum ⁽²⁾	Required
Faiametei	Average	Weekly		Average	Weekly	Instant.	Measurement	Sample
	Monthly	Average	Minimum	Monthly	Average	Maximum	Frequency	Type
								24-Hr
Total Phosphorus	Report	XXX	XXX	Report	XXX	XXX	1/week	Composite
								24-Hr
Total Copper	XXX	XXX	XXX	0.040	XXX	0.074	1/month	Composite
								_
Free Cyanide	XXX	XXX	XXX	0.0249	XXX	0.0389	1/month	Grab
								24-Hr
Total Selenium	XXX	XXX	XXX	0.0315	XXX	0.049	1/week	Composite
				Report				24-Hr
Sulfate	XXX	XXX	XXX	Daily Max	XXX	XXX	1/month	Composite
								24-Hr
Total Zinc	XXX	XXX	XXX	0.325	XXX	0.507	1/week	Composite
				Report				24-Hr
Chloride	XXX	XXX	XXX	Daily Max	XXX	XXX	1/month	Composite
				Report				24-Hr
Bromide	XXX	XXX	XXX	Daily Max	XXX	XXX	1/month	Composite
Chlorodibromo mothono	xxx	XXX	XXX	0.0231	XXX	0.036	1/week	Grab
Chlorodibromo-methane	^^^	^^^		0.0231		0.036	i/week	Giab

Compliance Sampling Location: Outfall 001

Other Comments: There is a 3-year compliance schedule on Chlorodibromomethane.

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 Phase 1.

		Monitoring Requirements						
Parameter	Mass Units	(lbs/day) (1)		Concentrat	ions (mg/L)		Minimum (2)	Required
Farameter	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Inst Min	Report	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5 Nov 1 - Apr 30	2679	4287	XXX	25	40	50	1/day	24-Hr Composite
CBOD5 May 1 - Oct 31	2143	3215	XXX	20	30	40	1/day	24-Hr Composite
TSS	3215	4823	XXX	30	45	60	1/day	24-Hr Composite
Total Dissolved Solids	200290	240000 Daily Max	XXX	Report	3000.0 Daily Max	XXX	1/week	24-Hr Composite
Oil and Grease	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/day	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/month	Grab
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Ammonia Nov 1 - Apr 30	1714	XXX	XXX	16.0	XXX	32	1/day	24-Hr Composite
Ammonia May 1 - Oct 31	857	XXX	XXX	8.0	XXX	16	1/day	24-Hr Composite

Outfall 001, Continued (from Permit Effective Date through Phase 1)

			Effluent L	imitations			Monitoring Requirements	
Parameter	Mass Units	Mass Units (lbs/day) (1)		Concentrat	ions (mg/L)		Minimum ⁽²⁾	Required
Farameter	Average	Weekly		Average	Weekly	Instant.	Measurement	Sample
	Monthly	Average	Minimum	Monthly	Average	Maximum	Frequency	Type
								24-Hr
Total Phosphorus	Report	XXX	XXX	Report	XXX	XXX	1/week	Composite
								24-Hr
Total Copper	XXX	XXX	XXX	0.040	XXX	0.074	1/month	Composite
Free Cyanide	xxx	XXX	XXX	0.0249	XXX	0.0389	1/month	Grab
1 lee Cyanide				0.0249		0.0309	1/111011111	24-Hr
Total Selenium	XXX	XXX	XXX	0.0315	XXX	0.049	1/week	Composite
				Report				24-Hr
Sulfate	XXX	XXX	XXX	Daily Max	XXX	XXX	1/month	Composite
								24-Hr
Total Zinc	XXX	XXX	XXX	0.325	XXX	0.507	1/week	Composite
				Report				24-Hr
Chloride	XXX	XXX	XXX	Daily Max	XXX	XXX	1/month	Composite
				Report				24-Hr
Bromide	XXX	XXX	XXX	Daily Max	XXX	XXX	1/month	Composite
Chlorodibromo-methane	XXX	XXX	XXX	Report	XXX	Report	1/week	Grab

Compliance Sampling Location: 001

Other Comments: There is a 3-year compliance schedule on Chlorodibromomethane.

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 L	imitations			Monitoring Requirements	
Parameter	Mass Units	(lbs/day) ⁽¹⁾		Concentrat	ions (mg/L)		Minimum ⁽²⁾	Required
r ai ailletei	Average Monthly	Average Weekly	Minimum	Daily Maximum	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
CBOD5				Report				24-Hr
Raw Sewage Influent	XXX	XXX	XXX	Avg Mo	XXX	XXX	1/day	Composite
BOD5				Report				24-Hr
Raw Sewage Influent	Report	XXX	XXX	Avg Mo	XXX	XXX	1/week	Composite
TSS				Report				24-Hr
Raw Sewage Influent	XXX	XXX	XXX	Avg Mo	XXX	XXX	1/day	Composite
I								24-Hr
Total Aluminum	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	Composite
				Report				24-Hr
Total Arsenic	XXX	XXX	XXX	Avg Qrtly	Report	XXX	1/quarter	Composite
				Report				24-Hr
Total Boron	XXX	XXX	XXX	Avg Qrtly	Report	XXX	1/quarter	Composite
				Report				24-Hr
Total Manganese	XXX	XXX	XXX	Avg Qrtly	Report	XXX	1/quarter	Composite
Total Tritium (pCi/L)	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	Calculation
Bromoform	XXX	XXX	XXX	Report Avg Qrtly	XXX	Report	1/quarter	Grab
								24-Hr
PCBs (Dry Weather) (pg/L)	XXX	XXX	XXX	Report	XXX	XXX	1/year	Composite
/ / / /				'			,	24-Hr
PCBs (Wet Weather) (pg/L)	XXX	XXX	XXX	Report	XXX	XXX	1/year	Composite
Chronic WET - Ceriodaphnia				'			,	24-Hr
Survival (TUc)	XXX	XXX	XXX	Report	XXX	XXX	See Permit	Composite
Chronic WET - Ceriodaphnia				,				24-Hr
Reproduction (TUc)	XXX	XXX	XXX	Report	XXX	XXX	See Permit	Composite
Chronic WET - Pimephales				·				24-Hr
Survival (TUc)	XXX	XXX	XXX	Report	XXX	XXX	See Permit	Composite

Outfall 001, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter		Effluent Limitations						
	Mass Units (lbs/day) (1)			Concentrat	Minimum ⁽²⁾	Required		
	Average	Average		Daily	Daily	Instant.	Measurement	Sample
	Monthly	Weekly	Minimum	Maximum	Maximum	Maximum	Frequency	Type
Chronic WET - Pimephales								24-Hr
Growth (TUc)	XXX	XXX	XXX	Report	XXX	XXX	See Permit	Composite

Compliance Sampling Location: 001

Other Comments: None

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 002, Effective Period: Permit Effective Date through Permit Expiration Date.

			Effluent L	imitations			Monitoring Requirements	
Parameter	Mass Units	(lbs/day) ⁽¹⁾		Concentrat	Minimum ⁽²⁾	Required		
raianietei	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
TKN	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Dissolved Iron	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Compliance Sampling Location: 002

Other Comments: Stormwater

Attachment A TMS Spreadsheet



Toxics Management Spreadsheet Version 1.8, March 2001

Discharge Information

Facility: Pottstown 8TP NPDES Permit I	No.: PA0028788 Outfall No.: 001
Evaluation Type: Major Sewage / Industrial Waste Wastewater De:	scription: Sewage

Discharge Characteristics										
Design Flow	Design Flow Hardness (mg/l)*	pH (8U)*	F	artial Mix Fa	otors (PMF)	6	Complete Mi:	(min)		
(MGD)*	naraness (mgr)	bu (on).	AFC	CFC	THH	CRL	Q ₇₋₁₀	Q _h		
12.85	419	7								

					0.8 had	blank	0.5 F le	iff blank		If left blen	k	f if left blank	
	Discharge Pollutant	Units	Ma	x Discharge Conc	Trib Cone	Stream Conc	Daily CV	Hourty CV	Strea m CV	Fate Coeff	FO8	Criteri a Mod	
	Total Dissolved Solids (PWS)	mg/L		2730									
\overline{z}	Chloride (PWS)	mg/L		1160									
Group	Bromide	mg/L		14									
8	Sulfate (PWS)	mg/L		80.4									
	Fluoride (PWS)	mg/L											
	Total Aluminum	pg/L		180									
	Total Antimony	pgt		2									
	Total Americ	pg/L		11									
	Total Barium	pg/L		404									
	Total Beryllium	µg/L	40	0.3									
	Total Boron	pg/L		1000									
	Total Cadmium	pg/L	16	0.2									
	Total Chromium (III)	pg/L		2.1									
	Hexavalent Chromium	PQ/L	-	0.25									
	Total Cobalt	h0/L		2									
	Total Copper	pg/L		12									
64	Free Cyanide	pg/L		17									
dno	Total Cyanide	PQ/L		19									
ē	Dissolved Iron	µg/L		180									
	Total Iron	pg/L		680									
	Total Lead	µg/L	16	1									
	Total Manganese	pg/L		732									
	Total Mercury	Pg/L	40	0.2									
	Total Nickel	pg/L		20.7									
	Total Phenois (Phenoics) (PWS)	pg/L		5									
	Total Selenium	PQ/L		30									
	Total Silver	h0/L	40	0.3									
	Total Thallium	pg/L	4	0.4									
	Total Zinc	pg/L		175									
	Total Molybdenum	pg/L		4									
	Acrolein	pg/L	4	2									
	Acrylamide	pg/L	40										
	Acrylonitrile	pg/L	46	2									
	Berzene	PQ/L	4	0.5									
	Bromoform	PQ/L		68.8									

		_								
1	Carbon Tetrachioride	µg/L	٠	0.5						
1	Chlorobenzene	pg/L	<	0.5						
1	Chlorodibromomethene	µg/L	$ldsymbol{ldsymbol{eta}}$	22.2						
ı	Chloroethane	µg/L	<	0.5						
1	2-Chloroethyl Vinyl Ether	µg/L	<	5						
1	Chloroform	µg/L		0.9						
1	Dichlorobromomethane	µg/∟		3.2						
ı	1,1-Dichloroethane	µg/L	A	0.5						
	1,2-Dichloroethane	µg/L	٨	0.5						
9	1,1-Dichloroethylene	µg/L	<	0.5						
Group	1,2-Dichloropropane	pgt.	<	0.5						
O	1,3-Dichloropropylene	µg/L	<	0.5						
1	1,4-Dioxane	µg/L	~	5						
1	Ethylbenzene	µg/L	<	0.5						
ı	Methyl Bromide	µg/L	<	0.5						
ı	Methyl Chloride	µg/L	<	0.5						
1	Methylene Chloride	µg/L	<	0.5					-	
1	1,1,2,2-Tetrachioroethane	µg/L	4	0.5						
1	Tetrachioroethylene		4	0.5						
1	Toluene	µg/L	~	0.5						
1		µg/L		0.5						
1	1,2-trans-Dichloroethylene	µg/L	<							
1	1,1,1-Trichloroethane	pg/L	<	0.5						
1	1,1,2-Trichloroethane	µg/L	<	0.5						
1	Trichioroethylene	µg/L	<	0.5						
\vdash	Vinyl Chloride	µg/L	<	0.5						
1	2-Chlorophenol	µg/L	<	10						
ı	2,4-Dichlorophenol	µg/L	~	10						
1	2,4-Dimethylphenol	µg/L	٧	10						
I_	4,6-Dinitro-o-Cresol	µg/L	٧	10						
4	2,4-Dinitrophenol	µg/L	٧	10						
Group	2-Nitrophenol	µg/L	*	10						
ð	4-Nitrophenol	µg/L	A	10						
	p-Chloro-m-Cresol	µg/L	<	10						
ı	Pertachiorophenol	pg/L	<	10						
ı	Phenol	µg/L	<	10						
ı	2,4,6-Trichlorophenol	µg/L	<	10						
\vdash	Acenaphthene	µg/L	<	25						
1	Acenaphthylene	µg/L	<	2.5						
ı	Arthracene	ug/L	<	2.5				_	-	
ı	Berzidine	µg/L	<	50						
1	Berzo(a)Anthracene		<	2.5					-	
1	Berzo(a)Pyrene	µg/L µg/L	4	25						
1	3,4-Benzofuoranthene	µg/L	4	25						
1			~	25						
1	Berzo(ghi)Perylene	µg/L		25						
1	Berzo(k)Fluoranthene	µg/L								
1	Bis(2-Chloroethoxy)Methane	µg/L	<	5						
1	Bis(2-Chloroethyl)Ether	µg/L	<	5						
1	Bis(2-Chloroisopropyl)Ether	µg/L	<	5						
1	Bis(2-Ethylhexyl)Phthalate	µg/L	<	5						
1	4-Bromophenyl Phenyl Ether	µg/L	<	5						
1	Butyl Benzyl Phthalate	µg/L	<	5						
1	2-Chloronaphthalene	µg/L	*	5						
1	4-Chlorophenyl Phenyl Ether	µg/L	٧	5						
1	Chrysene	µg/L	٧	2.5						
1	Diberzo(a,h)Anthrancene	µg/L.	•	2.5						
1	1,2-Dichlorobenzene	pg/L	<	0.5						
1	1,3-Dichlorobenzene	µg/L	<	0.5						
		µg/L		0.7						
, no	1.4-Dichlorobenzene									
0.	1,4-Dichlorobenzene 3.3-Dichlorobenzidine		100	- 5						
0.	3,3-Dichlorobenzidine	µg/L	4	5						
	3,3-Dichlorobenzidine Diethyl Phthalate	µgt. µgt.	<	5						
ging	3,3-Dichlorobenzidine Diethyl Phthelete Dimethyl Phthelete	har har	*	5						
ging	3,3-Dichlorobenzidine Diethyl Phthalate	µgt. µgt.	<	5						

			_	_					
H	2,6-Dinitrotoluene	µg/L	<	5					
H	Di-n-Octyl Phthelate	µg/L	*	5					
l	1,2-Diphenylhydrazine	µg/L	<	5					
l	Fluoranthene	µg/L	*	2.5					
l	Fluorene	µg/L	*	2.5					
l	Hexachlorobergene	µg/L	<	5					
l	Hexachiorobutadiene	µg/L	<	0.5					
l	Hexachiorocyclopentadiene	µg/L	•	5					
l			<	5					
	Hexachioroethane	µg/L	_			_			
l	Indeno(1,2,3-cd)Pyrene	µg/L	<	2.5					
ı	Isophorone	µg/L	•	5					
ı	Naphthalene	µg/L	•	0.5					
l	Nitrobenzene	µg/L	<	5					
	n-Nitrosodimethylamine	µg/L	*	5					
	n-Nitrosodi-n-Propylamine	µg/L	<	5					
	n-Nitrosodiphenylamine	µg/L	<	5					
	Phenanthrene	µg/L	<	25					
	Pyrene	µg/L	<	2.5		_			
	-		~	0.5					
\vdash	1,2,4-Trichlorobenzene	µg/L	-	0.5					
	Aldrin	µg/L	<						
	elphe-BHC	pg/L	<						
	beta-BHC	µg/L	<						
ı	gamma-BHC	µg/L	<						
	delta BHC	µg/L	<						
	Chlordane	µg/L	<						
l	4.4-DDT	µg/L	<						
	4.4-DDE	µg/L	<			_			
	4,4-000		<			_			
		µg/L	-						
l	Dieldrin	µg/L	<						
ı	alpha-Endosulfan	µg/L	•						
	beta-Endosulfan	µg/L	<						
9	Endosulfan Sulfate	µg/L	<						
Group	Endrin	µg/L	*						
8	Endrin Aldehyde	µg/L	<						
_	Heptachlor	µg/L	<						
l	Heptachlor Epoxide	µg/L	<						
ı	PCB-1016	µg/L	<			_			
l	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		_			_			
l	PCB-1221	µg/L	<						
l	PCB-1232	µg/L	<						
ı	PCB-1242	µg/L	•						
	PCB-1248	µg/L	•						
	PCB-1254	µg/L	٧						
	PCB-1260	µg/L	<						
	PCBs, Total	µg/L	<						
	Toxaphene	µg/L	<						
	2,3,7,8-TCDD	ng/L	<						
\vdash	Gross Alpha	pCi/L							
<u>-</u>	Total Beta	pCi/L	<						
dno	Radium 226/228	pCi/L	<						
2	Total Strontium	µg/L	•						
ø	Total Uranium	µg/L	<						
L	Osmotic Pressure	mOs/kg							
			_						

