

Southwest Regional Office CLEAN WATER PROGRAM

Application Type Renewal
Facility Type Industrial
Major / Minor Major

NPDES PERMIT FACT SHEET INDIVIDUAL INDUSTRIAL WASTE (IW) AND IW STORMWATER

 Application No.
 PA0001562

 APS ID
 982963

 Authorization ID
 1255407

plicant Name	Mon	River Industrial Group, LLC	Facility Name	Allenport Plant
plicant Address	РО В	ox 249 1 Wheeling Pittsburgh Drive	Facility Address	1 Wheeling Pgh Steel Drive
	Allen	oort, PA 15412-0249		Allenport, PA 15412
plicant Contact	Jerry	Honaker	Facility Contact	Jerry Honaker
plicant Phone	(724)	326-8489	Facility Phone	(724) 326-8489
ent ID	29799	98	Site ID	245367
Code	6519		Municipality	Allenport Borough
Description	Lesso	ors of real estate property	County	Washington
e Application Rece	ived	December 17, 2018	EPA Waived?	Yes
e Application Acce	pted	May 02, 2019	If No, Reason	

Summary of Review

Permitting History

Mon River Industrial Group (MRIG), LLC has submitted a Notice Of Intent for a minor individual permit for the Allenport Plant facility located in the Borough of Allenport, Washington County on December 17, 2018. Historically owned by Wheeling-Pittsburgh Steel Corporation, the site was a cold-rolled steel mill with a wastewater treatment plant to treat process wastewater from site operations. All manufacturing operations ceased in 2008. The previous permit expired in 2006. The facility has been re-designated from IW Major to IW Minor without ELG during the current permit renewal process.

Facility Overview

The Allenport plant is situated at 1 Wheeling Pittsburgh Drive, Allenport, PA and is bound to the east by the Monongahela River, to the north and south by neighboring parcels, and to the west by Wheeling Pittsburgh Drive. All manufacturing operations ceased; many of the old buildings and site features still exist and are planned for demolition. The site is presently owned by Mon River Industrial Group (MRIG) and is leased to tenants. The tenants are PVS Steel Services (formerly AMROX), Frac Water Resources, Tidewater Logistics, Matriculated Services, Inc., and Jansens & Dieperink. No additions to the facility are proposed as part of the current renewal process.

The Allenport plant currently has five stormwater outfalls, one internal monitoring point, and two non-process wastewater outfalls. Table 1 displays the details of the outfalls.

Approve	Deny	Signatures	Date
х		/s/ Mahbuba lasmin, Ph.D. / Environmental Engineering Specialist	10/4/2019
х		/s/ Michael E. Fifth / Environmental Engineer Manager	10/7/19

	Summary of Review					
Table 1. Outfall Details						
Outfall/Internal Monitoring Point (IMP)	Types of Discharge	Potential Pollutant(s) and Sources	Control Measures			
001	Stormwater	Stormwater runoff from the AMROX plant and off-site drainage	Route inspection and site cleanup activities			
002	Stormwater and groundwater	Stormwater runoff from IMP 202	Route inspection and site cleanup activities			
202		Stormwater runoff and possibly groundwater from the hotmill basements and the SS-002 annulus which collects stormwater from the site	Wastewater treatment plant			
003	Stormwater	Site and roof runoff from former steel mill facilities	Route inspection and site cleanup activities			
004	Stormwater	Site and roof runoff from former steel mill facilities	Route inspection and site cleanup activities			
005	Stormwater	Site and roof runoff from former steel mill facilities	Route inspection and site cleanup activities			
007	River intake surplus					
010	River intake pump house screen backwash					

River Water Intake Structures

The Allenport plant operates several intake structures that are used to withdraw water from the Monongahela River. The water withdrawn is currently used for the on-site dust control and off-site purposes. The off-site uses are for drilling (fracking) purposes by MRIG customers and separate from MRIG. Frac Water Resources (one of the tenants) withdraws river water from one of the small river intact cells for sale to the oil and gas industry. Operations utilize an 8-inch pump rated at 1380 GPM with 2-MGD daily withdrawal limit. MRIG mentions that in the event that any future onsite uses of withdrawn water were to be cooling water related, they would use less than 25% of withdrawn waters for cooling purposes. Therefore, 316(b) requirements per 40 CFR §125.91 are not applicable to Allenport Plant for the current renewal.

Public Notifications and Zoning Approval

MRIG submitted Act 14 notifications to the Allenport Borough Council, Allenport, PA and Washington County Commissioners, Washington, PA on November 26, 2018. The facility published the newspaper notification on Observer-Reporter for four consecutive weeks: 12/19/2018, 12/26/2018, 01/02/2019, and 01/09/2019.

Conclusion

There is no open violation by Client ID. Permit issuance is recommended.

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*,

Summary of Review

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.

