CITY OF BALTIMORE
BRANDON M. SCOTT, MAYOR

DEPARTMENT OF PUBLIC WORKS
Jason W. Mitchell, Director
Abel Wolman Municipal Building, 6th Floor
200 N. Holliday Street
Baltimore, Maryland 21202

May 26, 2023

Yen-Der Cheng
Chief, Municipal Surface Discharge Division
Wastewater Permit Program
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore, Maryland 21230

Dear Mr. Yen-Der Cheng:

Enclosed you will find the U.S. EPA application for NPDES Permit to Discharge Wastewater (State discharge permit #15-DP-0581). This application is accompanied with requested attachments. Requested amendments are provided with this resubmission.

If you require additional information, please contact me at (410)396-9814, or by e-mail at betty.jacobs@baltimorecity.gov .

Sincerely,

Elizabeth R. Jacobs
Acting Plant Manager
Back River Wastewater
Treatment Plant

RECEIVED
MAY 26 2023

Revised applic. received via email on 5/26/2023

ERJ/rm

Enclosures

Cc: Mr. Jason Mitchell
Mr. Paul Sayan
Mr. Michael Hallmen
Mr. Rayford McEachern

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	

Form 2A NPDES | **EPA**

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater
NEW AND EXISTING PUBLICLY OWNED TREATMENT WORKS

SECTION 1. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS (40 CFR 122.21(j)(1) and (9))

Facility Information

1.1 Facility name
Back River Wastewater Treatment Plant

Mailing address (street or P.O. box)
8201 Eastern Avenue

City or town	State	ZIP code
Baltimore	Maryland	21224

Contact name (first and last)	Title	Phone number	Email address
Elizabeth Jacobs	Acting Plant Manager	(410) 396-9814	betty.jacobs@baltimorecity.gc

Location address (street, route number, or other specific identifier) ☐ Same as mailing address
8201 Eastern Avenue.

City or town	State	ZIP code
Baltimore	Maryland	21224

1.2 Is this application for a facility that has yet to commence discharge?
☐ Yes ➔ See instructions on data submission requirements for new dischargers. ☑ No

Applicant Information

1.3 Is applicant different from entity listed under Item 1.1 above?
☐ Yes ☑ No ➔ SKIP to Item 1.4.

Applicant name
Mayor and City Council of Baltimore, City Hall

Applicant address (street or P.O. box)
100 North Holliday Street

City or town	State	ZIP code
Baltimore	Maryland	21202

Contact name (first and last)	Title	Phone number	Email address
Richard Luna	Interim Dir. of Public Works	(410) 396-3100	richard.luna@baltimorecity.go

1.4 Is the applicant the facility's owner, operator, or both? (Check only one response.)
☐ Owner ☐ Operator ☑ Both

1.5 To which entity should the NPDES permitting authority send correspondence? (Check only one response.)
☑ Facility ☐ Applicant ☐ Facility and applicant (they are one and the same)

Existing Environmental Permits

1.6 Indicate below any existing environmental permits. (Check all that apply and print or type the corresponding permit number for each.)

Existing Environmental Permits

☑ NPDES (discharges to surface water) MD0021555, 15-DP-0581	☑ RCRA (hazardous waste) MDD990686040	☐ UIC (underground injection control)
☑ PSD (air emissions) 24-005-00812 (Part70 Operatir	☐ Nonattainment program (CAA)	☐ NESHAPs (CAA)
☐ Ocean dumping (MPRSA)	☐ Dredge or fill (CWA Section 404)	☑ Other (specify) 2021-STF-5851 (Sewage Sludge) 20-SW-0630 (Storm Water)

RECEIVED
AUG 0 8 2023

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	

Form 2A NPDES | EPA

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater
NEW AND EXISTING PUBLICLY OWNED TREATMENT WORKS

SECTION 1. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS (40 CFR 122.21(j)(1) and (9))

Facility Information

1.1 Facility name
Back River Wastewater Treatment Plant

Mailing address (street or P.O. box)
8201 Eastern Avenue

City or town	State	ZIP code
Baltimore	Maryland	21224

Contact name (first and last)	Title	Phone number	Email address
Elizabeth Jacobs	Acting Plant Manager	(410) 396-9814	betty.jacobs@baltimorecity.gc

Location address (street, route number, or other specific identifier) ☐ Same as mailing address
8201 Eastern Avenue.

City or town	State	ZIP code
Baltimore	Maryland	21224

1.2 Is this application for a facility that has yet to commence discharge?
☐ Yes ➔ See instructions on data submission requirements for new dischargers. ☑ No

Applicant Information

1.3 Is applicant different from entity listed under Item 1.1 above?
☐ Yes ☑ No ➔ SKIP to Item 1.4.

Applicant name
Mayor and City Council of Baltimore, City Hall

Applicant address (street or P.O. box)
100 North Holliday Street

City or town	State	ZIP code
Baltimore	Maryland	21202

Contact name (first and last)	Title	Phone number	Email address
Jason Mitchell	Director of Public Works	(410) 396-3100	Jason.mitchell@baltimorecity.

1.4 Is the applicant the facility's owner, operator, or both? (Check only one response.)
☐ Owner ☐ Operator ☑ Both

1.5 To which entity should the NPDES permitting authority send correspondence? (Check only one response.)
☑ Facility ☐ Applicant ☐ Facility and applicant (they are one and the same)

Existing Environmental Permits

1.6 Indicate below any existing environmental permits. (Check all that apply and print or type the corresponding permit number for each.)

Existing Environmental Permits

☑ NPDES (discharges to surface water) MD0021555, 15-DP-0581	☑ RCRA (hazardous waste) MDD990686040	☐ UIC (underground injection control)
☑ PSD (air emissions) 24-005-00812 (Part70 Operatir	☐ Nonattainment program (CAA)	☐ NESHAPs (CAA)
☐ Ocean dumping (MPRSA)	☐ Dredge or fill (CWA Section 404)	☑ Other (specify) 2021-STF-5851 (Sewage Sludge) 20-SW-0630 (Storm Water)

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	

Collection System and Population Served

1.7 Provide the collection system information requested below for the treatment works.

Municipality Served	Population Served	Collection System Type (indicate percentage)	Ownership Status
Baltimore City	505,000	100 % separate sanitary sewer ____ % combined storm and sanitary sewer ☐ Unknown	☑ Own ☐ Maintain ☐ Own ☐ Maintain ☐ Own ☐ Maintain
Baltimore County	471,000	100 % separate sanitary sewer ____ % combined storm and sanitary sewer ☐ Unknown	☑ Own ☐ Maintain ☐ Own ☐ Maintain ☐ Own ☐ Maintain
		100 % separate sanitary sewer ____ % combined storm and sanitary sewer ☐ Unknown	☑ Own ☐ Maintain ☐ Own ☐ Maintain ☐ Own ☐ Maintain
		____ % separate sanitary sewer ____ % combined storm and sanitary sewer ☐ Unknown	☐ Own ☐ Maintain ☐ Own ☐ Maintain ☐ Own ☐ Maintain
Total Population Served	976,000		

Total percentage of each type of sewer line (in miles)	Separate Sanitary Sewer System	Combined Storm and Sanitary Sewer
	100 %	%

Indian Country

1.8 Is the treatment works located in Indian Country?

☐ Yes ☑ No

1.9 Does the facility discharge to a receiving water that flows through Indian Country?

☐ Yes ☑ No

Design and Actual Flow Rates

1.10 Provide design *and* actual flow rates in the designated spaces.

Design Flow Rate
180 mgd

Annual Average Flow Rates (Actual)		
Two Years Ago	**Last Year**	**This Year**
CY'19 = 134.7 mgd	CY'20 = 130.2 mgd	CY'21 = 120.2 mgd
Maximum Daily Flow Rates (Actual)		
Two Years Ago	**Last Year**	**This Year**
CY'19 = 367 mgd	CY'20 = 475 mgd	CY'21 = 479 mgd

Discharge Points by Type

1.11 Provide the total number of effluent discharge points to waters of the United States by type.

Total Number of Effluent Discharge Points by Type				
Treated Effluent	**Untreated Effluent**	**Combined Sewer Overflows**	**Bypasses**	**Constructed Emergency Overflows**
2				

Outfalls and Other Discharge or Disposal Methods

Outfalls Other Than to Waters of the United States

1.12 Does the POTW discharge wastewater to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the United States?

☐ Yes ☑ No ➔ SKIP to Item 1.14.

1.13 Provide the location of each surface impoundment and associated discharge information in the table below.

Surface Impoundment Location and Discharge Data

Location	Average Daily Volume Discharged to Surface Impoundment	Continuous or Intermittent (check one)
	gpd	☐ Continuous ☐ Intermittent
	gpd	☐ Continuous ☐ Intermittent
	gpd	☐ Continuous ☐ Intermittent

1.14 Is wastewater applied to land?

☐ Yes ☑ No ➔ SKIP to Item 1.16.

1.15 Provide the land application site and discharge data requested below.

Land Application Site and Discharge Data

Location	Size	Average Daily Volume Applied	Continuous or Intermittent (check one)
	acres	gpd	☐ Continuous ☐ Intermittent
	acres	gpd	☐ Continuous ☐ Intermittent
	acres	gpd	☐ Continuous ☐ Intermittent

1.16 Is effluent transported to another facility for treatment prior to discharge?

☑ Yes ☐ No ➔ SKIP to Item 1.21.

1.17 Describe the means by which the effluent is transported (e.g., tank truck, pipe).

Lift station and pumping to conveying pipeline to Tradepoint Atlantic (Outfall 002 to Beth Steel). Flow discharges into the High Head Lake at Sparrows Point. From there, it is pumped into existing outfalls for Bear Creek.

1.18 Is the effluent transported by a party other than the applicant?

☐ Yes ☑ No ➔ SKIP to Item 1.20.

1.19 Provide information on the transporter below.

Transporter Data

Entity name	Mailing address (street or P.O. box)	
City or town	State	ZIP code
Contact name (first and last)	Title	
Phone number	Email address	

Outfalls and Other Discharge or Disposal Methods Continued

1.20 In the table below, indicate the name, address, contact information, NPDES number, and average daily flow rate of the receiving facility.

Receiving Facility Data

Facility name: Tradepoint Atlantic	Mailing address (street or P.O. box): 1600 Sparrows Point Blvd.	
City or town: Sparrows Point	State: Maryland	ZIP code: 21219
Contact name (first and last): Mr. Mike Vogler	Title: Senior VP, Site Operations	
Phone number: (443) 386-3619	Email address: mvogler@tradepointatlantic.com	
NPDES number of receiving facility (if any) ☐ None	Average daily flow rate: CY'20 = 24.1 mgd	

1.21 Is the wastewater disposed of in a manner other than those already mentioned in Items 1.14 through 1.21 that do not have outlets to waters of the United States (e.g., underground percolation, underground injection)?

☐ Yes ☑ No ➔ SKIP to Item 1.23.

1.22 Provide information in the table below on these other disposal methods.

Information on Other Disposal Methods

Disposal Method Description	Location of Disposal Site	Size of Disposal Site	Annual Average Daily Discharge Volume	Continuous or Intermittent (check one)
		acres	gpd	☐ Continuous ☐ Intermittent
		acres	gpd	☐ Continuous ☐ Intermittent
		acres	gpd	☐ Continuous ☐ Intermittent

Variance Requests

1.23 Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(n)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)

☐ Discharges into marine waters (CWA Section 301(h))

☐ Water quality related effluent limitation (CWA Section 302(b)(2))

☑ Not applicable

Contractor Information

1.24 Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?

☑ Yes ☐ No ➔ SKIP to Section 2.

1.25 Provide location and contact information for each contractor in addition to a description of the contractor's operational and maintenance responsibilities.

Contractor Information

	Contractor 1	Contractor 2	Contractor 3
Contractor name (company name)	Veolia Water North America-Ce	Synagro Technologies Baltimor	
Mailing address (street or P.O. box)	5800 Quarantine Road	8201 Eastern Blvd.	
City, state, and ZIP code	Baltimore, MD 21226	Baltimore, MD 21224	
Contact name (first and last)	Mr. Tom Fantom	Mr. Joe Hurt	
Phone number	(410) 354-1636	(410) 282-7325	
Email address	thomas.fantom@veolia.com	JHurt@SYNAGRO.com	
Operational and maintenance responsibilities of contractor	Sludge composting	Sludge heat drying to make pellets.	

Maryland

Updated Contractor Information for Section 1.25

Umm-E-Hani Iqbal -MDE- <umm-e-hani.iqbal@maryland.gov>

Confirmation of Information - Back River WWTP (22-DP-0581 / MD0021555)

Jacobs, Betty (DPW) <Betty.Jacobs@baltimorecity.gov> Wed, Jun 7, 2023 at 7:49 AM
To: Umm-E-Hani Iqbal -MDE- <umm-e-hani.iqbal@maryland.gov>, "Hallmen, Michael (DPW)" <Michael.Hallmen@baltimorecity.gov>, "McEachern, Rayford (DPW)" <Rayford.McEachern@baltimorecity.gov>
Cc: "Turner, Ronald (DPW)" <Ronald.Turner@baltimorecity.gov>, Yen-Der Cheng -MDE- <yen-der.cheng@maryland.gov>, Mahendra Chawla -MDE- <mahendra.chawla@maryland.gov>, Ronald Wicks -MDE- <ronald.wicks@maryland.gov>, Ronald Pinkley -MDE- <ronald.pinkley@maryland.gov>

Good Morning

For item #1, please add the following companies:

1. ACE- American Contracting Environmental Services, Inc.
   10330 Old Columbia Road #102
   Columbia, MD 21046
2. MES- Maryland Environmental Services
   259 Najoles Road
   Millersville, MD 21108
3. Pro-Start- Professional Startup and Operating Services, INC.
   3414 Baywood Drive
   Forest Hill, MD 21050

Thank you

Betty

Elizabeth ”Betty” Jacobs
Acting Plant Manager

Brandon M. Scott

Mayor

Jason W. Mitchell, Ed.D.

Director

Office: 410-396-9814

Department of Public Works

8201 Eastern Avenue

Baltimore, MD 21224

"To be a strong proponent and protector of our environment and the health and vitality of our communities" – DPW Vision Statement

Website | Twitter | Facebook | NextDoor | Youtube

[Quoted text hidden]

[Quoted text hidden]

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	

SECTION 2. ADDITIONAL INFORMATION (40 CFR 122.21(j)(1) and (2))

Design Flow

Outfalls to Waters of the United States

2.1 Does the treatment works have a design flow greater than or equal to 0.1 mgd?

☑ Yes ☐ No ➔ SKIP to Section 3.

Inflow and Infiltration

2.2 Provide the treatment works' current average daily volume of inflow and infiltration.

Average Daily Volume of Inflow and Infiltration	
CY'20 = 130,200,000 GPD	130.2M gpd

Indicate the steps the facility is taking to minimize inflow and infiltration.

Consent decree for Baltimore City collection system renovations.

Topographic Map

2.3 Have you attached a topographic map to this application that contains all the required information? (See instructions for specific requirements.)