Stream / Surface Water Information Pottstown STP, NPDES Permit No. PA0026786, Outfall 001 actions Discharge Stream Receiving Surface Water Name: No. Reaches to Model: Statewide Criteria Great Lakes Criteria PWS Withdrawal Apply Fish Elevation ORSANCO Criteria Location Stream Code DA (mf²)* Slope (ft/ft Criteria* (MGD) Yes Point of Discharge End of Reach 1 000833 51.9 115 1150.47 Yes Q7-10 LEY W/D Ratio Depth (ft) Width (ft) Velocit y (fps) Time Location RMI Hardness pH Hardness pH Hardness pH (cfs/mi²)* Stream Tributary Point of Discharge 52.45 End of Reach 1 51.9 LFY Flow (cfs) W/D Ratio Tributary Stream Analysis Width (ft) Depth (ft) Velocit y (fps) RMI Time Location (cfs/ml²) Stream Tributary Hardness pH Hardness pH Hardness pH Point of Discharge 52.45 End of Reach 1 51.9 **Model Results** Pottstown STP, NPDES Permit No. PA0026786, Outfall 001 Results RETURN TO INPUTS SAVE AS PDF PRINT All Olinputs ® Results O Limits Hydrodynamics ✓ Wasteload Allocations ☑ AFC CCT (min): 15 PMF: 0.054 Analysis Hardness (mg/l): 280.61 Analysis pH: 7.00 WQC WQ Obj Trib Cond Pollutants WLA (µg/L) Comments (µg/L) (µg/L) Total Dissolved Solids (PWS) Chloride (PWS) ō NIA NIA NIA Sulfate (PWS) N/A N/A Total Aluminum 0 0 750 750 1,325 1,100 1,100 1,943 Total Antimony 601 Chem Translator of 1 applied 21,000 21,000 0 8,100 5.485 Total Boron 0 8,100 14,307 Chem Translator of 0.901 applied Total Cadmiu 6.09 0 Total Chromium (III) 0 1326,432 4,198 7,414 Chem Translator of 0.316 applied Chem Translator of 0.982 applied 0 Total Cobalt 95.0 158 35.528 37.0 65.4 Chem Translator of 0.96 applied Total Copper 0 0 22.0 38.9 N/A 0 N/A Dissolved Iron N/A Total Iron 0 NIA N/A NIA Total Lead Total Mangane 194.528 N/A 304 N/A 536 N/A Chem Translator of 0.641 applied angane 1,400 Chem Translator of 0.85 applied 1.65 2.91 Total Mercury Total Nicke 0 1120,869 1,123 1,984 enois (Phenolics) (PW8) NIA N/A N/A Chem Translator of 0.922 applied Chem Translator of 0.85 applied N/A 18.973 Total Selenium Total Thallum 0 0 65 65.0 115 280.884 Chem Translator of 0.978 applied Total Zinc 287 507 0 0 3.0 5.3

Acrylonitrile Benzene	0	0		0	650 640	650 640	1,148	
Bromoform	0	0		Ö	1,800	1,800	3,179	
Carbon Tetrachloride	Ö	0		ŏ	2,800	2,800	4,946	
Chlorobenzene	0	0		ō	1,200	1,200	2,120	
Chlorodibromomethane	0	0		ō	N/A	N/A	N/A	
2-Chloroethyl Vlnyl Ether	ō	ō		ō	18,000	18,000	31,793	
Chloroform	0	0		0	1,900	1,900	3,356	
Dichlorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0		0	15,000	15,000	26,494	
1,1-Dichloroethylene	0	0		0	7,500	7,500	13,247	
1,2-Dichloropropane	0	0		0	11,000	11,000	19,429	
1,3-Dichloropropylene	0	0		0	310	310	548	
Ethylbenzene	0	0		0	2,900	2,900	5,122	
Methyl Bromide	0	0		0	550	550	971	
Methyl Chloride	0	0		0	28.000	28,000	49,456	
Methylene Chloride	0	0		0	12,000	12,000	21,195	
1,1,2,2-Tetrachloroethane	0	0		0	1,000	1,000	1,766	
Tetrachioroethylene	0	0		0	700	700	1,236	
Toluene	0	0		0	1,700	1,700	3,003	
1,2-trans-Dichloroethylene	0	0		0	6,800	6,800	12,011	
1,1,1-Trichloroethane	0	0		0	3,000	3,000	5,299	
1,1,2-Trichloroethane	0	0		0	3,400	3,400	6,005	
Trichioroethylene	0	0		0	2,300	2,300	4,062	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
2-Chlorophenol	0	0		0	560	560	989	
2,4-Dichlorophenol	0	0		0	1,700	1,700	3,003	
2,4-Dimethylphenol	0	0		0	660	660	1,166	
4,6-Dinitro-o-Cresol	0	0		0	80	80.0	141	
2,4-Dinitrophenol	0	0		0	660	660	1,166	
2-Ntrophenol	0	0		0	8,000	8,000	14,130	
4-Nitrophenol	0	0		0	2,300	2,300	4,062	
p-Chioro-m-Cresol	0	0		0	160	160	283	
Pentachiorophenol	0	0		0	8.723	8.72	15.4	
Phenol	0	0		0	N/A	N/A	N/A	
2,4,6-Trichiorophenol	0	0		0	460	460	812	
Acenaphthene	0	0		0	83	83.0	147	
Anthracene	0	0		0	NA	N/A	N/A	
Benzidine	0	0		0	300	300	530	
Benzo(a)Anthracene	0	0		0	0.5	0.5	0.88	
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	52,989	
Bis(2-Chlorolsopropyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0		0	4,500	4,500	7,948	
4-Bromophenyl Phenyl Ether	0	0		0	270	270	477	
Butyl Benzyl Phthalate	0	0		0	140	140	247	
2-Chioronaphthalene	0	0		0	NA	N/A	N/A	
2-Chioronaphihalene Chrysene	0	0		0	N/A N/A	N/A N/A	N/A N/A	
Chrysene								
	0	0		0	N/A	N/A	N/A	
Chrysene Dibenzo(a,h)Anthrancene	0	0		0	N/A N/A	N/A N/A	N/A N/A	
Chrysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene	0	0		0	N/A N/A 820	N/A N/A 820	N/A N/A 1,448 618	
Chrysene Dibenzo(s,h)Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene	0 0 0	0		0	N/A N/A 820 350	N/A N/A 820 350	N/A N/A 1,448	
Chrysene Dibenzola, n/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Oichlorobenzidne Diethyl Phthalate	0 0 0	0 0 0		0	N/A N/A 820 350 730	N/A N/A 820 350 730	N/A N/A 1,448 618 1,289	
Chrysene Dibenzo(s,h)Anthrancene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 3,3-Dichiorobenzidne	0 0 0 0	0 0 0 0 0 0		0	N/A N/A 820 350 730 N/A	N/A N/A 820 350 730 N/A	N/A N/A 1,448 618 1,289 N/A	
Chrysene Dibenzola, Ji/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Oichlorobenzidne Diethyl Phthalate	0 0 0 0 0	0 0 0 0 0 0		0	NIA NIA 820 350 730 NIA 4,000	N/A N/A 820 350 730 N/A 4,000	N/A N/A 1,448 618 1,289 N/A 7,065	
Chrysene Dibenzo(a, n)Anthrancene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 3,3-Dichiorobenzene Diethyl Phthalate Dimethyl Phthalate	0 0 0 0 0	0 0 0 0 0 0 0 0		0	NIA NIA 820 350 730 NIA 4,000 2,500	N/A N/A 820 350 730 N/A 4,000 2,500	N/A N/A 1,448 618 1,289 N/A 7,065 4,416	
Chysene Dibenzola, h/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzidine Diethyl Phthalate Direthyl Phthalate 2,4-Dinitrotoluene 2,5-Dinitrotoluene	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 0 0 0 0 0 0 0 0		0	N/A N/A 820 350 730 N/A 4,000 2,500 110 1,600 990	N/A N/A 820 350 730 N/A 4,000 2,500 110 1,600 990	N/A N/A 1,448 618 1,289 N/A 7,065 4,416 1,749	
Chrysene Dibenzola, /i/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene Diethyl Phthalate Dimetryl Phthalate Di-n-Butyl Phthalate 2,4-Dintrobluene	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 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 820 350 730 N/A 4,000 2,500 110 1,600 990 15	N/A N/A 820 350 730 N/A 4,000 2,500 110 1,600 990 15.0	N/A N/A 1,448 618 1,289 N/A 7,065 4,416 1,749 2,826 1,749 26.5	
Chrysene Dibenzola, /i/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene Diethyl Phthalate Dimetryl Phthalate Din-Butyl Phthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene 1,2-Diphenylhydrazine Fluoranthene	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 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 820 350 730 N/A 4,000 2,500 110 1,600 990 15	N/A N/A 820 350 730 N/A 4,000 2,500 110 1,600 15.0 200	N/A N/A 1,448 618 1,289 N/A 7,065 4,416 194 2,826 1,749 26.5 353	
Chysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene Diethyl Phthalate Dimethyl Phthalate Din-Butyl Phthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene 1,2-Diphenylhydrazine	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 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 820 350 730 N/A 4,000 2,500 110 1,600 990 15	N/A N/A 820 350 730 N/A 4,000 2,500 110 1,600 990 15.0	N/A N/A 1,448 618 1,289 N/A 7,065 4,416 1,749 2,826 1,749 26.5	
Chysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene Diethyl Phthalate Dimethyl Phthalate Dimethyl Phthalate Dim-Butyl Phthalate 2,4-Dinitrotoluene 1,2-Diphenylhydrazine Fluoranthene Fluorene Hexachlorobenzene	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 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 820 350 730 N/A 4,000 2,500 110 1,600 990 15	N/A N/A 820 350 730 N/A 4,000 2,500 110 1,600 990 15.0 200 N/A N/A	N/A N/A 1,448 618 1,289 N/A 7,065 4,416 194 2,826 1,749 26.5 353	
Chrysene Dibenzola, /i/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene Diethyl Phthalate Dimetryl Phthalate Dimetryl Phthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene 1,2-Diptenylhydrazine Fluoranthene Fluoranthene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene	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 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	NIA NIA 820 350 730 NIA 4,000 2,500 110 1,600 990 15 200 NIA NIA	N/A N/A 820 350 730 N/A 4,000 2,500 110 1,600 990 15.0 200 N/A 10.0	N/A N/A 1,448 618 1,289 N/A 7,065 4,416 194 2,826 1,749 26.5 353 N/A 17.7	
Chysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene Diethyl Phthalate Dimethyl Phthalate Dimethyl Phthalate Dim-Butyl Phthalate 2,4-Dinitrotoluene 1,2-Diphenylhydrazine Fluoranthene Fluorene Hexachlorobenzene	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 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	NIA NIA 820 350 730 NIA 4,000 2,500 110 1,600 990 15 200 NIA NIA	NIA NIA 820 350 730 NIA 4,000 110 1,600 990 115.0 200 NIA NIA NIA 10.0 5.0	NVA NVA 1,448 618 1,289 NVA 7,065 4,416 194 2,826 1,749 26.5 363 NVA NVA NVA 8,83	
Chysene Dibenzo(a,h)Anthrancene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 3,3-Dichiorobenzene 3,3-Dichiorobenzene Diethyl Phthalate Dimethyl Phthalate Dimethyl Phthalate Dimethyl Phthalate 2,6-Dinitrotoliuene 1,2-Diphenylhydrazine Fluoranthene Fluoranthene Fluorene Hexachiorobenzene Hexachiorobutadiene Hexachiorobctanene Hexachiorobctanene Hexachiorobctanene	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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIA NIA 820 350 730 NIA 4,000 2,500 110 1,600 990 15 200 NIA NIA NIA 10 5	NIA NIA 820 350 730 NIA 4,000 2,500 110 1,600 990 15.0 200 NIA NIA NIA NIA 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	NIA NIA 1,448 618 1,289 NIA 7,065 4,416 194 2,825 1,749 26.5 353 NIA NIA NIA NIA 19.8 19.8 19.8 19.8 19.8 19.8 19.8 19.8	
Chysene Dibenzo(a,h/Anthrancene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 3,3-Dichiorobenzene 3,3-Dichiorobenzene Diethyl Phthalate Dimetryl Phthalate Dimetryl Phthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene 1,2-Diphenylhydrazine Fluoranthene Fluoranthene Hexachiorobenzene Hexachiorobutadiene Hexachiorobutadiene Hexachiorobutadiene Indeno(1,2,3-cd/Pyrene	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 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	NIA NIA 820 350 730 730 1,600 990 15 2,000 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	NIA NIA 820 350 730 NIA 4,000 2,500 990 115,0 200 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	NIA NIA 1,448 618 1,289 NIA 7,065 4,415 2,826 1,749 26,5 353 NIA NIA NIA 17.7 8,83 106 NIA	
Chysene Dibenzola, h/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene Diethyl Phthalate Direthyl Phthalate Direthyl Phthalate 2,4-Dinitrotoluene 1,2-Diphenylhydrazine Fluoranthene Fluoranthene Hexachlorobenzene Hexachlorobenzene Hexachlorocyclopertadiene Hexachlorocyclopertadiene Hexachlorocyclopertadiene Indeno(1,2,3-cd)/Pyrene Isophorone	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 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	NIA NIA 820 350 350 730 NIA 4,000 2,500 110 990 15 200 NIA NIA NIA 10,000	NIA NIA 820 350 730 NIA 4,000 2,500 110 990 15.0 00 NIA NIA NIA 10,00 5.0	NIA NIA 1,448 618 1,289 NIA 7,065 4,416 134 2,825 1,749 26.5 363 NIA NIA 17,763 NIA 17,763	
Chysene Dibenzo(a,h)Anthrancene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 3,3-Dichiorobenzene 3,3-Dichiorobenzene Diethyl Phthalate Dimethyl Phthalate Dimethyl Phthalate 2,6-Dinitrotoliuene 2,6-Dinitrotoliuene 1,2-Diphenylhydrazine Fluoranthene Fluoranthene Hexachiorobenzene Hexachiorobenzene Hexachiorobenzene Hexachiorobenene Indeno(1,2,3-di)Pyrene Isophrone Naphthalene	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 0 0 0 0 0 0 0 0			NIA NIA 820 350 730 730 4,000 2,500 110 1,600 990 15 200 NIA 10 5 60 NIA	NI/A NI/A 820 350 730 NI/A 4,000 2,500 110 11,600 990 15.0 200 NI/A 10.0 5.0 NI/A 10.0 5.0 NI/A 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.	NIA NIA 1,448 618 1,289 NIA 7,065 4,415 194 2,835 1,749 2,835 1,749 353 NIA 17,7 8,83 106 NIA 17,7 8,83 106 NIA 17,7 8,83 106 106 106 106 106 106 106 106 106 106	
Chysene Dibenzola, h/Anthrancene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 3,3-Dichiorobenzene 3,3-Dichiorobenzidine Diethy/ Phthalate Directive Phthalate Directive Phthalate 2,4-Dinitrotoluene 1,2-Dinitrotoluene 1,2-Diphenylhydrazine Fluoranthene Fluoranthene Hexachiorobenzene Hexachiorobenzene Hexachiorocyclopentadiene Hexachiorocyclopentadiene Indeno(1,2,3-od)*Pyrene Isophorone Naphthalene Nitrobenzene	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 0 0 0 0 0 0 0 0			NIA NIA 820 350 730 730 110 1,500 950 15 200 NIA NIA NIA 10,000 140 4,000	NIA NIA 820 350 730 NIA 4,000 110 1,500 990 15.0 200 NIA NIA NIA 10.0 5.0 60.0 14,000 14,000	NIA NIA 1,448 618 1,289 1,289 1,289 1,249 1,249 2,6,5 363 1,749 26,5 363 1,749 26,5 363 1,749 2,8,3 100 1,7,663 1,7,663	
Chysene Dibenzola, h/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene Diethyl Phthalate Directly Phthalate Directly Phthalate Directly Phthalate 2,4-Dinitrotoluene 1,2-Diphenylhydrazine Fluoranthene Fluoranthene Fluoranthene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Indeno(1,2,3-cd)/Pyrene Isophorone Naghthalene Nitrobenzene n-Nitrobenzene n-Nitrobenzene	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 0 0 0 0 0 0 0 0			NIA NIA 820 350 730 NIA 4,000 2,500 110 1,500 990 15 200 NIA NIA NIA 10 5 60 NIA 4,000 140 4,000	NI/A NI/A 820 350 730 NI/A 4,000 2,500 110 1,500 990 15.0 200 NI/A NI/A 10.0 5.0 60.0 NI/A 10,000 140 4,000	NIA NIA 1,448 618 1,289 NIA 7,065 4,416 134 2,826 1,749 26.5 353 NIA 17,87 NIA 17,87 105 NIA 17,87 303 105 NIA 7,063 363 37 105 NIA 17,663 347 7,063 347 7,063 300 300 300 300 300 300 300 300 300	
Chysene Dibenzo(a,h/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene biethyl Phthalate Dimethyl Phthalate Dimethyl Phthalate Dimethyl Phthalate 2,6-Dinitrotoluene 1,2-Diphenylhydrazine Fluoranthene Fluoranthene Fluorene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobethane Indeno(1,2,3-og)Pyrene Isophorone Naphthalene Nitrobenzene n-Nitrosodimethylamine n-Nitrosodimethylamine n-Nitrosodimethylamine	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				NIA NIA 820 350 730 730 4,000 2,500 110 11,600 990 15 200 NIA 10 5 60 NIA 10,000 11,00	NI/A NI/A 820 350 730 NI/A 4,000 2,500 110 11,600 990 15,0 200 NI/A 10,0 5,0 NI/A 10,0 NI/A 10,0 NI/A 10,0 NI/A 10,0 NI/A 10,0 NI/A 10,0 NI/A NI/A NI/A NI/A NI/A NI/A NI/A NI/A	NIA NIA 1,448 618 1,289 NIA 7,065 4,416 194 2,835 1,749 2,835 1,745 353 NIA 17,7 8,83 106 NIA 17,667 7,065 30,027 NIA	
Chysene Dibenzola, h/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 1,2-Dinthrobenzene 1,2-Dinthroboluene 1,2-Dinthroboluene 1,2-Dinthroboluene 1,2-Dinthroboluene 1,2-Dinthroboluene 1,2-Dinthroboluene 1,2-Dinthroboluene Hexachlorobenzene Naphthalene Nitrosodimetrylamine n-Nitrosodimetrylamine n-Nitrosodimetrylamine n-Nitrosodimetrylamine	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 0 0 0 0 0 0 0 0			NIA NIA 820 350 730 110 1,500 950 15 200 15 200 110 1,500 950 15 200 NIA NIA NIA 10,000 14,000 14,000 17,000 NIA 300	NIA NIA 820 350 730 NIA 4,000 2,500 110 1,500 990 15.0 200 NIA NIA NIA 10,000 14,000 14,000 17,000 17,000 NIA 300	NIA NIA 1,448 618 1,289 NIA 7,065 4,415 194 2,825 353 NIA NIA NIA 17,765 363 247 7,065 30,027 NIA 530	
Chysene Dibenzola, h/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene Diethyl Phthalate Dimetryl Phthalate Dimetryl Phthalate 2,4-Dinitrotoluene 1,2-Diphenylhydrazine Fluoranthene Fluoranthene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Nexachlorobenzene Hexachlorobenzene Nexachlorobenzene Hexachlorobenzene Nexachlorobenzene Nexachlorobenzene Nexachlorobenzene Naphthalene Nitrosodinetrylamine n-Nitrosodinetrylamine n-Nitrosodinetrylamine Phemanthrene	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				NIA NIA 820 350 730 110 1,600 915 200 NIA NIA NIA 10 5 60 NIA 10,000 140 4,000 117,000 140 4,000 117,000 NIA 300 5	NI/A NI/A 820 350 730 NI/A 4,000 2,500 110 1,500 990 15.0 200 NI/A NI/A 10.0 60.0 NI/A 140 4,000 140 4,000 140 4,000 15.0 15.0 15.0 15.0 16.0 17.0 16.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17	NIA NIA 1,448 618 1,289 NIA 7,065 4,416 134 2,825 353 NIA NIA 17,79 105 NIA 17,63 247 7,065 30,027 NIA 530,027 NIA 530,027 NIA	
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Chrysene Dibenzola, h/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 0.ethyl Phthalate Di-n-Butyl Phthalate 2,4-Dinitroboluene 1,2-Diphenylhydrazine Fluorene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Naphthalene Naphthalene Naphthalene Naphthalene Nitrosodimethylamine n-Nitrosodimethylamine n-Nitrosodimethylamine Phenanthrene Pyrene 1,2,4-Trichlorobenzene Z CFC CC Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sutfate (PWS) Total Aluminum Total Antimony Total Antimony Total Assenic Total Bartum	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 0 0 0 0 0 0	Trib Conc	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIA NIA NIA 820 350 730 NIA 4,000 2,500 110 1,500 990 15 200 NIA NIA 10,000 14,000 17,000 NIA 130 5 NIA 130 5 NIA 130 NIA 130 5 NIA 130 NIA 130 5 NIA 130 14,000 17,000 NIA 130 17,000 NIA 130 18 NIA 130 19 NIA	NIA NIA NIA 820 350 730 NIA 4,000 2,500 110 1,500 990 15.0 200 NIA NIA NIA 10,000 14,000 14,000 17,000 NIA 1300 14,000 14,000 17,000 NIA 1300 14,000	NIA NIA NIA 1,448 618 1,249 NIA 7,065 4,415 194 2,825 363 NIA NIA NIA 17,7663 247 NIA 17,7663 247 NIA 17,7663 247 NIA NIA 17,7663 247 NIA NIA 17,7663 247 NIA NIA 17,863 247 NIA NIA NIA 17,065 30,027 NIA	Comments
Chysene Dibenzola,h/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene Diethyl Phthalate Di-n-Butyl Phthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene 1,2-Diphenylhydrazine Fluoranthene Fluoranthene Hexachlorobenzene Hexachlorobenzene Hexachlorocyclopertadiene Hexachlorocyclopertadiene Hexachlorocyclopertadiene Hexachlorocyclopertadiene Nexachlorocyclopertadiene Nexachlorocyclopertadiene Hexachlorocyclopertadiene Nexachlorocyclopertadiene Nexachlorocyclopertadiene Nexachlorocyclopertadiene Nexachlorocyclopertadiene Nexachlorocyclopertadiene Nexachlorocyclopertadiene Nexachlorocyclopertadiene Nitrosodin-Propylamine n-Nitrosodine-Propylamine n-Nitrosodine-Propylamine Phenanthrene Pyrene 1,2,4-Trichlorobenzene CPC CC Poliutants Total Dissolved Solids (PWS) Chloride (PWS) Sutfate (PWS) Sutfate (PWS) Total Aluminum Total Ansenic Total Bartum Total Soron	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 0 0 0 0 0 0	Trib Conc	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIA NIA NIA S20 350 730 NIA 4,000 2,500 110 1,600 950 15 200 NIA NIA NIA 10,000 1400 17,000 NIA 300 5 NIA 130 Ans WQC (ug/L) NIA	NIA NIA NIA 820 350 730 NIA 4,000 2,500 110 1,600 15.0 200 NIA NIA NIA 10.00 140 1,500 140 1,000 140 1,000 140 1,000 140 1,000 140 1,000 NIA	NIA NIA NIA 1,448 618 1,249 NIA 7,065 4,416 134 2,826 1,749 26.5 353 NIA 17,763 347 7,065 NIA 17,663 347 7,065 NIA 247 17,663 36,33 NIA 230 027 NIA 230 027 NIA 230 027 NIA 30,027 NIA 30,0	Comments Chem Translator of 1 applied
Chysene Dibenzo(a,h)Anthrancene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 3,3-Dichiorobenzene 3,3-Dichiorobenzene 3,3-Dichiorobenzene 3,3-Dichiorobenzene Diethyl Phthalate Dirn-Butyl Phthalate 2,4-Dinihrobiuene 1,2-Diphenylhydrazine Fluoranthene Fluoranthene Hexachiorobenzene Hexachiorobenzene Hexachiorobenzene Hexachiorobenzene Naphthalene Nitrobenzene Naphthalene Nitrobenzene n-Nitrosodimethylamine n-Nitrosodimethylamine n-Nitrosodimethylamine Phemanihrene Pyrene 1,2,4-Trichiorobenzene 1,2,4-Trichiorobenzene 1,2,4-Trichiorobenzene Total Dissolved Solids (PWS) Chioride (PWS) Surfate (PWS) Total Antmony Total Antmony Total Gadmium Total Cadmium Total Cadmium	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 0 0 0 0 0 0	Trib Conc	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIA NIA NIA S20 350 730 NIA 4,000 2,500 110 1,600 950 15 200 NIA NIA NIA 10 10,000 1400 17,000 NIA 300 5 NIA 130 Ans WQC (ug/L) NIA	NIA NIA NIA 820 350 730 NIA 4,000 110 1,500 990 115,0 200 115,0 200 NIA NIA NIA 10,000 1400 17,000 NIA 300 5,0 NIA 300 13,000 14,000 17,000 NIA 130 NIA 130 NIA 130 NIA 130 NIA 130 15,0 NIA 130 15,0 NIA 10,000 14,000 17,000 NIA 130 17,000 NIA 130 15,0 NIA 130 NIA 130 NIA 130 NIA 130 NIA	NIA NIA NIA 1,448 618 1,289 NIA 7,065 1,749 26.5 353 NIA NIA 17,77 8.83 106 NIA 17,765 30,027 NIA NIA 17,765 30,027 NIA NIA 17,653 247 7,065 30,027 NIA NIA 17,065 30,027 NIA NIA 17,065 30,027 NIA NIA 17,065 30,027 NIA NIA 17,065 30,027 NIA NIA 17,065 30,027 NIA NIA 17,065 30,027 NIA NIA 17,065 30,027 NIA NIA 17,065 30,027 NIA NIA 17,065 30,027 NIA NIA 17,065 30,027 NIA NIA 17,065 30,027 NIA NIA 17,065 30,027 NIA NIA 17,065 30,027 NIA NIA 17,065 30,027 NIA NIA 17,065 30,027 NIA NIA 17,065 30,027 NIA NIA 18,023 18,02	Comments Chem Translator of 1 applied Chem Translator of 0.892 applied
Chrysene Dibenzola, h/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene Diethyl Phthalate Di-n-Butyl Phthalate 2,4-Dinitrotoluene 1,2-Diphenylhydrazine Fluorene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Naphthalene Naphthalene Naphthalene Naphthalene Nitrosodimethylamine n-Nitrosodimethylamine n-Nitrosodimethylamine Phenanthrene Pyrene 1,2,4-Trichlorobenzene Z CFC CC Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sutfate (PWS) Total Auminum Total Antimomy Total Antimomy Total Godmium Total Chromium (III)	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 0 0 0 0 0 0	Trib Conc	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIA NIA NIA 820 350 730 NIA 4,000 2,500 110 1,500 990 15 200 NIA NIA 10 10 5 NIA 110,000 1440 4,000 17,000 NIA 1300 5 NIA 1300 5 NIA 1300 5 NIA 1300 5 NIA 1300 140 140 15 NIA 1300 15 NIA 1300 17,000 NIA 1300 0,000 17,000 NIA	NIA NIA NIA 820 350 730 NIA 4,000 2,500 110 1,500 990 15.0 200 NIA NIA NIA 10,000 140 4,000 17,000 NIA 130 NIA	NIA NIA NIA 1,448 618 1,249 1,4416 194 4,415 194 2,825 363 363 NIA NIA 17,765 30,027 NIA 17,765 30,027 NIA 230 883 NIA 17,765 30,027 NIA 17,863 247 NIA 230 883 NIA NIA 17,863 247 NIA 17,863 247 NIA 17,863 247 NIA 17,965 30,027 NIA 17,863 106 NIA NIA 17,965 30,027	Comments Chem Translator of 1 applied Chem Translator of 0.892 applied Chem Translator of 0.892 applied
Chysene Dibenzola,h/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene Diethyl Phthalate Di-n-Butyl Phthalate 2,4-Dinitrotoliuene 1,2-Diphenylhydrazine Fluoranthene Fluoranthene Fluoranthene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Naphthalene Nitrobenzene Naphthalene Nitrobenzene n-Nitrosodin-Propylamine n-Nitrosodin-Propylamine Phenanthrene Pyrene 1,2,4-Trichlorobenzene Z CPC CC Poliutants Total Dissolved Solids (PWS) Chloride (PWS) Suffate (PWS) Suffate (PWS) Total Aluminum Total Ansenic Total Cadmium Total Chromium (III) Hexavalent Chromium	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 0 0 0 0 0 0	Trib Conc	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIA NIA NIA S20 350 730 NIA 4,000 2,500 110 1,600 990 15 200 NIA NIA NIA 10 5 60 NIA 10,000 140 4,000 17,000 NIA 130 Ans WQC (upl.) NIA	NIA NIA NIA 820 350 730 NIA 4,000 2,500 110 1,600 990 15.0 200 NIA NIA NIA 10.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0	NIA NIA NIA 1,448 618 1,249 NIA 7,065 363 347 NIA 17,765 30,027 NIA 17,653 347 NIA NIA 17,653 347 NIA NIA 17,653 347 NIA NIA 17,065 30,027 NIA S30 8,83 NIA S30 NIA	Comments Chem Translator of 1 applied Chem Translator of 0.892 applied
Chrysene Dibenzola, h/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene 3,3-Dichlorobenzene Diethyl Phthalate Di-n-Butyl Phthalate 2,4-Dinitrotoluene 1,2-Diphenylhydrazine Fluorene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Hexachlorobenzene Naphthalene Naphthalene Naphthalene Naphthalene Nitrosodimethylamine n-Nitrosodimethylamine n-Nitrosodimethylamine Phenanthrene Pyrene 1,2,4-Trichlorobenzene Z CFC CC Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sutfate (PWS) Total Auminum Total Antimomy Total Antimomy Total Godmium Total Chromium (III)	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 0 0 0 0 0 0	Trib Conc	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NIA NIA NIA 820 350 730 NIA 4,000 2,500 110 1,500 990 15 200 NIA NIA 10 10 5 NIA 110,000 1440 4,000 17,000 NIA 1300 5 NIA 1300 5 NIA 1300 5 NIA 1300 5 NIA 1300 140 140 15 NIA 1300 15 NIA 1300 17,000 NIA 1300 0,000 17,000 NIA	NIA NIA NIA 820 350 730 NIA 4,000 2,500 110 1,500 990 15.0 200 NIA NIA NIA 10,000 140 4,000 17,000 NIA 130 NIA	NIA NIA NIA 1,448 618 1,249 1,4416 194 4,415 194 2,825 363 363 NIA NIA 17,765 30,027 NIA 17,765 30,027 NIA 230 883 NIA 17,765 30,027 NIA 17,863 247 NIA 230 883 NIA NIA 17,863 247 NIA 17,863 247 NIA 17,863 247 NIA 17,965 30,027 NIA 17,863 106 NIA NIA 17,965 30,027	Comments Chem Translator of 1 applied Chem Translator of 0.892 applied Chem Translator of 0.892 applied