Discharge, Receiving Waters and Water Supply Infor	rmation
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Outfall No. 001, 003, 004, 005	Design Flow (MGD) 0 (varied)
40° 05′ 42″	-79° 50′ 31"
40° 05' 25"	-79° 50' 23"
40° 05' 21"	-79° 50′ 24"
Latitude 40° 05' 19"	Longitude -79° 50' 25"
Quad Name Fayette City	Quad Code <u>1807</u>
Wastewater Description: Stormwater	
Receiving Waters Monongahela River (WWF)	Stream Code 37185
NHD Com ID 99410298	RMI 45.52
Drainage Area	Yield (cfs/mi²)
O- to Flow (ofc)	Q ₇₋₁₀ Basis
Elevation (ft)	
Watershed No. 19-C	Slope (ft/ft) Chapter 93 Class. WWF
	<u> </u>
Existing Use	Existing Use Qualifier
Exceptions to Use	Exceptions to Criteria
Assessment Status Impaired	
	IPHENYLS (PCBs) and Chlordane
Source(s) of Impairment SOURCE UNKNOWN	
TMDL Status Final	Name Monongahela River TMDL
Background/Ambient Data	Data Source
pH (SU)	25 § 93.7
Temperature (°F)	
Hardness (mg/L)	25 § 93.8c
Other:	
Nearest Downstream Public Water Supply Intake	Municipal Authority of Washington Township
PWS Waters Monongahela River	Flow at Intake (cfs) 540
PWS RMI 46.0	Distance from Outfall (mi) 0.48 miles

Changes Since Last Permit Issuance: Steel production operations have been ceased.

Other Comments: Stormwater only discharge.

	Development of Effluent Limitations					
Outfall No.	001, 003, 004,	005	Design Flow (MGD)	0 (varied)		
	40° 05' 42"			-79° 50' 31"		
	40° 05' 25"			-79° 50' 23"		
	40° 05' 21"			-79° 50' 24"		
Latitude	40° 05′ 19″		Longitude	-79° 50' 25"		
Wastewater	Description:	Stormwater				

Stormwater Drainage Overview

The stormwater discharge through Outfalls 001, 003, 004, and 005 is primarily site and roof drainage from the existing non-operating steel mill site, currently leased to tenants.

Technology-Based Effluent Limitations (TBELs)

Outfall 001 effluent is comprised of stormwater runoff from the AMROX plant and offsite drainage. There are no Federal Effluent Limitation Guidelines (ELGs) or state regulations requiring effluent limitations for this type of discharge. In lieu of a federal ELG, Section III of DEP's IW Effluent Limit SOP recommends that permit writers consider the following when evaluating the need for effluent limits and monitoring requirements for industrial stormwater discharges:

- A. Effluent limits and monitoring requirements for industrial stormwater discharges may be important for ensuring that Best Management Practices (BMPs) are adequately implemented.
- B. Application managers will consider, where appropriate, applying treatment standards contained in Chapter 95.
- C. The applicable appendix of the PAG-03 General Permit should be considered the minimum standards for limits and monitoring requirements for individual industrial stormwater permits. The application manager may include other limits and monitoring requirements as justified in the fact sheet.
- D. In general, if actual stormwater concentrations exceed 100 times the most stringent Chapter 93 criterion (or a lesser amount for large industrial areas that drain to small streams) or exceed 100 mg/L for pollutants without criteria, the application manager should consider applying effluent limits for the applicable parameters and/or the implementation of BMPs with compliance schedules as necessary to achieve the limits or otherwise reduce stormwater concentrations.

Consistent with the recommendations in Section III.C of the IW Effluent Limit SOP cited above, minimum standards described in the PAG-03 General Permit for "Discharges of Stormwater Associated with Industrial Activity" will be applied to MRIG's stormwater discharges. Based on MRIG's SIC code (6519 – Lessors of Real Estate Property), the facility would be classified under Appendix J – Additional Facilities. The monitoring requirements of Appendix J of the PAG-03 are displayed in Table 2.

Table 2. PAG-03 – Appendix J Minimum Monitoring Requirements

Discharge Parameter	Units	Sample Type	Benchmark Values
Total Suspended Solids	mg/L	Grab	100
Oil and Grease	mg/L	Grab	30

To the extent that effluent limits would be necessary to ensure that BMPs are adequately implemented, DEP's *Permit Writer's Manual* recommends that effluent limits be developed for industrial stormwater discharges based on a determination of Best Available Technology (BAT) using Best Professional Judgment (BPJ). Although BPJ of BAT typically involves the evaluation of end-of-pipe wastewater treatment technologies, DEP considers the use of BMPs to be BAT for MRIG's stormwater in Outfall 001 for the current permit term.

Effluent standards for pH from 25 Pa. §95.2(1) and dissolved iron from 25 Pa. §95.2(4) will also be implemented.

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The facility has a public water supply intake at less than 0.5 miles from the outfall(s). Therefore, monitoring of potable water supply (PWS) parameters (i.e., Total Dissolved Solids, Sulfate, Chloride, Bromide, and Fluoride) will also be applied at the outfalls mentioned.

Water Quality-Based Effluent Limitations (WQBELs)

MRIG submitted stormwater sample analytical data for the outfalls mentioned. The analytical data does not suggest sampling of additional parameters in addition to the PAG-03 General Permit parameters mentioned in Table 2.

Upon review of the discharge monitoring reports (DMRs) for the past five years (2015-2019), the total aluminum and total iron contents in Outfall 005 were found to be somewhat high. The high total aluminum content ranged from 1.28-1.73 mg/L average monthly. The high total iron content varied from 1.29-8.52 mg/L average monthly. Dissolved iron limit will account for the total iron content. The previous permit had monitor and report requirements for fecal coliform, aluminum, iron, and zinc. Per anti-backsliding requirements, monitor and report requirements for fecal coliform, aluminum, and zinc will be carried over in the current permit.

TMDL Requirements

Monongahela River has final TMDL for PCBs and Chlordane from Point Marion L/D to Gray's Landing L/D. MRIG and its outfalls are located between Maxwell L&D and L&D 4 at Charleroi, downstream of the TMDL reach. No specific TMDL is listed for the current reach of concern in Monongahela River.

