National Pollutant Discharge Elimination System (NPDES) Permit Program

FACT SHEET

Regarding a Modification to an NPDES Permit To Discharge to Waters of the State of Ohio
for INEOS ABS

Public Notice No.: 15-09-055
Public Notice Date: September 24, 2015
Comment Period Ends: October 24, 2015

Ohio EPA Permit No.: **1IF00001*MD**
Application No.: **OH0009946**

Name and Address of Applicant:
INEOS ABS
356 Three Rivers Parkway
Addyston, Ohio 45001

Name and Address of Facility Where Discharge Occurs:
INEOS ABS
356 Three Rivers Parkway
Addyston, Ohio 45001
Hamilton County

Receiving Water: Muddy Creek, Crystal Creek, Ohio River
Subsequent Stream Network: Ohio River

Introduction

Development of a Fact Sheet for NPDES permits is mandated by Title 40 of the Code of Federal Regulations (CFR), Section 124.8 and 124.56. This document fulfills the requirements established in those regulations by providing the information necessary to inform the public of actions proposed by the Ohio Environmental Protection Agency (Ohio EPA), as well as the methods by which the public can participate in the process of finalizing those actions.

This Fact Sheet is prepared in order to document the technical basis and risk management decisions that are considered in the determination of water quality based NPDES Permit effluent limitations. The technical basis for the Fact Sheet may consist of evaluations of promulgated effluent guidelines, existing effluent quality, instream biological, chemical and physical conditions, and the relative risk of alternative effluent limitations. This Fact Sheet details the discretionary decision-making process empowered to the Director by the Clean Water Act (CWA) and Ohio Water Pollution Control Law (Ohio Revised Code [ORC] 6111). Decisions to award variances to Water Quality Standards (WQS) or promulgated effluent guidelines for economic or technological reasons will also be justified in the Fact Sheet where necessary.

No antidegradation review was required.

Procedures for Participation in the Formulation of Final Determinations

The proposed modification is tentative but shall become final on the effective date unless (1) an adjudication hearing is requested, (2) the Director withdraws and revises the proposed modification after consideration of the record of a public meeting or written comments, or (3) upon disapproval by the Administrator of the U.S. Environmental Protection Agency.

Within thirty (30) days of publication of this notice, any person may submit written comments, a statement as to why the proposed modification should be changed, a request for a public meeting on the proposed modification and/or a request for notice of further actions concerning the modification. All communications timely received will be considered in the final formulation of the modification. If significant public interest is shown a public meeting will be held prior to finalization of the modification.

Within thirty (30) days of the issuance of the proposed modification any officer of an agency of the state or of a political subdivision, acting in his representative capacity or any person aggrieved or adversely affected by issuance of it may request an adjudication hearing by submitting a written objection in accordance with ORC Section 3745.07. Since all other conditions of the permit remain in effect, a hearing may not be requested on any issues other than the proposed modification. If an adjudication hearing is requested, the existing NPDES permit will remain in effect until the hearing is resolved. Following the finalization of the modification by the Director, any person who was a party to an adjudication hearing may appeal to the Environmental Review Appeals Commission.

Requests for public meetings shall be in writing and shall state the action of the Director objected to, the questions to be considered, and the reasons the action is contested. Such requests should be addressed to:

Legal Records Section
Ohio Environmental Protection Agency
Lazarus Government Center
P.O. Box 1049
Columbus, Ohio 43216-1049

Interested persons are invited to submit written comments upon the proposed modification. Comments should be submitted in person or by mail no later than 30 days after the date of this Public Notice. Deliver or mail all comments to:

Ohio Environmental Protection Agency
Attention: Division of Surface Water
Permits and Compliance Section
Lazarus Government Center
P.O. Box 1049
Columbus, Ohio 43216-1049

The Ohio EPA permit number and Public Notice numbers should appear on each page of any submitted comments. All comments received no later than 30 days after the date of the Public Notice will be considered.

Citizens may conduct file reviews regarding specific companies or sites. Appointments are necessary to conduct file reviews, because requests to review files have increased dramatically in recent years. The first 250 pages copied are free. For requests to copy more than 250 pages, there is a five-cent charge for each page copied. Payment is required by check or money order, made payable to Treasurer State of Ohio.

For additional information about this fact sheet or the proposed modification, contact Sara Hise, (614) 644-4824, Sara.Hise@epa.ohio.gov.

Information Regarding Certain Water Quality Based Effluent Limits

This draft permit may contain proposed water quality based effluent limitations for parameters that **are not** priority pollutants. (See the following link for a list of the priority pollutants: http://epa.ohio.gov/portals/35/pretreatment/Pretreatment_Program_Priority_Pollutant_Detection_Limits.pdf .) In accordance with ORC Section 6111.03(J)(3), the Director established these water quality based effluent limits after considering, to the extent consistent with the Federal Water Pollution Control Act, evidence relating to the technical feasibility and economic reasonableness of removing the polluting properties from those wastes and to evidence relating to conditions calculated to result from that action and their relation to benefits to the people of the state and to accomplishment of the purposes of this chapter. This determination was made based on data and information available at the time the permit was drafted, which included the contents of the timely submitted NPDES permit renewal application, along with any and all pertinent information available to the Director.

This public notice allows the permittee to provide to the Director for consideration during this public comment period additional site-specific pertinent and factual information with respect to the technical feasibility and economic reasonableness for achieving compliance with the proposed final effluent limitations for these parameters. The permittee shall deliver or mail this information to:

Ohio Environmental Protection Agency
Attention: Division of Surface Water
Permits Processing Unit
P.O. Box 1049
Columbus, Ohio 43216-1049

Should the applicant need additional time to review, obtain or develop site-specific pertinent and factual information with respect to the technical feasibility and economic reasonableness of achieving compliance with these limitations, written notification for any additional time shall be sent to the above address no later than 30 days after the Public Notice Date on Page 1.

Should the applicant determine that compliance with the proposed water quality based effluent limitations for parameters other than the priority pollutants is technically and/or economically unattainable, the permittee may submit an application for a variance to the applicable WQS used to develop the proposed effluent limitation in accordance with the terms and conditions set forth in OAC 3745-33-07(D). The permittee shall submit this application to the above address no later than 30 days after the Public Notice Date.

Alternately, the applicant may propose the development of site-specific WQS pursuant to OAC 3745-1-35. The permittee shall submit written notification regarding their intent to develop site specific WQS for parameters that are not priority pollutants to the above address no later than 30 days after the Public Notice Date.

Location of Discharge/Receiving Water Use Classification

INEOS ABS Outfall 001 discharges to the Ohio River at River Mile Point 484.4. Outfall 002 and storm water outfall 003 discharge to the Ohio River as well. Storm water outfalls 004 and 006 discharge to Muddy Creek. Storm water outfalls 005 and 007 discharge to Crystal Creek. Muddy Creek and Crystal Creek both discharge to the Ohio River. Figure 1 shows the approximate location of the facility.

This segment of the Ohio River is described by Ohio EPA River Code: 25-050, U.S. EPA River Reach #: 05090203, County: Hamilton, Ecoregion: Interior Plateau. The Ohio River is designated for the following uses under Ohio's WQS (OAC 3745-1-32): Warmwater Habitat (WWH), Agricultural Water Supply (AWS), Industrial Water Supply (IWS), Public Water Supply (PWS), and Bathing Waters (BW).

Facility Description

INEOS ABS' Addyston facility makes ABS (acrylonitrile, butadiene, styrene) plastics and resins. Raw materials used are acrylonitrile, butadiene, styrene, methyl ethyl ketone, butyl acetate, terpinolene, methyl methacrylate, alpha methyl styrene, and methanol. The process operations at this facility are classified by the Standard Industrial Classification (SIC) code 2821, Plastics materials, synthetic resins, and nonvulcanizable elastomers. Discharges resulting from process operations are therefore subject to federal effluent guideline limitations (ELGs) contained in 40 CFR Part 414, "Organic Chemicals, Plastics, and Synthetic Fibers" (OCPSF) industrial category.

Description of Existing Discharge

Outfall 002 discharges contact cooling water and non-contact cooling water. These discharges are also currently monitored at internal monitoring stations 605 (contact cooling water), 606 (tank farm car wash), and 607 (bulk silo cleaning). Treatment at outfall 002 consists of flotation, sedimentation, chlorination, and dechlorination.