Free Cyanide	0	0	0	5.2	5.2	32.8	
Dissolved Iron	0	0	0	N/A	N/A	N/A	
Total Iron	0	0	0	1,500	1,500	22,703	WQC = 30 day average; PMF = 1
Total Lead	0	0	0	3.918	5.36	33.8	Chem Translator of 0.731 applied
Total Manganese	0	0	0	N/A	N/A	N/A	Critician Indicated of C.731 apprica
Total Mercury	0	0	0	0.770	0.91	5.72	Chem Translator of 0.85 applied
Total Nickel	0	0	0	73.520	73.7	465	
		_				$\overline{}$	Chem Translator of 0.997 applied
Total Phenois (Phenolics) (PW8)	0	0	0	N/A	N/A	N/A	
Total Selenium	0	0	0	4.600	4.99	31.5	Chem Translator of 0.922 applied
Total Silver	0	0	0	NIA	N/A	N/A	Chem Translator of 1 applied
Total Thaillum	0	0	0	13	13.0	82.0	
Total Zinc	0	0	 0	167.099	169	1,069	Chem Translator of 0.986 applied
Acrolein	0	0	0	3	3.0	18.9	Citation of Carron approximation
Acrylonitrie	0	0	 0	130	130	820	
Benzene	0	0	0	130	130	820	
Bromoform	0	0	0	370	370	2,334	
Carbon Tetrachloride	0	0	0	560	560	3,533	
Chlorobenzene	0	0	0	240	240	1,514	
Chlorodibromomethane	0	0	0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0	0	3,500	3,500	22,081	
Chloroform	0	0	 0	390	390	2.461	
				N/A		_	
Dichlorobromomethane	0	0	0		N/A	N/A	
1,2-Dichloroethane	0	0	0	3,100	3,100	19,558	
1,1-Dichloroethylene	0	0	0	1,500	1,500	9,463	
1,2-Dichloropropane	0	0	0	2,200	2,200	13,880	
1,3-Dichloropropylene	0	0	0	61	61.0	385	
Ethylbenzene	0	0	0	580	580	3,659	
Methyl Bromide	0	0	0	110	110	694	
	0	0	0	5,500	5,500	34,699	
Methyl Chloride							
Methylene Chloride	0	0	0	2,400	2,400	15,142	
1,1,2,2-Tetrachloroethane	0	0	0	210	210	1,325	
Tetrachioroethylene	0	0	0	140	140	883	
Toluene	0	0	0	330	330	2,082	
1,2-trans-Dichloroethylene	0	0	0	1,400	1,400	8,833	
1,1,1-Trichioroethane	0	0	0	610	610	3,848	
1.1.2-Trichloroethane	0	ō	 0	680	680	4.290	
1-1-							
Trichioroethylene	0	0	0	450	450	2,839	
Vinyl Chloride	0	0	0	N/A	N/A	N/A	
2-Chlorophenol	0	0	0	110	110	694	
2,4-Dichlorophenol	0	0	0	340	340	2,145	
2,4-Dimethylphenol	0	0	0	130	130	820	
4,6-Dinitro-o-Cresol	0	0	0	16	16.0	101	
2.4-Dinitrophenol	0	0	0	130	130	820	
2-Nitrophenol	0	0	 0	1,600	1,600	10,094	
4-Nitrophenol	0	0	0	470	470	2,965	
44NDOPHEROI	U	u	u	4/0	4/0	2,365	
p-Chloro-m-Cresol	0	0	0	500	500	3,154	
Pentachiorophenol	0	0	0	6.693	6.69	42.2	
Pentachiorophenol	0	0	0	6.693	6.69	42.2	
Pentachiorophenol Phenol 2,4,6-Trichiorophenol	0	0	0	6.693 N/A 91	6.69 N/A 91.0	42.2 N/A 574	
Pentachiorophenol Phenol 2,4,6-Trichiorophenol Acenaphthene	0	0	0	6.693 N/A 91 17	6.69 N/A 91.0 17.0	42.2 N/A 574 107	
Pentachiorophenol Phenol 2,4,6-Trichiorophenol Acenaphithene Anthracene	0 0 0	0 0	0 0 0	6.693 N/A 91 17 N/A	6.69 N/A 91.0 17.0 N/A	42.2 N/A 574 107 N/A	
Pentachlorophenol Phenol 2.4,6-Trichlorophenol Acenaphthene Anthracene Benzidine	0 0 0 0 0 0	0 0 0	0 0 0	6.693 N/A 91 17 N/A 59	6.69 N/A 91.0 17.0 N/A 59.0	42.2 N/A 574 107 N/A 372	
Pentachiorophenoi Phenoi 2,4,6-Trichiorophenoi Acenaphthene Anthracene Bentzidine Bentzo (s)Anthracene	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0	6.693 N/A 91 17 N/A 59 0.1	6.69 N/A 91.0 17.0 N/A 59.0	42.2 N/A 574 107 N/A 372 0.63	
Pentachlorophenol Phenol 2,4,6-Trichlorophenol Acenaphthene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	6.693 N/A 91 17 N/A 59 0.1 N/A	6.69 N/A 91.0 17.0 N/A 59.0 0.1 N/A	42.2 N/A 574 107 N/A 372 0.63 N/A	
Pentachlorophenol Phenol 2.4,6-Trichlorophenol Acenaphibene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofuoranthene	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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.693 N/A 91 17 N/A 59 0.1 N/A N/A	6.69 N/A 91.0 17.0 N/A 59.0 0.1 N/A N/A	42.2 N/A 574 107 N/A 372 0.63 N/A N/A	
Pentachlorophenol Phenol 2,4,6-Trichlorophenol Acenaphthene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	6.693 N/A 91 17 N/A 59 0.1 N/A	6.69 N/A 91.0 17.0 N/A 59.0 0.1 N/A	42.2 N/A 574 107 N/A 372 0.63 N/A	
Pentachlorophenol Phenol 2.4,6-Trichlorophenol Acenaphibene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofuoranthene	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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.693 N/A 91 17 N/A 59 0.1 N/A N/A	6.69 N/A 91.0 17.0 N/A 59.0 0.1 N/A N/A	42.2 N/A 574 107 N/A 372 0.63 N/A N/A	
Pentachiorophenoi Phenoi 2,4,6-Trichiorophenoi Acenaphthene Anthracene Benzoline Benzoline Benzolin/Pyrene 3,4-Benzoliu/ranthene Benzoli/Fluoranthene	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 0 0 0 0 0 0 0 0	0	6.693 NIA 91 17 NIA 59 0.1 NIA NIA NIA	6.69 N/A 91.0 17.0 N/A 59.0 0.1 N/A N/A	42.2 N/A 574 107 N/A 372 0.63 N/A N/A N/A	
Pentachlorophenol Phenol 2,4,6-Trichlorophenol Acenaphithene Anthracene Benzidine Benzola)Anthracene Benzola)Pyrene 3,4-Benzofluoranthene Benzol-Fluoranthene Bis(2-Chloroebyl/Ether Bis(2-Chlorolsopropyl/Ether	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 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	6,593 NIA 91 17 NIA 59 0.1 NIA NIA NIA 6,000	6.69 N/A 91.0 17.0 N/A 59.0 0.1 N/A N/A N/A 6,000	42.2 N/A 574 107 N/A 372 0.63 N/A N/A N/A 37,854	
Pentachiorophenoi Phenoi 2,4,5-Trichiorophenoi Acenaphthene Arithracene Benzolaine Benzolai/Pyrene 3,4-Benzofuoranthene Bis(2-Chioroisopropyl)(Ether Bis(2-Chioroisopropyl)(Ether Bis(2-Chioroisopropyl)(Ether Bis(2-Chioroisopropyl)(Ether	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 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	6.693 N/A 91 17 N/A 59 0.1 N/A N/A N/A 6,000 N/A 910	6.69 N/A 91.0 17.0 N/A 59.0 0.1 N/A N/A N/A 6,000 N/A 910	42.2 N/A 574 107 N/A 372 0.63 N/A N/A N/A N/A 37,854 N/A 5,741	
Pentachiorophenoi Phenoi 2,4,6-Trichiorophenoi Acenaphthene Anthracene Benzolai-Prine Benzolai-Prine 3,4-Benzofluoranthene Benzol(x)Fluoranthene Bis(2-Chioroethyl)/Ether Bis(2-Ethylney)/Fithaliate 4-Bromophenyl Phenyl Ether	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 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	6.693 N/A 91 17 N/A 59 0.1 N/A N/A N/A N/A 6,000 N/A 910	6.69 N/A 91.0 17.0 N/A 59.0 0.1 N/A N/A N/A 6,000 N/A 910 54.0	42.2 N/A 574 107 N/A 372 0.63 N/A N/A N/A N/A S,741 341	
Pentachlorophenol Phenol 2,4,6-Trichlorophenol Acenaphthene Arithracene Benzidine Benzola)Anthracene Benzola)Anthracene Benzola(Pyrene 3,4-Benzoftuoranthene Benzo(K)Fluoranthene Bis(2-Chloroetry)(Ether Bis(2-Chlorotspropy)(Ether Bis(2-Ethyliexy)(Phthalate 4-Bromopheny) Phenyl Ether Butyl Benzy (Phthalate	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 0 0 0 0 0 0 0 0 0	6.693 N/A 91 17 N/A 59 0.1 N/A N/A N/A N/A 910 54	6.69 N/A 91.0 17.0 N/A 59.0 0.1 N/A N/A N/A 6,000 N/A 910 54.0	42.2 N/A 574 107 N/A 372 0.63 N/A N/A N/A N/A 37,854 N/A 1341 221	
Pentachiorophenoi Phenoi 2,4,5-Trichiorophenoi Acenaphthene Arithracene Benzolaine Benzolaine Benzolai/Pyrene 3,4-Benzofuoranthene Benzolki/Fluoranthene Bis(2-Chiorostry)(Ether Bis(2-Chiorostry)(Ether Bis(2-Ethylhexy)(Phthalate 4-Bromopheny) Phenyl Ether Butyl Benzyl Phthalate 2-Chiorostryphthalate 2-Chiorostryphthalate	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0	6.593 N/A 91 17 N/A 59 0.1 N/A N/A N/A 6,000 N/A 910 54 35 N/A	6.69 N/A 91.0 17.0 N/A 59.0 0.1 N/A N/A N/A 6,000 N/A 910 54.0 N/A	42.2 NIA 574 107 NIA 372 NIA NIA NIA NIA 37,854 NIA 5,741 341 221 NIA	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Anthracene Benzolai-Phenoi 3.4-Benzofuoranthene Benzolai-Phenoi 3.4-Benzofuoranthene Benzol(i)-Fluoranthene Bis(2-Chioroethyl)-Ether Bis(2-Ethyleve)/Phitaliste 4-Bromophenyl Phenyl Ether Butyl Benzyl Phithaliste 2-Chioronaphthaliene Chysene	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 0 0 0 0 0 0 0 0 0	6.593 N/A 91 17 N/A 59 0.1 N/A N/A 6,000 N/A 910 54 35 N/A N/A	6.69 N/A 91.0 17.0 N/A 59.0 0.1 N/A N/A 6,000 910 54.0 35.0 N/A N/A	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA NIA 37,844 5,741 341 221 NIA NIA NIA	
Pentachiorophenol Phenol 2,4,6-Trichiorophenol Acenaphthene Anthracene Benzidine Benzidine Benzidine Benzidine 3,4-Benzofluoranthene Benzidi,Fluoranthene Benzidi,Fluoranthene Benzidi,Fluoranthene Bis(2-Chioroisopropi)(Ether Bis(2-Chioroisopropi)(Ether) Bis(2-C	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 0 0 0 0 0 0 0 0 0	6.593 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA 910 54 35 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	6.69 NIA 91.0 17.0 NIA 59.0 0.1 NIA NIA NIA NIA 910 54.0 35.0 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA NIA 37,854 NIA 5,741 221 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	
Pentachiorophenoi Phenoi 2,4,5-Trichiorophenoi Acenaphthene Arithracene Benzolaine Benzolaine Benzolai/Pyrene 3,4-Benzofuorathene Benzolki/Fluoranthene Benzolki/Fluoranthene Bis(2-Chiorostoproj/liether Bis(2-Chiorostoproj/liether Bis(2-Ethylhexyl/Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chiorostoprojhtalene Chrysene Dibenzola jh/Anthrancene 1,2-Dichloroberszene	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 0 0 0 0 0 0 0 0 0	6.593 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA 150 NIA	6.69 NIA 91.0 177.0 NIA 59.0 0.1 NIA NIA NIA 910 54.0 NIA 910 54.0 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA NIA 37,854 NIA S,741 341 221 NIA NIA NIA 1,009	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Anthracene Benzolai BenzolaiPyrene 3,4-Benzofuoranthene Benzo(s)Pyrene 3,4-Benzofuoranthene Benzo(s)(Fluoranthene Bis(2-Chiorosethyl)Ether Bis(2-Ethylnexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chiorosaphthalane Chrysene Dibenzo(s,h)/Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene	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 0 0 0 0 0 0 0 0 0	6.593 NIA 91 17 NIA 59 0.1 NIA NIA NIA 16,000 NIA 910 54 315 NIA NIA NIA NIA 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	6.69 NIA 91.0 17.0 NIA 59.0 0.1 NIA NIA 6,000 NIA 910 54.0 35.0 NIA NIA NIA NIA NIA 16.0 NIA NIA 16.0 NIA NIA 16.0 NIA NIA 17.0 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	42.2 NIA 574 107 NIA 37,2 0.53 NIA NIA 37,854 NIA 37,854 NIA 1,00 NIA NIA 1,00 NIA 1	
Pentachiorophenoi Phenoi 2,4,5-Trichiorophenoi Acenaphthene Arithracene Benzolaine Benzolaine Benzolai/Pyrene 3,4-Benzofuorathene Benzolki/Fluoranthene Benzolki/Fluoranthene Bis(2-Chiorostoproj/liether Bis(2-Chiorostoproj/liether Bis(2-Ethylhexyl/Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chiorostoprojhtalene Chrysene Dibenzola jh/Anthrancene 1,2-Dichloroberszene	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 0 0 0 0 0 0 0 0 0	6.593 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA 150 NIA	6.69 NIA 91.0 177.0 NIA 59.0 0.1 NIA NIA NIA 910 54.0 NIA 910 54.0 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA NIA 37,854 NIA S,741 341 221 NIA NIA NIA 1,009	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Anthracene Benzolai BenzolaiPyrene 3,4-Benzofuoranthene Benzo(s)Pyrene 3,4-Benzofuoranthene Benzo(s)(Fluoranthene Bis(2-Chiorospropy)(Ether Bis(2-Ethylnex)(Fibraliste 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chiorosphanialene Chrysene Dibenzo(s,h)/Anthrancene 1,2-Dichlorosbenzene 1,3-Dichlorobenzene	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 0 0 0 0 0 0 0 0 0	6.593 NIA 91 17 NIA 59 0.1 NIA NIA NIA 16,000 NIA 910 54 315 NIA NIA NIA NIA 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	6.69 NIA 91.0 17.0 NIA 59.0 0.1 NIA NIA 6,000 NIA 910 54.0 35.0 NIA NIA NIA NIA NIA 16.0 NIA NIA 16.0 NIA NIA 16.0 NIA NIA 17.0 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	42.2 NIA 574 107 NIA 37,2 0.53 NIA NIA 37,854 NIA 37,854 NIA 1,00 NIA NIA 1,00 NIA 1	
Pentachiorophenoi Phenoi 2,4,5-Trichiorophenoi Acenaphthene Arithracene Benzolaine Bis/2-Chiorosprojo/(Ether Bis/2-Chiorosprojo/(Ether Bis/2-Chiorosprojo/(Ether Bis/2-Chiorosprojo/(Ether Bis/2-Ethylhexyl/Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chioronaphthalene Chrysene Dibenzolain/Anthrancene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Olichiorobenzene 3,3-Olichiorobenzene 3,3-Olichiorobenzene	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 0 0 0 0 0 0 0 0 0	6.693 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA NIA NIA NIA NIA 160 69 150 150 NIA	6.69 NIA 91.0 17.0 NIA 17.0 NIA 59.0 0.1 NIA NIA NIA NIA 16.0 154.0 154.0 154.0 156.0 150.	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA NIA 37,854 NIA 103 141 241 241 241 NIA NIA NIA 1,009 435 845 NIA NIA NIA 1,009 435 845 845 845 845 845 845 845 845 845 84	
Pentachiorophenoi Phenoi 2,4,6-Trichiorophenoi Acenaphithene Anthracene Bentzidine Bentzidine Bentzolaj/Anthracene Bentzolaj/Anthracene Bentzolaj/Pyrene 3,4-Bentzofluoranthene Bentzolaj/Pyrene Bis/2-Chiorospropy/Ether Bis/2-Chiorospropy/Ether Bis/2-Chiorospropy/Ether Bis/2-Ethylnexy/Phthalate 4-Bromopheny/Phthalate 2-Chioronaphihalene Chrysene Dibentzolaj/Anthracene 1,3-Dichiorobentzene Dietny/Phthalate	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 0 0 0 0 0 0 0 0 0	6.593 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA 16,000 NIA 35 NIA	6.69 NIA 91.0 17.0 NIA 59.0 0.1 NIA NIA 6,000 NIA 910 54.0 35.0 NIA NIA NIA NIA NIA 160 0.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	42.2 NIA 574 107 NIA 372 0.63 NIA NIA 37,854 NIA 37,854 NIA 103 NIA NIA 141 221 NIA NIA NIA 141 221 NIA NIA 141 241 151 161 161 161 161 161 161 161 161 16	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Arthracene Benzola)Anthracene Benzola)Anthracene Benzola)Pyrene 3,4-Benzofluoranthene Benzola)Pyrene 3,4-Benzofluoranthene Bis(2-Chioroethy)(Ether Bis(2-Chioroethy)(Ether Bis(2-Chioroethy)(Ether Bis(2-Chiorothy)(Ether Bis(2-Chiorothy)(Ether Bis(2-Chiorothy)(Ether Bis(2-Chiorothy)(Ether Bis(2-Chiorothy)(Ether Bis(2-Chiorothy)(Ether Bis(2-Chiorothy)(Ether Bis(2-Chiorothy)(Ether Bis(2-Chiorothy)(Ether Bis(2-Chiorotheny)(Ether Bis(2-Chiorotheny)(Ether)(Ether Bis(2-Chiorotheny)(Ether)(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 0 0 0 0 0 0 0 0 0	6.593 NIA 91 17 NIA 59 0.1 NIA NIA NIA 6,000 NIA 910 54 35 NIA	6.69 NIA 91.0 17.0 NIA 17.0 NIA 59.0 0.1 NIA NIA NIA 5.00 NIA NIA 16.0 NIA NIA NIA 160 69.0 NIA 160 69.0 NIA 800 NIA 800 S00	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA 37,864 5,741 341 1221 NIA NIA NIA 1,009 435 NIA NIA 5,441 341 5,745 1,009 435 1,00 4	
Pentachiorophenoi Phenoi 2,4,5-Trichiorophenoi Acenaphthene Anthracene Benzolaine Bis/2-Chiorostryi/Ether Bis/2-Chiorostryi/Ether Bis/2-Chiorostryi/Ether Bis/2-Chiorostryi/Ether Bis/2-Chiorostryi/Ether Bis/2-Ethylhexyi/Phthalate 4-Bromophenyi Phenyi Ether Bis/2-Ethylhexyi/Phthalate 2-Chiorostryi/Ether Bis/2-Ethylhexyi/Phthalate 2-Chiorostryi/Ether Bis/2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 3,3-Dichiorobenzene 3,3-Dichiorobenzene Diethyi Phthalate Dien-Butyi Phthalate Din-Butyi Phthalate Din-Butyi Phthalate	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 0 0 0 0 0 0 0 0		6.593 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA NIA NIA NIA 150 0.1 NIA	6.69 NIA 91.0 17.0 NIA 17.0 NIA 59.0 0.1 NIA NIA NIA NIA NIA NIA NIA 16.000 NIA	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA NIA 37,854 NIA NIA 1,009 435 946 NIA NIA NIA NIA 1,009 435 941 1,009 435 1,009 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Anthracene Benzolane Bis(2-Chiorosethyl)Ether Bis(2-Chiorosethyl)Ether Bis(2-Chiorosethyl)Ether Bis(2-Chiorosethyl)Ether Bis(2-Chiorosethyl)Ether Bis(2-Chiorosethyl)Ether Bis(2-Ethylnesyl)Phthalate 2-Chioronaphthalate 2-Chioronaphthalate Chrysene Dibenzolane 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 2,3-Dichiorobenzene 2,3-Dichiorobenzene 2,3-Dichiorobenzene 2,3-Dichiorobenzene 3,3-Dichiorobenzene 2,3-Dichiorobenzene 2,4-Dinitrotoluene	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 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	6.593 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA 16,000 NIA NIA NIA NIA 160 069 150 150 150 150 150 150 150 150 150 150	6.69 NIA 91.0 17.0 NIA NIA NIA NIA 6,000 NIA 910 54.0 NIA	42.2 NIA 574 107 NIA 37.2 0.63 NIA NIA 37,854 NIA 1341 221 NIA NIA NIA NIA NIA 1,009 435 946 NIA NIA 1,009 435 947 3,154 1,009	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Anthracene Benzidine Benzidine Benzidine Benzidine 3,4-Benzofuoranthene BenzidiojPyrene 3,4-Benzofuoranthene Bis(2-Chioroethyl)Ether Bis(2-Chiorosproyr)(Ether Bis(2-Ethylnexy)(Phitaliste 4-Bromophenyl Phenyl Ether Biy(1-Benzy) Phitaliste 2-Chiorohaphthalene Chrysene Dibenzo(a,h)/Anthrancene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 3,3-Olichiorobenzene 0 Diethyl Phithaliste	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 0 0 0 0 0 0 0 0		6.593 NIA 91 17 NIA 59 0.1 NIA NIA NIA 16,000 NIA 910 54 35 NIA NIA NIA NIA 160 69 150 NIA 800 500 21 320	6.69 NIA 91.0 17.0 NIA 59.0 0.1 NIA NIA 6,000 NIA 910 54.0 35.0 NIA NIA NIA NIA NIA 160 500 150 NIA 800 500 21.0	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA 37,854 5,741 341 1,221 NIA NIA NIA NIA 1,009 435 NIA NIA 1,009 435 1,009 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Pentachiorophenoi Phenoi 2,4,5-Trichiorophenoi Acenaphthene Arithracene Benzolaine Bisi2-ChiorostryijiEther Bisi2-ChiorostryijiEther Bisi2-ChiorostryijiEther Bisi2-ChiorostryijiEther Bisi2-ChiorostryijiEther Bisi2-EthyihexyijiPhthalate 4-Bromophenij Phenyi Ether Bisi3-EthyihexyijiPhthalate 2-ChiorostryijiEther Bisi3-EthyihexyijiPhthalate 2-ChiorostryijiEther Bisi3-EthyihexyijiPhthalate Chysene DibenzolainiAnthrancene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 3,3-Dichiorobenzene 0,4-Dinitrotoluene 2,5-Oinitrotoluene 1,2-Oiphenyliydrazine	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 0 0 0 0 0 0 0 0		6.693 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA NIA NIA NIA 160 69 150 150 150 150 20 200 3	6.69 NIA 91.0 17.0 NIA 17.0 NIA 17.0 NIA	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA NIA 107 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Anthracene Benzidine Bisi2-ChioroisopropyliEther Bisi2-EthylinexyliPhitaliate 4-Bromophenyl Phenyl Ether Bisi2-EthylinexyliPhitaliate 2-Chioronaphthalene Chrysene Dibenzidine Dibenzidine 1,2-Dichiorobenziene 1,3-Dichiorobenziene 1,4-Dichiorobenziene 3,3-Dichiorobenzidine Diethyl Phithalate Din-Butyl Phithalate Din-Butyl Phithalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene	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 0 0 0 0 0 0 0 0		6.593 NIA 91 17 NIA 59 0.1 NIA NIA NIA 16,000 NIA 910 54 35 NIA NIA NIA NIA 160 69 150 NIA 800 500 21 320	6.69 NIA 91.0 17.0 NIA 59.0 0.1 NIA NIA 6,000 NIA 910 54.0 35.0 NIA NIA NIA NIA NIA 160 500 150 NIA 800 500 21.0	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA 37,854 5,741 341 1,221 NIA NIA NIA NIA 1,009 435 NIA NIA 1,009 435 1,009 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Pentachiorophenoi Phenoi 2,4,5-Trichiorophenoi Acenaphthene Arithracene Benzolaine Bisi2-ChiorostryijiEther Bisi2-ChiorostryijiEther Bisi2-ChiorostryijiEther Bisi2-ChiorostryijiEther Bisi2-ChiorostryijiEther Bisi2-EthyihexyijiPhthalate 4-Bromophenij Phenyi Ether Bisi3-EthyihexyijiPhthalate 2-ChiorostryijiEther Bisi3-EthyihexyijiPhthalate 2-ChiorostryijiEther Bisi3-EthyihexyijiPhthalate Chysene DibenzolainiAnthrancene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 3,3-Dichiorobenzene 0,4-Dinitrotoluene 2,5-Oinitrotoluene 1,2-Oiphenyliydrazine	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 0 0 0 0 0 0 0 0		6.693 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA NIA NIA NIA 160 69 150 150 150 150 20 200 3	6.69 NIA 91.0 17.0 NIA 17.0 NIA 17.0 NIA	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA NIA 107 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	
Pentachiorophenoi Phenoi 2,4,6-Trichiorophenoi Acenaphthene Arithracene Benzolaine Benzolai/Pyrene 3,4-Berzofluoranthene Benzolai/Pyrene 3,4-Berzofluoranthene Benzolki/Fluoranthene Bis(2-Chioroisopropy/liEther Chioroisopropy/liEther 1,2-Dichioroberzene 1,2-Dichioroberzene 1,3-Dichioroberzene Diethyl Phthalate Din-Butyl Phthalate Din-Butyl Phthalate Din-Butyl Phthalate 1,2-Diphenyltydrazine Fluoranthene	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			6.593 NIA 91 17 NIA 59 0.1 NIA NIA NIA 16,000 NIA 910 54 35 NIA NIA NIA 150 0.9 150 NIA	6.69 NIA 91.0 17.0 NIA 59.0 0.1 NIA NIA 6,000 NIA 910 54.0 35.0 NIA NIA NIA NIA NIA 0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA 37,854 5,741 341 1,009 435 NIA NIA NIA 1,009 435 1,009 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Arthracene Benzolaine Bisi2-Chiorosprojiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			6.693 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA NIA NIA 160 6,000 NIA	6.69 NIA 91.0 17.0 NIA 17.0 NIA 17.0 NIA NIA NIA NIA NIA NIA 16.000 NIA	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA 107 NIA NIA NIA 109 435 NIA NIA NIA NIA NIA 1,009 435 NIA NIA 1,009 435 NIA NIA NIA NIA NIA NIA 1,009 435 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	
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Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Anthracene Bentzolane Butyl Bentzyl Phthalate Chrysene Dibentzolane 1,2-Dichiorobentzene 1,2-Dichiorobentzene 1,3-Dichiorobentzene Bentzyl Phthalate Dimettyl Phthalate Dimettyl Phthalate Dimettyl Phthalate Dimettyl Phthalate Bentzolane 1,2-Diphenylhydrazine Fluoranthene Fluoranthene Fluoranthene Hexachiorobetzene Hexachiorobetzene Hexachiorobetzene Hexachiorobetzene Hexachiorobetzene	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			6.693 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA NIA 16,000 15 NIA NIA NIA 160 69 150 NIA NIA 160 69 150 NIA 800 21 320 3 40 NIA NIA NIA 160 150 NIA NIA 150 NIA NIA 150 NIA NIA NIA 150 NIA NIA NIA NIA 150	6.69 NIA 91.0 17.0 NIA 17.0 NIA 59.0 0.1 NIA NIA NIA 59.0 NIA NIA 16.0 NIA NIA NIA 160 69.0 NIA 160 69.0 NIA 160 21.0 320 3.0 40.0 NIA NIA NIA 160 3.0 1.0 1.0	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA 37,854 5,741 341 421 NIA NIA NIA NIA 1,009 435 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Arthracene Benzolaine 1,2-Dichiorobenzene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,2-Diphenythylaine Diethyl Phthalate Din-Butyl Phthalate Elizopathene Fluorente Hexachiorobenzene Hexachiorobenzene Hexachiorobenzene				6.693 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA NIA NIA NIA 160 6.000 NIA	6.69 NIA 91.0 17.0 NIA 17.0 NIA 59.0 0.1 NIA NIA NIA NIA 16.0 910 54.0 NIA NIA 160 69.0 NIA NIA 160 69.0 NIA NIA 160 69.0 NIA	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA NIA 1,009 435 NIA NIA NIA NIA 1,009 435 NIA 1,009 435 NIA NIA NIA NIA NIA NIA NIA NIA 1,009 1,00 1,00	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Anthracene Benzola)Anthracene Benzola)Anthracene Benzola)Pyrene 3,4-Benzofuoranthene Benzolk)Fluoranthene Bis(2-Chioroisopropy/i)Ether Bis(2-Chioroisopropy/i)Ether Bis(2-Chioroisopropy/i)Ether Bis(2-Ethylnexy)Phthalate 4-Bromopheny Phenyl Ether Bis(3-Ethylnexy)Phthalate 2-Chioroisopropy/i)Ether Bis(3-Ethylnexy)Phthalate 2-Chioroisopropy/i)Ether Bis(3-Ethylnexy)Phthalate 2-Chioroisopropy/i)Ether Bis(3-Ethylnexy)Phthalate 2-Chioroisopropy/i)Ether Dibenzola /h/Anthrancene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 1,2-Diphenyltylazine Fluoranthene Fluoranthene Fluoranthene Hexachiorobutadiene Hexachiorobutadiene Hexachiorobutadiene Indeno(1,2,3-cd)Pyrene				6.593 NIA 91 17 NIA 95 0.1 NIA NIA NIA NIA 6,000 NIIA NIA 160 150 NIA	6.69 NIA 91.0 17.0 NIA 17.0 NIA 17.0 NIA 18.0 0.1 NIA NIA 6.000 NIA NIA 160 0.0 150 0.0 150 0.0 10 10 10 10 10 10 10 10 10 10 10 10 10	42.2 NIA 574 107 NIA 37,2 0.63 NIA NIA NIA 37,854 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Arthracene Benzioline Bisi2-Chioroethylicher 1,2-Dichiorobenzene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,2-Dinteriotoliuene 2,6-Dintrotoliuene 2,6-Dintrotoliuene 1,2-Diphenylhydrazine Fluoranthene Hexachiorobutadiene Hexachiorobutadiene Hexachiorocyclopertadiene Hexachiorocyclopertadiene Indeno(1,2,3-cd)/Pyrene Isophorone	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			6.693 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA NIA 16,000 15 NIA NIA NIA 160 69 150 NIA NIA 160 69 150 NIA NIA 160 150 NIA 160 160 160 160 160 160 160 160 160 160	6.69 NIA 91.0 17.0 NIA 17.0 NIA 59.0 0.1 NIA NIA NIA 6.000 NIA 910 54.0 NIA NIA NIA 160 69.0 NIA NIA 160 69.0 NIA NIA 160 09.0 1.0 3.0 40.0 3.0 40.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA 37,854 5,741 341 421 NIA NIA NIA NIA 1,009 435 946 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Anthracene Benzola)Anthracene Benzola)Anthracene Benzola)Pyrene 3,4-Benzofuoranthene Benzolk)Fluoranthene Bis(2-Chioroisopropy/i)Ether Bis(2-Chioroisopropy/i)Ether Bis(2-Chioroisopropy/i)Ether Bis(2-Ethylnexy)Phthalate 4-Bromopheny Phenyl Ether Bis(3-Ethylnexy)Phthalate 2-Chioroisopropy/i)Ether Bis(3-Ethylnexy)Phthalate 2-Chioroisopropy/i)Ether Bis(3-Ethylnexy)Phthalate 2-Chioroisopropy/i)Ether Bis(3-Ethylnexy)Phthalate 2-Chioroisopropy/i)Ether Dibenzola /h/Anthrancene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 1,2-Diphenyltylazine Fluoranthene Fluoranthene Fluoranthene Hexachiorobutadiene Hexachiorobutadiene Hexachiorobutadiene Indeno(1,2,3-cd)Pyrene				6.593 NIA 91 17 NIA 95 0.1 NIA NIA NIA NIA 6,000 NIIA NIA 160 150 NIA	6.69 NIA 91.0 17.0 NIA 17.0 NIA 17.0 NIA 18.0 0.1 NIA NIA 6.000 NIA NIA 160 0.0 150 0.0 150 0.0 10 10 10 10 10 10 10 10 10 10 10 10 10	42.2 NIA 574 107 NIA 37,2 0.63 NIA NIA NIA 37,854 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Arthracene Benzioline Bisi2-Chioroethylicher 1,2-Dichiorobenzene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,2-Dinteriotoliuene 2,6-Dintrotoliuene 2,6-Dintrotoliuene 1,2-Diphenylhydrazine Fluoranthene Hexachiorobutadiene Hexachiorobutadiene Hexachiorocyclopertadiene Hexachiorocyclopertadiene Indeno(1,2,3-cd)/Pyrene Isophorone				6.693 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA NIA 16,000 15 NIA NIA NIA 160 69 150 NIA NIA 160 69 150 NIA NIA 160 150 NIA 160 160 160 160 160 160 160 160 160 160	6.69 NIA 91.0 17.0 NIA 17.0 NIA 59.0 0.1 NIA NIA NIA 6.000 NIA 910 54.0 NIA NIA NIA 160 69.0 NIA NIA 160 69.0 NIA NIA 160 09.0 1.0 3.0 40.0 3.0 40.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA 37,854 5,741 341 421 NIA NIA NIA NIA 1,009 435 946 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Anthracene Benzolai/Anthracene Benzolai/Pyrene 3,4-Benzofuorathene Benzolki/Fluoranthene Bis/2-Chioroisopropy/(Ether Bis/2-Chioroisopropy/(Ether Bis/2-Chioroisopropy/(Ether Bis/2-Ethylhexy/(Phthalate 4-Bromopheny/ Pheny/ Ether Bis/2-Ethylhexy/(Phthalate 2-Chioroisopropy/(Ether Bis/2-Ethylhexy/(Phthalate 2-Chioroisopropy/(Ether Bis/2-Ethylhexy/(Phthalate 2-Chioroisopropy/(Ether Bis/2-Ethylhexy/(Phthalate 2-Chioroisopropy/(Ether Bis/2-Ethylhexy/(Phthalate 2-Chioroisopropy/(Phthalate 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 1,2-Dipheny/flydrazine Fluoranthene Fluoranthene Fluoranthene Hexachiorobutadiene Hexachiorobutadiene Hexachiorobutadiene Indeno(1,2,3-cd/Pyrene Isophorone Naphthalane Nitrobenzene				6.693 NIA 91 17 NIA 95 0.1 NIA NIA NIA NIA 6,000 NIIA 910 54 35 NIA NIA NIA NIA 05 00 01 01 01 01 01 01 01 01 01 01 01 01	6.69 NIA 91.0 17.0 NIA 17.0 NIA 17.0 NIA NIA NIA 6.000 NIA NIA 910 54.0 35.0 NIA NIA NIA 160 69.0 150 03.0 150 040.0 NIA NIA 800 500 NIA NIA 800 500 NIA 800 800 810 810	42.2 NIA 574 107 NIA 37,2 0.63 NIA NIA NIA NIA 137,854 NIA NIA NIA NIA NIA NIA NIA NIA	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Arthracene Benzioline Bisi2-Chioroethylicher 1,2-Dichiorobenzene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,2-Diphenylhydrazine Fluoranithene Fluoranithene Hexachiorobutadiene Hexachiorobutadiene Hexachiorocyclopertadiene Hexachiorocyclopertadiene Hexachiorocyclopertadiene Indeno(1,2,3-cd/Pyrene Isophorone Naphthalene Nitrobodimethylamine				6.693 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA NIA 16,000 15 NIA NIA NIA 160 69 150 NIA NIA NIA 160 69 150 NIA NIA 160 150 NIA 160 160 160 160 160 160 160 160 160 160	6.69 NIA 91.0 17.0 NIA 17.0 NIA 59.0 0.1 NIA NIA NIA 6.000 NIA 910 54.0 NIA NIA NIA 160 69.0 NIA NIA 160 69.0 NIA NIA 160 09.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA 37,854 5,741 341 1,009 435 NIA NIA NIA 1,009 435 1,212 1,252 1,315 1,252 1,315	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Arthracene Benzolaine 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,2-Diphenylhydrazine Fluorantiene Fluorantiene Fluorantiene Hexachiorobutadiene Hexachiorobutadiene Hexachiorobutadiene Hexachiorobutadiene Hexachiorobutadiene Naphthalene Nitrobodimetropytamine n-Nitrosodimetropytamine				6.693 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA NIA NIA NIA NIA 160 6.000 NIA	6.69 NIA 91.0 17.0 NIA 17.0 NIA 17.0 NIA NIA 18.0 19.0 0.1 NIA NIA NIA 18.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	42.2 NIA 574 107 NIA 37,2 0.63 NIA NIA NIA 1,009 435 NIA NIA NIA NIA 1,009 435 NIA 1,009 435 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	
Pentachiorophenoi Phenoi 2,4,5-Trichiorophenoi Acenaphthene Arithracene Benzolai/Anthracene Benzolai/Pyrene 3,4-Benzofuorathene Benzolai/Pyrene 3,4-Benzofuorathene Benzolki/Fluoranthene Bis/2-Chiorolopropy/(Ether Bis/2-Chiorolopropy/(Ether Bis/2-Ethylhexy/(Phthalate 4-Bromopheny/ Pheny/ Ether Bis/2-Ethylhexy/(Phthalate 2-Chiorolopropy/(Ether Bis/2-Ethylhexy/(Phthalate 2-Chiorolopropy/(Ether Bis/2-Ethylhexy/(Phthalate 2-Chiorolopropy/(Phthalate 2-Chiorolopropy/(Phthalate 2-Chioroloproperape 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dintirotoluene 2,5-Dintirotoluene 2,5-Dintirotoluene 1,2-Diphenyflydrazine Fluoranthene Fluoranthene Hexachiorobutadiene Hexachiorobutadiene Hexachiorobutadiene Hexachiorobutadiene Hexachiorobutadiene Nitrosodi-ne-Propylamine n-Nitrosodi-ne-Propylamine n-Nitrosodi-ne-Propylamine n-Nitrosodi-ne-Propylamine n-Nitrosodi-preylamine n-Nitrosodi-preylamine n-Nitrosodiphenylamine				6.693 NIA 91 17 NIA 99 0.1 NIA NIA NIA NIA NIA NIA 0.000 NIA 150 0.1 NIA NIA NIA 160 0.1 NIA	6.69 NIA 91.0 17.0 NIA 17.0 NIA 17.0 NIA NIA NIA NIA 16.000 NIA NIA NIA 160 69.0 150 150 150 150 150 150 150 150 150 15	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA 1,009 435 946 NIA NIA NIA 1,009 435 946 1,209 1,209 1,209 1,269 1,	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Arthracene Benzioline Bisi2-Chioroethylicher Bisi2-Chioroethylicher Bisi2-Chioroethylicher Bisi2-Chioroethylicher Bisi2-Chioroethylicher Bisi2-Chioroethylicher Bisi2-Chiorosphenylicher Bisi2-Chioroethylicher Bisi2-Chioroethylicher Bisi2-Chioroethylicher 1,2-Dichiorobenzene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,2-Diphenylhydrazine Fluoranthene Fluoranthene Hexachiorobutadiene Hexachiorobutadiene Hexachiorocyclopertadiene Hexachiorocyclopertadiene Hexachiorocyclopertadiene Hexachiorocyclopertadiene Indeno(1,2,3-cd/Pyrene Isophorone Naphthalene Nitrosodimetrylamine n-Nitrosodimetrylamine n-Nitrosodimetrylamine Phenanthrene				6.693 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA NIA NIA 16,000 15 NIA NIA NIA 160 690 150 NIA NIA 160 691 150 NIA NIA 160 150 NIA 160 160 160 160 160 160 160 160 160 160	6.69 NIA 91.0 17.0 NIA 17.0 NIA 17.0 NIA 17.0 NIA NIA 18.0 19.1 NIA NIA 18.0 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA 37,854 5,741 341 1,009 435 NIA NIA NIA 1,009 435 1,212 1,252 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.9	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Arthracene Benzolaine 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene Benzolaine Benzolaine Benzolaine Licheine Lich				6.693 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA NIA NIA NIA 160 6.000 NIA NIA NIA NIA 160 6.9 150 150 150 150 150 150 150 150 150 150	6.69 NIA 91.0 17.0 NIA 17.0 NIA 17.0 NIA NIA 18.0 19.0 0.1 NIA NIA NIA 18.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	42.2 NIA 574 107 NIA 107 NIA 372 0.63 NIA NIA NIA 108 108 109 109 109 109 109 109 109 109 109 109	
Pentachiorophenoi Phenoi 2.4,6-Trichiorophenoi Acenaphthene Arthracene Benzioline Bisi2-Chioroethylicher Bisi2-Chioroethylicher Bisi2-Chioroethylicher Bisi2-Chioroethylicher Bisi2-Chioroethylicher Bisi2-Chioroethylicher Bisi2-Chiorosphenylicher Bisi2-Chioroethylicher Bisi2-Chioroethylicher Bisi2-Chioroethylicher 1,2-Dichiorobenzene 1,2-Dichiorobenzene 1,3-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,4-Dichiorobenzene 1,2-Diphenylhydrazine Fluoranthene Fluoranthene Hexachiorobutadiene Hexachiorobutadiene Hexachiorocyclopertadiene Hexachiorocyclopertadiene Hexachiorocyclopertadiene Hexachiorocyclopertadiene Indeno(1,2,3-cd/Pyrene Isophorone Naphthalene Nitrosodimetrylamine n-Nitrosodimetrylamine n-Nitrosodimetrylamine Phenanthrene				6.693 NIA 91 17 NIA 59 0.1 NIA NIA NIA NIA NIA NIA 16,000 15 NIA NIA NIA 160 690 150 NIA NIA 160 691 150 NIA NIA 160 150 NIA 160 160 160 160 160 160 160 160 160 160	6.69 NIA 91.0 17.0 NIA 17.0 NIA 17.0 NIA 17.0 NIA NIA 18.0 19.1 NIA NIA 18.0 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19	42.2 NIA 574 107 NIA 372 0.63 NIA NIA NIA 37,854 5,741 341 1,009 435 NIA NIA NIA 1,009 435 1,212 1,252 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.9	