Effluent Limitations and Monitoring Requirements for Outfalls 001, 003, 004, and 005

Effluent limits imposed at Outfalls 001, 003, 004, and 005 are the most stringent of TBELs, WQBELs, regulatory effluent standards and monitoring requirements as described in the sections above. The applicable requirements are summarized in Table 3. Since discharges from Outfalls 001, 003, 004, and 005 are precipitation-induced and non-continuous, grab sampling will be required for all parameters except flow, which should be estimated.

Table 3. Monitoring Requirements for Outfalls 001, 003, and 004

Parameter	Minimum	Average Monthly	Daily Maximum	Instantaneous Maximum	Sample Frequency	Sample Type
Flow (MGD)	-	-	Report	-	1/month	Estimated
рН	6.0	-	-	9.0	1/month	Grab
Total Suspended Solids (mg/L)	-	-	Report	-	1/month	Grab
Oil and Grease (mg/L)	-	-	Report	-	1/month	Grab
Dissolved Iron (mg/L)	-	-	Report	7.0	1/month	Grab
Total Dissolved Solids (mg/L)	-	-	Report	-	1/month	Grab
Sulfate (mg/L)	-	-	Report	-	1/month	Grab
Chloride (mg/L)	-	-	Report	-	1/month	Grab
Bromide (mg/L)	-	-	Report	-	1/month	Grab
Fluoride (mg/L)	-	-	Report	-	1/month	Grab

Effluent Limitations and Monitoring Requirements for Outfall 005

The applicable requirements for Outfall 005 are summarized in Table 4.

Table 4. Monitoring Requirements for Outfall 005

Parameter	Minimum	Average Monthly	Daily Maximum	Instantaneous Maximum	Sample Frequency	Sample Type
Flow (MGD)	-	-	Report	-	1/month	Estimated
рН	6.0	-	-	9.0	1/month	Grab
Total Suspended Solids (mg/L)	-	-	Report	-	1/month	Grab
Oil and Grease (mg/L)	-	-	Report	-	1/month	Grab
Dissolved Iron (mg/L)	-	-	Report	7.0	1/month	Grab
Total Dissolved Solids (mg/L)	-	-	Report	-	1/month	Grab
Sulfate (mg/L)	-	-	Report	-	1/month	Grab
Chloride (mg/L)	-	-	Report	-	1/month	Grab
Bromide (mg/L)	-	-	Report	-	1/month	Grab
Fluoride (mg/L)	-	-	Report	-	1/month	Grab
Fecal coliform (#/100ml)	-	-	Report	-	1/quarter	Grab
Aluminum (mg/L)	-	-	Report	-	1/quarter	Grab
Zinc (mg/L)	-	-	Report	-	1/quarter	Grab

Discharge, Receiving Water	rs and Water Supply Infor	mation	
Outfall No. 002		Design Flow (MGD)	0 (varied)
Latitude 40° 5' 27"	Latitude 40° 5' 27"		-79° 50' 23"
Quad Name Fayette Ci	ty	Quad Code	1807
Wastewater Description:	Stormwater and groundwa	ater	
Receiving Waters Mono	ngahela River (WWF)	Stream Code	37185
NHD Com ID 99410	0490	RMI	47.0
Drainage Area		Yield (cfs/mi²)	
Q ₇₋₁₀ Flow (cfs)		Q ₇₋₁₀ Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No. 19-C		Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	POLYCHLORINATED BII	PHENYLS (PCBs) and Chlordan	e
Source(s) of Impairment	SOURCE UNKNOWN		
TMDL Status	Final	Name Monongahel	a River TMDL
Background/Ambient Data		Data Source	
pH (SU)		25 § 93.7	
Temperature (°F)			
Hardness (mg/L)	100	25 § 93.8c	
Other:			
Nearest Downstream Publi		Municipal Authority of Washin	<u>'</u>
<u></u>	ahela River	Flow at Intake (cfs)	540
PWS RMI <u>46.0</u>		Distance from Outfall (mi)	1.0

Changes Since Last Permit Issuance: No pickling operations.

Other Comments: None.

	Development of Effluent Limitations						
Outfall No.	002		Design Flow (MGD)	0 (varied)			
Latitude	40° 5' 27"		Longitude	-79° 50' 23"			
Wastewater I	Wastewater Description: Stormwater and groundwater						

Stormwater Drainage Overview

The stormwater discharge through Outfall 002 is a combination of site and roof drainage from the existing non-operating steel mill site and treated stormwater from internal monitoring point (IMP) 202. The details of the limits/monitoring requirements are explained in the following section. The IMP 202 has been evaluated and limits/monitoring requirements have been imposed separately. The stormwater outfall limits/monitoring requirements as evaluated in the previous section (for Outfalls 001, 003, 004, and 005) will be applied at Outfall 002, as presented in Table 3.

Discharge, Receiving Waters and Water Supply Infor	mation	
Outfall No. IMP 202	Design Flow (MGD)	0.014
Latitude 40° 5' 42"	Longitude	-79º 50' 31"
Quad Name Fayette City	Quad Code	1807
Wastewater Description:Treated stormwater and g	groundwater	
Descriping Waters Managabala Diver (MM/F)	Stroom Codo	27405
Receiving Waters Monongahela River (WWF) NHD Com ID 99410298	Stream Code RMI	37185
		47.0
Drainage Area	Yield (cfs/mi²) Q ₇₋₁₀ Basis	
Q ₇₋₁₀ Flow (cfs)		
Elevation (ft) Watershed No. 19-C		WWF
	Chapter 93 Class. Existing Use Qualifier	VVVVF
Existing Use Exceptions to Use	Exceptions to Criteria	
Assessment Status Impaired	Exceptions to Criteria	
	PHENYLS (PCBs) and Chlordan	•
Source(s) of Impairment SOURCE UNKNOWN	FILENTES (FCBS) and Chilordan	е
TMDL Status Final	Name Monongahe	la River TMDL
TIVIDE Status Tiliai	Name Monorigane	Id NIVEL TIMBL
Background/Ambient Data	Data Source	
pH (SU) 7	25 § 93.7	
Temperature (°F)		
Hardness (mg/L) 100	25 § 93.8c	
Other:		
Nearest Downstream Public Water Supply Intake	Municipal Authority of Washin	aton Township
PWS Waters Monongahela River	Flow at Intake (cfs)	540
PWS RMI 46.0	Distance from Outfall (mi)	1.0

Changes Since Last Permit Issuance: No pickling operations. Treated stormwater only.