☑ Yes ☐ No

Flow Diagram

2.4 Have you attached a process flow diagram or schematic to this application that contains all the required information? (See instructions for specific requirements.)

☑ Yes ☐ No

Scheduled Improvements and Schedules of Implementation

2.5 Are improvements to the facility scheduled?

☑ Yes ☐ No ➔ SKIP to Section 3.

Briefly list and describe the scheduled improvements.

1. SC 918 - New headworks facility - New screening, grit removal, and odor control systems to alleviate hydraulic restrictions and improve sediment and material removal
2. SC - 882 ENR improvements - New facilities to enhance nitrogen removal
3. Digester rehab (to begin June 2023) - Rehabilitation to clean and repair the in-ground and egg shaped digesters
4.

2.6 Provide scheduled or actual dates of completion for improvements.

Scheduled or Actual Dates of Completion for Improvements

Scheduled Improvement (from above)	Affected Outfalls (list outfall number)	Begin Construction (MM/DD/YYYY)	End Construction (MM/DD/YYYY)	Begin Discharge (MM/DD/YYYY)	Attainment of Operational Level (MM/DD/YYYY)
1.	001	06/29/2017	10/31/2021	06/01/2021	06/01/2021
2.	001	10/27/2014	05/31/2022	05/01/2022	05/31/2022
3.	001	08/16/2023	09/16/2027		
4.					

2.7 Have appropriate permits/clearances concerning other federal/state requirements been obtained? Briefly explain your response.

☐ Yes ☐ No ☑ None required or applicable

Explanation:

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	

SECTION 2. ADDITIONAL INFORMATION (40 CFR 122.21(j)(1) and (2))

Design Flow

Outfalls to Waters of the United States

2.1 Does the treatment works have a design flow greater than or equal to 0.1 mgd?

☑ Yes ☐ No ➔ SKIP to Section 3.

Inflow and Infiltration

2.2 Provide the treatment works' current average daily volume of inflow and infiltration.

Average Daily Volume of Inflow and Infiltration	
CY'20 = 130,200,000 GPD	130.2M gpd

Indicate the steps the facility is taking to minimize inflow and infiltration.

Consent decree for Baltimore City collection system renovations.

Topographic Map

2.3 Have you attached a topographic map to this application that contains all the required information? (See instructions for specific requirements.)

☑ Yes ☐ No

Flow Diagram

2.4 Have you attached a process flow diagram or schematic to this application that contains all the required information? (See instructions for specific requirements.)

☑ Yes ☐ No

Scheduled Improvements and Schedules of Implementation

2.5 Are improvements to the facility scheduled?

☑ Yes ☐ No ➔ SKIP to Section 3.

Briefly list and describe the scheduled improvements.

1. SC 918 - New headworks facility - New screening, grit removal, and odor control systems to alleviate hydraulic restrictions and improve sediment and material removal
2. SC - 882 ENR improvements - New facilities to enhance nitrogen removal
3. Digester rehab (to begin June 2023) - Rehabilitation to clean and repair the in-ground and egg shaped digesters
4.

2.6 Provide scheduled or actual dates of completion for improvements.

Scheduled or Actual Dates of Completion for Improvements

Scheduled Improvement (from above)	Affected Outfalls (list outfall number)	Begin Construction (MM/DD/YYYY)	End Construction (MM/DD/YYYY)	Begin Discharge (MM/DD/YYYY)	Attainment of Operational Level (MM/DD/YYYY)
1.	001	06/29/2017	10/31/2021	06/01/2021	06/01/2021
2.	001	10/27/2014	05/31/2022	05/01/2022	05/31/2022
3.	001	06/30/2023			
4.					

2.7 Have appropriate permits/clearances concerning other federal/state requirements been obtained? Briefly explain your response.

☐ Yes ☐ No ☑ None required or applicable

Explanation:

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	

SECTION 3. INFORMATION ON EFFLUENT DISCHARGES (40 CFR 122.21(j)(3) to (5))

Description of Outfalls

3.1 Provide the following information for each outfall. (Attach additional sheets if you have more than three outfalls.)

	Outfall Number 001	Outfall Number 002	Outfall Number _____
State	Maryland	Maryland	
County	Baltimore City	Baltimore City	
City or town	Baltimore	Baltimore	
Distance from shore	1,158 ft.	ft.	ft.
Depth below surface	0.71 ft.	ft.	ft.
Average daily flow rate	CY'20 = 118.2 mgd	CY'20 = 24.1 mgd	mgd
Latitude	39° 17′ 58.8″ N	39° 17′ 58.8″ N	° ′ ″
Longitude	76° 29′ 39.9″ W	76° 29′ 39.9″ W	° ′ ″

Seasonal or Periodic Discharge Data

3.2 Do any of the outfalls described under Item 3.1 have seasonal or periodic discharges?

☐ Yes ☑ No → SKIP to Item 3.4.

3.3 If so, provide the following information for each applicable outfall.

	Outfall Number _____	Outfall Number _____	Outfall Number _____
Number of times per year discharge occurs			
Average duration of each discharge (specify units)			
Average flow of each discharge	mgd	mgd	mgd
Months in which discharge occurs			

Diffuser Type

3.4 Are any of the outfalls listed under Item 3.1 equipped with a diffuser?

☐ Yes ☑ No → SKIP to Item 3.6.

3.5 Briefly describe the diffuser type at each applicable outfall.

	Outfall Number _____	Outfall Number _____	Outfall Number _____

Waters of the U.S.

3.6 Does the treatment works discharge or plan to discharge wastewater to waters of the United States from one or more discharge points?

☑ Yes ☐ No → SKIP to Section 6.

Receiving Water Description

3.7 Provide the receiving water and related information (if known) for each outfall.

	Outfall Number 001	Outfall Number 002	Outfall Number ____
Receiving water name	Back River	High Head Lake(Sparrow Point)	R.Mc. 6/15/23
Name of watershed, river, or stream system	Baltimore Harbor	Baltimore Harbor	
U.S. Soil Conservation Service 14-digit watershed code			
Name of state management/river basin	R.Mc. 6/15/23		
U.S. Geological Survey 8-digit hydrologic cataloging unit code	02060003	02060003	
Critical low flow (acute)	cfs	cfs	cfs
Critical low flow (chronic)	cfs	cfs	cfs
Total hardness at critical low flow	mg/L of $CaCO_3$	mg/L of $CaCO_3$	mg/L of $CaCO_3$

Treatment Description

3.8 Provide the following information describing the treatment provided for discharges from each outfall.

	Outfall Number 001	Outfall Number 002	Outfall Number ____
Highest Level of Treatment (check all that apply per outfall)	☑ Primary ☑ Equivalent to secondary ☑ Secondary ☑ Advanced ☑ Other (specify) ENR	☑ Primary ☑ Equivalent to secondary ☑ Secondary ☑ Advanced ☑ Other (specify) ENR	☐ Primary ☐ Equivalent to secondary ☐ Secondary ☐ Advanced ☐ Other (specify)
Design Removal Rates by Outfall			
BOD_5 or $CBOD_5$	95.6 %	95.6 %	%
TSS	95.4 %	95.4 %	%
Phosphorus	☐ Not applicable 96.0 %	☐ Not applicable 96.0 %	☐ Not applicable %
Nitrogen	☐ Not applicable 71.6 %	☐ Not applicable 71.6 %	☐ Not applicable %
Other (specify) no dechlorination for outfall 002(sodium bifulfite)	☐ Not applicable %	☐ Not applicable %	☐ Not applicable %

Outfall 002 discharges into the Baltimore Harbor (discharged into the High Head Lake at Sparrows Point TPA, and from there pumped to existing outfalls to Bear Creek).

Receiving Water Description

3.7 Provide the receiving water and related information (if known) for each outfall.

	Outfall Number 001	Outfall Number 002	Outfall Number _____
Receiving water name	Back River	Back River	
Name of watershed, river, or stream system	Baltimore Harbor	Baltimore Harbor	
U.S. Soil Conservation Service 14-digit watershed code			
Name of state management/river basin			
U.S. Geological Survey 8-digit hydrologic cataloging unit code	02130901	02130901	
Critical low flow (acute)	cfs	cfs	cfs
Critical low flow (chronic)	cfs	cfs	cfs
Total hardness at critical low flow	mg/L of $CaCO_3$	mg/L of $CaCO_3$	mg/L of $CaCO_3$

Treatment Description

3.8 Provide the following information describing the treatment provided for discharges from each outfall.

	Outfall Number 001	Outfall Number 002	Outfall Number _____
Highest Level of Treatment (check all that apply per outfall)	☑ Primary ☑ Equivalent to secondary ☑ Secondary ☑ Advanced ☑ Other (specify) ENR	☑ Primary ☑ Equivalent to secondary ☑ Secondary ☑ Advanced ☑ Other (specify) ENR	☐ Primary ☐ Equivalent to secondary ☐ Secondary ☐ Advanced ☐ Other (specify) _____
Design Removal Rates by Outfall			
BOD_5 or $CBOD_5$	95.6 %	95.6 %	%
TSS	95.4 %	95.4 %	%
Phosphorus	☐ Not applicable 96.0 %	☐ Not applicable 96.0 %	☐ Not applicable %
Nitrogen	☐ Not applicable 71.6 %	☐ Not applicable 71.6 %	☐ Not applicable %
Other (specify) no dechlorination for outfall 002(sodium bifulfite)	☐ Not applicable %	☐ Not applicable %	☐ Not applicable %

Treatment Description Continued

3.9 Describe the type of disinfection used for the effluent from each outfall in the table below. If disinfection varies by season, describe below.

Bleach is used to disinfect, but sodium bisulfite is used to dechlorinated the chlorine in the bleach that is discharged.

	Outfall Number 001	Outfall Number 002	Outfall Number ____
Disinfection type	Bleach	Bleach	
Seasons used	all	all	
Dechlorination used?	☐ Not applicable ☑ Yes ☐ No	☐ Not applicable ☐ Yes ☑ No	☐ Not applicable ☐ Yes ☐ No

Effluent Testing Data

3.10 Have you completed monitoring for all Table A parameters and attached the results to the application package?

☑ Yes ☐ No

3.11 Have you conducted any WET tests during the 4.5 years prior to the date of the application on any of the facility's discharges or on any receiving water near the discharge points?

☑ Yes ☐ No ➔ SKIP to Item 3.13.

3.12 Indicate the number of acute and chronic WET tests conducted since the last permit reissuance of the facility's discharges by outfall number or of the receiving water near the discharge points.

	Outfall Number 001		Outfall Number 002		Outfall Number ____	
Permit date effective 5/1/18	Acute	Chronic	Acute	Chronic	Acute	Chronic
Number of tests of discharge water	14	14	0	0		
Number of tests of receiving water						

3.13 Does the treatment works have a design flow greater than or equal to 0.1 mgd?

☑ Yes ☐ No ➔ SKIP to Item 3.16.

3.14 Does the POTW use chlorine for disinfection, use chlorine elsewhere in the treatment process, or otherwise have reasonable potential to discharge chlorine in its effluent?

☑ Yes ➔ Complete Table B, including chlorine. ☐ No ➔ Complete Table B, omitting chlorine.

3.15 Have you completed monitoring for all applicable Table B pollutants and attached the results to this application package?

☑ Yes ☐ No

3.16 Does one or more of the following conditions apply?

- The facility has a design flow greater than or equal to 1 mgd.
- The POTW has an approved pretreatment program or is required to develop such a program.
- The NPDES permitting authority has informed the POTW that it must sample for the parameters in Table C, must sample other additional parameters (Table D), or submit the results of WET tests for acute or chronic toxicity for each of its discharge outfalls (Table E).

☑ Yes ➔ Complete Tables C, D, and E as applicable. ☐ No ➔ SKIP to Section 4.

3.17 Have you completed monitoring for all applicable Table C pollutants and attached the results to this application package?

☑ Yes ☐ No

3.18 Have you completed monitoring for all applicable Table D pollutants required by your NPDES permitting authority and attached the results to this application package?

☑ Yes ☐ No additional sampling required by NPDES permitting authority.

Effluent Testing Data Continued

3.19 Has the POTW conducted either (1) minimum of four quarterly WET tests for one year preceding this permit application or (2) at least four annual WET tests in the past 4.5 years?

☑ Yes ☐ No ➔ Complete tests and Table E and SKIP to Item 3.26.

3.20 Have you previously submitted the results of the above tests to your NPDES permitting authority?

☑ Yes ☐ No ➔ Provide results in Table E and SKIP to Item 3.26.

3.21 Indicate the dates the data were submitted to your NPDES permitting authority and provide a summary of the results.

Date(s) Submitted (MM/DD/YYYY)	Summary of Results
	02-23-2020 (Q1'20) passed > 06-01-2020 (Q2'20) failed, reran > 06-21-2020 (Q2'20) rerun, passed > 08-30-2020 (Q3'20) passed > 11-29-2020 (Q4'20) passed >

3.22 Regardless of how you provided your WET testing data to the NPDES permitting authority, did any of the tests result in toxicity?

☑ Yes ☐ No ➔ SKIP to Item 3.26.

3.23 Describe the cause(s) of the toxicity:

Possibility due to contamination of sampler hose. We replaced the hose and reran the test and passed. We have not experienced two failures in a row.

3.24 Has the treatment works conducted a toxicity reduction evaluation?

☐ Yes ☑ No ➔ SKIP to Item 3.26.

3.25 Provide details of any toxicity reduction evaluations conducted.

3.26 Have you completed Table E for all applicable outfalls and attached the results to the application package?

☐ Yes ☑ Not applicable because previously submitted information to the NPDES permitting authority.

SECTION 4. INDUSTRIAL DISCHARGES AND HAZARDOUS WASTES (40 CFR 122.21(j)(6) and (7))

Industrial Discharges and Hazardous Wastes

4.1 Does the POTW receive discharges from SIUs or NSCIUs?

☑ Yes ☐ No ➔ SKIP to Item 4.7.

4.2 Indicate the number of SIUs and NSCIUs that discharge to the POTW.

Number of SIUs	Number of NSCIUs
30	17

4.3 Does the POTW have an approved pretreatment program?

☑ Yes ☐ No

4.4 Have you submitted either of the following to the NPDES permitting authority that contains information substantially identical to that required in Table F: (1) a pretreatment program annual report submitted within one year of the application or (2) a pretreatment program?

☑ Yes ☐ No ➔ SKIP to Item 4.6.

4.5 Identify the title and date of the annual report or pretreatment program referenced in Item 4.4. SKIP to Item 4.7.

Baltimore City and Baltimore County maintain separate pretreatment programs (reporting is separate).

4.6 Have you completed and attached Table F to this application package?

☑ Yes ☐ No

Industrial Discharges and Hazardous Wastes Continued

4.7 Does the POTW receive, or has it been notified that it will receive, by truck, rail, or dedicated pipe, any wastes that are regulated as RCRA hazardous wastes pursuant to 40 CFR 261?

☐ Yes ☑ No ➔ SKIP to Item 4.9.