☑ THH CO	T (min): 7	20	PMF:	0.376	Anai	ysis Hardne	ss (mg/l):	N/A Analysis pH: N/A
Pollutants	Conc	Stream CV	Trib Conc (µg/L)	Fate Coef	(Mar)	(ha/r)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	500,000	500,000	N/A	
Chloride (PWS)	0	0		0	250,000 250,000	250,000 250,000	N/A	
Sulfate (PWS) Total Aluminum	0	0		ö	N/A	N/A	N/A N/A	
Total Antimony	0	0		0	5.6	5.6	35.3	
Total Arsenic	0	0		0	10	10.0	63.1	
Total Bartum	0	0		0	2,400	2,400	15,142	
Total Boron	0	0		0	3,100	3,100	19,558	
Total Cadmium Total Chromium (III)	0	0		0	N/A N/A	N/A 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	4	4.0	25.2	
Dissolved iron Total iron	0	0		0	300 N/A	300 N/A	1,893 N/A	
Total Lead	Ö	0		Ö	N/A	N/A	N/A	
Total Manganese	0	0		0	1,000	1,000	6,309	
Total Mercury	0	0		0	0.050	0.05	0.32	
Total Nickel	0	0		0	610	610	3,848	
Total Phenois (Phenoics) (PWS)	0	0		0	5 N/A	5.0 N/A	N/A	
Total Selenium Total Silver	0	0		0	N/A N/A	N/A	N/A N/A	
Total Thailium	0	0		0	0.24	0.24	1.51	
Total Zinc	0	0		0	N/A	N/A	N/A	
Acrolein	0	0		0	3	3.0	18.9	
Acrylonitrie	0	0		0	N/A	N/A	N/A	
Benzene Bromoform	0	0		0	N/A N/A	N/A N/A	N/A N/A	
Carbon Tetrachloride	0	0		0	N/A	N/A	N/A	
Chlorobenzene	0	Ö		Ö	100	100.0	631	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
2-Chloroethyl Vlnyl Ether	0	0		0	N/A	N/A	N/A	
Chloroform	0	0		0	N/A	N/A	N/A	
Dichiorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane 1,1-Dichloroethylene	0	0		0	N/A 33	33.0	N/A 208	
1,2-Dichioropropane	0	0		ō	N/A	N/A	N/A	
1,3-Dichloropropylene	0	0		0	N/A	N/A	N/A	
Ethylbenzene	0	0		0	68	68.0	429	
		•						,
Methyl Bromide	0	0		0	100	100.0	631	
Methyl Chloride	0	0		0	N/A	N/A	N/A	
Methylene Chloride 1,1,2,2-Tetrachloroethane	0	0		0	N/A N/A	N/A N/A	N/A N/A	
Tetrachioroethylene	0	0		ŏ	N/A	N/A	N/A	
Toluene	0	0		0	57	57.0	360	
1,2-trans-Dichloroethylene	0	0		0	100	100.0	631	
1,1,1-Trichioroethane	0	0		0	10,000	10,000	63,090	
1,1,2-Trichloroethane	0	0		0	NA	N/A	N/A	
Trichioroethylene Vinyl Chloride	0	0		0	N/A N/A	N/A N/A	N/A N/A	
2-Chlorophenol		0		0	30	30.0	189	
2,4-Dichlorophenol	0	0		ŏ	10	10.0	63.1	
2,4-Dimethylphenol	0	0		0	100	100.0	631	
4,6-Dinitro-o-Cresol	0	0		0	2	2.0	12.6	
2,4-Dinitrophenol	0	0		0	10	10.0	63.1	
2-Ntrophenol 4-Ntrophenol	0	0		0	N/A N/A	N/A N/A	N/A N/A	
p-Chioro-m-Cresol	0	- 0		ŏ	N/A	N/A	N/A	
Pentachiorophenol	0	0		0	NA	N/A	N/A	
Phenoi	0	0		0	4,000	4,000	25,236	
2,4,6-Trichiorophenol	0	0		0	N/A	N/A	N/A	
Acenaphthene	0	0		0	70 300	70.0 300	1,893	
Anthracene Benzidine	0	0		0	N/A	300 N/A	1,893 N/A	
Benzo(a)Anthracene	0	- 0		ŏ	N/A	N/A	N/A	
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0		0	NA	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 Bis(2-Ethylhexyl)Phthalate	0	0		0	200 N/A	200 N/A	1,262 N/A	
4-Bromophenyl Phenyl Ether	0	0		ŏ	N/A	N/A	N/A	
Butyl Benzyl Phthalate	0	0		ŏ	0.1	0.1	0.63	
2-Chloronaphthalene	0	0		0	800	800	5,047	
Chrysene	0	0		0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	0		0	N/A	N/A	N/A 6 200	
1,2-Dichlorobenzene 1,3-Dichlorobenzene	0	0		0	1,000	1,000 7.0	6,309	<u> </u>
1,3-Dichlorobenzene	0	0		0	300	300	1,893	
3,3-Dichlorobenzidine	0	0		ŏ	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	600	600	3,785	
Dimethyl Phthalate	0	0		0	2,000	2,000	12,618	
Di-n-Butyl Phthalate	0	0		0	20	20.0	126	
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	NIA	N/A	N/A	
Fluoranthene Fluorene	0	0		0	20 50	20.0 50.0	126 315	
Hexachiorobenzene	0	0		0	N/A	N/A	N/A	
Hexachiorobutadiene	0	0		ŏ	N/A	N/A	N/A	
Hexachiorocyclopentadiene	0	0		ō	4	4.0	25.2	
Hexachioroethane	0	0		0	N/A	N/A	N/A	
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Isophorone	0	0		0	34	34.0	215	
Naphthalene	0	0		0	N/A	N/A	N/A	
Nitrobenzene	0	0		0	10	10.0	63.1	
n-Nitrosodimethylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodi-n-Propylamine n-Nitrosodiphenylamine	0	0		0	N/A N/A	N/A N/A	N/A N/A	
Phenanthrene	0	0		ö	N/A	N/A	N/A	
Pyrene	0	0		ö	20	20.0	126	
1,2,4-Trichiorobenzene	0	0		ō	0.07	0.07	0.44	
☑ CRL CC	F (min): 72	20	PMF:	0.539	Analy	sis Hardnes	s (mg/l):	N/A Analysis pH: N/A
	opeam				11100	1110 001		
Pollutants	Conc	Stream CV	Trib Conc (µg/L)	Fate Coef	(Ug/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	(ug/L)	0	(pgrt)	0	N/A	N/A	NA	
Chloride (PWS)	0	0		ö	N/A	N/A	N/A	
Sulfate (PWS)	0	0		Ö	N/A	NA	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 Barlum	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) Hexavalent Chromium	0	0		0	N/A N/A	N/A N/A	N/A N/A	
				$\overline{}$			_	
Total Cobalt	0	0		0	N/A N/A	N/A N/A	N/A N/A	
Total Copper Free Cyanide	0	0		ö	N/A	N/A	N/A	
Dissolved Iron	0	0		ō	N/A	NA	N/A	
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	N/A	N/A	N/A	
Total Mercury	0	0		0	N/A	N/A	N/A	
Total Nickel	0	0		0	N/A	N/A	N/A	
Total Phenois (Phenoiles) (PW8)	0	0			N/A		N/A	
				0		N/A		
Total Selenium	0	0		0	N/A	N/A	N/A	
Total Selenium	0	0						
Total Selenium Total Silver	0	0						
				0	N/A	N/A	N/A	
Total Silver Total Thallum Total Zinc	0	0		0	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	
Total Silver Total Thailium Total Zinc Acrolein	0 0	0		0 0	NIA NIA NIA NIA	N/A N/A N/A N/A	N/A N/A N/A N/A	
Total Sliver Total Thallium Total Zinc Acrolein Acrylonitrie	0 0 0	0 0 0		0	NIA NIA NIA NIA NIA	N/A N/A N/A N/A 0.06	N/A N/A N/A N/A 1.73	
Total Silver Total Thallum Total Zinc Acrolein Acrylonitrile Benzene	0	0 0 0		0	NIA NIA NIA NIA	N/A N/A N/A N/A 0.06 0.58	N/A N/A N/A N/A N/A 1.73 16.7	
Total Silver Total Thailium Total Zinc Acrolein Acryloibrile Benzene Bromoform	0 0 0 0 0 0 0	0 0 0		0	N/A N/A N/A N/A N/A 0.06 0.58 7	N/A N/A N/A N/A N/A 0.06 0.58 7.0	N/A N/A N/A N/A 1.73 16.7 202	
Total Sliver Total Thailium Total Zinc Acrolein Acrylonitrie Benzene Bromoform Carbon Tetrachloride	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 0.06 0.58 7	N/A N/A N/A N/A N/A 0.06 0.58 7.0	N/A N/A N/A N/A N/A 1.73 16.7 202 11.5	
Total Silver Total Thaillum Total Zinc Acrolein Acrylonitrie Benzene Bromoform Carbon Tetrachloride Chilorobenzene	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 0 0 0 0 0 0 0 0		0	N/A N/A N/A N/A N/A 0.06 0.58 7	N/A N/A N/A N/A N/A 0.06 0.58 7.0	N/A N/A N/A N/A 1.73 16.7 202	
Total Sliver Total Thailium Total Zinc Acrolein Acrylonitrie Benzene Bromoform Carbon Tetrachloride	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 0.06 0.58 7 0.4 N/A	N/A N/A N/A N/A N/A 0.06 0.58 7.0 0.4 N/A	N/A N/A N/A N/A N/A 1.73 16.7 202 11.5 N/A	
Total Sliver Total Thailium Total Zinc Acrolein Acrylonitrie Benzene Bromoforn Carbon Tetrachionide Chlorodipromomethane Chlorodipromomethane	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 0 0 0 0 0 0 0 0 0	N/A N/A N/A N/A N/A N/A 0.06 0.58 7 0.4 N/A 0.8	N/A N/A N/A N/A N/A 0.06 0.58 7.0 0.4 N/A 0.8	N/A N/A N/A N/A 1.73 16.7 202 11.5 N/A 23.1	
Total Sliver Total Thalilum Total Zinc Acrolein Acrylonibrile Benzene Bromoform Carbon Tetrachloride Chlorotheruzene Chlorothoromethane 2-Chlorotery Vinyl Etner	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 0 0 0 0 0 0 0 0 0	NIA NIA NIA NIA NIA 0.06 0.58 7 0.4 NIA 0.8 NIA	N/A N/A N/A N/A N/A 0.06 0.58 7.0 0.4 N/A 0.8 N/A	N/A N/A N/A N/A N/A 1.73 16.7 202 11.5 N/A 23.1 N/A	
Total Silver Total Thallium Total Zinc Acrolein Acrylonibrie Benzene Bromoform Carbon Tetrachloride Chlorobenzene Chlorodbromomethane 2-Chloroethyl Vinyl Ether Chloroform Dichlorobromethane 1,2-Oschloroethane	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 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	NIA NIA NIA NIA NIA 0.06 0.58 7 0.4 NIA 0.8 NIA 0.8 NIA 0.9 0.9 0.9	N/A N/A N/A N/A N/A 0.06 0.58 7.0 0.4 N/A 0.8 N/A 0.8 N/A 0.9 5.7 0.9 9.9	N/A N/A N/A N/A N/A N/A 1.73 16.7 202 11.5 N/A 23.1 N/A 27.4 286	
Total Silver Total Thailium Total Zinc Acrolein Acrylonitrie Benzene Bromoform Carbon Tetrachloride Chlorotheruzene Chiorotheruzene Chiorotheruzene Chiorotheruzene Chiorotheruzene Chiorotheruzene Chiorotheruzene Chiorotheruzene 1,2-Oichlorothane 1,2-Oichlorothane 1,1-Oichlorothylene	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 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	NIA NIA NIA NIA NIA 0.06 0.58 7 0.4 NIA 0.8 NIA 0.8	N/A N/A N/A N/A N/A 0.06 0.58 7.0 0.4 N/A 0.8 N/A 0.8 N/A 0.9 0.9 N/A	N/A N/A N/A N/A N/A N/A N/A N/A 1.73 16.7 202 11.5 N/A 1.64 27.4 286 N/A	
Total Sliver Total Thalium Total Zinc Acrolein Acrylonitrie Benzene Bromoform Carbon Tetrachionide Chloroberizene Chlorodipromomethane 2-Chloroethyl Vinyl Ether Chloroform Dichlorobromomethane 1,2-Olichloroethyane 1,1-Olichloroethyane 1,2-Olichloropropane	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 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	NIA NIA NIA NIA NIA 0.06 0.59 7 0.4 NIA 0.8 NIA 0.95 9.9 NIA	N/A N/A N/A N/A N/A 0.06 0.58 7.0 0.4 N/A N/A 0.8 N/A 0.8 N/A 0.9 0.9	N/A N/A N/A N/A N/A 1.73 202 11.5 N/A 23.1 N/A 23.1 N/A 27.4 286 N/A 26.0	
Total Sliver Total Thailium Total Zinc Acrolein Acrylonitrie Benzene Bromoform Carbon Tetrachloride Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene 1,2-Dichloroethyl Vinyl Ether Chloroform Dichlorobromomethane 1,2-Dichloroethylene 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropylene	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 0 0 0 0 0 0 0 0			NIA NIA NIA NIA NIA 0.06 0.58 7 0.4 NIA 0.8 NIA 5.7 0.95 9.9 NIA 0.95	NIA NIA NIA NIA NIA 0.06 0.58 0.70 0.4 NIA 0.8 NIA 0.95 NIA 0.95 0.95 0.95	N/A N/A N/A N/A N/A N/A N/A 1.73 16.7 202 11.5 N/A 23.1 N/A 22.1 N/A 25.6 N/A 25.6 N/A 25.7 25.6 N/A 27.79	
Total Silver Total Thailium Total Zinc Acrolein Acrylonitrile Benzene Bromoform Carbon Tetrachloride Chlorobenzene Chlorodibromomethane 2-Chloroform Dichlorobromomethane 1,2-Oichlorosthane 1,2-Oichlorosthane 1,2-Oichlorosthane 1,2-Oichloropropane 1,3-Dichloropropane 1,3-Dichloroprope	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				NIA NIA NIA NIA NIA 0.05 7 0.4 NIA 0.8 NIA 0.9 0.9 NIA 0.9 0.9 NIA 0.9	N/A N/A N/A N/A N/A 0.06 0.58 7.0 0.4 N/A N/A 0.9 0.95 N/A 0.9 0.9	N/A N/A N/A N/A N/A N/A N/A 1.73 202 11.5 N/A 23.1 N/A 27.4 286 N/A 26.0 7.79 N/A	
Total Silver Total Thailium Total Zinc Acrolein Acryonitrie Berozform Carbon Tetrachionide Chlorobenzene Chlorobromomethane 2-Chloroethyl Vinyl Ether Chlorobromomethane 1,2-Oichloroethyne 1,2-Oichloroethyne 1,2-Oichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropa	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				NIA NIA NIA NIA NIA 0.06 0.58 7 0.4 NIA 0.8 NIA 0.9 9.9 9.9 NIA 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	NIA NIA NIA NIA NIA 0.05 7.0 0.4 NIA 0.8 NIA 0.9 S.7 0.95 9.9 NIA 0.9 0.9	N/A N/A N/A N/A N/A 1.73 202 11.5 N/A 23.1 N/A 23.1 N/A 27.4 286 N/A 26.0 7.79 N/A N/A	
Total Sliver Total Thailium Total Zinc Acrolein Acrylonitrie Benzene Bromoforn Carbon Tetrachloride Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,3-Olichloropenomethane 1,3-Olichloropenomethane Methyl Bromide Methyl Gromide	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				NIA NIA NIA NIA NIA 0.06 0.58 7 0.4 NIA 0.8 NIA 5.7 0.95 9.9 NIA 0.27 NIA NIA	NIA NIA NIA NIA NIA 0.06 0.58 7.0 0.4 NIA NIA 5.7 0.95 9.9 NIA 0.27 NIA NIA NIA	N/A N/A N/A N/A N/A N/A N/A 1.73 16.7 202 11.5 N/A 23.1 N/A 22.1 N/A 26.0 7.79 N/A N/A N/A N/A N/A	
Total Silver Total Thailium Total Zinc Acrolein Acrylonitrie Benzene Bromoform Carbon Tetrachloride Chlorotenzene Chlorotenyi Vinyi Etner Chlorotenyi Etner Dichloropropiane 1,3-Dichloropropiane 1,3-Dichloropropiane Etnyibenzene Metnyi Bromide Metnyi Chloride Metnyi Chloride	0 0 0 0 0 0 0 0 0 0 0 0 0				NIA NIA NIA NIA NIA 0.058 7 0.4 NIA 0.8 NIA 0.9 0.9 0.9 NIA 0.9 0.9 NIA 0.9	N/A N/A N/A N/A N/A N/A N/A 0.06 7.0 0.4 N/A 0.8 N/A 0.9 N/A 0.9 0.9 N/A 0.9 0.9 N/A 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	N/A N/A N/A N/A N/A N/A N/A 1.73 202 11.5 N/A 23.1 N/A 27.4 286 N/A 26.0 7.79 N/A	
Total Silver Total Thailium Total Zinc Acrolein Acryonitrie Benzene Bromoform Carbon Tetrachionide Chlorobenzene Chlorodbromomethane 2-Chloroethyl Vinyl Ether Chloroform Dichlorobromomethane 1,2-Oichloroethyane 1,2-Oichloropropane 1,3-Dichloropropane Ethylbenzene Metnyl Bromide Metnyl Sromide Metnyl Sromide Metnyl Chloride 1,1,2,2-Tetrachloroethane	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				NIA NIA NIA NIA NIA 0.06 0.58 7 0.4 NIA 0.8 NIA 5.7 0.95 9.9 NIA 0.27 NIA NIA	NIA NIA NIA NIA NIA 0.06 0.58 7.0 0.4 NIA NIA 5.7 0.95 9.9 NIA 0.27 NIA NIA NIA	N/A N/A N/A N/A N/A N/A N/A 1.73 16.7 202 11.5 N/A 23.1 N/A 22.1 N/A 26.0 7.79 N/A N/A N/A N/A N/A	
Total Silver Total Thailium Total Zinc Acrolein Acrylonitrie Benzene Bromoform Carbon Tetrachloride Chlorotenzene Chlorotenyi Vinyi Etner Chlorotenyi Etner Dichloropropiane 1,3-Dichloropropiane 1,3-Dichloropropiane Etnyibenzene Metnyi Bromide Metnyi Chloride Metnyi Chloride	0 0 0 0 0 0 0 0 0 0 0 0 0 0				NIA NIA NIA NIA NIA 0.05 7 0.4 NIA 0.8 NIA 0.9 9.9 9.9 NIA 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	NIA NIA NIA NIA NIA 0.05 7.0 0.4 NIA 0.8 NIA 0.9 9.9 0.9 0.27 NIA 0.9 0.9	N/A N/A N/A N/A N/A N/A 1.73 16.7 202 11.5 N/A 23.1 N/A 23.1 N/A 27.4 286 N/A 26.0 7.79 N/A	
Total Silver Total Thailium Total Zinc Acrolein Acrylonitrie Benzene Bromoforn Carbon Tetrachloride Chlorobenzene Chlorobenzene Chlorobenzene Chlorobenzene 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,2-Olichloropenomethane 1,3-Olichloropenomethane Ethylbenzene Methyl Bromide Methyl Chloride Methyl Chloride Methylene Chloride 1,1,2-Tetrachloropethylene Tetrachloropethylene	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				NIA NIA NIA NIA NIA 0.06 0.58 7 0.4 NIA 0.8 NIA 5.7 0.95 9.9 NIA 0.27 NIA NIA 0.27 NIA NIA	NIA NIA NIA NIA NIA 0.05 0.58 7.0 0.4 NIA 0.8 NIA 0.95 9.9 NIA 0.27 NIA NIA NIA 0.27 NIA NIA 0.27 NIA 0.27 NIA	N/A N/A N/A N/A N/A N/A N/A 1.73 16.7 202 11.5 N/A 23.1 N/A 23.1 N/A 25.4 256 N/A 26.0 7.79 N/A N/A N/A N/A S577 288	
Total Silver Total Thalilum Total Zinc Acrolein Acrylonitrile Benzene Bromdrom Carbon Tetrachloride Chlorobenzene Chlorodibromomethane 2-Chloroderny Dichlorobromomethane 1,2-Oichloroethylene 1,2-Oichloroethylene 1,2-Oichloropropiene Ethylbenzene Methyl Bromide Methyl Bromide Methyl Bromide Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethylene Toluene	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 0 0 0 0 0 0 0			NIA NIA NIA NIA NIA 0.06 0.58 7 0.4 NIA 0.8 NIA 5.7 0.95 9.9 NIA 0.27 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	NIA NIA NIA NIA NIA 0.05 0.58 7.0 0.4 NIA 0.8 NIA 0.95 9.9 NIA 0.27 NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	N/A N/A N/A N/A N/A N/A N/A 1.73 202 11.5 N/A 23.1 N/A 27.4 286 N/A 26.0 7.79 N/A	
Total Silver Total Thailium Total Zinc Acrolein Acryonitrie Benzene Bromoform Carbon Tetrachionide Chlorobenzene Chlorodiromomethane 2-Chloroethyl Vinyl Ether Chloroform Dichlorobromomethane 1,2-Oichloroethynene 1,2-Oichloropropane 1,3-Dichloropropane Ethylbenzene Metnyl Bromide Metnyl Sromide Metnyl Sromide Metnyl Chloride 1,1,2,2-Tetrachloroethylene Tetrachloroethylene Toluene Toluene 1,2-trans-Dichloroethylene	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 0 0 0 0 0 0 0			NIA NIA NIA NIA NIA 0.05 0.58 7 0.4 NIA 0.8 NIA 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	N/A N/A N/A N/A N/A N/A 0.06 7.0 0.4 N/A 0.8 N/A 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.	N/A N/A N/A N/A N/A N/A N/A 1.73 16.7 202 11.5 N/A 23.1 N/A 23.1 N/A 25.7 26.0 7.79 N/A	
Total Silver Total Thailium Total Zinc Acrolein Acrylonitrie Benzene Bromoform Carbon Tetrachionide Chlorobenzene Chlorobenzene Chlorothyr Vinyl Ether Chlorothyr Vinyl Ether Chlorothyrene 1,2-Olchloroethyrene 1,2-Olchloropropoylene Ethyloenzene Metnyl Bromide Metnyl Storide Methyl Chloride 1,1,2,2-Tetrachioroethyrene Toluene Toluene 1,1,1-Trifichloroethyrene 1,1,1-Trifichloroethyrene 1,1,1-Trifichloroethyrene 1,1,2-Trichloroethyrene Toluene 1,1,1-Trifichloroethyrene 1,1,2-Trichloroethyrene Titchloroethyrene Titchloroethyrene Titchloroethyrene Titchloroethyrene Titchloroethyrene	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				NIA NIA NIA NIA NIA NIA NIA 0.06 7 0.4 NIA 0.8 NIA 0.8 NIA 0.95 9.9 NIA 0.9 0.9 0.7 0.10 NIA	NIA	N/A N/A N/A N/A N/A N/A 1.73 16.7 202 11.5 N/A 23.1 N/A 23.1 N/A 25.7 286 N/A N/A N/A N/A N/A N/A N/A N/	
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Total Silver Total Thailium Total Zinc Acrolein Acrylonitrie Benzene Bromoform Carbon Tetrachioride Chloroberizene Chloroberizene Chlorodiromomethane 2-Chloroethyl Vinyl Ether Chloroethyl Vinyl Ether Chloroethyl Pichioropropomethane 1,2-Olichloroethylene 1,2-Olichloroethylene 1,2-Olichloropropome Ethyloenzene Methyl Chloride Methyl Chloride Methyl Chloride Methyl Chloride 1,2,2-Tetrachloroethane Tetrachloroethylene 1,2-Trinchloroethane 1,1,2-Trichloroethylene 1,1,1-Trichloroethane 1,1,2-Trichloroethylene 1,1,1-Trichloroethylene 1,1,1-Trichloroethylene 1,1,1-Trichloroethylene 1,1,1-Trichloroethylene 1,1,1-Trichloroethylene 1,1,1-Trichloroethylene 1,1,1-Trichloroethylene 1,1,1-Trichloroethylene Vinyl Chloride 2-Chlorophenol 2,4-Olinthrophenol 2,4-Olinthrophenol 2,4-Olinthrophenol 2-Nitrophenol Pentachlorophenol Pentachlorophenol Pentachlorophenol					NIA NIA NIA NIA NIA NIA O.05 7 0.4 NIA O.05 0.9 0.9 0.9 0.9 0.9 0.9 0.9	NIA NIA NIA NIA NIA NIA 0.05 7.0 0.4 NIA 0.8 NIA 0.9 0.9 0.2 10.0 NIA NIA NIA NIA NIA NIA NIA NI	N/A N/A N/A N/A N/A N/A 1.73 16.7 202 11.5 N/A 23.1 N/A 15.4 27.4 286 N/A 164 27.7 286 N/A N/A N/A N/A N/A N/A N/A N/	