Other Comments: None.

Development of Effluent Limitations						
Outfall No.	IMP 202	Design Flow (MGD)	0.014			
Latitude	40° 5' 42"	Longitude	-79º 50' 31"			
Wastewater Description: Treated Stormwater and groundwater						

Internal Monitoring Point (IMP) Overview

Stormwater and possibly groundwater are collected from the SS-002 annulus and the hot mill basements and pumped into the Oil/Water Separator. Water is then pumped at 100-110 gpm to the mixing box. Water then flows into Reactor 1 and then to either Reactor 2 or the Splitter Box. The Splitter Box directs the flow into either the North Clariflocculator or

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the South Clariflocculator. Afterwards, the water is direct-line injected with caustic soda, allowed to mix, and then coagulant was added and allowed to mix. Water then enters a Multimedia Filter and pumped at 100 gpm into a Buffer Tank. After the Buffer Tank, the effluent reaches Outfall 202. The Multimedia Filter is backwashed into a Dewatering Tank, the effluent of which returns to the South Clarifier. The solid or liquid residue resulting from treatment is sent to landfill. The discharge from this IMP is batch discharge at 0.014 MGD rate for 8 hours.

Technology-Based Effluent Limitations (TBELs)

The technology-based effluent limitations for IMP 202 will be followed as presented in the TBELs section for Outfall 001. The PAG-03 requirements will be applied at Outfall 002.

Water Quality-Based Effluent Limitations (WQBELs)

Table 5 presents the sample analytical results for IMP 202. The parameter concentrations do not exceed the EPA's benchmarks for 2015 Multi Sector General Permit (MSGP).

Table 5. Analytical Results for Treated Stormwater through IMP 202

Parameter	Concentration
рН	7.8
Oil and Grease (mg/L)	4.8
Biochemical Oxygen Demand (5-day) (mg/L)	3.5
Chemical Oxygen Demand (mg/L)	24.6
Total Suspended Solids (mg/L)	4.0
Total Nitrogen (mg/L)	1.3
Total Phosphorus (mg/L)	0.03
Lead (µg/L)	5.0
Zinc (μg/L)	4.0
Naphthalene (μg/L)	1.0
Tetrachloroethylene (µg/L)	1.0

Monitoring for the potable water supply (PWS) parameters (i.e., Total Dissolved Solids, Sulfate, Chloride, Bromide, and Fluoride) will also be applied since there is a PWS intake within 1 mile downstream of the IMP/outfall.

Previously the permit held limits for IMP 202 for flow, suspended solids, oil and grease, lead, zinc, naphthalene, tetrachloroethylene due to tandem mill pickling operations. After reviewing the analytical results, the facility is not likely to discharge the pickling operation parameters (i.e., lead, zinc, naphthalene, tetrachloroethylene) at a level that would trigger permit limits. A toxic screening spreadsheet and PENTOXSD analysis were run as displayed in Appendix A. Therefore, Table 3 monitoring requirements (for stormwater) in addition to monitoring only for the historic pickling operation (i.e., lead, zinc, naphthalene, tetrachloroethylene) will be applied at IMP 202. The applicable requirements are summarized in Table 6.

Table 6. Monitoring Requirements for IMP 202

Parameter	Minimum	Average Monthly	Daily Maximum	Instantaneous Maximum	Sample Frequency	Sample Type
Flow (MGD)	-	-	Report	-	1/month	Estimated
рН	6.0	-	-	9.0	1/month	Grab
Total Suspended Solids (mg/L)	-	-	Report	-	1/month	Grab
Oil and Grease (mg/L)	-	-	Report	-	1/month	Grab
Dissolved Iron (mg/L)	-	-	Report	7.0	1/month	Grab
Total Dissolved Solids (mg/L)	-	-	Report	-	1/month	Grab
Sulfate (mg/L)	-	-	Report	-	1/month	Grab

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Chloride (mg/L)	-	-	Report	-	1/month	Grab
Bromide (mg/L)	-	-	Report	-	1/month	Grab
Fluoride (mg/L)	-	-	Report	-	1/month	Grab
Lead (µg/L)	-	-	Report	-	1/month	Grab
Zinc (µg/L)	-	-	Report	-	1/month	Grab
Naphthalene (µg/L)	-	-	Report	-	1/month	Grab
Tetrachloroethylene (µg/L)	-	-	Report	-	1/month	Grab