Table 1 presents a summary of unaltered Discharge Monitoring Report (DMR) data for outfall 002 and internal monitoring stations 605, 606, and 607 only. Data are presented for the period January 2007 through December 2011, and current permit limits are provided for comparison.

Basis of the Modification

In order to comply with Maximum Achievable Control Technology (MACT) standards, INEOS ABS has installed several heat exchangers at the facility. The stations are non-contact cooling water sources; however, if a leak developed in any of the non-contact cooling water systems, chemicals such as acrylonitrile, styrene, butadiene, and methyl ethyl ketone could discharge through outfall 002 to the receiving stream. The inlet to all nine stations is mill water; therefore, only limits on the outlet are requested. In order to find and repair the heat exchangers, INEOS ABS is requesting the addition of the nine new internal monitoring stations as shown on Table 2.

Annual monitoring and limits for the OCPSF category of parameters is proposed. The heat exchangers are required to comply with air pollution regulations. These internal stations already discharge to outfall 002 and are monitored by total organic carbon analysis once a quarter to comply with MACT heat exchanger regulations.

Ohio EPA is proposing to add the internal stations, monitoring, and effluent limitations requested by INEOS ABS. Table 2 presents the final monitoring and effluent limits for the proposed additional internal stations. The proposed additions are consistent with 40 CFR 122.45(h). ELGs are proposed to be applied to these internal stations to ensure that treatment standards are met prior to combining with other waste streams. If monitoring was not done at these locations, it would not be possible to verify compliance with these standards due to dilution. Federal rules at 40 CFR 125.3(f) prohibit attaining these standards by dilution.

Figure 1. Location of INEOS ABS

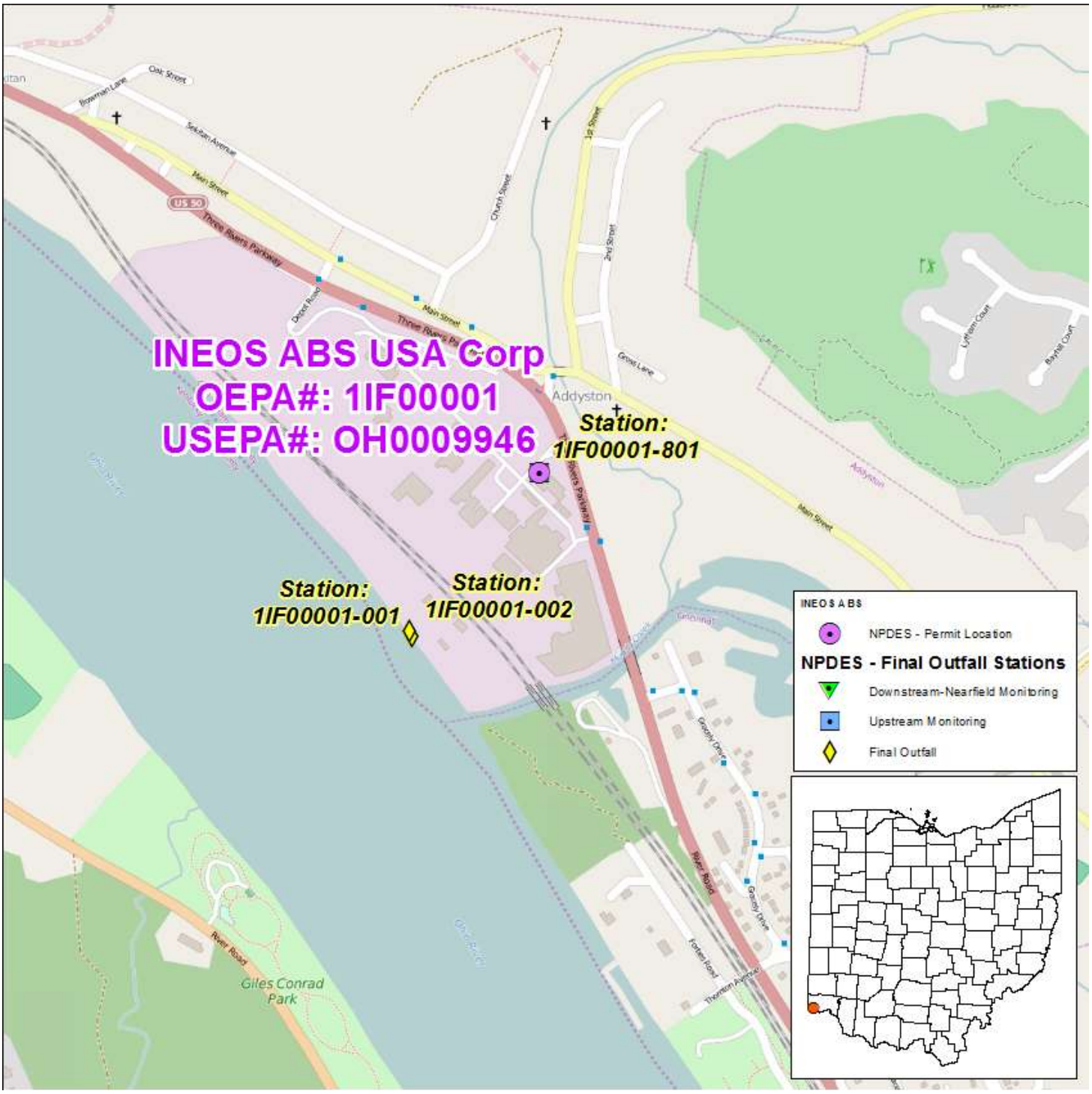

Table 1. Effluent Characterization from Self-Monitoring Data for Outfall 002 and Internal Stations 605, 606, and 607

Parameter	Season	Units	Current Permit Limits		# Obs.	Percentiles		Data Range
			30 day	Daily		50th	95th	
Outfall 002								
Water Temperature	Annual	°C	MONITOR		1633	23.6	26.8	38.6-65.3
pH	Annual	S.U.	6.0 - 9.0		147	7.43	7.61	6.31-7.98
Ammonia	Annual	mg/L	MONITOR		12	0.185	0.433	0.08-0.62
Flow Rate	Annual	MGD	MONITOR		1642	7.63	8.43	0-12.6
Chlorine, Total Residual	Annual	mg/L	--	0.038	212	0	0.03	0-0.17
Acute Toxicity, *Ceriodaphnia dubia*	Annual	TU_a	MONITOR		16	0	2.4	0-3.6
Internal Monitoring Station 605								
Biochemical Oxygen Demand, 5 Day	Annual	mg/L	24	64	5	0	0	0-0
pH	Annual	S.U.	6.0 - 9.0		3	7.14	7.28	6.91-7.3
Total Suspended Solids	Annual	mg/L	41	135	5	1	1.38	0.67-1.47
Ammonia	Annual	mg/L	MONITOR		3	0.15	0.15	0.04-0.15
Nitrogen Kjeldahl, Total	Annual	mg/L	MONITOR		3	0.343	0.538	0.32-0.56
Nitrite Plus Nitrate	Annual	mg/L	MONITOR		3	0.207	0.237	0.176-0.24
Carbon Tetrachloride	Annual	µg/L	142	380	5	0	0	0-0
Chloroform	Annual	µg/L	111	325	5	0	0	0-0
Toluene	Annual	µg/L	28	74	5	0	0	0-0
Benzene	Annual	µg/L	57	134	5	0	0	0-0
Acenaphthylene	Annual	µg/L	19	47	5	0	0	0-0
Acenaphthene	Annual	µg/L	19	47	5	0	0	0-0
Acrylonitrile	Annual	µg/L	94	232	5	0	2.25	0-2.81
Anthracene	Annual	µg/L	19	47	5	0	0	0-0
3,4-BenzoFluoranthene	Annual	µg/L	20	48	5	0	0	0-0
Benzo(k)Fluoranthene	Annual	µg/L	19	47	5	0	0	0-0
Benzo-A-Pyrene	Annual	µg/L	20	48	5	0	0	0-0
Chloroethane	Annual	µg/L	110	295	5	0	0	0-0
Chrysene	Annual	µg/L	19	47	5	0	0	0-0
Diethyl phthalate	Annual	µg/L	46	113	5	0	1.38	0-1.65
Dimethyl phthalate	Annual	µg/L	19	47	5	0	0	0-0
Ethylbenzene	Annual	µg/L	142	380	5	0	0	0-0
Fluoranthene	Annual	µg/L	22	54	5	0	0	0-0
Fluorene	Annual	µg/L	19	47	5	0	0	0-0
Hexachloroethane	Annual	µg/L	196	794	5	0	0	0-0