3,4-Benzofluoranthene Benzo(k)Fluoranthene Bis(2-Chioroethyl)Ether	0	0	0	0.001	0.001	0.029	
Bis(2-Chloroethyl)Ether	0						
	_	_	0	0.01	0.01	0.29	
	0	0	0	0.03	0.03	0.87	
Bis(2-Chloroisopropyl)Ether	0	0	0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0	0	0.32	0.32	9.23	
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	0.12	0.12	3.46	
Dibenzo(a,h)Anthrancene	0	0	0	0.0001	0.0001	0.003	
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	0.05	0.05	1.44	
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	1.44	
2,6-Dinitrotoluene	0	0	0	0.05	0.05	1.44	
1,2-Diphenylhydrazine	0	0	0	0.03	0.03	0.87	
Fluoranthene	0	0	0	N/A	N/A	N/A	
Fluorene	0	0	0	N/A	N/A	N/A	
Hexachlorobenzene	0	0	0	0.00008	0.00008	0.002	
Hexachiorobutadiene	0	0	0	0.01	0.01	0.29	
Hexachiorocyclopentadiene	0	0	0	N/A	N/A	N/A	
Hexachloroethane	0	0	0	0.1	0.1	2.88	
Indeno(1,2,3-cd)Pyrene	0	0	0	0.001	0.001	0.029	
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-Ntrosodimethylamine	0	0	0	0.0007	0.0007	0.02	
n-Nitrosodi-n-Propylamine	0	0	0	0.005	0.005	0.14	
n-Nitrosodiphenylamine	0	0	0	3.3	3.3	95.2	
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. 8amples/Month: 4