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Discharge, Receiving Waters and Water Supply Infor	rmation
Outfall No. 007	Design Flow (MGD) 0
Latitude 40° 5′ 15"	Longitude -79° 50' 27"
Quad Name Fayette City	Quad Code 1807
Wastewater Description: River Intake Surplus Water	er (river water)
Receiving Waters Monongahela River (WWF)	Stream Code 37185
NHD Com ID 99410490	RMI46.63
Drainage Area	Yield (cfs/mi²)
Q ₇₋₁₀ Flow (cfs)	Q ₇₋₁₀ Basis
Elevation (ft)	Slope (ft/ft)
Watershed No. 19-C	Chapter 93 Class. WWF
Existing Use	Existing Use Qualifier
Exceptions to Use	Exceptions to Criteria
Assessment Status Impaired	
Cause(s) of Impairment POLYCHLORINATED BI	PHENYLS (PCBs) and Chlordane
Source(s) of Impairment SOURCE UNKNOWN	
TMDL Status Final	Name Monongahela River TMDL
Background/Ambient Data	Data Source
pH (SU)	_25 § 93.7
Temperature (°F)	
Hardness (mg/L)	25 § 93.8c
Other:	
Nearest Downstream Public Water Supply Intake	Municipal Authority of Washington Township
PWS Waters Monongahela River	Flow at Intake (cfs) 540
PWS RMI <u>46.0</u>	Distance from Outfall (mi) 0.63

Changes Since Last Permit Issuance: None.

Other Comments: None.

Development of Effluent Limitations					
Outfall No.	007	Design Flow (MGD)	0 (varied)		
Latitude	40° 5' 15"	Longitude	-79° 50' 27"		
Wastewater	Description:	Pumphouse river water intake surplus (river water)			

Overview

MRIG leases the facility to tenants and sells the river water for non-cooling purposes. Therefore, only daily flow average monthly monitoring will be applied at Outfall 007 as imposed in previous permit. The measurement frequency (i.e., 2/month) applied will also be carried over from previous permit. The applicable requirements are summarized in Table 7.

Table 7. Monitoring Requirements for Outfall 007

Parameter	Minimum	Average Monthly	Daily Maximum	Instantaneous Maximum	Sample Frequency	Sample Type
Flow (MGD)	-	Report	-	-	2/month	Estimated

	ing Wate	rs and Water Supply Info	ormation		
Outfall No. 01	0		Design Flow (MGD)	0	
Latitude 40	⁰ 5' 15"		Longitude	-79° 50' 27"	
Quad NameI	ayette Ci	ty	Quad Code	1807	
Wastewater Des	cription:	River Intake Pump Hou	se Screen Backwash (river water)		
Receiving Waters	s Mond	ngahela River (WWF)	Stream Code	37185	
NHD Com ID	99410	0490	RMI	46.63	
Drainage Area			Yield (cfs/mi²)		
Q ₇₋₁₀ Flow (cfs)			Q ₇₋₁₀ Basis		
Elevation (ft)	-		Slope (ft/ft)		
Watershed No.	19-C		Chapter 93 Class.	WWF	
Existing Use			Existing Use Qualifier		
Exceptions to Use		Exceptions to Criteria			
Assessment Stat	us	Impaired			
Cause(s) of Impa	irment	POLYCHLORINATED I	BIPHENYLS (PCBs) and Chlordan	е	
Source(s) of Impa	airment	SOURCE UNKNOWN			
TMDL Status		Final	Name Monongahe	a River TMDL	
Background/Amb	oient Data		Data Source		
pH (SU)		7	25 § 93.7		
Temperature (°F))				
Hardness (mg/L)		100	25 § 93.8c		
Other:					
Nearest Downstr	eam Publ	ic Water Supply Intake	Municipal Authority of Washin	gton Township	
PWS Waters		ahela River	Flow at Intake (cfs)	540	
rvvo vvaleis	46.0		Distance from Outfall (mi)	0.63	

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Development of Effluent Limitations						
Outfall No.	010	Design Flow (MGD)	0 (varied)			
Latitude	40° 5' 15"	Longitude	-79° 50' 27"			
Wastewater	Description:	River intake pumphouse screen backwash (river water)				

Overview

MRIG discharges the screen backwash river water through Outfall 010. No limits will be assigned for this outfall. A condition will be continued from the previous permit that states, "All materials (solids and other debris) collected on the water intake screens shall be collected and disposed of in a manner to prevent said material from reentering the surface waters".

Compliance History					
Summary of DMRs:	Upon review of the DMRs for the past five years (2015-2019), total aluminum and total iron contents in Outfall 005 were found to be somewhat high. The high total aluminum content ranged from 1.28-1.73 mg/L average monthly. The high total iron content varied from 1.29-8.52 mg/L average monthly.				
Summary of Inspections:	Last DEP inspection on May 15, 2018. No violations were reported.				

Other Comments: None.

Appendix A

StreamStats Report

Region ID: Workspace ID:

Clicked Point (Latitude, Longitude):

Time:

PA PA20191002193904343000 40.09715, -79.84164 2019-10-02 15:39:25 -0400



Basin Characteristics			
Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	5180	square miles
ELEV	Mean Basin Elevation	1846.8	feet

Low-Flow Statistics Parameters[100 Percent (5180 square miles) Low Flow Region 4]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	5180	square miles	2.26	1400
ELEV	Mean Basin Elevation	1846.8	feet	1050	2580

Low-Flow Statistics Disclaimers [100 Percent (5180 square miles) Low Flow Region 4]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Low-Flow Statistics Flow Report[100 Percent (5180 square miles) Low Flow Region 4]

Statistic	Value	Unit
7 Day 2 Year Low Flow	686	ft^3/s
30 Day 2 Year Low Flow	911	ft^3/s
7 Day 10 Year Low Flow	399	ft^3/s
30 Day 10 Year Low Flow	467	ft*3/s
90 Day 10 Year Low Flow	695	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p.