Table 1. Effluent Characterization from Self-Monitoring Data for Outfall 002 and Internal Stations 605, 606, and 607

Parameter	Season	Units	Current Permit Limits		# Obs.	Percentiles		Data Range
			30 day	Daily		50th	95th	
Methyl Chloride	Annual	µg/L	110	295	5	0	0	0-0
Methylene Chloride	Annual	µg/L	36	170	5	0	0	0-0
Nitrobenzene	Annual	µg/L	2237	6402	5	0	0	0-0
Phenanthrene	Annual	µg/L	19	47	5	0	0	0-0
Pyrene	Annual	µg/L	20	48	5	0	0	0-0
Tetrachloroethylene	Annual	µg/L	52	164	5	0	0	0-0
1,1-Dichloroethane	Annual	µg/L	22	59	5	0	0	0-0
1,1-Dichloroethylene	Annual	µg/L	22	60	5	0	0	0-0
1,1,1-Trichloroethane	Annual	µg/L	22	59	5	0	0	0-0
1,1,2-Trichloroethane	Annual	µg/L	32	127	5	0	0	0-0
Benzo(A)Anthracene	Annual	µg/L	19	47	5	0	0	0-0
1,2-Dichloroethane	Annual	µg/L	21	55	5	0	0	0-0
1,2-Dichlorobenzene	Annual	µg/L	196	794	5	0	0	0-0
1,2-Dichloropropane	Annual	µg/L	196	794	5	0	0	0-0
1,2-trans-Dichloroethylene	Annual	µg/L	25	66	5	0	0	0-0
1,2,4-Trichlorobenzene	Annual	µg/L	196	794	5	0	0	0-0
1,3-Dichlorobenzene	Annual	µg/L	142	380	5	0	0	0-0
1,4-Dichlorobenzene	Annual	µg/L	142	380	5	0	0	0-0
2-Nitrophenol	Annual	µg/L	65	231	5	0	0	0-0
2,4-Dimethylphenol	Annual	µg/L	19	47	5	0	0	0-0
2,4-Dinitrophenol	Annual	µg/L	1207	4291	5	0	0	0-0
4-Nitrophenol	Annual	µg/L	162	576	5	0	0	0-0
4,6-Dinitro-o-cresol	Annual	µg/L	78	277	5	0	0	0-0
Phenol	Annual	µg/L	19	47	5	0	0	0-0
Naphthalene	Annual	µg/L	19	47	5	0	0	0-0
Bis(2-ethylhexyl) Phthalate	Annual	µg/L	95	258	5	0	1.32	0-1.39
Di-N-Butylphthalate	Annual	µg/L	20	43	5	0	0	0-0
Vinyl Chloride	Annual	µg/L	97	172	5	0	0	0-0
Trichloroethylene	Annual	µg/L	26	69	5	0	0	0-0
Hexachlorobenzene	Annual	µg/L	0.165	794	5	0	0.0225	0-0.0281
Hexachlorobutadiene	Annual	µg/L	97	380	5	0	0	0-0
Chlorobenzene	Annual	µg/L	142	380	5	0	0	0-0
Flow Rate	Annual	MGD	MONITOR		5	0.491	0.537	0.362-0.549
1,3-Dichloropropylene	Annual	µg/L	196	794	5	0	0	0-0
Internal Monitoring Station 606								

Table 1. Effluent Characterization from Self-Monitoring Data for Outfall 002 and Internal Stations 605, 606, and 607

Parameter	Season	Units	Current Permit Limits		# Obs.	Percentiles		Data Range
			30 day	Daily		50th	95th	
Flow Rate	Annual	GPD	MONITOR		12	48000	48000	48000-48000
Nitrogen Kjeldahl, Total	Annual	mg/L	MONITOR		12	0.417	2.41	0-3.12
Carbon, Total Organic	Annual	mg/L	MONITOR		12	1.97	4.07	1-5.4
Internal Monitoring Station 607								
Flow Rate	Annual	GPD	MONITOR		12	6000	6000	6000-6000
Nitrogen Kjeldahl, Total	Annual	mg/L	MONITOR		12	0.969	5.72	0.33-7.84
Carbon, Total Organic	Annual	mg/L	MONITOR		12	2.11	6.33	0-6.9

Table 2. Description of Proposed Internal Monitoring Stations

Internal Station	Operations Contributing Flow	Average Flow (MGD)
608	E Kettle mill water tank/jacket system	2.88
609	C-6 styrene heat exchanger NCCW	0.122
610	C-7 styrene heat exchanger NCCW	0.122
611	1,3-butadiene sphere heat exchanger NCCW	0.058
612	MACT column (steam stripper) condenser NCCW	0.086
613	D Kettle mill water tank/jacket system	2.16
614	1,3-butadiene emulsion scrub area water separator	0.036
615	1,3-butadiene emulsion scrub area caustic separator	0.036
616	1,3-butadiene emulsion scrub area storage tank	0.036

MACT = Maximum Achievable Control Technology
NCCW = non-contact cooling water

Table 3. Final Effluent Limits and Monitoring Requirements for New Internal Stations

Parameter	Units	Concentration		Loading (kg/day)[a]		Basis[b]
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
Outfall 002						
Water Temperature	°C	- - - - - - - - - - - - Monitor - - - - - - - - - - -				M[c]
pH	SU	6.0-9.0		--	--	WQS, BTJ, ABS
Ammonia	mg/L	- - - - - - - - - - - - Monitor - - - - - - - - - - -				M[c]
Sulfite	mg/L	0.5 Minimum		--	--	BTJ
Flow rate	MGD	- - - - - - - - - - - - Monitor - - - - - - - - - - -				M[c]
Whole Effluent Toxicity						
Acute, *Ceriodaphnia dubia*	TU_a	- - - - - - - - - - - - Monitor - - - - - - - - - - -				M[c]
Internal Monitoring Station 608						
Biochemical Oxygen Demand, 5 Day	mg/L	24	64	262	698	ELG
Total Suspended Solids	mg/L	40	130	437	1420	ELG
Carbon Tetrachloride	µg/L	142	380	1.55	4.15	ELG
Chloroform	µg/L	111	325	1.21	3.55	ELG
Toluene	µg/L	28	74	0.306	0.807	ELG
Benzene	µg/L	57	134	0.622	1.47	ELG
Acenaphthylene	µg/L	19	47	0.208	0.513	ELG
Acenaphthene	µg/L	19	47	0.208	0.513	ELG
Acrylonitrile	µg/L	94	232	1.03	2.53	ELG
Anthracene	µg/L	19	47	0.208	0.513	ELG
3,4-BenzoFluoranthene	µg/L	20	48	0.219	0.524	ELG
Benzo(k)Fluoranthene	µg/L	19	47	0.208	0.513	ELG
Benzo-A-Pyrene	µg/L	20	48	0.219	0.524	ELG
Chloroethane	µg/L	110	295	1.2	3.22	ELG
Chrysene	µg/L	19	47	0.208	0.513	ELG
Diethyl phthalate	µg/L	46	113	0.502	1.24	ELG
Dimethyl phthalate	µg/L	19	47	0.208	0.513	ELG
Ethylbenzene	µg/L	142	380	1.55	4.15	ELG
Fluoranthene	µg/L	22	54	0.24	0.589	ELG
Fluorene	µg/L	19	47	0.208	0.513	ELG
Hexachloroethane	µg/L	196	794	2.14	8.66	ELG
Methyl Chloride	µg/L	110	295	1.2	3.22	ELG
Methylene Chloride	µg/L	36	170	0.393	1.86	ELG

Table 3. Final Effluent Limits and Monitoring Requirements for New Internal Stations