4.8 If yes, provide the following information:

Hazardous Waste Number	Waste Transport Method (check all that apply)	Annual Amount of Waste Received	Units
	☐ Truck ☐ Rail ☐ Dedicated pipe ☐ Other (specify) _____		
	☐ Truck ☐ Rail ☐ Dedicated pipe ☐ Other (specify) _____		
	☐ Truck ☐ Rail ☐ Dedicated pipe ☐ Other (specify) _____		

4.9 Does the POTW receive, or has it been notified that it will receive, wastewaters that originate from remedial activities, including those undertaken pursuant to CERCLA and Sections 3004(7) or 3008(h) of RCRA?

☐ Yes ☑ No ➔ SKIP to Section 5.

4.10 Does the POTW receive (or expect to receive) less than 15 kilograms per month of non-acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e)?

☐ Yes ➔ SKIP to Section 5. ☐ No

4.11 Have you reported the following information in an attachment to this application: identification and description of the site(s) or facility(ies) at which the wastewater originates; the identities of the wastewater's hazardous constituents; and the extent of treatment, if any, the wastewater receives or will receive before entering the POTW?

☐ Yes ☐ No

SECTION 5. COMBINED SEWER OVERFLOWS (40 CFR 122.21(j)(8))

CSO Map and Diagram

5.1 Does the treatment works have a combined sewer system?

☐ Yes ☑ No ➔ SKIP to Section 6.

5.2 Have you attached a CSO system map to this application? (See instructions for map requirements.)

☐ Yes ☐ No

5.3 Have you attached a CSO system diagram to this application? (See instructions for diagram requirements.)

☐ Yes ☐ No

CSO Outfall Description

5.4 For each CSO outfall, provide the following information. (Attach additional sheets as necessary.)

	CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
City or town			
State and ZIP code			
County			
Latitude	° ′ ″	° ′ ″	° ′ ″
Longitude	° ′ ″	° ′ ″	° ′ ″
Distance from shore	ft.	ft.	ft.
Depth below surface	ft.	ft.	ft.

CSO Monitoring

5.5 Did the POTW monitor any of the following items in the past year for its CSO outfalls?

	CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
Rainfall	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
CSO flow volume	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
CSO pollutant concentrations	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Receiving water quality	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
CSO frequency	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Number of storm events	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

CSO Events in Past Year

5.6 Provide the following information for each of your CSO outfalls.

	CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
Number of CSO events in the past year	events	events	events
Average duration per event	hours ☐ Actual or ☐ Estimated	hours ☐ Actual or ☐ Estimated	hours ☐ Actual or ☐ Estimated
Average volume per event	million gallons ☐ Actual or ☐ Estimated	million gallons ☐ Actual or ☐ Estimated	million gallons ☐ Actual or ☐ Estimated
Minimum rainfall causing a CSO event in last year	inches of rainfall ☐ Actual or ☐ Estimated	inches of rainfall ☐ Actual or ☐ Estimated	inches of rainfall ☐ Actual or ☐ Estimated

CSO Receiving Waters

5.7 Provide the information in the table below for each of your CSO outfalls.

	CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
Receiving water name			
Name of watershed/ stream system			
U.S. Soil Conservation Service 14-digit watershed code (if known)	☐ Unknown	☐ Unknown	☐ Unknown
Name of state management/river basin			
U.S. Geological Survey 8-Digit Hydrologic Unit Code (if known)	☐ Unknown	☐ Unknown	☐ Unknown
Description of known water quality impacts on receiving stream by CSO (see instructions for examples)			

SECTION 6. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

6.1 In Column 1 below, mark the sections of Form 2A that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.

Column 1	Column 2	
☑ Section 1: Basic Application Information for All Applicants	☐ w/ variance request(s)	☐ w/ additional attachments
☑ Section 2: Additional Information	☑ w/ topographic map ☐ w/ additional attachments	☑ w/ process flow diagram
☑ Section 3: Information on Effluent Discharges	☑ w/ Table A ☑ w/ Table B ☑ w/ Table C	☑ w/ Table D ☐ w/ Table E ☐ w/ additional attachments
☑ Section 4: Industrial Discharges and Hazardous Wastes	☐ w/ SIU and NSCIU attachments ☐ w/ additional attachments	☑ w/ Table F
☐ Section 5: Combined Sewer Overflows	☐ w/ CSO map ☐ w/ CSO system diagram	☐ w/ additional attachments
☑ Section 6: Checklist and Certification Statement	☐ w/ attachments	

6.2 **Certification Statement**

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

Name (print or type first and last name)	Official title
Michael Hallmen	Chief, Wastewater Facilities Division
Signature	Date signed 8/8/2023

RECEIVED
AUG 0 8 2023

CSO Receiving Waters

5.7 Provide the information in the table below for each of your CSO outfalls.

	CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
Receiving water name			
Name of watershed/ stream system			
U.S. Soil Conservation Service 14-digit watershed code (if known)	☐ Unknown	☐ Unknown	☐ Unknown
Name of state management/river basin			
U.S. Geological Survey 8-Digit Hydrologic Unit Code (if known)	☐ Unknown	☐ Unknown	☐ Unknown
Description of known water quality impacts on receiving stream by CSO (see instructions for examples)			

SECTION 6. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

6.1 In Column 1 below, mark the sections of Form 2A that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.

Column 1	Column 2	
☑ Section 1: Basic Application Information for All Applicants	☐ w/ variance request(s)	☐ w/ additional attachments
☑ Section 2: Additional Information	☑ w/ topographic map ☐ w/ additional attachments	☑ w/ process flow diagram
☑ Section 3: Information on Effluent Discharges	☑ w/ Table A ☑ w/ Table B ☑ w/ Table C	☑ w/ Table D ☐ w/ Table E ☐ w/ additional attachments
☑ Section 4: Industrial Discharges and Hazardous Wastes	☐ w/ SIU and NSCIU attachments ☐ w/ additional attachments	☑ w/ Table F
☐ Section 5: Combined Sewer Overflows	☐ w/ CSO map ☐ w/ CSO system diagram	☐ w/ additional attachments
☑ Section 6: Checklist and Certification Statement	☐ w/ attachments	

6.2 **Certification Statement**

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

Name (print or type first and last name)	Official title
Michael Hallmen	Chief, Wastewater Facilities Division
Signature 	Date signed 06/07/2023

CSO Receiving Waters

5.7 Provide the information in the table below for each of your CSO outfalls.

	CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
Receiving water name			
Name of watershed/ stream system			
U.S. Soil Conservation Service 14-digit watershed code (if known)	☐ Unknown	☐ Unknown	☐ Unknown
Name of state management/river basin			
U.S. Geological Survey 8-Digit Hydrologic Unit Code (if known)	☐ Unknown	☐ Unknown	☐ Unknown
Description of known water quality impacts on receiving stream by CSO (see instructions for examples)			

SECTION 6. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

6.1 In Column 1 below, mark the sections of Form 2A that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.

Column 1	Column 2	
☑ Section 1: Basic Application Information for All Applicants	☐ w/ variance request(s)	☐ w/ additional attachments
☑ Section 2: Additional Information	☑ w/ topographic map ☐ w/ additional attachments	☑ w/ process flow diagram
☑ Section 3: Information on Effluent Discharges	☑ w/ Table A ☑ w/ Table B ☑ w/ Table C	☑ w/ Table D ☐ w/ Table E ☐ w/ additional attachments
☑ Section 4: Industrial Discharges and Hazardous Wastes	☐ w/ SIU and NSCIU attachments ☐ w/ additional attachments	☑ w/ Table F
☐ Section 5: Combined Sewer Overflows	☐ w/ CSO map ☐ w/ CSO system diagram	☐ w/ additional attachments
☑ Section 6: Checklist and Certification Statement	☐ w/ attachments	

6.2 **Certification Statement**

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

Name (print or type first and last name)	Official title
Elizabeth R. Jacobs	Acting Plant Manager
Signature: Elizabeth R. Jacobs	Date signed: 5/26/23

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	001 (Values from CY'20)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. EFFLUENT PARAMETERS FOR ALL POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Biochemical oxygen demand ☑ BOD_5 or ☐ $CBOD_5$ (report one)	31.4	mg/l	2.6	mg/l	366	S5210B-11	2.0 ☑ ML ☐ MDL
~~Fecal coliform~~ Escherichia coli	2420	MPN/100ml	17	MPN/100ml	366	S9223B-04	1 mpn/100 ☑ ML ☐ MDL
Design flow rate	237	MGD	118.2	MGD	366		
pH (minimum)	6.6	SU					
pH (maximum)	8.0	SU					
Temperature (winter)							
Temperature (summer)							
Total suspended solids (TSS)	85	mg/l	<5.0	mg/l	366	S2540D-11	5 ☑ ML ☐ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002 (Values from CY'20)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. EFFLUENT PARAMETERS FOR ALL POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Biochemical oxygen demand ☑ BOD_5 or ☐ $CBOD_5$ (report one)	28.8	mg/l	<2.0	mg/l	359	S5210B-11	2.0 ☑ ML ☐ MDL
~~Fecal coliform~~ Escherichia coli	2420	MPN/100ml	17	MPN/100ml	358	S9223B-04	1 mpn/100 ☑ ML ☐ MDL
Design flow rate	37.5	MGD	24.1	MGD	361		
pH (minimum)	6.7	SU					
pH (maximum)	8.3	SU					
Temperature (winter)							
Temperature (summer)							
Total suspended solids (TSS)	54	mg/l	<5.0	mg/l	359	S2540D-11	5 ☑ ML ☐ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

This page intentionally left blank.

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	001 (Values from CY'20)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. EFFLUENT PARAMETERS FOR ALL POTWS WITH A FLOW EQUAL TO OR GREATER THAN 0.1 MGD

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Ammonia (as N)	3.63	mg/l	0.25	mg/l	366	ASTM D6919-09	0.100 ☑ ML ☐ MDL
Chlorine (total residual, TRC)[2]	0.6	mg/l	.37	mg/l	1098	EPA 330.5	0.10 ☑ ML ☐ MDL
Dissolved oxygen	12.4	mg/l	9.0	mg/l	1098	SM 4500-G	0.03 ☐ ML ☑ MDL
Nitrate/nitrite	6.6	mg/l	1.3	mg/l	366	EPA 353.2	0.20 ☑ ML ☐ MDL
Kjeldahl nitrogen	7.2	mg/l	1.7	mg/l	366	S4500NH3G-11	1.0 ☑ ML ☐ MDL
Oil and grease							☐ ML ☐ MDL
Phosphorus	2.5	mg/l	0.10	mg/l	366	EPA 365.1	0.10 ☑ ML ☐ MDL
Total dissolved solids	85	mg/l	<5.0	mg/l	366	S2540D-11	5 ☑ ML ☐ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

[2] Facilities that do not use chlorine for disinfection, do not use chlorine elsewhere in the treatment process, and have no reasonable potential to discharge chlorine in their effluent are not required to report data for chlorine.

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002 (Values from CY'20)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. EFFLUENT PARAMETERS FOR ALL POTWS WITH A FLOW EQUAL TO OR GREATER THAN 0.1 MGD

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Ammonia (as N)	3.84	mg/l	0.24	mg/l	359	ASTM D6919-09	0.100 ☑ ML ☐ MDL
Chlorine (total residual, TRC)[2]	0.6	mg/l	.37	mg/l	1098	EPA 330.5	0.10 ☑ ML ☐ MDL
Dissolved oxygen	12.0	mg/l	9.0	mg/l	1075	SM 4500-G	0.03 ☐ ML ☑ MDL
Nitrate/nitrite	6.0	mg/l	1.3	mg/l	359	EPA 353.2	0.20 ☑ ML ☐ MDL
Kjeldahl nitrogen	8.2	mg/l	1.7	mg/l	359	S4500NH3G-11	1.0 ☑ ML ☐ MDL
Oil and grease							☐ ML ☐ MDL
Phosphorus	1.5	mg/l	0.10	mg/l	359	EPA 365.1	0.10 ☑ ML ☐ MDL
Total dissolved solids	54	mg/l	<5.0	mg/l	359	S2540D-11	5 ☑ ML ☐ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

[2] Facilities that do not use chlorine for disinfection, do not use chlorine elsewhere in the treatment process, and have no reasonable potential to discharge chlorine in their effluent are not required to report data for chlorine.

This page intentionally left blank.

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	001

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Metals, Cyanide, and Total Phenols							
Hardness (as $CaCO_3$)							☐ ML ☐ MDL
Antimony, total recoverable	0.00012	mg/l	0.00075	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Arsenic, total recoverable	0.00099	mg/l	0.00062	mg/l	4	EPA 200.8	0.00050 ☐ ML ☑ MDL
Beryllium, total recoverable	nd	mg/l	nd	mg/l	4	EPA 200.8	0.00010 ☐ ML ☑ MDL
Cadmium, total recoverable	0.00016	mg/l	nd	mg/l	4	EPA 200.8	0.00016 ☐ ML ☑ MDL
Chromium, total recoverable	0.00190	mg/l	0.00089	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Copper, total recoverable	0.02200	mg/l	0.00948	mg/l	4	EPA 200.8	0.00083 ☐ ML ☑ MDL
Lead, total recoverable	0.00330	mg/l	0.00125	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Mercury, total recoverable	nd	mg/l	nd	mg/l	4	EPA 245.1	0.00016 ☐ ML ☑ MDL
Nickel, total recoverable	0.00550	mg/l	0.00473	mg/l	4	EPA 200.8	0.00083 ☐ ML ☑ MDL
Selenium, total recoverable	0.00100	mg/l	0.00089	mg/l	4	EPA 200.8	0.00066 ☐ ML ☑ MDL
Silver, total recoverable	nd	mg/l	nd	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Thallium, total recoverable	0.00019	mg/l	0.00005	mg/l	4	EPA 200.8	0.00016 ☐ ML ☑ MDL
Zinc, total recoverable	0.04900	mg/l	0.02650	mg/l	4	EPA 200.8	0.00083 ☐ ML ☑ MDL
Cyanide	11.8	ug/l	<5.0	ug/l	36	KELADA-01	5.0 ☐ ML ☑ MDL
Total phenolic compounds							☐ ML ☐ MDL
Volatile Organic Compounds							
Acrolein	nd	ug/l	nd	ug/l	4	EPA 624.1	1.3 ☐ ML ☑ MDL
Acrylonitrile	nd	ug/l	nd	ug/l	4	EPA 624.1	2.0 ☐ ML ☑ MDL
Benzene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.12 ☐ ML ☑ MDL
Bromoform	nd	ug/l	nd	ug/l	4	EPA 624.1	0.37 ☐ ML ☑ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Metals, Cyanide, and Total Phenols							
Hardness (as $CaCO_3$)							☐ ML ☐ MDL
Antimony, total recoverable	0.0013	mg/l	0.00071	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Arsenic, total recoverable	0.00068	mg/l	0.00046	mg/l	4	EPA 200.8	0.00050 ☐ ML ☑ MDL
Beryllium, total recoverable	nd	mg/l	nd	mg/l	4	EPA 200.8	0.00010 ☐ ML ☑ MDL
Cadmium, total recoverable	0.00017	mg/l	0.00004	mg/l	4	EPA 200.8	0.00016 ☐ ML ☑ MDL
Chromium, total recoverable	0.00180	mg/l	0.00069	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Copper, total recoverable	0.02200	mg/l	0.00858	mg/l	4	EPA 200.8	0.00083 ☐ ML ☑ MDL
Lead, total recoverable	0.00320	mg/l	0.00110	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Mercury, total recoverable	nd	mg/l	nd	mg/l	4	EPA 245.1	0.00016 ☐ ML ☑ MDL
Nickel, total recoverable	0.00560	mg/l	0.00458	mg/l	4	EPA 200.8	0.00083 ☐ ML ☑ MDL
Selenium, total recoverable	0.00088	mg/l	0.00063	mg/l	4	EPA 200.8	0.00066 ☐ ML ☑ MDL
Silver, total recoverable	nd	mg/l	nd	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Thallium, total recoverable	nd	mg/l	nd	mg/l	4	EPA 200.8	0.00016 ☐ ML ☑ MDL
Zinc, total recoverable	0.05100	mg/l	0.02475	mg/l	4	EPA 200.8	0.00083 ☐ ML ☑ MDL
Cyanide	12.5	ug/l	<5.0	ug/l	68	KELADA-01	5.0 ☐ ML ☑ MDL
Total phenolic compounds							☐ ML ☐ MDL
Volatile Organic Compounds							
Acrolein	nd	ug/l	nd	ug/l	4	EPA 624.1	1.3 ☐ ML ☑ MDL
Acrylonitrile	nd	ug/l	nd	ug/l	4	EPA 624.1	2.0 ☐ ML ☑ MDL
Benzene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.12 ☐ ML ☑ MDL
Bromoform	nd	ug/l	nd	ug/l	4	EPA 624.1	0.37 ☐ ML ☑ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	001