	Mass	Limits	Concentration Limits						
Pollutants	AML (lbs/day)	MDL (lbs/day)	AML	MDL	IMAX	Units	Governing WQBEL	WQBEL Basis	Comments
Total Aluminum	Report	Report	Report	Report	Report	μg/L	849	AFC	Discharge Conc > 10% WQBEL (no RP)
Total Arsenic	Report	Report	Report	Report	Report	µg/L	63.1	THH	Discharge Conc > 10% WQBEL (no RP)
Total Boron	Report	Report	Report	Report	Report	μg/L	9,170	AFC	Discharge Conc > 10% WQBEL (no RP)
Total Copper	Report	Report	Report	Report	Report	µg/L	41.9	AFC	Discharge Conc > 10% WQBEL (no RP)
Free Cyanide	2.67	4.16	24.9	38.9	62.3	µg/L	24.9	AFC	Discharge Conc ≥ 50% WQBEL (RP)
Total Manganese	Report	Report	Report	Report	Report	μg/L	6,309	THH	Discharge Conc > 10% WQBEL (no RP)
Total Selenium	3.37	5.26	31.5	49.1	78.7	µg/L	31.5	CFC	Discharge Conc ≥ 50% WQBEL (RP)
Total Zinc	34.8	54.4	325	507	813	µg/L	325	AFC	Discharge Conc ≥ 50% WQBEL (RP)
Bromoform	Report	Report	Report	Report	Report	μg/L	202	CRL	Discharge Conc > 25% WQBEL (no RP)
Chlorodibromomethane	2.47	3.86	23.1	36.0	57.7	μg/L	23.1	CRL	Discharge Conc ≥ 50% WQBEL (RP)