Parameter	Units	Concentration		Loading (kg/day)[a]		Basis[b]
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
Nitrobenzene	µg/L	2237	6402	24.4	69.8	ELG
Phenanthrene	µg/L	19	47	0.208	0.513	ELG
Pyrene	µg/L	20	48	0.219	0.524	ELG
Tetrachloroethylene	µg/L	52	164	0.567	1.79	ELG
1,1-Dichloroethane	µg/L	22	59	0.24	0.644	ELG
1,1-Dichloroethylene	µg/L	22	60	0.24	0.655	ELG
1,1,1-Trichloroethane	µg/L	22	59	0.24	0.644	ELG
1,1,2-Trichloroethane	µg/L	32	127	0.349	1.39	ELG
Benzo(A)Anthracene	µg/L	19	47	0.208	0.513	ELG
1,2-Dichloroethane	µg/L	21	55	0.229	0.6	ELG
1,2-Dichlorobenzene	µg/L	196	794	2.14	8.66	ELG
1,2-Dichloropropane	µg/L	196	794	2.14	8.66	ELG
1,2-trans-Dichloroethylene	µg/L	25	66	0.273	0.72	ELG
1,2,4-Trichlorobenzene	µg/L	196	794	2.14	8.66	ELG
1,3-Dichlorobenzene	µg/L	142	380	1.55	4.15	ELG
1,4-Dichlorobenzene	µg/L	142	380	1.55	4.15	ELG
2-Nitrophenol	µg/L	65	231	0.709	2.52	ELG
2,4-Dimethylphenol	µg/L	19	47	0.208	0.513	ELG
2,4-Dinitrophenol	µg/L	1207	4291	13.2	46.8	ELG
4-Nitrophenol	µg/L	162	576	1.77	6.28	ELG
4,6-Dinitro-o-cresol	µg/L	78	277	0.851	3.02	ELG
Phenol	µg/L	19	47	0.208	0.513	ELG
Naphthalene	µg/L	19	47	0.208	0.513	ELG
Bis(2-ethylhexyl) Phthalate	µg/L	95	258	1.04	2.82	ELG
Di-N-Butylphthalate	µg/L	20	73	0.219	0.469	ELG
Vinyl Chloride	µg/L	97	172	1.06	1.88	ELG
Trichloroethylene	µg/L	26	69	0.284	0.753	ELG
Hexachlorobenzene	µg/L	0.165	794	0.0018	8.66	ELG
Hexachlorobutadiene	µg/L	97	380	1.06	4.15	ELG
Chlorobenzene	µg/L	142	380	1.55	4.15	ELG
Flow Rate	MGD	- - - - - - - - - - - - Monitor - - - - - - - - - - -				M[c]
1,3-Dichloropropylene	µg/L	196	794	2.14	8.66	ELG
<u>Internal Monitoring Station 609</u>						
Biochemical Oxygen Demand, 5 Day	mg/L	24	64	11.2	29.7	ELG

Table 3. Final Effluent Limits and Monitoring Requirements for New Internal Stations

Parameter	Units	Concentration		Loading (kg/day)[a]		Basis[b]
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
Total Suspended Solids	mg/L	40	130	18.6	60.3	ELG
Carbon Tetrachloride	µg/L	142	380	0.0658	0.177	ELG
Chloroform	µg/L	111	325	0.0515	0.151	ELG
Toluene	µg/L	28	74	0.013	0.0343	ELG
Benzene	µg/L	57	134	0.0265	0.0621	ELG
Acenaphthylene	µg/L	19	47	0.00881	0.0218	ELG
Acenaphthene	µg/L	19	47	0.00881	0.0218	ELG
Acrylonitrile	µg/L	94	232	0.0436	0.108	ELG
Anthracene	µg/L	19	47	0.00881	0.0218	ELG
3,4-BenzoFluoranthene	µg/L	20	48	0.00927	0.0223	ELG
Benzo(k)Fluoranthene	µg/L	19	47	0.00881	0.0218	ELG
Benzo-A-Pyrene	µg/L	20	48	0.00927	0.0223	ELG
Chloroethane	µg/L	110	295	0.051	0.137	ELG
Chrysene	µg/L	19	47	0.00881	0.0218	ELG
Diethyl phthalate	µg/L	46	113	0.0214	0.0524	ELG
Dimethyl phthalate	µg/L	19	47	0.00881	0.0218	ELG
Ethylbenzene	µg/L	142	380	0.0658	0.177	ELG
Fluoranthene	µg/L	22	54	0.0102	0.0251	ELG
Fluorene	µg/L	19	47	0.00881	0.0218	ELG
Hexachloroethane	µg/L	196	794	0.0909	0.368	ELG
Methyl Chloride	µg/L	110	295	0.051	0.137	ELG
Methylene Chloride	µg/L	36	170	0.0167	0.0788	ELG
Nitrobenzene	µg/L	2237	6402	1.04	2.97	ELG
Phenanthrene	µg/L	19	47	0.00881	0.0218	ELG
Pyrene	µg/L	20	48	0.00927	0.0223	ELG
Tetrachloroethylene	µg/L	52	164	0.0241	0.076	ELG
1,1-Dichloroethane	µg/L	22	59	0.0102	0.0274	ELG
1,1-Dichloroethylene	µg/L	22	60	0.0102	0.0278	ELG
1,1,1-Trichloroethane	µg/L	22	59	0.0102	0.0274	ELG
1,1,2-Trichloroethane	µg/L	32	127	0.0149	0.0589	ELG
Benzo(A)Anthracene	µg/L	19	47	0.00881	0.0218	ELG
1,2-Dichloroethane	µg/L	21	55	0.00973	0.0255	ELG
1,2-Dichlorobenzene	µg/L	196	794	0.0909	0.368	ELG
1,2-Dichloropropane	µg/L	196	794	0.0909	0.368	ELG
1,2-trans-Dichloroethylene	µg/L	25	66	0.0116	0.306	ELG
1,2,4-Trichlorobenzene	µg/L	196	794	0.0909	0.368	ELG
1,3-Dichlorobenzene	µg/L	142	380	0.0658	0.177	ELG

Table 3. Final Effluent Limits and Monitoring Requirements for New Internal Stations

Parameter	Units	Concentration		Loading (kg/day)[a]		Basis[b]
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
1,4-Dichlorobenzene	µg/L	142	380	0.0658	0.177	ELG
2-Nitrophenol	µg/L	65	231	0.0302	0.108	ELG
2,4-Dimethylphenol	µg/L	19	47	0.00881	0.0218	ELG
2,4-Dinitrophenol	µg/L	1207	4291	0.56	1.99	ELG
4-Nitrophenol	µg/L	162	576	0.0751	0.267	ELG
4,6-Dinitro-o-cresol	µg/L	78	277	0.0362	0.129	ELG
Phenol	µg/L	19	47	0.00881	0.0218	ELG
Naphthalene	µg/L	19	47	0.00881	0.0218	ELG
Bis(2-ethylhexyl) Phthalate	µg/L	95	258	0.0441	0.12	ELG
Di-N-Butylphthalate	µg/L	20	73	0.00927	0.0199	ELG
Vinyl Chloride	µg/L	97	172	0.045	0.0797	ELG
Trichloroethylene	µg/L	26	69	0.0121	0.032	ELG
Hexachlorobenzene	µg/L	0.165	794	0.000077	0.368	ELG
Hexachlorobutadiene	µg/L	97	380	0.045	0.177	ELG
Chlorobenzene	µg/L	142	380	0.02658	0.177	ELG
Flow Rate	MGD	- - - - - - - - - - - - Monitor - - - - - - - - - - -				M[c]
1,3-Dichloropropylene	µg/L	196	794	0.0909	0.368	ELG
Internal Monitoring Station 610						
Biochemical Oxygen Demand, 5 Day	mg/L	24	64	11.2	29.7	ELG
Total Suspended Solids	mg/L	40	130	18.6	60.3	ELG
Carbon Tetrachloride	µg/L	142	380	0.0658	0.177	ELG
Chloroform	µg/L	111	325	0.0515	0.151	ELG
Toluene	µg/L	28	74	0.013	0.0343	ELG
Benzene	µg/L	57	134	0.0265	0.0621	ELG
Acenaphthylene	µg/L	19	47	0.00881	0.0218	ELG
Acenaphthene	µg/L	19	47	0.00881	0.0218	ELG
Acrylonitrile	µg/L	94	232	0.0436	0.108	ELG
Anthracene	µg/L	19	47	0.00881	0.0218	ELG
3,4-BenzoFluoranthene	µg/L	20	48	0.00927	0.0223	ELG
Benzo(k)Fluoranthene	µg/L	19	47	0.00881	0.0218	ELG
Benzo-A-Pyrene	µg/L	20	48	0.00927	0.0223	ELG
Chloroethane	µg/L	110	295	0.051	0.137	ELG
Chrysene	µg/L	19	47	0.00881	0.0218	ELG
Diethyl phthalate	µg/L	46	113	0.0214	0.0524	ELG

Table 3. Final Effluent Limits and Monitoring Requirements for New Internal Stations