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Carbon tetrachloride	nd	ug/l	nd	ug/l	4	EPA 624.1	0.23 ☐ ML ☑ MDL
Chlorobenzene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.25 ☐ ML ☑ MDL
Chlorodibromomethane	3.00	ug/l	0.84	ug/l	4	EPA 624.1	0.25 ☑ ML ☑ MDL
Chloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.47 ☐ ML ☑ MDL
2-chloroethylvinyl ether	nd	ug/l	nd	ug/l	4	EPA 624.1	3.1 ☐ ML ☑ MDL
Chloroform	2.70	ug/l	1.75	ug/l	4	EPA 624.1	0.15 ☐ ML ☑ MDL
Dichlorobromomethane							☐ ML ☐ MDL
1,1-dichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.050 ☐ ML ☑ MDL
1,2-dichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.12 ☐ ML ☑ MDL
trans-1,2-dichloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.080 ☐ ML ☑ MDL
1,1-dichloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.13 ☐ ML ☑ MDL
1,2-dichloropropane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.26 ☐ ML ☑ MDL
1,3-dichloropropylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.21 ☐ ML ☑ MDL
Ethylbenzene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.20 ☐ ML ☑ MDL
Methyl bromide							☐ ML ☐ MDL
Methyl chloride							☐ ML ☐ MDL
Methylene chloride	nd	ug/l	nd	ug/l	4	EPA 624.1	0.14 ☐ ML ☑ MDL
1,1,2,2-tetrachloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.38 ☐ ML ☑ MDL
Tetrachloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.27 ☐ ML ☑ MDL
Toluene	0.36	ug/l	0.15	ug/l	4	EPA 624.1	0.24 ☐ ML ☑ MDL
1,1,1-trichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.12 ☐ ML ☑ MDL
1,1,2-trichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.13 ☐ ML ☑ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Carbon tetrachloride	nd	ug/l	nd	ug/l	4	EPA 624.1	0.23 ☐ ML ☑ MDL
Chlorobenzene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.25 ☐ ML ☑ MDL
Chlorodibromomethane	1.3	ug/l	0.33	ug/l	4	EPA 624.1	0.25 ☑ ML ☑ MDL
Chloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.47 ☐ ML ☑ MDL
2-chloroethylvinyl ether	nd	ug/l	nd	ug/l	4	EPA 624.1	3.1 ☐ ML ☑ MDL
Chloroform	3.6	ug/l	2.56	ug/l	4	EPA 624.1	0.15 ☐ ML ☑ MDL
Dichlorobromomethane							☐ ML ☐ MDL
1,1-dichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.050 ☐ ML ☑ MDL
1,2-dichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.12 ☐ ML ☑ MDL
trans-1,2-dichloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.080 ☐ ML ☑ MDL
1,1-dichloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.13 ☐ ML ☑ MDL
1,2-dichloropropane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.26 ☐ ML ☑ MDL
1,3-dichloropropylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.21 ☐ ML ☑ MDL
Ethylbenzene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.20 ☐ ML ☑ MDL
Methyl bromide							☐ ML ☐ MDL
Methyl chloride							☐ ML ☐ MDL
Methylene chloride	nd	ug/l	nd	ug/l	4	EPA 624.1	0.14 ☐ ML ☑ MDL
1,1,2,2-tetrachloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.38 ☐ ML ☑ MDL
Tetrachloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.27 ☐ ML ☑ MDL
Toluene	1.30	ug/l	0.39	ug/l	4	EPA 624.1	0.24 ☐ ML ☑ MDL
1,1,1-trichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.12 ☐ ML ☑ MDL
1,1,2-trichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.13 ☐ ML ☑ MDL

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Trichloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.29 ☐ ML ☑ MDL
Vinyl chloride	nd	ug/l	nd	ug/l	4	EPA 624.1	0.33 ☐ ML ☑ MDL
Acid-Extractable Compounds							
p-chloro-m-cresol							☐ ML ☐ MDL
2-chlorophenol							☐ ML ☐ MDL
2,4-dichlorophenol							☐ ML ☐ MDL
2,4-dimethylphenol							☐ ML ☐ MDL
4,6-dinitro-o-cresol							☐ ML ☐ MDL
2,4-dinitrophenol							☐ ML ☐ MDL
2-nitrophenol							☐ ML ☐ MDL
4-nitrophenol							☐ ML ☐ MDL
Pentachlorophenol							☐ ML ☐ MDL
Phenol							☐ ML ☐ MDL
2,4,6-trichlorophenol							☐ ML ☐ MDL
Base-Neutral Compounds							
Acenaphthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Acenaphthylene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.39 ☐ ML ☑ MDL
Anthracene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Benzidine	nd	ug/l	nd	ug/l	4	EPA 625.1	2.5 ☐ ML ☑ MDL
Benzo(a)anthracene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.41 ☐ ML ☑ MDL
Benzo(a)pyrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.36 ☐ ML ☑ MDL
3,4-benzofluoranthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Trichloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.29 ☐ ML ☑ MDL
Vinyl chloride	nd	ug/l	nd	ug/l	4	EPA 624.1	0.33 ☐ ML ☑ MDL
Acid-Extractable Compounds							
p-chloro-m-cresol							☐ ML ☐ MDL
2-chlorophenol							☐ ML ☐ MDL
2,4-dichlorophenol							☐ ML ☐ MDL
2,4-dimethylphenol							☐ ML ☐ MDL
4,6-dinitro-o-cresol							☐ ML ☐ MDL
2,4-dinitrophenol							☐ ML ☐ MDL
2-nitrophenol							☐ ML ☐ MDL
4-nitrophenol							☐ ML ☐ MDL
Pentachlorophenol							☐ ML ☐ MDL
Phenol							☐ ML ☐ MDL
2,4,6-trichlorophenol							☐ ML ☐ MDL
Base-Neutral Compounds							
Acenaphthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Acenaphthylene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.39 ☐ ML ☑ MDL
Anthracene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Benzidine	nd	ug/l	nd	ug/l	4	EPA 625.1	2.5 ☐ ML ☑ MDL
Benzo(a)anthracene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.41 ☐ ML ☑ MDL
Benzo(a)pyrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.36 ☐ ML ☑ MDL
3,4-benzofluoranthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	001

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Benzo(ghi)perylene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☑ MDL
Benzo(k)fluoranthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.39 ☐ ML ☑ MDL
Bis (2-chloroethoxy) methane	nd	ug/l	nd	ug/l	4	EPA 625.1	0.44 ☐ ML ☑ MDL
Bis (2-chloroethyl) ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.38 ☐ ML ☑ MDL
Bis (2-chloroisopropyl) ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.44 ☐ ML ☑ MDL
Bis (2-ethylhexyl) phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.81 ☐ ML ☑ MDL
4-bromophenyl phenyl ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.45 ☐ ML ☑ MDL
Butyl benzyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.59 ☐ ML ☑ MDL
2-chloronaphthalene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
4-chlorophenyl phenyl ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Chrysene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☑ MDL
di-n-butyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.57 ☐ ML ☑ MDL
di-n-octyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.88 ☐ ML ☑ MDL
Dibenzo(a,h)anthracene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☑ MDL
1,2-dichlorobenzene							☐ ML ☐ MDL
1,3-dichlorobenzene							☐ ML ☐ MDL
1,4-dichlorobenzene							☐ ML ☐ MDL
3,3-dichlorobenzidine	nd	ug/l	nd	ug/l	4	EPA 625.1	1.1 ☐ ML ☑ MDL
Diethyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.56 ☐ ML ☑ MDL
Dimethyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☑ MDL
2,4-dinitrotoluene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.45 ☐ ML ☑ MDL
2,6-dinitrotoluene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.41 ☐ ML ☑ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Benzo(ghi)perylene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☑ MDL
Benzo(k)fluoranthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.39 ☐ ML ☑ MDL
Bis (2-chloroethoxy) methane	nd	ug/l	nd	ug/l	4	EPA 625.1	0.44 ☐ ML ☑ MDL
Bis (2-chloroethyl) ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.38 ☐ ML ☑ MDL
Bis (2-chloroisopropyl) ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.44 ☐ ML ☑ MDL
Bis (2-ethylhexyl) phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.81 ☐ ML ☑ MDL
4-bromophenyl phenyl ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.45 ☐ ML ☑ MDL
Butyl benzyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.59 ☐ ML ☑ MDL
2-chloronaphthalene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
4-chlorophenyl phenyl ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Chrysene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☐ MDL
di-n-butyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.57 ☐ ML ☑ MDL
di-n-octyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.88 ☐ ML ☑ MDL
Dibenzo(a,h)anthracene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☑ MDL
1,2-dichlorobenzene							☐ ML ☐ MDL
1,3-dichlorobenzene							☐ ML ☐ MDL
1,4-dichlorobenzene							☐ ML ☐ MDL
3,3-dichlorobenzidine	nd	ug/l	nd	ug/l	4	EPA 625.1	1.1 ☐ ML ☑ MDL
Diethyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.56 ☐ ML ☑ MDL
Dimethyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☑ MDL
2,4-dinitrotoluene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.45 ☐ ML ☑ MDL
2,6-dinitrotoluene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.41 ☐ ML ☑ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	001

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
1,2-diphenylhydrazine	nd	ug/l	nd	ug/l	4	EPA 625.1	0.35 ☐ ML ☑ MDL
Fluoranthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☑ MDL
Fluorene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.38 ☐ ML ☑ MDL
Hexachlorobenzene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☑ MDL
Hexachlorobutadiene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.49 ☐ ML ☑ MDL
Hexachlorocyclo-pentadiene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.74 ☐ ML ☑ MDL
Hexachloroethane	nd	ug/l	nd	ug/l	4	EPA 625.1	0.37 ☐ ML ☑ MDL
Indeno(1,2,3-cd)pyrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Isophorone	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☑ MDL
Naphthalene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Nitrobenzene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.53 ☑ ML ☑ MDL
N-nitrosodi-n-propylamine	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☑ ML ☑ MDL
N-nitrosodimethylamine	nd	ug/l	nd	ug/l	4	EPA 625.1	1.1 ☐ ML ☑ MDL
N-nitrosodiphenylamine	nd	ug/l	nd	ug/l	4	EPA 625.1	0.49 ☐ ML ☑ MDL
Phenanthrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.39 ☐ ML ☑ MDL
Pyrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☑ MDL
1,2,4-trichlorobenzene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☑ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
1,2-diphenylhydrazine	nd	ug/l	nd	ug/l	4	EPA 625.1	0.35 ☐ ML ☐ MDL
Fluoranthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☐ MDL
Fluorene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.38 ☐ ML ☐ MDL
Hexachlorobenzene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☐ MDL
Hexachlorobutadiene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.49 ☐ ML ☐ MDL
Hexachlorocyclo-pentadiene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.74 ☐ ML ☐ MDL
Hexachloroethane	nd	ug/l	nd	ug/l	4	EPA 625.1	0.37 ☐ ML ☐ MDL
Indeno(1,2,3-cd)pyrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☐ MDL
Isophorone	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☐ MDL
Naphthalene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☐ MDL
Nitrobenzene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.53 ☐ ML ☐ MDL
N-nitrosodi-n-propylamine	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☐ MDL
N-nitrosodimethylamine	nd	ug/l	nd	ug/l	4	EPA 625.1	1.1 ☐ ML ☐ MDL
N-nitrosodiphenylamine	nd	ug/l	nd	ug/l	4	EPA 625.1	0.49 ☐ ML ☐ MDL
Phenanthrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.39 ☐ ML ☐ MDL
Pyrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☐ MDL
1,2,4-trichlorobenzene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☐ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

This page intentionally left blank.

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	001 (Values from CY'20)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. ADDITIONAL POLLUTANTS AS REQUIRED BY NPDES PERMITTING AUTHORITY

Pollutant (list)	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
☐ No additional sampling is required by NPDES permitting authority.							
tPCB Cogeners	1.31	ng/l	.98	ng/l	3	1668A-TMD	varies ☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
	"						☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002 (Values from CY'20)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. ADDITIONAL POLLUTANTS AS REQUIRED BY NPDES PERMITTING AUTHORITY

Pollutant (list)	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
☐ No additional sampling is required by NPDES permitting authority.							
tPCB Cogeners	1.48	ng/l	0.93	ng/l	3	1668A-TMD	varies ☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

This page intentionally left blank.