PENTOXSD

	wodeling	Input Da	ita
Ī	er mesero in veni		

Stream Code		Elevati (ft)		rainag Area (sq mi)		Slope	PWS (mg				Apply FC				
371	85 46.75	75	0.00	5180.	00	0.00010		1.50			Y				
								Stream D	ata						
		Trib	Stream	m W	D	Rch	Rch	Rch	Rch	Tribu	tary	Stream	m	Analysi	S
	LFY	Flow	Flov	Ra	tio	Width	Depth	Velocity	Trav Time	Hard	pН	Hard	pH		рН
	(cfsm)	(cfs)	(cfs)		(ft)	(ft)	(fps)	(days)	(mg/L)		(mg/L)		(mg/L)	
Q7-10	0.1	0	5	40	0	0	0	0	0	100	7	100	7	0	0
Qh		0		0	0	0	0	0	0	100	7	0	0	0	0
							D	ischarge [Data						
	Name	Perm Numl		xisting Disc Flow		rmitted Disc Flow	Design Disc Flow	Reserve Factor	AFC PMF	CFC PMF	THH PMF	CRL PMF	Disc Hard	Disc pH	
				(mgd)	(1	mgd)	(mgd)						(mg/L)		
Mo	n River IG	PA000	1562	0	0	.014	0	0	0.2	0	0	0	100	7	
							Pa	arameter D	Data						
	Parameter N	lame		Dis Cor		Trib Conc	Disc Daily CV	/ Hourl	y Con				Crit Mod	Max Disc Conc	
				(µg/	-	(µg/L)			(µg/					(µg/L)	
LEAD					5	0	0.		5 0	0	(0	1	0	
TETRA	CHLOROETH	YLENE		_ 0	1	0	0.	5 0.5	0	0		0	1	0	

PENTOXSD Analysis Results

Hydrodynamics

<u>s</u>	WP Basin	1	Stream	n Code:			Strea	m Name	<u>:</u>		
19A			37	37185			MONONGAHELA RIVER				
RMI	Stream Flow (cfs)	PWS With (cfs)	Net Stream Flow (cfs)	Disc Analysis Flow (cfs)	Reach Slope	Depth (ft)	Width (ft)	WD Ratio	Velocity (fps)	Reach Trav Time (days)	CMT (min)
	- 35				Q7-	-10 Hyd	Irodyna	amics			
46.750	540	2.3205	537.68	0.02165	0.0001	1.2271	483.06	393.66	0.9071	0.0337	1000+
46.250	540	2.3205	535.36	NA	0	0	0	0	0	0	NA
					Q	h Hydr	odynan	nics			
46.750	1815.9	2.3205	1813.6	0.02165	0.0001	2.0951	483.06	230.57	1.7920	0.0171	1000+
46.250	1815.9	2.3205	1811.3	NA	0	0	0	0	0	0	NA

PENTOXSD Analysis Results

Wasteload Allocations

RMI	Name Per	mit N	umber							
46.75	Mon River IG P	A000	1562							
					AFC					=
Q7-	10: CCT (min)	15	PMF	0.2	Analysis	рН	7	Analysis	Hardness	100
	Parameter		Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef		WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)
	LEAD		0	0	0	0		64.581	81.645	405464.3
		3	Dissolved	WQC. C	nemical tra	anslator	of 0	.791 applied		
TETR	RACHLOROETHYLENE		0	0	0	0		700	700	3470000
				c	FC					
Q7-10:	CCT (min)	720	PMF	0.174	Analysis	рН	7	Analysis	Hardness	100
	Parameter		Stream Conc. (µg/L)	Stream CV	Trib Conc. (µg/L)	Fate Coe		WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)
	LEAD		0	0	0	0		2.517	3.182	13820.63
		1	Dissolved	WQC. CH	nemical tra	nslator	of 0.	.791 applied		
TETR	ACHLOROETHYLENE		0	0	0	0		140	140	608151
				т	нн					
Q7-10:	CCT (min)	720	PMF	NA	Analysis	s pH	NA	Analysis	Hardness	NA
	Parameter		Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef		WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)
	LEAD		0	0	0	0		NA	NA	NA
TETE	RACHLOROETHYLENE		0	0	0	0		NA	NA	NA
					RL					
Qh:	CCT (min)	720	PMF	0.261						
	Parameter		Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate		WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)
	LEAD		0	0	0	0		NA NA	NA NA	NA NA
TETF	RACHLOROETHYLENE		0	0	0	0		0.69	0.69	15097.51

PENTOXSD Analysis Results

Recommended Effluent Limitations

SWP Basin	Stream Code:			Stream	Name:		
19A	37185		М	ONONGAH	ELA RIVER		
RMI	Name	1/1/2/2/2/2/	mit nber	Disc Flow (mgd)			
46.75	Mon River IG	PA00	01562	0.0140			
		Effluent Limit			Max. Daily	Most S	tringent
Pa	rameter	(µg/L)	Gove	2122200	Limit (µg/L)	WQBEL (µg/L)	WQBEL Criterion
LEAD		5	INP	JT	7.801	13820.63	CFC
TETRACHLOR	OETHYLENE	1	INP	UT	1.56	15097.51	CRL

TOXICS SCREENING ANALYSIS WATER QUALITY POLLUTANTS OF CONCERN **VERSION 2.7**

CLEAR FORM

Facility: Allenport Plant Analysis Hardness (mg/L): 100 Stream Flow, Q₇₋₁₀ (cfs): 540 NPDES Permit No.: Discharge Flow (MGD):