Parameter	Units	Concentration		Loading (kg/day)[a]		Basis[b]
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
Dimethyl phthalate	µg/L	19	47	0.00881	0.0218	ELG
Ethylbenzene	µg/L	142	380	0.0658	0.177	ELG
Fluoranthene	µg/L	22	54	0.0102	0.0251	ELG
Fluorene	µg/L	19	47	0.00881	0.0218	ELG
Hexachloroethane	µg/L	196	794	0.0909	0.368	ELG
Methyl Chloride	µg/L	110	295	0.051	0.137	ELG
Methylene Chloride	µg/L	36	170	0.0167	0.0788	ELG
Nitrobenzene	µg/L	2237	6402	1.04	2.97	ELG
Phenanthrene	µg/L	19	47	0.00881	0.0218	ELG
Pyrene	µg/L	20	48	0.00927	0.0223	ELG
Tetrachloroethylene	µg/L	52	164	0.0241	0.076	ELG
1,1-Dichloroethane	µg/L	22	59	0.0102	0.0274	ELG
1,1-Dichloroethylene	µg/L	22	60	0.0102	0.0278	ELG
1,1,1-Trichloroethane	µg/L	22	59	0.0102	0.0274	ELG
1,1,2-Trichloroethane	µg/L	32	127	0.0149	0.0589	ELG
Benzo(A)Anthracene	µg/L	19	47	0.00881	0.0218	ELG
1,2-Dichloroethane	µg/L	21	55	0.00973	0.0255	ELG
1,2-Dichlorobenzene	µg/L	196	794	0.0909	0.368	ELG
1,2-Dichloropropane	µg/L	196	794	0.0909	0.0368	ELG
1,2-trans-Dichloroethylene	µg/L	25	66	0.0116	0.0306	ELG
1,2,4-Trichlorobenzene	µg/L	196	794	0.0909	0.0368	ELG
1,3-Dichlorobenzene	µg/L	142	380	0.0658	0.177	ELG
1,4-Dichlorobenzene	µg/L	142	380	0.0658	0.177	ELG
2-Nitrophenol	µg/L	65	231	0.0302	0.108	ELG
2,4-Dimethylphenol	µg/L	19	47	0.00881	0.0218	ELG
2,4-Dinitrophenol	µg/L	1207	4291	0.559	1.99	ELG
4-Nitrophenol	µg/L	162	576	0.0751	0.267	ELG
4,6-Dinitro-o-cresol	µg/L	78	277	0.0362	0.129	ELG
Phenol	µg/L	19	47	0.00881	0.0218	ELG
Naphthalene	µg/L	19	47	0.00881	0.0218	ELG
Bis(2-ethylhexyl) Phthalate	µg/L	95	258	0.0441	0.12	ELG
Di-N-Butylphthalate	µg/L	20	73	0.00927	0.0199	ELG
Vinyl Chloride	µg/L	97	172	0.045	0.0797	ELG
Trichloroethylene	µg/L	26	69	0.0121	0.032	ELG
Hexachlorobenzene	µg/L	0.165	794	0.000077	0.368	ELG
Hexachlorobutadiene	µg/L	97	380	0.045	0.177	ELG

Table 3. Final Effluent Limits and Monitoring Requirements for New Internal Stations

Parameter	Units	Concentration		Loading (kg/day)[a]		Basis[b]
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
Chlorobenzene	µg/L	142	380	0.0658	0.177	ELG
Flow Rate	MGD	- - - - - - - - - - - - Monitor - - - - - - - - - - -				M[c]
1,3-Dichloropropylene	µg/L	196	794	0.0909	0.368	ELG
<u>Internal Monitoring Station 611</u>						
Biochemical Oxygen Demand, 5 Day	mg/L	24	64	5.24	14	ELG
Total Suspended Solids	mg/L	40	130	8.73	28.4	ELG
Carbon Tetrachloride	µg/L	142	380	0.031	0.0829	ELG
Chloroform	µg/L	111	325	0.0709	0.0242	ELG
Toluene	µg/L	28	74	0.00611	0.0162	ELG
Benzene	µg/L	57	134	0.0125	0.0293	ELG
Acenaphthylene	µg/L	19	47	0.00415	0.0103	ELG
Acenaphthene	µg/L	19	47	0.00415	0.0103	ELG
Acrylonitrile	µg/L	94	232	0.0205	0.0506	ELG
Anthracene	µg/L	19	47	0.00415	0.0103	ELG
3,4-BenzoFluoranthene	µg/L	20	48	0.00437	0.0105	ELG
Benzo(k)Fluoranthene	µg/L	19	47	0.00415	0.0103	ELG
Benzo-A-Pyrene	µg/L	20	48	0.00437	0.0105	ELG
Chloroethane	µg/L	110	295	0.024	0.0644	ELG
Chrysene	µg/L	19	47	0.00415	0.0103	ELG
Diethyl phthalate	µg/L	46	113	0.0101	0.0247	ELG
Dimethyl phthalate	µg/L	19	47	0.00415	0.0103	ELG
Ethylbenzene	µg/L	142	380	0.031	0.0829	ELG
Fluoranthene	µg/L	22	54	0.0048	0.0118	ELG
Fluorene	µg/L	19	47	0.00415	0.0103	ELG
Hexachloroethane	µg/L	196	794	0.0428	0.174	ELG
Methyl Chloride	µg/L	110	295	0.024	0.0644	ELG
Methylene Chloride	µg/L	36	170	0.00785	0.0371	ELG
Nitrobenzene	µg/L	2237	6402	0.488	1.4	ELG
Phenanthrene	µg/L	19	47	0.00415	0.0103	ELG
Pyrene	µg/L	20	48	0.00437	0.0105	ELG
Tetrachloroethylene	µg/L	52	164	0.0114	0.0358	ELG
1,1-Dichloroethane	µg/L	22	59	0.0048	0.0129	ELG
1,1-Dichloroethylene	µg/L	22	60	0.0048	0.0131	ELG
1,1,1-Trichloroethane	µg/L	22	59	0.0048	0.0131	ELG
1,1,2-Trichloroethane	µg/L	32	127	0.00698	0.0277	ELG

Table 3. Final Effluent Limits and Monitoring Requirements for New Internal Stations

Parameter	Units	Concentration		Loading (kg/day)[a]		Basis[b]
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
Benzo(A)Anthracene	µg/L	19	47	0.00415	0.0103	ELG
1,2-Dichloroethane	µg/L	21	55	0.00458	0.012	ELG
1,2-Dichlorobenzene	µg/L	196	794	0.0428	0.174	ELG
1,2-Dichloropropane	µg/L	196	794	0.0428	0.174	ELG
1,2-trans-Dichloroethylene	µg/L	25	66	0.00546	0.0144	ELG
1,2,4-Trichlorobenzene	µg/L	196	794	0.0428	0.174	ELG
1,3-Dichlorobenzene	µg/L	142	380	0.0829	0.031	ELG
1,4-Dichlorobenzene	µg/L	142	380	0.0829	0.031	ELG
2-Nitrophenol	µg/L	65	231	0.0142	0.0504	ELG
2,4-Dimethylphenol	µg/L	19	47	0.00415	0.0103	ELG
2,4-Dinitrophenol	µg/L	1207	4291	0.264	0.936	ELG
4-Nitrophenol	µg/L	162	576	0.0354	0.126	ELG
4,6-Dinitro-o-cresol	µg/L	78	277	0.0171	0.0604	ELG
Phenol	µg/L	19	47	0.00415	0.0103	ELG
Naphthalene	µg/L	19	47	0.00415	0.0103	ELG
Bis(2-ethylhexyl) Phthalate	µg/L	95	258	0.0208	0.0563	ELG
Di-N-Butylphthalate	µg/L	20	73	0.00437	0.00938	ELG
Vinyl Chloride	µg/L	97	172	0.0212	0.0375	ELG
Trichloroethylene	µg/L	26	69	0.00567	0.0151	ELG
Hexachlorobenzene	µg/L	0.165	794	0.000036	0.174	ELG
Hexachlorobutadiene	µg/L	97	380	0.0212	0.0829	ELG
Chlorobenzene	µg/L	142	380	0.031	0.0829	ELG
Flow Rate	MGD	- - - - - - - - - - - - Monitor - - - - - - - - - - -				M[c]
1,3-Dichloropropylene	µg/L	196	794	0.174	0.0428	ELG
<u>Internal Monitoring Station 612</u>						
Biochemical Oxygen Demand, 5 Day	mg/L	24	64	7.85	21	ELG
Total Suspended Solids	mg/L	40	130	13.1	42.6	ELG
Carbon Tetrachloride	µg/L	142	380	0.0465	0.125	ELG
Chloroform	µg/L	111	325	0.0363	0.107	ELG
Toluene	µg/L	28	74	0.00916	0.0242	ELG
Benzene	µg/L	57	134	0.0187	0.0439	ELG
Acenaphthylene	µg/L	19	47	0.00622	0.0154	ELG
Acenaphthene	µg/L	19	47	0.00622	0.0154	ELG
Acrylonitrile	µg/L	94	232	0.0308	0.0759	ELG