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	

Form Approved 03/05/19
OMB No. 2040-0004

TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

Test Information	**Test Number ____**	**Test Number ____**	**Test Number ____**
Test species			
Age at initiation of test			
Outfall number			
Date sample collected			
Date test started			
Duration			
Toxicity Test Methods			
Test method number			
Manual title			
Edition number and year of publication			
Page number(s)			
Sample Type			
Check one:	☐ Grab ☐ 24-hour composite	☐ Grab ☐ 24-hour composite	☐ Grab ☐ 24-hour composite
Sample Location			
Check one:	☐ Before Disinfection ☐ After Disinfection ☐ After Dechlorination	☐ Before Disinfection ☐ After Disinfection ☐ After Dechlorination	☐ Before disinfection ☐ After disinfection ☐ After dechlorination
Point in Treatment Process			
Describe the point in the treatment process at which the sample was collected for each test.			
Toxicity Type			
Indicate for each test whether the test was performed to asses acute or chronic toxicity, or both. (Check one response.)	☐ Acute ☐ Chronic ☐ Both	☐ Acute ☐ Chronic ☐ Both	☐ Acute ☐ Chronic ☐ Both

TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

	Test Number ____	Test Number ____	Test Number ____
Test Type			
Indicate the type of test performed. (Check one response.)	☐ Static ☐ Static-renewal ☐ Flow-through	☐ Static ☐ Static-renewal ☐ Flow-through	☐ Static ☐ Static-renewal ☐ Flow-through
Source of Dilution Water			
Indicate the source of dilution water. (Check one response.)	☐ Laboratory water ☐ Receiving water	☐ Laboratory water ☐ Receiving water	☐ Laboratory water ☐ Receiving water
If laboratory water, specify type.			
If receiving water, specify source.			
Type of Dilution Water			
Indicate the type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.	☐ Fresh water ☐ Salt water (specify)	☐ Fresh water ☐ Salt water (specify)	☐ Fresh water ☐ Salt water (specify)
Percentage Effluent Used			
Specify the percentage effluent used for all concentrations in the test series.			
Parameters Tested			
Check the parameters tested.	☐ pH ☐ Salinity ☐ Temperature ☐ Ammonia ☐ Dissolved oxygen	☐ pH ☐ Salinity ☐ Temperature ☐ Ammonia ☐ Dissolved oxygen	☐ pH ☐ Salinity ☐ Temperature ☐ Ammonia ☐ Dissolved oxygen
Acute Test Results			
Percent survival in 100% effluent	%	%	%
LC_{50}			
95% confidence interval	%	%	%
Control percent survival	%	%	%

TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

	Test Number ____		Test Number ____		Test Number ____	
Acute Test Results Continued						
Other (describe)						
Chronic Test Results						
NOEC	%		%		%	
IC_{25}	%		%		%	
Control percent survival	%		%		%	
Other (describe)						
Quality Control/Quality Assurance						
Is reference toxicant data available?	☐ Yes	☐ No	☐ Yes	☐ No	☐ Yes	☐ No
Was reference toxicant test within acceptable bounds?	☐ Yes	☐ No	☐ Yes	☐ No	☐ Yes	☐ No
What date was reference toxicant test run (MM/DD/YYYY)?						
Other (describe)						

This page intentionally left blank.

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0021555	Back River WWTP (from Baltimore City)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU Yes	SIU Yes	SIU Yes
Name of SIU	Clean Harbors of Baltimore, Inc.	Clendenin Brothers, Inc.	Arco Metals, Inc.
Mailing address (street or P.O. box)	1910 Russell Street	4309 Erdman Avenue	3546 Old York Road
City, state, and ZIP code	Baltimore, Maryland 21230	Baltimore, Maryland 21213	Baltimore, MD 21218
Description of all industrial processes that affect or contribute to the discharge.	Hazardous waste storage and treatment	The manufacturing of nails and rivets "metal fasteners)	The fabrication of sheet metal and machining parts for local defense industry. The manufacturing processes include trivalent and hexavalent chromate conversion, and passivation.
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Hazardous waste received from various industries.	Stainless steel wire, aluminum wire, brass wire, copper wire, resulting in dissolved metals in the wastewater.	Heavy Metals, such as chromium, copper and zinc.
Indicate the average daily volume of wastewater discharged by the SIU.	88200 gpd	41000 gpd	22 gpd
How much of the average daily volume is attributable to process flow?	87000 gpd	40000 gpd	22 gpd
How much of the average daily volume is attributable to non-process flow?	1200 gpd	1000 gpd	200 gpd
Is the SIU subject to local limits?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☐ No

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0021555	Back River WWTP (from Baltimore City)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ____	SIU ____	SIU ____
Under what categories and subcategories is the SIU subject?	Pretreatment standards for the Centralized Waste Treatment category (40 CFR 437-46b)	Pretreatment standards for the existing source metal finishing category (40 CFR 433)	
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☐ No
If yes, describe.			

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0021555	Back River WWTP (from Baltimore City)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU Yes	SIU Yes	SIU Yes
Name of SIU	Eisai, Inc.	Emergent BioSolutions, Inc.	Emergent BioSolutions, Inc. Camden Campı
Mailing address (street or P.O. box)	6611 Tributary Street	5901 East Lombard Street	1111 South Paca Street
City, state, and ZIP code	Baltimore, Maryland 21224	Baltimore, Maryland 21224	Baltimore, Maryland 21230
Description of all industrial processes that affect or contribute to the discharge.	Cleaning plant and equiptment, reverse osmosis. The manufacture of the pharmaceutical product Gliadel Wafers.	Microbial fermentation, cell culture processing, protein and water purification, passivation of stainless steal, reverse osmosis, plant and equipment washdown.	Cleaning of plant and equipment, reverse osmosis.
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Various Organic Compounds. Manufacturer of the pharmaceutical product - Gliadel Wafer	Various Organic Compounds. The development and production of vacines, monoclonal antibodies and drugs for a variety of diseases	Various Organic Compounds Formulate and package pharmaceuticals for various pharmaceutical manufacturing companies
Indicate the average daily volume of wastewater discharged by the SIU.	5200 gpd	56000 gpd	52200 gpd
How much of the average daily volume is attributable to process flow?	3400 gpd	52100 gpd	43400 gpd
How much of the average daily volume is attributable to non-process flow?	1800 gpd	3900 gpd	8800 gpd
Is the SIU subject to local limits?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0021555	Back River WWTP (from Baltimore City)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU Yes	SIU Yes	SIU Yes
Under what categories and subcategories is the SIU subject?	Pretreatment standards for the New Source Pharmaceutical Manufacturing category (40 CFR 439 Subpart D-Mixing, Coumpounding and Formulating).	Pretreatment Standards for the New Source Pharmaceutical Manufacturing category, Fermentation Subpart (40 CFR 439.17.	Pretreatment Standards for the New Sources Pharmaceutical category (40 CFR 439 Subpart D-Mixing, Compounding and Formulating)
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No
If yes, describe.			

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0021555	Back River WWTP (from Baltimore City)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU Yes	SIU Yes	SIU Yes
Name of SIU	Ace Uniform Services, Inc.	Chesapeake Uniform Rental, Inc.	Cintas Corporation
Mailing address (street or P.O. box)	1800 Parkman Avenue	3710 East Baltimore Street	6300 Seaforth Street
City, state, and ZIP code	Baltimore, Maryland 21230	Baltimore, Maryland 21230	Baltimore, Maryland 21221
Description of all industrial processes that affect or contribute to the discharge.	Industrial Laundry	Industrial Laundry	Industrial Laundry
List the principal products and raw materials that affect or contribute to the SIU's discharge.	The washing of industrial uniforms	Washing of industrial uniforms	The washing of uniforms, mats, linens, shop towels and mops.
Indicate the average daily volume of wastewater discharged by the SIU.	14000 gpd	19500 gpd	41000 gpd
How much of the average daily volume is attributable to process flow?	13500 gpd	19000 gpd	40000 gpd
How much of the average daily volume is attributable to non-process flow?	500 gpd	500 gpd	1000 gpd
Is the SIU subject to local limits?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU Yes	SIU Yes	SIU Yes
Under what categories and subcategories is the SIU subject?	Local Limit - Pursuant to the provisions of Article 25 of the Baltimore City Code.	Local Limit - Pursuant to the provisions of Article 25 of the Baltimore City Code.	Local Limit - Pursuant to the provisions of Article 25 of the Baltimore City Code.
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☐ No
If yes, describe.			

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU Yes	SIU Yes	SIU Yes
Name of SIU	Hospital Central Services Cooperative, Inc.	The Sherwin-Williams Company	Dietz & Watson Corporation
Mailing address (street or P.O. box)	3001 Cowan Avenue	2325 Hollins Ferry Road	3330 Henry G. Parks, Jr. Circle Drive
City, state, and ZIP code	Baltimore, Maryland 21223	Baltimore, Maryland 21230	Baltimore, Maryland 21215
Description of all industrial processes that affect or contribute to the discharge.	Industrial Laundry	The manufacturing of latex paints and alkyd resin-base paints	The processing poultry deli meats and pork chitterlings.
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Industrial Laundry	Latex paint	Chicken and pork products.
Indicate the average daily volume of wastewater discharged by the SIU.	59500 gpd	9300 gpd	149000 gpd
How much of the average daily volume is attributable to process flow?	59000 gpd	7300 gpd	150000 gpd
How much of the average daily volume is attributable to non-process flow?	500 gpd	2000 gpd	3000 gpd
Is the SIU subject to local limits?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU Yes	SIU ___	SIU Yes
Under what categories and subcategories is the SIU subject?	Local Limit - Pursuant to the provisions of Article 25 of the Baltimore City Code.	Local Limit - Pursuant to the provisions of Article 25 of the Baltimore City Code.	Local Limit - Pursuant to the provisions of Article 25 of the Baltimore City Code.
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☐ No
If yes, describe.			

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0031555	Back River WWTP (from Baltimore County)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ___	SIU ___	SIU ___
Name of SIU	A & A Global Industries	American Yeast	Becton Dickinson
Mailing address (street or P.O. box)	10711 Gilroy Rd.	8215 Beachwood Rd.	250 Schilling Circle
City, state, and ZIP code	Hunt Valley, MD 21031	Baltimore, MD 21222	Hunt Valley, MD 21030
Description of all industrial processes that affect or contribute to the discharge.	Metal finishing / powder coating	Yeast manufacturing	Petri dishes, petri dishes with agar, liquid media, lactinex pills, and crystal panels
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Metal parts, powder coating, steel, aluminum, cast pot metal, brass, and titanium	Beet molasses, Domino brown sugar, cane sugar	Liquid media, Phoenix panels
Indicate the average daily volume of wastewater discharged by the SIU.	1,854 gpd	268,499 gpd	165,357 gpd
How much of the average daily volume is attributable to process flow?	1,854 gpd	268,499 gpd	165,357 gpd
How much of the average daily volume is attributable to non-process flow?	0 gpd	0 gpd	gpd
Is the SIU subject to local limits?	☐ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☑ Yes ☐ No	☐ Yes ☑ No	☐ Yes ☑ No

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ____	SIU ____	SIU ____
Under what categories and subcategories is the SIU subject?	40 CFR 433.17 Metal Finishing		
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No
If yes, describe.			

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ___	SIU ___	SIU ___
Name of SIU	Becton Dickinson	Becton Dickinson	Browning Ferris industries
Mailing address (street or P.O. box)	39 Loveton Circle	7 Loveton Circle	101 Norris Lane
City, state, and ZIP code	Sparks, MD 21152	Sparks, MD 21152	Baltimore, MD 21222
Description of all industrial processes that affect or contribute to the discharge.	Dyes & Stains Manufacturing & Packaging Rooms, Fillling, Mixing, Grinding, Autoclaves, and Cleaning.	Manufacturer of biological growth media.	Closed Landfill – Landfill Leachate
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Dyes and stains.	Prepared plated media.	None
Indicate the average daily volume of wastewater discharged by the SIU.	10,943 gpd	28,005 gpd	42,610 gpd
How much of the average daily volume is attributable to process flow?	10,943 gpd	21,122 gpd	42,610 gpd
How much of the average daily volume is attributable to non-process flow?	0 gpd	6,883 gpd	0 gpd
Is the SIU subject to local limits?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ___	SIU ___	SIU ___
Under what categories and subcategories is the SIU subject?			
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No
If yes, describe.			

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ___	SIU ___	SIU ___
Name of SIU	Eastern Plating	EISAI, Inc.	G+G Industrial Finishing Inc.
Mailing address (street or P.O. box)	7803 Pulaski Highway	11675 Crossroads Circle	1113 Old North Point Rd., Bldg B
City, state, and ZIP code	Baltimore, MD 21237	Baltimore, MD 21220	Baltimore, MD 21222
Description of all industrial processes that affect or contribute to the discharge.	Anodized aluminum parts, black oxide coating of steel parts and chromate conversion	Manufacturing of the GLIADEL wafer	Anodizing aluminum (parts)
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Chromic acid, sulfuric acid, sodium hydroxide, nitric acid, dyes and black oxide coating	Propylene glycol, ethylene glycol	Chromic acid, sodium hydroxide, nitric acid
Indicate the average daily volume of wastewater discharged by the SIU.	7,394 gpd	1,045 gpd	93 gpd
How much of the average daily volume is attributable to process flow?	7,394 gpd	1,045 gpd	93 gpd
How much of the average daily volume is attributable to non-process flow?	0 gpd	0 gpd	0 gpd
Is the SIU subject to local limits?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Is the SIU subject to categorical standards?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ____	SIU ____	SIU ____
Under what categories and subcategories is the SIU subject?	40 CFR 433.17 – Metal finishing	40 CFR 439 – Pharmaceutical Subpart D	40 CFR 433.17 – Metal finishing
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No
If yes, describe.			

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ___	SIU ___	SIU ___
Name of SIU	Honeygo Run Reclamation Center	Imerys Carbonates USA, Inc.	Maryland Plating & Servicing, Inc.
Mailing address (street or P.O. box)	10710 Philadelphia Road	10000 Beaver Dam Rd.	8243 Rosebank Ave
City, state, and ZIP code	Perry Hall, MD 21228	Cockeysville, MD 21030	Baltimore, MD 21222
Description of all industrial processes that affect or contribute to the discharge.	Construction Rubble Landfill – Landfill Leachate.	Ultra fine carbonates, chemical make-up tank, flotation tanks, slurry run-off, Production and quality analysis laboratories	Zinc phosphate coating, electroplating, anodizing, passivating, and chemical converstion
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Principal product(s): Recycled concrete, recycled asphalt, sand, soil and mulch. Raw material(s): Concrete and Asphalt removed during road repair, excavated soil, and used lumber	Principal product(s): Calcium Carbonate Raw material(s): Calcium	Machined steel, stainless steel alloys, aluminum alloys, and various chemically reactive solutions
Indicate the average daily volume of wastewater discharged by the SIU.	23,993 gpd	145,162 gpd	132 gpd
How much of the average daily volume is attributable to process flow?	23,993 gpd	145,162 gpd	132 gpd
How much of the average daily volume is attributable to non-process flow?	0 gpd	0 gpd	0 gpd
Is the SIU subject to local limits?	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☐ No
Is the SIU subject to categorical standards?	☐ Yes ☐ No	☐ Yes ☐ No	☑ Yes ☐ No

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ___	SIU ___	SIU ___
Under what categories and subcategories is the SIU subject?			40 CFR 433.17 Metal finishing
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No
If yes, describe.			