PA0001562 0.014

Outfall: 202

Analysis pH (SU): 7

	Parameter	Maximum Concentration in Application or DMRs (µg/L)	Most Stringent Criterion (µg/L)	Candidate for PENTOXSD Modeling?	Most Stringent WQBEL (μg/L)	Screening Recommendation
	Total Dissolved Solids		500000			
Group 1	Chloride		250000			
no	Bromide		N/A			
Ğ	Sulfate		250000			
	Fluoride		2000			
	Total Aluminum		750			
	Total Antimony		5.6			
	Total Arsenic		10			
	Total Barium		2400			
	Total Beryllium		N/A			
	Total Boron		1600			
	Total Cadmium		0.271			
	Total Chromium		N/A			
	Hexavalent Chromium		10.4			
	Total Cobalt		19			
7	Total Copper		9.3			
Group 2	Total Cyanide		N/A			
1,6	Total Iron		1500			
_	Dissolved Iron		300			
	Total Lead	5	3.2	Yes	13820.63	No Limits/Monitoring
	Total Manganese		1000			
	Total Mercury		0.05			
	Total Molybdenum		N/A			
	Total Nickel		52.2			
	Total Phenols (Phenolics)		5			
	Total Selenium		5.0			
	Total Silver		3.8			
	Total Thallium		0.24			
	Total Zinc	4	119.8	No		
	Acrolein	<	3			
	Acrylamide	<	0.07			
	Acrylonitrile	<	0.051			

NPDES Permit Fact Sheet Allenport Plant

	Bromoform	<		4.3			
	Carbon Tetrachloride	<		0.23			
	Chlorobenzene	<		130			
	Chlorodibromomethane	<		0.4			
	Chloroethane	<		N/A			
	2-Chloroethyl Vinyl Ether	<		3500			
	Chloroform	<		5.7			
	Dichlorobromomethane	<		0.55			
		<					
3	1,1-Dichloroethane	-		N/A			
9	1,2-Dichloroethane	<		0.38			
1 2	1,1-Dichloroethylene	<		33			
G	1,2-Dichloropropane	<		2200			
	1,3-Dichloropropylene	<		0.34			
	Ethylbenzene	<		530			
	Methyl Bromide	<		47			
	Methyl Chloride	<		5500			
	Methylene Chloride	<		4.6			
	1,1,2,2-Tetrachloroethane	<		0.17			
	Tetrachloroethylene	<	1	0.69	Yes	15097.51	No Limits/Monitoring
	Toluene	<		330			
	1,2-trans-Dichloroethylene	<		140			
	1,1,1-Trichloroethane	<		610			
	1.1.2-Trichloroethane	<		0.59			
	Trichloroethylene	<		2.5			
	Vinyl Chloride	<		0.025			
-		<					
	2-Chlorophenol 2.4-Dichlorophenol	<		81 77			
	•						
	2,4-Dimethylphenol	<		130			
4	4,6-Dinitro-o-Cresol	<		13			
ď	2,4-Dinitrophenol	<		69			
Group	2-Nitrophenol	<		1600			
5	4-Nitrophenol	<		470			
	p-Chloro-m-Cresol	<		30]
	Pentachlorophenol	<		0.27			
	Phenol	<		10400			
	2,4,6-Trichlorophenol	<		1.4			
$\overline{}$	Acenaphthene	<		17			
				11			
		-		NI/Δ			
	Acenaphthylene	<		N/A			
	Acenaphthylene Anthracene	<		8300			
	Acenaphthylene Anthracene Benzidine	< < <		8300 0.000086			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene	< < <		8300 0.000086 0.0038			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene	< < < < < < < < < < < < < < < < < < <		8300 0.000086 0.0038 0.0038			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene	< < < < < < < < < < < < < < < < < < <		8300 0.000086 0.0038 0.0038 0.0038			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene	< < < < < < < < < < < < < < < < < < <		8300 0.000086 0.0038 0.0038 0.0038 N/A			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene	< < < < < < < < < < < < < < < < < < <		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane	< < < < < < < < < < < < < < < < < < <		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethyl)Ether	< < < < < < < < < < < < < < < < < < <		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethyl)Ether Bis(2-Chloroisopropyl)Ether	< < < < < < < < < < < < < < < < < < <		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate	< < < < < < < < < < < < < < < < < < <		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether	< < < < < < < < < < < < < < < < < < <		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate	< < < < < < < < < < < < < < < < < < <		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene	< < <		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate	< < < < < < < < < < < < < < < < < < <		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene	< < <		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether	< </td <td></td> <td>8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A</td> <td></td> <td></td> <td></td>		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethoxy)Methane Bis(2-Chloroisopropyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene	< </td <td></td> <td>8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.03 1400 1.2 54 35 1000 N/A 0.0038</td> <td></td> <td></td> <td></td>		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.03 1400 1.2 54 35 1000 N/A 0.0038			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethoxy)Methane Bis(2-Chloroisopropyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)Anthrancene	< < <		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038			
	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethoxy)Methane Bis(2-Chloroisopropyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene	<td></td> <td>8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038 0.0038 160</td> <td></td> <td></td> <td></td>		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038 0.0038 160			
15	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(yFluoranthene Benzo(yFluoranthene Benzo(yFluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethoxy)Methane Bis(2-Chloroisopropyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene	< < <		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038 0.0038 160 69			
nup 5	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(yFluoranthene Benzo(yFluoranthene Benzo(yFluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethoxy)Methane Bis(2-Chloroisopropyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzidine	< < <		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038 0.0038 160 69 150 0.021			
Group 5	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(y)Fluoranthene Benzo(y)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethoxy)Methane Bis(2-Chloroisopropyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzidine Diethyl Phthalate	< < <		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038 160 69 150 0.021 800			
Group 5	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethoxy)Methane Bis(2-Chloroisopropyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzidine Diethyl Phthalate	<td></td> <td>8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038 160 69 150 0.021 800 500</td> <td></td> <td></td> <td></td>		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038 160 69 150 0.021 800 500			
Group 5	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethoxy)Methane Bis(2-Chloroisopropyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 3,3-Dichlorobenzidine Diethyl Phthalate Dimethyl Phthalate	<td></td> <td>8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038 0.0038 160 69 150 0.021 800 500 21</td> <td></td> <td></td> <td></td>		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038 0.0038 160 69 150 0.021 800 500 21			
Group 5	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethoxy)Methane Bis(2-Chloroisopropyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzidine Diethyl Phthalate Dimethyl Phthalate Dimethyl Phthalate Din-Butyl Phthalate	< < <		8300 0.000086 0.0038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038 0.0038 160 69 150 0.021 800 500 21 0.05			
Group 5	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzidine Diethyl Phthalate Dimethyl Phthalate Dimethyl Phthalate Din-Butyl Phthalate Di-n-Butyl Phthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene	< < <		8300 0.000086 0.00038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038 160 69 150 0.021 800 500 21 0.05			
Group 5	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethoxy)Methane Bis(2-Chloroisopropyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzidine Diethyl Phthalate Dimethyl Phthalate Din-Butyl Phthalate Di-n-Butyl Phthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene 1,4-Dioxane	< < <		8300 0.000086 0.00038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038 0.0038 160 69 150 0.021 800 500 21 0.05 0.05 N/A			
Group 5	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethoxy)Methane Bis(2-Chloroisopropyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzidine Diethyl Phthalate Dimethyl Phthalate Din-Butyl Phthalate Din-Butyl Phthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene 1,4-Dioxane Di-n-Octyl Phthalate	< < <		8300 0.000086 0.00038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038 0.0038 0.0038 160 69 150 0.021 800 500 21 0.05 0.05 N/A N/A			
Group 5	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(k)Fluoranthene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethoxy)Methane Bis(2-Chloroisopropyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzidine Diethyl Phthalate Dimethyl Phthalate Din-Butyl Phthalate Din-Butyl Phthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene 1,4-Dioxane Di-n-Octyl Phthalate 1,2-Diphenylhydrazine	< < <		8300 0.000086 0.00038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038 0.0038 160 69 150 0.021 800 500 21 0.05 0.05 N/A N/A 0.036			
Group 5	Acenaphthylene Anthracene Benzidine Benzo(a)Anthracene Benzo(a)Pyrene 3,4-Benzofluoranthene Benzo(ghi)Perylene Benzo(k)Fluoranthene Bis(2-Chloroethoxy)Methane Bis(2-Chloroethoxy)Methane Bis(2-Chloroisopropyl)Ether Bis(2-Chloroisopropyl)Ether Bis(2-Ethylhexyl)Phthalate 4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate 2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)Anthrancene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzidine Diethyl Phthalate Dimethyl Phthalate Din-Butyl Phthalate Din-Butyl Phthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene 1,4-Dioxane Di-n-Octyl Phthalate	< < <		8300 0.000086 0.00038 0.0038 0.0038 N/A 0.0038 N/A 0.003 1400 1.2 54 35 1000 N/A 0.0038 0.0038 0.0038 0.0038 160 69 150 0.021 800 500 21 0.05 0.05 N/A N/A			