Table 3. Final Effluent Limits and Monitoring Requirements for New Internal Stations

Parameter	Units	Concentration		Loading (kg/day)[a]		Basis[b]
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
Anthracene	µg/L	19	47	0.00622	0.0154	ELG
3,4-BenzoFluoranthene	µg/L	20	48	0.00655	0.0157	ELG
Benzo(k)Fluoranthene	µg/L	19	47	0.00622	0.0154	ELG
Benzo-A-Pyrene	µg/L	20	48	0.00655	0.0157	ELG
Chloroethane	µg/L	110	295	0.036	0.0965	ELG
Chrysene	µg/L	19	47	0.00622	0.0154	ELG
Diethyl phthalate	µg/L	46	113	0.0151	0.037	ELG
Dimethyl phthalate	µg/L	19	47	0.00622	0.0154	ELG
Ethylbenzene	µg/L	142	380	0.0465	0.125	ELG
Fluoranthene	µg/L	22	54	0.0072	0.0177	ELG
Fluorene	µg/L	19	47	0.00622	0.0154	ELG
Hexachloroethane	µg/L	196	794	0.0641	0.26	ELG
Methyl Chloride	µg/L	110	295	0.036	0.0965	ELG
Methylene Chloride	µg/L	36	170	0.0118	0.0556	ELG
Nitrobenzene	µg/L	2237	6402	0.732	2.09	ELG
Phenanthrene	µg/L	19	47	0.00622	0.0154	ELG
Pyrene	µg/L	20	48	0.00655	0.0157	ELG
Tetrachloroethylene	µg/L	52	164	0.0171	0.0537	ELG
1,1-Dichloroethane	µg/L	22	59	0.0072	0.0193	ELG
1,1-Dichloroethylene	µg/L	22	60	0.0072	0.0197	ELG
1,1,1-Trichloroethane	µg/L	22	59	0.0072	0.0193	ELG
1,1,2-Trichloroethane	µg/L	32	127	0.0105	0.0416	ELG
Benzo(A)Anthracene	µg/L	19	47	0.00622	0.0154	ELG
1,2-Dichloroethane	µg/L	21	55	0.00687	0.018	ELG
1,2-Dichlorobenzene	µg/L	196	794	0.0641	0.26	ELG
1,2-Dichloropropane	µg/L	196	794	0.0641	0.26	ELG
1,2-trans-Dichloroethylene	µg/L	25	66	0.00818	0.0216	ELG
1,2,4-Trichlorobenzene	µg/L	196	794	0.0641	0.26	ELG
1,3-Dichlorobenzene	µg/L	142	380	0.0465	0.125	ELG
1,4-Dichlorobenzene	µg/L	142	380	0.0465	0.125	ELG
2-Nitrophenol	µg/L	65	231	0.0213	0.0756	ELG
2,4-Dimethylphenol	µg/L	19	47	0.00622	0.0154	ELG
2,4-Dinitrophenol	µg/L	1207	4291	0.395	1.4	ELG
4-Nitrophenol	µg/L	162	576	0.053	0.189	ELG
4,6-Dinitro-o-cresol	µg/L	78	277	0.0256	0.0906	ELG
Phenol	µg/L	19	47	0.00622	0.0154	ELG
Naphthalene	µg/L	19	47	0.00622	0.0154	ELG

Table 3. Final Effluent Limits and Monitoring Requirements for New Internal Stations

Parameter	Units	Concentration		Loading (kg/day)[a]		Basis[b]
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
Bis(2-ethylhexyl) Phthalate	µg/L	95	258	0.0311	0.0844	ELG
Di-N-Butylphthalate	µg/L	20	73	0.00655	0.0141	ELG
Vinyl Chloride	µg/L	97	172	0.0318	0.0563	ELG
Trichloroethylene	µg/L	26	69	0.00851	0.0226	ELG
Hexachlorobenzene	µg/L	0.165	794	0.000054	0.26	ELG
Hexachlorobutadiene	µg/L	97	380	0.0318	0.125	ELG
Chlorobenzene	µg/L	142	380	0.0465	0.125	ELG
Flow Rate	MGD	- - - - - - - - - - - - Monitor - - - - - - - - - - -				M[c]
1,3-Dichloropropylene	µg/L	196	794	0.0641	0.26	ELG
<u>Internal Monitoring Station 613</u>						
Biochemical Oxygen Demand, 5 Day	mg/L	24	64	197	524	ELG
Total Suspended Solids	mg/L	40	130	328	1070	ELG
Carbon Tetrachloride	µg/L	142	380	1.17	3.11	ELG
Chloroform	µg/L	111	325	0.908	2.66	ELG
Toluene	µg/L	28	74	0.229	0.605	ELG
Benzene	µg/L	57	134	0.467	1.1	ELG
Acenaphthylene	µg/L	19	47	0.156	0.385	ELG
Acenaphthene	µg/L	19	47	0.156	0.385	ELG
Acrylonitrile	µg/L	94	232	0.769	1.9	ELG
Anthracene	µg/L	19	47	0.156	0.385	ELG
3,4-BenzoFluoranthene	µg/L	20	48	0.164	0.393	ELG
Benzo(k)Fluoranthene	µg/L	19	47	0.156	0.385	ELG
Benzo-A-Pyrene	µg/L	20	48	0.164	0.393	ELG
Chloroethane	µg/L	110	295	0.899	2.42	ELG
Chrysene	µg/L	19	47	0.156	0.385	ELG
Diethyl phthalate	µg/L	46	113	0.377	0.924	ELG
Dimethyl phthalate	µg/L	19	47	0.156	0.285	ELG
Ethylbenzene	µg/L	142	380	1.17	3.11	ELG
Fluoranthene	µg/L	22	54	0.18	0.442	ELG
Fluorene	µg/L	19	47	0.156	0.385	ELG
Hexachloroethane	µg/L	196	794	1.61	6.5	ELG
Methyl Chloride	µg/L	110	295	0.899	2.42	ELG
Methylene Chloride	µg/L	36	170	0.295	1.39	ELG
Nitrobenzene	µg/L	2237	6402	18.3	52.4	ELG

Table 3. Final Effluent Limits and Monitoring Requirements for New Internal Stations

Parameter	Units	Concentration		Loading (kg/day)[a]		Basis[b]
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
Phenanthrene	µg/L	19	47	0.156	0.385	ELG
Pyrene	µg/L	20	48	0.164	0.393	ELG
Tetrachloroethylene	µg/L	52	164	0.426	1.35	ELG
1,1-Dichloroethane	µg/L	22	59	0.18	0.483	ELG
1,1-Dichloroethylene	µg/L	22	60	0.18	0.491	ELG
1,1,1-Trichloroethane	µg/L	22	59	0.18	0.483	ELG
1,1,2-Trichloroethane	µg/L	32	127	0.262	1.04	ELG
Benzo(A)Anthracene	µg/L	19	47	0.156	0.385	ELG
1,2-Dichloroethane	µg/L	21	55	0.172	0.45	ELG
1,2-Dichlorobenzene	µg/L	196	794	1.61	6.5	ELG
1,2-Dichloropropane	µg/L	196	794	1.61	6.5	ELG
1,2-trans-Dichloroethylene	µg/L	25	66	0.205	0.54	ELG
1,2,4-Trichlorobenzene	µg/L	196	794	1.61	6.5	ELG
1,3-Dichlorobenzene	µg/L	142	380	1.17	3.11	ELG
1,4-Dichlorobenzene	µg/L	142	380	1.17	3.11	ELG
2-Nitrophenol	µg/L	65	231	0.532	1.89	ELG
2,4-Dimethylphenol	µg/L	19	47	0.156	0.385	ELG
2,4-Dinitrophenol	µg/L	1207	4291	9.87	35.1	ELG
4-Nitrophenol	µg/L	162	576	1.33	4.71	ELG
4,6-Dinitro-o-cresol	µg/L	78	277	0.0638	2.27	ELG
Phenol	µg/L	19	47	0.156	0.385	ELG
Naphthalene	µg/L	19	47	0.156	0.385	ELG
Bis(2-ethylhexyl) Phthalate	µg/L	95	258	0.777	2.11	ELG
Di-N-Butylphthalate	µg/L	20	73	0.164	0.352	ELG
Vinyl Chloride	µg/L	97	172	0.794	1.41	ELG
Trichloroethylene	µg/L	26	69	0.213	0.565	ELG
Hexachlorobenzene	µg/L	0.165	794	0.00135	6.5	ELG
Hexachlorobutadiene	µg/L	97	380	0.794	3.11	ELG
Chlorobenzene	µg/L	142	380	1.17	3.11	ELG
Flow Rate	MGD	- - - - - - - - - - - - Monitor - - - - - - - - - - -				M[c]
1,3-Dichloropropylene	µg/L	196	794	1.61	6.5	ELG
<u>Internal Monitoring Station 614</u>						
Biochemical Oxygen Demand, 5 Day	mg/L	24	64	3.28	8.73	ELG
Total Suspended Solids	mg/L	40	130	5.46	17.8	ELG