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)	N/A	N/A	PW8 Not Applicable
Chloride (PWS)	N/A	N/A	PW8 Not Applicable
Bromide	N/A	N/A	No WQS
Sulfate (PWS)	N/A	N/A	PWS Not Applicable
Total Antimony	35.3	µg/L	Discharge Conc s 10% WQBEL
Total Barlum	15,142	µg/L	Discharge Conc s 10% WQBEL
Total Beryllium	N/A	N/A	No WQS
Total Cadmium	N/A	N/A	Discharge Conc < TQL
Total Chromium (III)	760	μg/L	Discharge Conc s 10% WQBEL
Hexavalent Chromium	18.4	µg/L.	Discharge Conc < TQL
Total Cobalt	108	μg/L	Discharge Conc ≤ 10% WQBEL
Total Cyanide	N/A	N/A	No WQS
Dissolved Iron	1,893	µg/L	Discharge Conc ≤ 10% WQBEL
Total Iron	22,703	µg/L	Discharge Conc s 10% WQBEL
Total Lead	33.8	μg/L	Discharge Conc < TQL
Total Mercury	0.32	μg/L	Discharge Conc < TQL
Total Nickel	465	µg/L	Discharge Conc s 10% WQBEL
Total Phenois (Phenoiles) (PWS)		μgL	PWS Not Applicable
Total Silver	25.3	μg/L	Discharge Conc < TQL
Total Thallum	1.51	μgL	Discharge Conc < TQL
Total Molybdenum	N/A	N/A	No WQS
Acrolein	3.4	μgL	Discharge Conc < TQL
Acrylonitrile	1.73	μg/L	Discharge Conc < TQL
Benzene	16.7	μgL	Discharge Conc < TQL
Carbon Tetrachloride	11.5	μgL	Discharge Conc < TQL
Chlorobenzene	631	μgL	Discharge Conc < TQL
Chloroethane	N/A	N/A	No WQS
2-Chloroethyl Vinyl Ether	20,378	μgL	Discharge Conc < TQL
Chloroform	164	μgL	Discharge Conc s 25% WQBEL