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	Hexachlorobenzene	<	0.00028		
	Hexachlorobutadiene	<	0.44		
	Hexachlorocyclopentadiene	<	1		
	Hexachloroethane	<	1.4		
	Indeno(1,2,3-cd)Pyrene	<	0.0038		
	Isophorone	<	35		
	Naphthalene	< 1	43	No	
	Nitrobenzene	<	17		
	n-Nitrosodimethylamine	<	0.00069		
	n-Nitrosodi-n-Propylamine	<	0.005		
	n-Nitrosodiphenylamine	<	3.3		
	Phenanthrene	<	1		
	Pyrene	<	830		
	1,2,4-Trichlorobenzene	<	26		
	Aldrin	<	0.000049		
	alpha-BHC	<	0.0026		
	beta-BHC	<	0.0091		
	gamma-BHC	<	0.098		
	delta BHC	<	N/A		
	Chlordane	<	0.0008		
	4,4-DDT	<	0.00022		
	4,4-DDE	<	0.00022		
	4,4-DDD	<	0.00031		
	Dieldrin	<	0.000052		
	alpha-Endosulfan	<	0.056		
9	beta-Endosulfan	<	0.056		
Group	Endosulfan Sulfate	<	N/A		
2	Endrin	<	0.036		
G	Endrin Aldehyde	<	0.29		
	Heptachlor	<	0.000079		
	Heptachlor Epoxide	<	0.000039		
	PCB-1242	<	N/A		
	PCB-1254	<	N/A		
	PCB-1221	<	N/A		
	PCB-1232	<	N/A		
	PCB-1248	<	N/A		
	PCB-1260	<	N/A		
	PCB-1016	<	N/A		
	Toxaphene	<	0.0002		
	2,3,7,8-TCDD	<	0.000000005		
_	Gross Alpha (pCi/L)	<	N/A		
7	Total Beta (pCi/L)	<	N/A		
¥	Radium 226/228 (pCi/L)	<	N/A		
Group	Total Strontium	<	4000		
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