Table 3. Final Effluent Limits and Monitoring Requirements for New Internal Stations

Parameter	Units	Concentration		Loading (kg/day)[a]		Basis[b]
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
Carbon Tetrachloride	µg/L	142	380	0.0194	0.0518	ELG
Chloroform	µg/L	111	325	0.0152	0.0443	ELG
Toluene	µg/L	28	74	0.00382	0.0101	ELG
Benzene	µg/L	57	134	0.00777	0.0183	ELG
Acenaphthylene	µg/L	19	47	0.00259	0.00641	ELG
Acenaphthene	µg/L	19	47	0.00259	0.00641	ELG
Acrylonitrile	µg/L	94	232	0.0129	0.0317	ELG
Anthracene	µg/L	19	47	0.00259	0.00641	ELG
3,4-BenzoFluoranthene	µg/L	20	48	0.00273	0.00655	ELG
Benzo(k)Fluoranthene	µg/L	19	47	0.00259	0.00641	ELG
Benzo-A-Pyrene	µg/L	20	48	0.00273	0.00655	ELG
Chloroethane	µg/L	110	295	0.015	0.0402	ELG
Chrysene	µg/L	19	47	0.00259	0.00641	ELG
Diethyl phthalate	µg/L	46	113	0.00627	0.0154	ELG
Dimethyl phthalate	µg/L	19	47	0.00259	0.00641	ELG
Ethylbenzene	µg/L	142	380	0.0194	0.0518	ELG
Fluoranthene	µg/L	22	54	0.00300	0.00736	ELG
Fluorene	µg/L	19	47	0.00259	0.00641	ELG
Hexachloroethane	µg/L	196	794	0.0268	0.109	ELG
Methyl Chloride	µg/L	110	295	0.015	0.0402	ELG
Methylene Chloride	µg/L	36	170	0.00491	0.0232	ELG
Nitrobenzene	µg/L	2237	6402	0.305	0.873	ELG
Phenanthrene	µg/L	19	47	0.00259	0.00641	ELG
Pyrene	µg/L	20	48	0.00273	0.00655	ELG
Tetrachloroethylene	µg/L	52	164	0.00709	0.0224	ELG
1,1-Dichloroethane	µg/L	22	59	0.00300	0.00804	ELG
1,1-Dichloroethylene	µg/L	22	60	0.00300	0.00818	ELG
1,1,1-Trichloroethane	µg/L	22	59	0.00300	0.00804	ELG
1,1,2-Trichloroethane	µg/L	32	127	0.00437	0.0174	ELG
Benzo(A)Anthracene	µg/L	19	47	0.00259	0.00641	ELG
1,2-Dichloroethane	µg/L	21	55	0.00287	0.0075	ELG
1,2-Dichlorobenzene	µg/L	196	794	0.0268	0.109	ELG
1,2-Dichloropropane	µg/L	196	794	0.0268	0.109	ELG
1,2-trans-Dichloroethylene	µg/L	25	66	0.00341	0.00899	ELG
1,2,4-Trichlorobenzene	µg/L	196	794	0.0268	0.109	ELG
1,3-Dichlorobenzene	µg/L	142	380	0.0194	0.0518	ELG
1,4-Dichlorobenzene	µg/L	142	380	0.0194	0.0518	ELG

Table 3. Final Effluent Limits and Monitoring Requirements for New Internal Stations

Parameter	Units	Concentration		Loading (kg/day)[a]		Basis[b]
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
2-Nitrophenol	µg/L	65	231	0.00886	0.0315	ELG
2,4-Dimethylphenol	µg/L	19	47	0.00259	0.00641	ELG
2,4-Dinitrophenol	µg/L	1207	4291	0.165	0.585	ELG
4-Nitrophenol	µg/L	162	576	0.0221	0.0785	ELG
4,6-Dinitro-o-cresol	µg/L	78	277	0.0107	0.0378	ELG
Phenol	µg/L	19	47	0.00259	0.00641	ELG
Naphthalene	µg/L	19	47	0.00259	0.00641	ELG
Bis(2-ethylhexyl) Phthalate	µg/L	95	259	0.013	0.0352	ELG
Di-N-Butylphthalate	µg/L	20	73	0.00273	0.00586	ELG
Vinyl Chloride	µg/L	97	172	0.0133	0.0235	ELG
Trichloroethylene	µg/L	26	69	0.00355	0.00941	ELG
Hexachlorobenzene	µg/L	0.165	794	0.000023	0.109	ELG
Hexachlorobutadiene	µg/L	97	380	0.0133	0.0518	ELG
Chlorobenzene	µg/L	142	380	0.0194	0.0518	ELG
Flow Rate	MGD	- - - - - - - - - - - - Monitor - - - - - - - - - - -				M[c]
1,3-Dichloropropylene	µg/L	196	794	0.0268	0.109	ELG
<u>Internal Monitoring Station 615</u>						
Biochemical Oxygen Demand, 5 Day	mg/L	24	64	3.28	8.73	ELG
Total Suspended Solids	mg/L	40	130	5.46	17.8	ELG
Carbon Tetrachloride	µg/L	142	380	0.0194	0.0518	ELG
Chloroform	µg/L	111	325	0.0152	0.0443	ELG
Toluene	µg/L	28	74	0.00382	0.0101	ELG
Benzene	µg/L	57	134	0.00777	0.0183	ELG
Acenaphthylene	µg/L	19	47	0.00259	0.00641	ELG
Acenaphthene	µg/L	19	47	0.00259	0.00641	ELG
Acrylonitrile	µg/L	94	232	0.0129	0.0317	ELG
Anthracene	µg/L	19	47	0.00259	0.00641	ELG
3,4-BenzoFluoranthene	µg/L	20	48	0.00273	0.00655	ELG
Benzo(k)Fluoranthene	µg/L	19	47	0.00259	0.00641	ELG
Benzo-A-Pyrene	µg/L	20	48	0.00273	0.00655	ELG
Chloroethane	µg/L	110	295	0.015	0.0402	ELG
Chrysene	µg/L	19	47	0.00259	0.00641	ELG
Diethyl phthalate	µg/L	46	113	0.00627	0.0154	ELG
Dimethyl phthalate	µg/L	19	47	0.00259	0.00641	ELG
Ethylbenzene	µg/L	142	380	0.0194	0.0518	ELG

Table 3. Final Effluent Limits and Monitoring Requirements for New Internal Stations