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ___	SIU ___	SIU ___
Name of SIU	McCormick & Company, Inc. (Flavor Manufact	McCormick & Company, Inc., (Hunt Valley Pl	McCormick & Company, Inc. (Spice Mill)
Mailing address (street or P.O. box)	11102 McCormick Rd.	11100 McCormick Rd.	10901 Gilroy Rd.
City, state, and ZIP code	Hunt Valley, MD 21031	Hunt Valley, MD 21031	Hunt Valley, MD 21031
Description of all industrial processes that affect or contribute to the discharge.	Air scrubbers, dry blendings, spray dry blending, laboratories, cleaning, filter press	Mixing, blending, vanilla extracting, laboratories, (QA)	Wet air scrubbers, oil water separator, autoclaves, sterilizer, blending, mixing, black pepper conveying heat exchangers, black pepper blower heat exchangers
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Principal product(s): Dry blended seasonings, spray dried flavors, and liquid flavors Raw material(s): Seasonings and flavors	Spices, flavors, and extracts	Dry spices
Indicate the average daily volume of wastewater discharged by the SIU.	192,588 gpd	81,794 gpd	77,248 gpd
How much of the average daily volume is attributable to process flow?	192,588 gpd	81,794 gpd	77,248 gpd
How much of the average daily volume is attributable to non-process flow?	0 gpd	0 gpd	0 gpd
Is the SIU subject to local limits?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ___	SIU ___	SIU ___
Under what categories and subcategories is the SIU subject?			
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☐ No	☐ Yes ☑ No	☐ Yes ☑ No
If yes, describe.			

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ___	SIU ___	SIU ___
Name of SIU	Pharmaceutics International Inc. (Beaver Ct.)	Pharmaceutics International Inc. (Gilroy Rd.)	Unifirst Corporation
Mailing address (street or P.O. box)	103 Beaver Court	10819 Gilroy Rd.	8820 Yellow Brick Rd.
City, state, and ZIP code	Cockeysville, MD 21030	Hunt Valley, MD 21031	Baltimore, MD 21237
Description of all industrial processes that affect or contribute to the discharge.	Blending, mixing, coating	Mixing, blending, encapsulation, granulation, tableting, coating, laboratories	Industrial laundry
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Principal product(s): Pharmaceutical products. Raw material(s): Materials vary with contract.	Principal product(s): Pharmaceutical products. Raw material(s): Materials vary with contract.	Principal product(s): Cleaning uniforms and rags. Raw material(s): Soiled clothes, soaps.
Indicate the average daily volume of wastewater discharged by the SIU.	7,716 gpd	7,537 gpd	32,578 gpd
How much of the average daily volume is attributable to process flow?	7,716 gpd	7.537 gpd	32,578 gpd
How much of the average daily volume is attributable to non-process flow?	0 gpd	0 gpd	0 gpd
Is the SIU subject to local limits?	☐ Yes ☐ No	☐ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☐ No

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0021555	Back River WWTP (from Baltimore County)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ___	SIU ___	SIU ___
Under what categories and subcategories is the SIU subject?	40 CFR 439 Pharmaceutical Subpart D	40 CFR 439 Pharmaceutical Subpart D	
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☐ No	☐ Yes ☑ No	☐ Yes ☑ No
If yes, describe.			

CITY OF BALTIMORE
BRANDON M. SCOTT, MAYOR

DEPARTMENT OF PUBLIC WORKS
Jason W. Mitchell, Director
Abel Wolman Municipal Building, 6th Floor
200 N. Holliday Street
Baltimore, Maryland 21202

June 23, 2023

Maryland Department of the Environment
Water and Science Administration
1800 Washington Boulevard
Baltimore, Maryland 21230

Umm-e-hani Iqbal,

In response to your email on June 22, 2023, please see the requested data.

Lat/Long of the Sampling Point for Outfall 001A
Latitude = 39.293588
Longitude = -76.478223
GPS Coordinates = 39° 17' 36.9168" N / 76° 28' 41.6028" W

Lat/Long of the Sampling Point 101A where raw wastewater influent enters Back River
Latitude = 39.294229
Longitude = -76.499972
GPS Coordinated = 39°17'39.2244" N / 76° 29'59.8992" W

Comments concerning this submission will be graciously accepted.

Sincerely,

Rayford F. McEachern, Jr.
Operations Engineer

CITY OF BALTIMORE
BRANDON M. SCOTT, MAYOR

DEPARTMENT OF PUBLIC WORKS
Jason W. Mitchell, Director
Abel Wolman Municipal Building, 6th Floor
200 N. Holliday Street
Baltimore, Maryland 21202

November 4, 2021

Yen-Der Cheng
Chief, Municipal Surface Discharge Division
Wastewater Permit Program
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore, Maryland 21230

Dear Mr. Yen-Der Cheng:

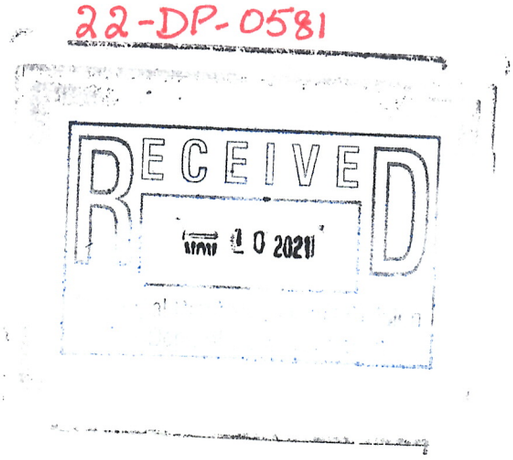
Enclosed you will find the U.S. EPA application for NPDES Permit to Discharge Wastewater (State discharge permit #15-DP-0581). This application is accompanied with requested attachments.

If you require additional information, please contact me at (410)396-9814, or by e-mail at betty.jacobs@baltimorecity.gov .

Sincerely,

Elizabeth R. Jacobs
Plant Manager
Back River Wastewater
Treatment Plant

AI #8449
22-DP-0581



ERJ/rm

Enclosures

Cc: Mr. Jason Mitchell
Mr. Yosef Kebebe
Mr. Michael Hallmen
Mr. Rayford McEachern

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	

Form 2A NPDES — EPA

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater
NEW AND EXISTING PUBLICLY OWNED TREATMENT WORKS

SECTION 1. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS (40 CFR 122.21(j)(1) and (9))

Facility Information

1.1 Facility name
Back River Wastewater Treatment Plant

Mailing address (street or P.O. box)
8201 Eastern Blvd.

City or town	State	ZIP code
Baltimore	Maryland	21224

Contact name (first and last)	Title	Phone number	Email address
Elizabeth Jacobs	Plant Manager	(410) 396-9814	betty.jacobs@baltimorecity.gc

Location address (street, route number, or other specific identifier) ☐ Same as mailing address
8201 Eastern Blvd.

City or town	State	ZIP code
Baltimore	Maryland	21224

1.2 Is this application for a facility that has yet to commence discharge?
☐ Yes ➔ See instructions on data submission requirements for new dischargers. ☑ No

Applicant Information

1.3 Is applicant different from entity listed under Item 1.1 above?
☐ Yes ☑ No ➔ SKIP to Item 1.4.

Applicant name
City of Baltimore, Department of Public Works

Applicant address (street or P.O. box)
8201 Eastern Blvd.

City or town	State	ZIP code
Baltimore	Maryland	21244

Contact name (first and last)	Title	Phone number	Email address
Elizabeth Jacobs	Plant Manager	(410) 396-9814	betty.jacobs@baltimorecity.gc

1.4 Is the applicant the facility's owner, operator, or both? (Check only one response.)
☐ Owner ☐ Operator ☑ Both

1.5 To which entity should the NPDES permitting authority send correspondence? (Check only one response.)
☐ Facility ☐ Applicant ☑ Facility and applicant (they are one and the same)

Existing Environmental Permits

1.6 Indicate below any existing environmental permits. (Check all that apply and print or type the corresponding permit number for each.)

Existing Environmental Permits

☑ NPDES (discharges to surface water) MD0021555, 15-DP-0581	☑ RCRA (hazardous waste) MDD990686040	☐ UIC (underground injection control)
☑ PSD (air emissions) 24-005-00812 (Part70 Operatir	☐ Nonattainment program (CAA)	☐ NESHAPs (CAA)
☐ Ocean dumping (MPRSA)	☐ Dredge or fill (CWA Section 404)	☑ Other (specify) 2021-STF-5851 (Sewage Sludge) 12-SW-0630 (Storm Water)

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	

Collection System and Population Served

1.7 Provide the collection system information requested below for the treatment works.

Municipality Served	Population Served	Collection System Type (indicate percentage)	Ownership Status
Baltimore City	505,000	100 % separate sanitary sewer ____ % combined storm and sanitary sewer ☐ Unknown	☑ Own ☐ Maintain ☐ Own ☐ Maintain ☐ Own ☐ Maintain
Baltimore County	471,000	100 % separate sanitary sewer ____ % combined storm and sanitary sewer ☐ Unknown	☑ Own ☐ Maintain ☐ Own ☐ Maintain ☐ Own ☐ Maintain
		100 % separate sanitary sewer ____ % combined storm and sanitary sewer ☐ Unknown	☑ Own ☐ Maintain ☐ Own ☐ Maintain ☐ Own ☐ Maintain
		____ % separate sanitary sewer ____ % combined storm and sanitary sewer ☐ Unknown	☐ Own ☐ Maintain ☐ Own ☐ Maintain ☐ Own ☐ Maintain
Total Population Served	976,000		

	Separate Sanitary Sewer System	Combined Storm and Sanitary Sewer
Total percentage of each type of sewer line (in miles)	100 %	%

Indian Country

1.8 Is the treatment works located in Indian Country?

☐ Yes ☑ No

1.9 Does the facility discharge to a receiving water that flows through Indian Country?

☐ Yes ☑ No

Design and Actual Flow Rates

1.10 Provide design *and* actual flow rates in the designated spaces.

Design Flow Rate
180 mgd

Annual Average Flow Rates (Actual)		
Two Years Ago	**Last Year**	**This Year**
CY'19 = 134.7 mgd	CY'20 = 130.2 mgd	125.6 (Sept. 30) mgd

Maximum Daily Flow Rates (Actual)		
Two Years Ago	**Last Year**	**This Year**
CY'19 = 367 mgd	CY'20 = 475 mgd	479 (Sept. 30) mgd

Discharge Points by Type

1.11 Provide the total number of effluent discharge points to waters of the United States by type.

Total Number of Effluent Discharge Points by Type				
Treated Effluent	**Untreated Effluent**	**Combined Sewer Overflows**	**Bypasses**	**Constructed Emergency Overflows**
2				

Outfalls and Other Discharge or Disposal Methods

Outfalls Other Than to Waters of the United States

1.12 Does the POTW discharge wastewater to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the United States?

☐ Yes ☑ No ➔ SKIP to Item 1.14.

1.13 Provide the location of each surface impoundment and associated discharge information in the table below.

Surface Impoundment Location and Discharge Data

Location	Average Daily Volume Discharged to Surface Impoundment	Continuous or Intermittent (check one)
	gpd	☐ Continuous ☐ Intermittent
	gpd	☐ Continuous ☐ Intermittent
	gpd	☐ Continuous ☐ Intermittent

1.14 Is wastewater applied to land?

☐ Yes ☑ No ➔ SKIP to Item 1.16.

1.15 Provide the land application site and discharge data requested below.

Land Application Site and Discharge Data

Location	Size	Average Daily Volume Applied	Continuous or Intermittent (check one)
	acres	gpd	☐ Continuous ☐ Intermittent
	acres	gpd	☐ Continuous ☐ Intermittent
	acres	gpd	☐ Continuous ☐ Intermittent

1.16 Is effluent transported to another facility for treatment prior to discharge?

☑ Yes ☐ No ➔ SKIP to Item 1.21.

1.17 Describe the means by which the effluent is transported (e.g., tank truck, pipe).

Lift station and pumping to conveying pipeline to Tradepoint Atlantic (Outfall 002 to Beth Steel). Flow discharges into the High Head Lake at Sparrows Point. From there it is pumped into existing outfalls into Bear Creek.

1.18 Is the effluent transported by a party other than the applicant?

☐ Yes ☑ No ➔ SKIP to Item 1.20.

1.19 Provide information on the transporter below.

Transporter Data

Entity name	Mailing address (street or P.O. box)	
City or town	State	ZIP code
Contact name (first and last)	Title	
Phone number	Email address	

Outfalls and Other Discharge or Disposal Methods Continued

1.20 In the table below, indicate the name, address, contact information, NPDES number, and average daily flow rate of the receiving facility.

Receiving Facility Data

Facility name: Tradepoint Atlantic	Mailing address (street or P.O. box): 1600 Sparrows Point Blvd.	
City or town: Sparrows Point	State: Maryland	ZIP code: 21219
Contact name (first and last): Mr. Mike Vogler	Title: Senior VP, Site Operations	
Phone number: (443) 386-3619	Email address: mvogler@tradepointatlantic.com	
NPDES number of receiving facility (if any) ☐ None	Average daily flow rate	CY'20 = 24.1 mgd

1.21 Is the wastewater disposed of in a manner other than those already mentioned in Items 1.14 through 1.21 that do not have outlets to waters of the United States (e.g., underground percolation, underground injection)?

☐ Yes ☑ No ➔ SKIP to Item 1.23.

1.22 Provide information in the table below on these other disposal methods.

Information on Other Disposal Methods

Disposal Method Description	Location of Disposal Site	Size of Disposal Site	Annual Average Daily Discharge Volume	Continuous or Intermittent (check one)
		acres	gpd	☐ Continuous ☐ Intermittent
		acres	gpd	☐ Continuous ☐ Intermittent
		acres	gpd	☐ Continuous ☐ Intermittent

Variance Requests

1.23 Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(n)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)

☐ Discharges into marine waters (CWA Section 301(h))

☐ Water quality related effluent limitation (CWA Section 302(b)(2))

☑ Not applicable

Contractor Information

1.24 Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?

☑ Yes ☐ No ➔ SKIP to Section 2.

1.25 Provide location and contact information for each contractor in addition to a description of the contractor's operational and maintenance responsibilities.

Contractor Information

	Contractor 1	Contractor 2	Contractor 3
Contractor name (company name)	Veolia Water North America-C	Synagro Technologies Baltimor	
Mailing address (street or P.O. box)	5800 Quarantine Road	8201 Eastern Blvd.	
City, state, and ZIP code	Baltimore, MD 21226	Baltimore, MD 21224	
Contact name (first and last)	Mr. Tom Fantom	Mr. Joe Hurt	
Phone number	(410) 354-1636	(410) 282-7325	
Email address	thomas.fantom@veolia.com	JHurt@SYNAGRO.com	
Operational and maintenance responsibilities of contractor	Sludge composting	Sludge heat drying to make pellets.	

SECTION 2. ADDITIONAL INFORMATION (40 CFR 122.21(j)(1) and (2))

Design Flow

Outfalls to Waters of the United States

2.1 Does the treatment works have a design flow greater than or equal to 0.1 mgd?

☑ Yes ☐ No ➔ SKIP to Section 3.

Inflow and Infiltration

2.2 Provide the treatment works' current average daily volume of inflow and infiltration.

Average Daily Volume of Inflow and Infiltration	
CY'20 = 130,200,000 GPD	130,200,000 gpd

Indicate the steps the facility is taking to minimize inflow and infiltration.

Consent decree for Baltimore City collection system renovations.

Topographic Map

2.3 Have you attached a topographic map to this application that contains all the required information? (See instructions for specific requirements.)

☑ Yes ☐ No

Flow Diagram

2.4 Have you attached a process flow diagram or schematic to this application that contains all the required information? (See instructions for specific requirements.)