Dichlorobromomethane	27.4	μgL	Discharge Conc s 25% WQBEL
1.1-Dichloroethane	N/A	N/A	No WQS
1,2-Dichloroethane	286	μgL	Discharge Conc < TQL
1,1-Dichloroethylene	208	μgL	Discharge Conc < TQL
1,2-Dichioropropane	26.0	ugL	Discharge Conc < TQL
1,3-Dichioropropylene	7.79	µg/L	Discharge Conc < TQL
1,4-Dioxane	N/A	N/A	No WQS
Ethylbenzene	429	ugL	Discharge Conc < TQL
Methyl Bromide	623	μgL	Discharge Conc < TQL
Methyl Chloride	31,699	µg/L	Discharge Conc < TQL
Methylene Chloride	577	μg/L	Discharge Conc < TQL
1,1,2,2-Tetrachioroethane	5.77	ugL	Discharge Conc < TQL
Tetrachloroethylene	288	μgL	Discharge Conc < TQL
Toluene	360	µg/L	Discharge Conc < TQL
1,2-trans-Dichloroethylene	631	µg/L	Discharge Conc < TQL
1,1,1-Trichioroethane	3,396	ugL	Discharge Conc < TQL
1.1.2-Trichioroethane	15.9	μgL	Discharge Conc < TQL
Trichioroethylene	17.3	ugL	Discharge Conc < TQL
Vinyl Chloride	0.58	ugL	Discharge Conc < TQL
2-Chlorophenol	189	μgL	Discharge Conc < TQL
2.4-Dichlorophenol	63.1	μgL	Discharge Conc < TQL
2,4-Dimethylphenol	631	µg/L	Discharge Conc < TQL
4,6-Dinitro-o-Cresol	12.6	μgL	Discharge Conc < TQL
2,4-Dinitrophenol	63.1	μgL	Discharge Conc < TQL
2-Ntrophenol	9,057	µg/L	Discharge Conc < TQL
4-Nitrophenol	2,604	µg/L	Discharge Conc < TQL
p-Chloro-m-Cresol	181	µg/L	Discharge Conc < TQL
Pentachiorophenol	0.87	μgL	Discharge Conc < TQL
Phenoi	25,236	µg/L	Discharge Conc < TQL
2.4.6-Trichiorophenol	43.3	µg/L	Discharge Conc < TQL
Acenaphthene	94.0	ugt	Discharge Conc < TQL
Acenaphthylene	N/A	N/A	No WQS
Anthracene	1,893	μg/L	Discharge Conc < TQL
Benzidine	0.003	μgL	Discharge Conc < TQL
Benzo(a)Anthracene	0.029	ugt	Discharge Conc < TQL
Benzo(a)Pyrene	0.003	μgL	Discharge Conc < TQL
3,4-Benzofluoranthene	0.029	ugL	Discharge Conc < TQL
Benzo(ghl)Perylene	N/A	N/A	No WQS
Benzo(k)Fluoranthene	0.29	ug/L	Discharge Conc < TQL
Bis(2-Chioroethoxy)Methane	N/A	N/A	No WQS
Bis(2-Chloroethyl)Ether	0.87	μgL	Discharge Conc < TQL
Bis(2-Chioroisopropyl)Ether	1,262	ug/L	Discharge Conc < TQL
Bis(2-Ethylhexyl)Phthalate	9.23	ugL	Discharge Conc < TQL
4-Bromophenyl Phenyl Ether	306	ug/L	Discharge Conc < TQL
Butyl Benzyl Phthalate	0.63	µgL.	Discharge Conc < TQL

2-Chloronaphthalene	5,047	μgL	Discharge Conc < TQL
4-Chlorophenyl Phenyl Ether	N/A	N/A	No WQS
Chrysene	3.46	µg/L	Discharge Conc < TQL
Dibenzo(a,h)Anthrancene	0.003	µg/L	Discharge Conc < TQL
1,2-Dichlorobenzene	928	µg/L	Discharge Conc < TQL
1,3-Dichlorobenzene	44.2	µg/L	Discharge Conc < TQL
1,4-Dichlorobenzene	826	µg/L	Discharge Conc ≤ 25% WQBEL
3,3-Dichlorobenzidine	1.44	µg/L	Discharge Conc < TQL
Diethyl Phthalate	3,785	µg/L	Discharge Conc < TQL
Dimethyl Phthalate	2,830	µg/L	Discharge Conc < TQL
Di-n-Butyl Phthalate	125	µg/L	Discharge Conc < TQL
2,4-Dinitrotoluene	1.44	µg/L	Discharge Conc < TQL
2,6-Dinitrotoluene	1.44	µg/L	Discharge Conc < TQL
Di-n-Octyl Phthalate	N/A	N/A	No WQS
1,2-Diphenylhydrazine	0.87	µg/L	Discharge Conc < TQL
Fluoranthene	126	µg/L	Discharge Conc < TQL
Fluorene	315	µg/L	Discharge Conc < TQL
Hexachlorobenzene	0.002	µg/L	Discharge Conc < TQL
Hexachiorobutadiene	0.29	µg/L	Discharge Conc < TQL
Hexachiorocyclopentadiene	5.66	µg/L	Discharge Conc < TQL
Hexachloroethane	2.88	µg/L	Discharge Conc < TQL
Indeno(1,2,3-cd)Pyrene	0.029	µg/L	Discharge Conc < TQL
Isophorone	215	µg/L	Discharge Conc < TQL
Naphthalene	158	µg/L	Discharge Conc < TQL
Nitrobenzene	63.1	µg/L	Discharge Conc < TQL
n-Nitrosodimethylamine	0.02	µg/L	Discharge Conc < TQL
n-Nitrosodi-n-Propylamine	0.14	μgL	Discharge Conc < TQL
n-Nitrosodiphenylamine	95.2	μgL	Discharge Conc < TQL
Phenanthrene	5.66	μgL	Discharge Conc < TQL
Pyrene	126	µg/L	Discharge Conc < TQL
1,2,4-Trichlorobenzene	0.44	μgL	Discharge Conc < TQL

Attachment B WQM Model

WQM 7.0 Effluent Limits

	SWP Basin Str	ream Code 833		Stream Nam SCHUYLKILL RI	-		
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)		Effi. Limit Minimum (mg/L)
52.450	Pottstown STP	PA0026786	0.000	CBOD5	20		
				NH3-N	8	16	
				Dissolved Oxygen			5

WQM 7.0 D.O.Simulation

SWP Basin 03F	Stream Code 833		sc	Stream Name CHUYLKILL RIVER	1
RMI	Total Discharge	Flow (mgd) Anal	ysis Temperature (°C) Analysis pH
52.450	12.88	50		20.330	7.000
Reach Width (ft)	Reach De	pth (ft)		Reach WDRatio	Reach Velocity (fps)
298.012	1.16	2		256.373	0.869
Reach CBOD5 (mg/L)	Reach Ko	(1/days)	R	each NH3-N (mg/L	Reach Kn (1/days)
3.19	0.61			0.53	0.718
Reach DO (mg/L)	Reach Kr			Kr Equation	Reach DO Goal (mg/L)
8.029	1.12	5		Tsivoglou	6
Reach Travel Time (day)	5)	Subreach	Resulfs		
0.039	TravTime (days)		NH3-N (mg/L)	D.O. (mg/L)	
	0.004	3.18	0.53	8.02	
	0.008	3.17	0.53	8.00	
	0.012	3.17	0.52	7.99	
	0.015	3.16	0.52	7.98	
	0.019	3.15	0.52	7.96	
	0.023	3.14	0.52	7.95	
	0.027	3.14	0.52	7.94	
	0.031	3.13	0.52	7.92	
	0.035	3.12	0.52	7.91	
	0.039	3.11	0.51	7.90	

WQM 7.0 Hydrodynamic Outputs

	SW	P Basin	Strea	m Code				Stream	Name			
		03F		833			SC	HUYLKII	LL RIVER			
RMI	Stream Flow	PWS With	Net Stream	Disc Analysis	Reach Slope	Depth	Width	W/D Ratio	Velocity	Trav	Analysis Temp	Analysis pH
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ff)		(fps)	Time (days)	(°C)	
Q7-1	0 Flow											
52.450	281.00	0.00	281.00	19.879	0.00028	1.162	298.01	256.37	0.87	0.039	20.33	7.00
Q1-1	0 Flow											
52.450	179.84	0.00	179.84	19.879	0.00028	NA	NA	NA	0.69	0.049	20.50	7.00
Q30-	10 Flow	,										
52.450	382.16	0.00	382.16	19.879	0.00028	NA	NA	NA	1.02	0.033	20.25	7.00

Input Data WQM 7.0

	SWP Basin			Stre	am Name		RMI		vation (ft)	Drainage Area (sq mi)	Slope (ft/ft)		/S Irawal gd)	Apply FC
	03F		833 SCHU	YLKILL R	IVER		52.45	0	115.80	1148.47	0.00000)	0.00	~
					St	ream Data	ı							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth		<u>Tributary</u> p pH	Ter	<u>Strean</u> mp	n pH	
Cond.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)	(*(C)		
Q7-10 Q1-10 Q30-10	0.100	0.00 0.00 0.00	0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.0	00 20	0.00 7	.00	0.00	0.00	
					DI	scharge D)ata						1	
			Name	Per	mit Number	Disc	Permitte Disc Flow (mgd)	Dis Flo	ić Res w Fa	erve Te)isc pH		
		Potts	town STP	PAG	0026786	0.0000	12.8500	12.8	3500 (0.000	25.00	7.00		
					Pa	rameter D)ata							
				Paramete	r Name	Dis Co		rib onc	Stream Conc	Fate Coef				
				didirecto	T T T T T T T T T T T T T T T T T T T	(mg	g/L) (m	g/L)	(mg/L)	(1/days)				
			CBOD5			2	0.00	2.00	0.00	1.50				
			Dissolved	Oxygen			5.00	8.24	0.00	0.00				
			NH3-N				8.00	0.00	0.00	0.70				

Input Data WQM 7.0

	SWP Basii			Stre	am Name		RMI		vation (ft)	Drainage Area (sq mi)	Slop (ft/f	Withd	rawal	Apply FC
	03F		833 SCHU	YLKILL R	IVER		51.9	00	115.00	1150.4	7 0.00	000	0.00	✓
					St	ream Dat	а							
Design	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth		Tributary ip pi	н	<u>Strear</u> Temp	<u>п</u> рн	
Cond.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)		
Q7-10 Q1-10 Q30-10	0.100	0.00 0.00 0.00	0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.0	00 20	0.00	7.00	0.00	0.00	
					D	lacharge (Data						1	
			Name	Per	mit Numbe	Disc	Permitt Disc Flow (mgd	Dis Flo	c Res	erve T ctor	Olsc emp °C)	Disc pH		
		North	Coventry	PAG	025437	0.000	0 2.01	00 2.0	100 (0.000	25.00	7.00		
					P	arameter (Data							
				Paramete	Namo	_		Trib Conc	Stream Conc	Fate Coef				
				aramete	rvaine	(m	g/L) (mg/L)	(mg/L)	(1/days)				
			CBOD5				20.00	2.00	0.00	1.50				
			Dissolved	Oxygen			5.00	8.24	0.00	0.00				
			NH3-N				10.00	0.00	0.00	0.70				

WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	V
WLA Method	EMPR	Use Inputted W/D Ratio	
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	~
D.O. Saturation	90.00%	Use Balanced Technology	V
D.O. Goal	6		

WQM 7.0 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
03F	833	SCHUYLKILL RIVER

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)		Multiple Criterion (mg/L)	Multiple WLA (mg/L)		Critical Reach	Percent Reduction
52.45	0 Pottstown STP	9.33	1	6	9.33		16	0	0
NH3-N	Chronic Allocati	ons							
RMI	Chronic Allocati	ons Baseline Criterion (mg/L)	Baseline WLA (mg/L)		Multiple Criterion (mg/L)	Multiple WLA (mg/L)		Critical Reach	Percent Reduction

Dissolved Oxygen Allocations

		CBC		NH	3-N	Dissolver	1 Oxygen	Critical	Percent
RMI	Discharge Name	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	muluple	Baseline (mg/L)	muluple	Reach	Reduction
52.45	Pottstown STP	20	20	8	8	5	5	0	0

Attachment C TRC Spreadsheet

_				v	L		ч
1	TRC EVALU	JATION					
2	Input appropri	ate values ii	n A3:A9 and D3:D9				
3	281	= Q strea	n (cfs)	0.5	= CV Daily		
4	12.85	= Q disch	arge (MGD)	0.5	= CV Hourly		
5	30	= no. sam	ples	1	= AFC_Parti	al Mix Factor	
6	0.3	= Chlorine	Demand of Stream	1	= CFC_Parti	al Mix Factor	
7	0	= Chlorine	Demand of Discharg	15	= AFC_Crite	ria Compliance Ti	me (min)
8	0.5	= BAT/BP.	J Value	720	= CFC_Crite	ria Compliance Ti	me (min)
9	0	= % Facto	or of Safety (FOS)		=Decay Coe	fficient (K)	
10	Source	Reference	AFC Calculations		Reference	CFC Calculations	
11	TRC	1.3.2.iii	WLA afc =	4.528	1.3.2.iii	WLA cfc = 4.	.407
12	PENTOXSD TRG	5.1a	LTAMULT afc =	0.373	5.1c	LTAMULT cfc = 0.	.581
	PENTOXSD TRG	5.1b	LTA_afc=	1.687	5.1d	LTA_cfc = 2	.562
14							
15	Source		Effluen	t Limit Calcu	ılations		
	PENTOXSD TRG			AML MULT =			
17	PENTOXSD TRG	5.1g		IMIT (mg/l) =		BAT/BPJ	
18			INST MAX L	IMIT (mg/l) =	1.635		
19							
20							
21	UILA -C-	/ 040/s/ h	##EO ##W [/#EO V-1	O-T 040/0	die / Line		
23	WLA afc		*AFC_tc)) + [(AFC_Yc* AFC_Yc*Qs*Xs/Qd)]*(1		_	lC))	
24	LTAMULT afc		N(cvh^2+1))-2.326*LN(cvh				
	LTAMOET allo	**	AMULT afc	2+1) 0.5)			

Attachment D WET Spreadsheet

	MET C	Immani ani	LEvaluation		
WET Summary and Evaluation					
Facility Name	Pottstown STF	-			
Permit No.	PA0026786				
Design Flow (MGD)	12.85				
Q ₇₋₁₀ Flow (cfs)	281				
PMF _a	0.054				
PMF _o	0.539				
	Test Results (Pass/Fail)				
		Test Date	Test Date	Test Date	Test Date
Species	Endpoint	7/18/17	10/6/18	7/26/19	7/17/20
Pimephales	Survival	PASS	PASS	PASS	PASS
	Test Results (Pass/Fail) Test Date Test Date Test Date Test Date				
0	F-4	7/18/17	10/6/18	7/26/19	7/17/20
Species Pimephales	Endpoint Growth	PASS	PASS	PASS	PASS
rimephales	Growth	FASS	FASS	FASS	FASS
	Test Results (Pass/Fail)				
		Test Date	Test Date	Test Date	Test Date
Species	Endpoint	7/18/17	10/6/18	7/26/19	7/17/20
Species Ceriodaphnia	Endpoint Survival	7/18/17 PASS	10/6/18 PASS	7/26/19 PASS	7/17/20 PASS
			PASS	PASS	
		PASS	PASS Test Result	PASS s (Pass/Fail)	PASS
Ceríodaphnia	Survival	PASS Test Date	PASS Test Result Test Date	PASS s (Pass/Fail) Test Date	PASS Test Date
Ceriodaphnia Species	Survival	Test Date 7/18/17	Test Result Test Date 10/6/18	PASS s (Pass/Fail) Test Date 7/28/19	PASS Test Date 7/17/20
Ceríodaphnia	Survival	PASS Test Date	PASS Test Result Test Date	PASS s (Pass/Fail) Test Date	PASS Test Date
Species Ceriodaphnia	Survival Endpoint Reproduction	Test Date 7/18/17	Test Result Test Date 10/6/18	PASS s (Pass/Fail) Test Date 7/28/19	PASS Test Date 7/17/20
Ceriodaphnia Species	Survival Endpoint Reproduction	Test Date 7/18/17	Test Result Test Date 10/6/18	PASS s (Pass/Fail) Test Date 7/28/19	PASS Test Date 7/17/20
Species Ceriodaphnia Reasonable Potentia	Endpoint Reproduction	Test Date 7/18/17	Test Result Test Date 10/6/18	PASS s (Pass/Fail) Test Date 7/28/19	PASS Test Date 7/17/20
Species Ceriodaphnia Reasonable Potentia Permit Recommenda	Endpoint Reproduction	Test Date 7/18/17	Test Result Test Date 10/6/18	PASS s (Pass/Fail) Test Date 7/28/19	PASS Test Date 7/17/20
Species Ceriodaphnia Reasonable Potentia	Endpoint Reproduction ? NO	Test Date 7/18/17	Test Result Test Date 10/6/18	PASS s (Pass/Fail) Test Date 7/28/19	PASS Test Date 7/17/20
Species Ceriodaphnia Reasonable Potentia Permit Recommenda Test Type	Endpoint Reproduction NO tions Chronic 12	Test Date 7/18/17 PASS	Test Result Test Date 10/6/18 PASS	PASS s (Pass/Fail) Test Date 7/28/19	PASS Test Date 7/17/20
Species Ceriodaphnia Reasonable Potentia Permit Recommenda Test Type TIWC	Endpoint Reproduction NO tions Chronic 12	Test Date 7/18/17 PASS	Test Result Test Date 10/6/18 PASS	PASS s (Pass/Fail) Test Date 7/28/19	PASS Test Date 7/17/20
Species Ceriodaphnia Reasonable Potentia Permit Recommenda Test Type TIWC Dilution Series	Endpoint Reproduction Production Chronic 12 3, 6,	Test Date 7/18/17 PASS	Test Result Test Date 10/6/18 PASS	PASS s (Pass/Fail) Test Date 7/28/19	PASS Test Date 7/17/20