Parameter	Units	Concentration		Loading (kg/day)[a]		Basis[b]
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
Fluoranthene	µg/L	22	54	0.00300	0.00736	ELG
Fluorene	µg/L	19	47	0.00259	0.00641	ELG
Hexachloroethane	µg/L	196	794	0.0268	0.109	ELG
Methyl Chloride	µg/L	110	295	0.015	0.0402	ELG
Methylene Chloride	µg/L	36	170	0.00491	0.0232	ELG
Nitrobenzene	µg/L	2237	6402	0.305	0.873	ELG
Phenanthrene	µg/L	19	47	0.00259	0.00641	ELG
Pyrene	µg/L	20	48	0.00273	0.00655	ELG
Tetrachloroethylene	µg/L	52	164	0.00709	0.0224	ELG
1,1-Dichloroethane	µg/L	22	59	0.00300	0.00804	ELG
1,1-Dichloroethylene	µg/L	22	60	0.00300	0.00818	ELG
1,1,1-Trichloroethane	µg/L	22	59	0.00300	0.00804	ELG
1,1,2-Trichloroethane	µg/L	32	127	0.00437	0.0174	ELG
Benzo(A)Anthracene	µg/L	19	47	0.00259	0.00641	ELG
1,2-Dichloroethane	µg/L	21	55	0.00287	0.0075	ELG
1,2-Dichlorobenzene	µg/L	196	794	0.0268	0.109	ELG
1,2-Dichloropropane	µg/L	196	794	0.0268	0.109	ELG
1,2-trans-Dichloroethylene	µg/L	25	66	0.00341	0.00899	ELG
1,2,4-Trichlorobenzene	µg/L	196	794	0.0268	0.109	ELG
1,3-Dichlorobenzene	µg/L	142	380	0.0194	0.0518	ELG
1,4-Dichlorobenzene	µg/L	142	380	0.0194	0.0518	ELG
2-Nitrophenol	µg/L	65	231	0.00886	0.0315	ELG
2,4-Dimethylphenol	µg/L	19	47	0.00259	0.00641	ELG
2,4-Dinitrophenol	µg/L	1207	4291	0.165	0.585	ELG
4-Nitrophenol	µg/L	162	576	0.0221	0.0785	ELG
4,6-Dinitro-o-cresol	µg/L	78	277	0.0107	0.0378	ELG
Phenol	µg/L	19	47	0.00259	0.00641	ELG
Naphthalene	µg/L	19	47	0.00259	0.00641	ELG
Bis(2-ethylhexyl) Phthalate	µg/L	95	259	0.013	0.0352	ELG
Di-N-Butylphthalate	µg/L	20	73	0.00273	0.00586	ELG
Vinyl Chloride	µg/L	97	172	0.0133	0.0235	ELG
Trichloroethylene	µg/L	26	69	0.00355	0.00941	ELG
Hexachlorobenzene	µg/L	0.165	794	0.000023	0.109	ELG
Hexachlorobutadiene	µg/L	97	380	0.0133	0.0518	ELG
Chlorobenzene	µg/L	142	380	0.0194	0.0518	ELG
Flow Rate	MGD	- - - - - - - - - - - - Monitor - - - - - - - - - - -				M[c]

Table 3. Final Effluent Limits and Monitoring Requirements for New Internal Stations

Parameter	Units	Concentration		Loading (kg/day)[a]		Basis[b]
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
1,3-Dichloropropylene	µg/L	196	794	0.0268	0.109	ELG
Internal Monitoring Station 616						
Biochemical Oxygen Demand, 5 Day	mg/L	24	64	3.28	8.73	ELG
Total Suspended Solids	mg/L	40	130	5.46	17.8	ELG
Carbon Tetrachloride	µg/L	142	380	0.0194	0.0518	ELG
Chloroform	µg/L	111	325	0.0152	0.0443	ELG
Toluene	µg/L	28	74	0.00382	0.0101	ELG
Benzene	µg/L	57	134	0.00777	0.0183	ELG
Acenaphthylene	µg/L	19	47	0.00259	0.00641	ELG
Acenaphthene	µg/L	19	47	0.00259	0.00641	ELG
Acrylonitrile	µg/L	94	232	0.0129	0.0317	ELG
Anthracene	µg/L	19	47	0.00259	0.00641	ELG
3,4-BenzoFluoranthene	µg/L	20	48	0.00273	0.00655	ELG
Benzo(k)Fluoranthene	µg/L	19	47	0.00259	0.00641	ELG
Benzo-A-Pyrene	µg/L	20	48	0.00273	0.00655	ELG
Chloroethane	µg/L	110	295	0.015	0.0402	ELG
Chrysene	µg/L	19	47	0.00259	0.00641	ELG
Diethyl phthalate	µg/L	46	113	0.00627	0.0154	ELG
Dimethyl phthalate	µg/L	19	47	0.00259	0.00641	ELG
Ethylbenzene	µg/L	142	380	0.0194	0.0518	ELG
Fluoranthene	µg/L	22	54	0.00300	0.00736	ELG
Fluorene	µg/L	19	47	0.00259	0.00641	ELG
Hexachloroethane	µg/L	196	794	0.0268	0.109	ELG
Methyl Chloride	µg/L	110	295	0.015	0.0402	ELG
Methylene Chloride	µg/L	36	170	0.00491	0.0232	ELG
Nitrobenzene	µg/L	2237	6402	0.305	0.873	ELG
Phenanthrene	µg/L	19	47	0.00259	0.00641	ELG
Pyrene	µg/L	20	48	0.00273	0.00655	ELG
Tetrachloroethylene	µg/L	52	164	0.00709	0.0224	ELG
1,1-Dichloroethane	µg/L	22	59	0.00300	0.00804	ELG
1,1-Dichloroethylene	µg/L	22	60	0.00300	0.00818	ELG
1,1,1-Trichloroethane	µg/L	22	59	0.00300	0.00804	ELG
1,1,2-Trichloroethane	µg/L	32	127	0.00437	0.0174	ELG
Benzo(A)Anthracene	µg/L	19	47	0.00259	0.00641	ELG
1,2-Dichloroethane	µg/L	21	55	0.00287	0.0075	ELG

Table 3. Final Effluent Limits and Monitoring Requirements for New Internal Stations

Parameter	Units	Concentration		Loading (kg/day)[a]		Basis[b]
		30 Day Average	Daily Maximum	30 Day Average	Daily Maximum	
1,2-Dichlorobenzene	µg/L	196	794	0.0268	0.109	ELG
1,2-Dichloropropane	µg/L	196	794	0.0268	0.109	ELG
1,2-trans-Dichloroethylene	µg/L	25	66	0.00341	0.00899	ELG
1,2,4-Trichlorobenzene	µg/L	196	794	0.0268	0.109	ELG
1,3-Dichlorobenzene	µg/L	142	380	0.0194	0.0518	ELG
1,4-Dichlorobenzene	µg/L	142	380	0.0194	0.0518	ELG
2-Nitrophenol	µg/L	65	231	0.00886	0.0315	ELG
2,4-Dimethylphenol	µg/L	19	47	0.00259	0.00641	ELG
2,4-Dinitrophenol	µg/L	1207	4291	0.165	0.585	ELG
4-Nitrophenol	µg/L	162	576	0.0221	0.0785	ELG
4,6-Dinitro-o-cresol	µg/L	78	277	0.0107	0.0378	ELG
Phenol	µg/L	19	47	0.00259	0.00641	ELG
Naphthalene	µg/L	19	47	0.00259	0.00641	ELG
Bis(2-ethylhexyl) Phthalate	µg/L	95	259	0.013	0.0352	ELG
Di-N-Butylphthalate	µg/L	20	73	0.00273	0.00586	ELG
Vinyl Chloride	µg/L	97	172	0.0133	0.0235	ELG
Trichloroethylene	µg/L	26	69	0.00355	0.00941	ELG
Hexachlorobenzene	µg/L	0.165	794	0.000023	0.109	ELG
Hexachlorobutadiene	µg/L	97	380	0.0133	0.0518	ELG
Chlorobenzene	µg/L	142	380	0.0194	0.0518	ELG
Flow Rate	MGD	- - - - - - - - - - - - Monitor - - - - - - - - - - -				M[c]
1,3-Dichloropropylene	µg/L	196	794	0.0268	0.109	ELG

[a] Effluent loadings based on average design discharge flow (MGD) as presented in Table 2.

[b] Definitions:
ABS = Antibacksliding Rule (OAC 3745-33-05(F) and 40 CFR Part 122.44(l))
BEJ = Best Engineering Judgment
BTJ = Best Technical Judgment
ELG = Federal Effluent Limitation Guidelines, 40 CFR Part 414, Organic Chemicals, Plastics, and Synthetic Fibers
M = BEJ of Permit Guidance 2: Determination of Sampling Frequency Formula for Industrial Waste
WQS = Ohio Water Quality Standards (OAC 3745-1)

[c] Monitoring of flow and other indicator parameters is specified to assist in the evaluation of effluent quality and treatment plant performance