☑ Yes ☐ No

Scheduled Improvements and Schedules of Implementation

2.5 Are improvements to the facility scheduled?

☑ Yes ☐ No ➔ SKIP to Section 3.

Briefly list and describe the scheduled improvements.

1. SC 918 - New headworks facility
2. SC - 882 ENR improvements
3. digester rehab (to begin summer 2022)
4.

2.6 Provide scheduled or actual dates of completion for improvements.

Scheduled or Actual Dates of Completion for Improvements

Scheduled Improvement (from above)	Affected Outfalls (list outfall number)	Begin Construction (MM/DD/YYYY)	End Construction (MM/DD/YYYY)	Begin Discharge (MM/DD/YYYY)	Attainment of Operational Level (MM/DD/YYYY)
1.	001	06/29/2017			
2.	001	10/27/2014			
3.	001				
4.					

2.7 Have appropriate permits/clearances concerning other federal/state requirements been obtained? Briefly explain your response.

☐ Yes ☐ No ☑ None required or applicable

Explanation:

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	

SECTION 3. INFORMATION ON EFFLUENT DISCHARGES (40 CFR 122.21(j)(3) to (5))

Description of Outfalls

3.1 Provide the following information for each outfall. (Attach additional sheets if you have more than three outfalls.)

	Outfall Number 001	Outfall Number 002	Outfall Number _____
State	Maryland	Maryland	
County	Baltimore City	Baltimore City	
City or town	Baltimore	Baltimore	
Distance from shore	1,158 ft.	ft.	ft.
Depth below surface	0.71 ft.	ft.	ft.
Average daily flow rate	CY'20 = 118.2 mgd	CY'20 = 24.1 mgd	mgd
Latitude	39° 17′ 58.8″ N	39° 17′ 58.8″ N	° ′ ″
Longitude	76° 29′ 39.9″ W	76° 29′ 39.9″ W	° ′ ″

Seasonal or Periodic Discharge Data

3.2 Do any of the outfalls described under Item 3.1 have seasonal or periodic discharges?

☐ Yes ☑ No ➔ SKIP to Item 3.4.

3.3 If so, provide the following information for each applicable outfall.

	Outfall Number _____	Outfall Number _____	Outfall Number _____
Number of times per year discharge occurs			
Average duration of each discharge (specify units)			
Average flow of each discharge	mgd	mgd	mgd
Months in which discharge occurs			

Diffuser Type

3.4 Are any of the outfalls listed under Item 3.1 equipped with a diffuser?

☐ Yes ☑ No ➔ SKIP to Item 3.6.

3.5 Briefly describe the diffuser type at each applicable outfall.

Outfall Number _____	Outfall Number _____	Outfall Number _____

Waters of the U.S.

3.6 Does the treatment works discharge or plan to discharge wastewater to waters of the United States from one or more discharge points?

☑ Yes ☐ No ➔ SKIP to Section 6.

Receiving Water Description

3.7 Provide the receiving water and related information (if known) for each outfall.

	Outfall Number 001	Outfall Number 002	Outfall Number ____
Receiving water name	Back River	Back River	
Name of watershed, river, or stream system	Baltimore Harbor	Baltimore Harbor	
U.S. Soil Conservation Service 14-digit watershed code			
Name of state management/river basin			
U.S. Geological Survey 8-digit hydrologic cataloging unit code	02130901	02130901	
Critical low flow (acute)	cfs	cfs	cfs
Critical low flow (chronic)	cfs	cfs	cfs
Total hardness at critical low flow	mg/L of $CaCO_3$	mg/L of $CaCO_3$	mg/L of $CaCO_3$

Treatment Description

3.8 Provide the following information describing the treatment provided for discharges from each outfall.

	Outfall Number 001	Outfall Number 002	Outfall Number ____
Highest Level of Treatment (check all that apply per outfall)	☑ Primary ☑ Equivalent to secondary ☑ Secondary ☑ Advanced ☑ Other (specify) ENR	☑ Primary ☑ Equivalent to secondary ☑ Secondary ☑ Advanced ☑ Other (specify) ENR	☐ Primary ☐ Equivalent to secondary ☐ Secondary ☐ Advanced ☐ Other (specify)
Design Removal Rates by Outfall			
BOD_5 or $CBOD_5$	95.6 %	95.6 %	%
TSS	95.4 %	95.4 %	%
Phosphorus	☐ Not applicable 96.0 %	☐ Not applicable 96.0 %	☐ Not applicable %
Nitrogen	☐ Not applicable 71.6 %	☐ Not applicable 71.6 %	☐ Not applicable %
Other (specify) no dechlorination for outfall 002(sodium bifulfite)	☐ Not applicable %	☐ Not applicable %	☐ Not applicable %

Treatment Description Continued

3.9 Describe the type of disinfection used for the effluent from each outfall in the table below. If disinfection varies by season, describe below.

Bleach is used to disinfect, but sodium bisulfite is used to dechlorinated the chlorine in the bleach that is discharged.

	Outfall Number 001	Outfall Number 002	Outfall Number ____
Disinfection type	Bleach	Bleach	
Seasons used	all	all	
Dechlorination used?	☐ Not applicable ☑ Yes ☐ No	☐ Not applicable ☐ Yes ☑ No	☐ Not applicable ☐ Yes ☐ No

Effluent Testing Data

3.10 Have you completed monitoring for all Table A parameters and attached the results to the application package?

☑ Yes ☐ No

3.11 Have you conducted any WET tests during the 4.5 years prior to the date of the application on any of the facility's discharges or on any receiving water near the discharge points?

☑ Yes ☐ No ➔ SKIP to Item 3.13.

3.12 Indicate the number of acute and chronic WET tests conducted since the last permit reissuance of the facility's discharges by outfall number or of the receiving water near the discharge points.

	Outfall Number 001		Outfall Number 002		Outfall Number ____	
Permit date effective 5/1/18	Acute	Chronic	Acute	Chronic	Acute	Chronic
Number of tests of discharge water	14	14	0	0		
Number of tests of receiving water						

3.13 Does the treatment works have a design flow greater than or equal to 0.1 mgd?

☑ Yes ☐ No ➔ SKIP to Item 3.16.

3.14 Does the POTW use chlorine for disinfection, use chlorine elsewhere in the treatment process, or otherwise have reasonable potential to discharge chlorine in its effluent?

☑ Yes ➔ Complete Table B, including chlorine. ☐ No ➔ Complete Table B, omitting chlorine.

3.15 Have you completed monitoring for all applicable Table B pollutants and attached the results to this application package?

☑ Yes ☐ No

3.16 Does one or more of the following conditions apply?

- The facility has a design flow greater than or equal to 1 mgd.
- The POTW has an approved pretreatment program or is required to develop such a program.
- The NPDES permitting authority has informed the POTW that it must sample for the parameters in Table C, must sample other additional parameters (Table D), or submit the results of WET tests for acute or chronic toxicity for each of its discharge outfalls (Table E).

☑ Yes ➔ Complete Tables C, D, and E as applicable. ☐ No ➔ SKIP to Section 4.

3.17 Have you completed monitoring for all applicable Table C pollutants and attached the results to this application package?

☑ Yes ☐ No

3.18 Have you completed monitoring for all applicable Table D pollutants required by your NPDES permitting authority and attached the results to this application package?

☑ Yes ☐ No additional sampling required by NPDES permitting authority.

Effluent Testing Data Continued

3.19	Has the POTW conducted either (1) minimum of four quarterly WET tests for one year preceding this permit application or (2) at least four annual WET tests in the past 4.5 years? ☑ Yes ☐ No ➔ Complete tests and Table E and SKIP to Item 3.26.
3.20	Have you previously submitted the results of the above tests to your NPDES permitting authority? ☑ Yes ☐ No ➔ Provide results in Table E and SKIP to Item 3.26.
3.21	Indicate the dates the data were submitted to your NPDES permitting authority and provide a summary of the results.

Date(s) Submitted (MM/DD/YYYY)	Summary of Results
	02-23-2020 (Q1'20) passed > 06-01-2020 (Q2'20) failed, reran > 06-21-2020 (Q2'20) rerun, passed > 08-30-2020 (Q3'20) passed > 11-29-2020 (Q4'20) passed > 02-21-2021 (Q1'21) failed portion > 05-23-2021 (Q2'21) failed, reran in July >

3.22	Regardless of how you provided your WET testing data to the NPDES permitting authority, did any of the tests result in toxicity? ☑ Yes ☐ No ➔ SKIP to Item 3.26.
3.23	Describe the cause(s) of the toxicity: Possibility due to contamination of sampler hose. We replaced the hose and reran the test and passed. We have not experienced two failures in a row.
3.24	Has the treatment works conducted a toxicity reduction evaluation? ☐ Yes ☑ No ➔ SKIP to Item 3.26.
3.25	Provide details of any toxicity reduction evaluations conducted.
3.26	Have you completed Table E for all applicable outfalls and attached the results to the application package? ☐ Yes ☑ Not applicable because previously submitted information to the NPDES permitting authority.

SECTION 4. INDUSTRIAL DISCHARGES AND HAZARDOUS WASTES (40 CFR 122.21(j)(6) and (7))

Industrial Discharges and Hazardous Wastes

4.1	Does the POTW receive discharges from SIUs or NSCIUs? ☑ Yes ☐ No ➔ SKIP to Item 4.7.
4.2	Indicate the number of SIUs and NSCIUs that discharge to the POTW.

Number of SIUs	Number of NSCIUs
30	17

4.3	Does the POTW have an approved pretreatment program? ☑ Yes ☐ No
4.4	Have you submitted either of the following to the NPDES permitting authority that contains information substantially identical to that required in Table F: (1) a pretreatment program annual report submitted within one year of the application or (2) a pretreatment program? ☑ Yes ☐ No ➔ SKIP to Item 4.6.
4.5	Identify the title and date of the annual report or pretreatment program referenced in Item 4.4. SKIP to Item 4.7. Baltimore City and Baltimore County maintain separate pretreatment programs (reporting is separate).
4.6	Have you completed and attached Table F to this application package? ☑ Yes ☐ No

Industrial Discharges and Hazardous Wastes Continued

4.7 Does the POTW receive, or has it been notified that it will receive, by truck, rail, or dedicated pipe, any wastes that are regulated as RCRA hazardous wastes pursuant to 40 CFR 261?

☐ Yes ☑ No ➔ SKIP to Item 4.9.

4.8 If yes, provide the following information:

Hazardous Waste Number	Waste Transport Method (check all that apply)	Annual Amount of Waste Received	Units
	☐ Truck ☐ Rail ☐ Dedicated pipe ☐ Other (specify) _____		
	☐ Truck ☐ Rail ☐ Dedicated pipe ☐ Other (specify) _____		
	☐ Truck ☐ Rail ☐ Dedicated pipe ☐ Other (specify) _____		

4.9 Does the POTW receive, or has it been notified that it will receive, wastewaters that originate from remedial activities, including those undertaken pursuant to CERCLA and Sections 3004(7) or 3008(h) of RCRA?

☐ Yes ☑ No ➔ SKIP to Section 5.

4.10 Does the POTW receive (or expect to receive) less than 15 kilograms per month of non-acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e)?

☐ Yes ➔ SKIP to Section 5. ☐ No

4.11 Have you reported the following information in an attachment to this application: identification and description of the site(s) or facility(ies) at which the wastewater originates; the identities of the wastewater's hazardous constituents; and the extent of treatment, if any, the wastewater receives or will receive before entering the POTW?

☐ Yes ☐ No

SECTION 5. COMBINED SEWER OVERFLOWS (40 CFR 122.21(j)(8))

CSO Map and Diagram

5.1 Does the treatment works have a combined sewer system?

☐ Yes ☑ No ➔SKIP to Section 6.

5.2 Have you attached a CSO system map to this application? (See instructions for map requirements.)

☐ Yes ☐ No

5.3 Have you attached a CSO system diagram to this application? (See instructions for diagram requirements.)

☐ Yes ☐ No

CSO Outfall Description

5.4 For each CSO outfall, provide the following information. (Attach additional sheets as necessary.)

	CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
City or town			
State and ZIP code			
County			
Latitude	° ′ ″	° ′ ″	° ′ ″
Longitude	° ′ ″	° ′ ″	° ′ ″
Distance from shore	ft.	ft.	ft.
Depth below surface	ft.	ft.	ft.

CSO Monitoring

5.5 Did the POTW monitor any of the following items in the past year for its CSO outfalls?

	CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
Rainfall	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
CSO flow volume	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
CSO pollutant concentrations	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Receiving water quality	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
CSO frequency	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Number of storm events	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

CSO Events in Past Year

5.6 Provide the following information for each of your CSO outfalls.

	CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
Number of CSO events in the past year	events	events	events
Average duration per event	hours ☐ Actual or ☐ Estimated	hours ☐ Actual or ☐ Estimated	hours ☐ Actual or ☐ Estimated
Average volume per event	million gallons ☐ Actual or ☐ Estimated	million gallons ☐ Actual or ☐ Estimated	million gallons ☐ Actual or ☐ Estimated
Minimum rainfall causing a CSO event in last year	inches of rainfall ☐ Actual or ☐ Estimated	inches of rainfall ☐ Actual or ☐ Estimated	inches of rainfall ☐ Actual or ☐ Estimated

CSO Receiving Waters

5.7 Provide the information in the table below for each of your CSO outfalls.

	CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
Receiving water name			
Name of watershed/ stream system			
U.S. Soil Conservation Service 14-digit watershed code (if known)	☐ Unknown	☐ Unknown	☐ Unknown
Name of state management/river basin			
U.S. Geological Survey 8-Digit Hydrologic Unit Code (if known)	☐ Unknown	☐ Unknown	☐ Unknown
Description of known water quality impacts on receiving stream by CSO (see instructions for examples)			

SECTION 6. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

6.1 In Column 1 below, mark the sections of Form 2A that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.

Column 1	Column 2	
☑ Section 1: Basic Application Information for All Applicants	☐ w/ variance request(s)	☐ w/ additional attachments
☑ Section 2: Additional Information	☑ w/ topographic map ☐ w/ additional attachments	☑ w/ process flow diagram
☑ Section 3: Information on Effluent Discharges	☑ w/ Table A ☑ w/ Table B ☑ w/ Table C	☑ w/ Table D ☐ w/ Table E ☐ w/ additional attachments
☑ Section 4: Industrial Discharges and Hazardous Wastes	☐ w/ SIU and NSCIU attachments ☐ w/ additional attachments	☑ w/ Table F
☐ Section 5: Combined Sewer Overflows	☐ w/ CSO map ☐ w/ CSO system diagram	☐ w/ additional attachments
☑ Section 6: Checklist and Certification Statement	☐ w/ attachments	

6.2 **Certification Statement**

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

Name (print or type first and last name)	Official title
Elizabeth R. Jacobs	Plant Manager
Signature: Elizabeth R Jacobs	Date signed: 11/4/2021

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	001 (Values from CY'20)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. EFFLUENT PARAMETERS FOR ALL POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Biochemical oxygen demand ☑ BOD_5 or ☐ $CBOD_5$ (report one)	31.4	mg/l	2.6	mg/l	366	S5210B-11	2.0 ☑ ML ☐ MDL
~~Fecal coliform~~ Escherichia coli	2420	MPN/100ml	17	MPN/100ml	366	S9223B-04	1 mpn/100 ☑ ML ☐ MDL
Design flow rate	237	MGD	118.2	MGD	366		
pH (minimum)	6.6	SU					
pH (maximum)	8.0	SU					
Temperature (winter)							
Temperature (summer)							
Total suspended solids (TSS)	85	mg/l	<5.0	mg/l	366	S2540D-11	5 ☑ ML ☐ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002 (Values from CY'20)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. EFFLUENT PARAMETERS FOR ALL POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Biochemical oxygen demand ☑ BOD_5 or ☐ $CBOD_5$ (report one)	28.8	mg/l	<2.0	mg/l	359	S5210B-11	2.0 ☑ ML ☐ MDL
~~Fecal coliform~~ Escherichia coli	2420	MPN/100ml	17	MPN/100ml	358	S9223B-04	1 mpn/100 ☑ ML ☐ MDL
Design flow rate	37.5	MGD	24.1	MGD	361		
pH (minimum)	6.7	SU					
pH (maximum)	8.3	SU					
Temperature (winter)							
Temperature (summer)							
Total suspended solids (TSS)	54	mg/l	<5.0	mg/l	359	S2540D-11	5 ☑ ML ☐ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

This page intentionally left blank.

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	001 (Values from CY'20)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. EFFLUENT PARAMETERS FOR ALL POTWS WITH A FLOW EQUAL TO OR GREATER THAN 0.1 MGD

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Ammonia (as N)	3.63	mg/l	0.25	mg/l	366	ASTM D6919-09	0.100 ☑ ML ☐ MDL
Chlorine (total residual, TRC)[2]	0.6	mg/l	.37	mg/l	1098	EPA 330.5	0.10 ☑ ML ☐ MDL
Dissolved oxygen	12.4	mg/l	9.0	mg/l	1098	SM 4500-G	0.03 ☐ ML ☑ MDL
Nitrate/nitrite	6.6	mg/l	1.3	mg/l	366	EPA 353.2	0.20 ☑ ML ☐ MDL
Kjeldahl nitrogen	7.2	mg/l	1.7	mg/l	366	S4500NH3G-11	1.0 ☑ ML ☐ MDL
Oil and grease							☐ ML ☐ MDL
Phosphorus	2.5	mg/l	0.10	mg/l	366	EPA 365.1	0.10 ☑ ML ☐ MDL
Total dissolved solids	85	mg/l	<5.0	mg/l	366	S2540D-11	5 ☑ ML ☐ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

[2] Facilities that do not use chlorine for disinfection, do not use chlorine elsewhere in the treatment process, and have no reasonable potential to discharge chlorine in their effluent are not required to report data for chlorine.

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002 (Values from CY'20)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. EFFLUENT PARAMETERS FOR ALL POTWS WITH A FLOW EQUAL TO OR GREATER THAN 0.1 MGD

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Ammonia (as N)	3.84	mg/l	0.24	mg/l	359	ASTM D6919-09	0.100 ☑ ML ☐ MDL
Chlorine (total residual, TRC)[2]	0.6	mg/l	.37	mg/l	1098	EPA 330.5	0.10 ☑ ML ☐ MDL
Dissolved oxygen	12.0	mg/l	9.0	mg/l	1075	SM 4500-G	0.03 ☐ ML ☑ MDL
Nitrate/nitrite	6.0	mg/l	1.3	mg/l	359	EPA 353.2	0.20 ☑ ML ☐ MDL
Kjeldahl nitrogen	8.2	mg/l	1.7	mg/l	359	S4500NH3G-11	1.0 ☑ ML ☐ MDL
Oil and grease							☐ ML ☐ MDL
Phosphorus	1.5	mg/l	0.10	mg/l	359	EPA 365.1	0.10 ☑ ML ☐ MDL
Total dissolved solids	54	mg/l	<5.0	mg/l	359	S2540D-11	5 ☑ ML ☐ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

[2] Facilities that do not use chlorine for disinfection, do not use chlorine elsewhere in the treatment process, and have no reasonable potential to discharge chlorine in their effluent are not required to report data for chlorine.

This page intentionally left blank.

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	001 (see note to left)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Metals, Cyanide, and Total Phenols							
Hardness (as $CaCO_3$)							☐ ML ☐ MDL
Antimony, total recoverable	0.00012	mg/l	0.00075	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Arsenic, total recoverable	0.00099	mg/l	0.00062	mg/l	4	EPA 200.8	0.00050 ☐ ML ☑ MDL
Beryllium, total recoverable	nd	mg/l	nd	mg/l	4	EPA 200.8	0.00010 ☐ ML ☑ MDL
Cadmium, total recoverable	0.00016	mg/l	nd	mg/l	4	EPA 200.8	0.00016 ☐ ML ☑ MDL
Chromium, total recoverable	0.00190	mg/l	0.00089	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Copper, total recoverable	0.02200	mg/l	0.00948	mg/l	4	EPA 200.8	0.00083 ☐ ML ☑ MDL
Lead, total recoverable	0.00330	mg/l	0.00125	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Mercury, total recoverable	nd	mg/l	nd	mg/l	4	EPA 245.1	0.00016 ☐ ML ☑ MDL
Nickel, total recoverable	0.00550	mg/l	0.00473	mg/l	4	EPA 200.8	0.00083 ☐ ML ☑ MDL
Selenium, total recoverable	0.00100	mg/l	0.00089	mg/l	4	EPA 200.8	0.00066 ☐ ML ☑ MDL
Silver, total recoverable	nd	mg/l	nd	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Thallium, total recoverable	0.00019	mg/l	0.00005	mg/l	4	EPA 200.8	0.00016 ☐ ML ☑ MDL
Zinc, total recoverable	0.04900	mg/l	0.02650	mg/l	4	EPA 200.8	0.00083 ☐ ML ☑ MDL
Cyanide	11.8	ug/l	<5.0	ug/l	36	KELADA-01	5.0 ☐ ML ☑ MDL
Total phenolic compounds							☐ ML ☐ MDL
Volatile Organic Compounds							
Acrolein	nd	ug/l	nd	ug/l	4	EPA 624.1	1.3 ☐ ML ☑ MDL
Acrylonitrile	nd	ug/l	nd	ug/l	4	EPA 624.1	2.0 ☐ ML ☑ MDL
Benzene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.12 ☐ ML ☑ MDL
Bromoform	nd	ug/l	nd	ug/l	4	EPA 624.1	0.37 ☐ ML ☑ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	001 (see note to left)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Carbon tetrachloride	nd	ug/l	nd	ug/l	4	EPA 624.1	0.23 ☐ ML ☑ MDL
Chlorobenzene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.25 ☐ ML ☑ MDL
Chlorodibromomethane	3.00	ug/l	0.84	ug/l	4	EPA 624.1	0.25 ☑ ML ☑ MDL
Chloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.47 ☐ ML ☑ MDL
2-chloroethylvinyl ether	nd	ug/l	nd	ug/l	4	EPA 624.1	3.1 ☐ ML ☑ MDL
Chloroform	2.70	ug/l	1.75	ug/l	4	EPA 624.1	0.15 ☐ ML ☑ MDL
Dichlorobromomethane							☐ ML ☐ MDL
1,1-dichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.050 ☐ ML ☑ MDL
1,2-dichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.12 ☐ ML ☑ MDL
trans-1,2-dichloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.080 ☐ ML ☑ MDL
1,1-dichloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.13 ☐ ML ☑ MDL
1,2-dichloropropane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.26 ☐ ML ☑ MDL
1,3-dichloropropylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.21 ☐ ML ☑ MDL
Ethylbenzene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.20 ☐ ML ☑ MDL
Methyl bromide							☐ ML ☐ MDL
Methyl chloride							☐ ML ☐ MDL
Methylene chloride	nd	ug/l	nd	ug/l	4	EPA 624.1	0.14 ☐ ML ☑ MDL
1,1,2,2-tetrachloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.38 ☐ ML ☑ MDL
Tetrachloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.27 ☐ ML ☑ MDL
Toluene	0.36	ug/l	0.15	ug/l	4	EPA 624.1	0.24 ☐ ML ☑ MDL
1,1,1-trichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.12 ☐ ML ☑ MDL
1,1,2-trichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.13 ☐ ML ☑ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	001 (see note to left)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Trichloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.29 ☐ ML ☑ MDL
Vinyl chloride	nd	ug/l	nd	ug/l	4	EPA 624.1	0.33 ☐ ML ☑ MDL
Acid-Extractable Compounds							
p-chloro-m-cresol							☐ ML ☐ MDL
2-chlorophenol							☐ ML ☐ MDL
2,4-dichlorophenol							☐ ML ☐ MDL
2,4-dimethylphenol							☐ ML ☐ MDL
4,6-dinitro-o-cresol							☐ ML ☐ MDL
2,4-dinitrophenol							☐ ML ☐ MDL
2-nitrophenol							☐ ML ☐ MDL
4-nitrophenol							☐ ML ☐ MDL
Pentachlorophenol							☐ ML ☐ MDL
Phenol							☐ ML ☐ MDL
2,4,6-trichlorophenol							☐ ML ☐ MDL
Base-Neutral Compounds							
Acenaphthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Acenaphthylene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.39 ☐ ML ☑ MDL
Anthracene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Benzidine	nd	ug/l	nd	ug/l	4	EPA 625.1	2.5 ☐ ML ☑ MDL
Benzo(a)anthracene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.41 ☐ ML ☑ MDL
Benzo(a)pyrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.36 ☐ ML ☑ MDL
3,4-benzofluoranthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	001 (see note to left)

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Benzo(ghi)perylene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☑ MDL
Benzo(k)fluoranthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.39 ☐ ML ☑ MDL
Bis (2-chloroethoxy) methane	nd	ug/l	nd	ug/l	4	EPA 625.1	0.44 ☐ ML ☑ MDL
Bis (2-chloroethyl) ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.38 ☐ ML ☑ MDL
Bis (2-chloroisopropyl) ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.44 ☐ ML ☑ MDL
Bis (2-ethylhexyl) phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.81 ☐ ML ☑ MDL
4-bromophenyl phenyl ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.45 ☐ ML ☑ MDL
Butyl benzyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.59 ☐ ML ☑ MDL
2-chloronaphthalene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
4-chlorophenyl phenyl ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Chrysene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☑ MDL
di-n-butyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.57 ☐ ML ☑ MDL
di-n-octyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.88 ☐ ML ☑ MDL
Dibenzo(a,h)anthracene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☑ MDL
1,2-dichlorobenzene							☐ ML ☐ MDL
1,3-dichlorobenzene							☐ ML ☐ MDL
1,4-dichlorobenzene							☐ ML ☐ MDL
3,3-dichlorobenzidine	nd	ug/l	nd	ug/l	4	EPA 625.1	1.1 ☐ ML ☑ MDL
Diethyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.56 ☐ ML ☑ MDL
Dimethyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☑ MDL
2,4-dinitrotoluene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.45 ☐ ML ☑ MDL
2,6-dinitrotoluene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.41 ☐ ML ☑ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	001 (see note to left)

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
1,2-diphenylhydrazine	nd	ug/l	nd	ug/l	4	EPA 625.1	0.35 ☐ ML ☑ MDL
Fluoranthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☑ MDL
Fluorene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.38 ☐ ML ☑ MDL
Hexachlorobenzene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☑ MDL
Hexachlorobutadiene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.49 ☐ ML ☑ MDL
Hexachlorocyclo-pentadiene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.74 ☐ ML ☑ MDL
Hexachloroethane	nd	ug/l	nd	ug/l	4	EPA 625.1	0.37 ☐ ML ☑ MDL
Indeno(1,2,3-cd)pyrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Isophorone	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☑ MDL
Naphthalene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Nitrobenzene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.53 ☑ ML ☑ MDL
N-nitrosodi-n-propylamine	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☑ ML ☑ MDL
N-nitrosodimethylamine	nd	ug/l	nd	ug/l	4	EPA 625.1	1.1 ☐ ML ☑ MDL
N-nitrosodiphenylamine	nd	ug/l	nd	ug/l	4	EPA 625.1	0.49 ☐ ML ☑ MDL
Phenanthrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.39 ☐ ML ☑ MDL
Pyrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☑ MDL
1,2,4-trichlorobenzene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☑ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002 (see note to left)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Metals, Cyanide, and Total Phenols							
Hardness (as $CaCO_3$)							☐ ML ☐ MDL
Antimony, total recoverable	0.0013	mg/l	0.00071	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Arsenic, total recoverable	0.00068	mg/l	0.00046	mg/l	4	EPA 200.8	0.00050 ☐ ML ☑ MDL
Beryllium, total recoverable	nd	mg/l	nd	mg/l	4	EPA 200.8	0.00010 ☐ ML ☑ MDL
Cadmium, total recoverable	0.00017	mg/l	0.00004	mg/l	4	EPA 200.8	0.00016 ☐ ML ☑ MDL
Chromium, total recoverable	0.00180	mg/l	0.00069	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Copper, total recoverable	0.02200	mg/l	0.00858	mg/l	4	EPA 200.8	0.00083 ☐ ML ☑ MDL
Lead, total recoverable	0.00320	mg/l	0.00110	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Mercury, total recoverable	nd	mg/l	nd	mg/l	4	EPA 245.1	0.00016 ☐ ML ☑ MDL
Nickel, total recoverable	0.00560	mg/l	0.00458	mg/l	4	EPA 200.8	0.00083 ☐ ML ☑ MDL
Selenium, total recoverable	0.00088	mg/l	0.00063	mg/l	4	EPA 200.8	0.00066 ☐ ML ☑ MDL
Silver, total recoverable	nd	mg/l	nd	mg/l	4	EPA 200.8	0.00033 ☐ ML ☑ MDL
Thallium, total recoverable	nd	mg/l	nd	mg/l	4	EPA 200.8	0.00016 ☐ ML ☑ MDL
Zinc, total recoverable	0.05100	mg/l	0.02475	mg/l	4	EPA 200.8	0.00083 ☐ ML ☑ MDL
Cyanide	12.5	ug/l	<5.0	ug/l	68	KELADA-01	5.0 ☐ ML ☑ MDL
Total phenolic compounds							☐ ML ☐ MDL
Volatile Organic Compounds							
Acrolein	nd	ug/l	nd	ug/l	4	EPA 624.1	1.3 ☐ ML ☑ MDL
Acrylonitrile	nd	ug/l	nd	ug/l	4	EPA 624.1	2.0 ☐ ML ☑ MDL
Benzene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.12 ☐ ML ☑ MDL
Bromoform	nd	ug/l	nd	ug/l	4	EPA 624.1	0.37 ☐ ML ☑ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002 (see note to left)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Carbon tetrachloride	nd	ug/l	nd	ug/l	4	EPA 624.1	0.23 ☐ ML ☑ MDL
Chlorobenzene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.25 ☐ ML ☑ MDL
Chlorodibromomethane	1.3	ug/l	0.33	ug/l	4	EPA 624.1	0.25 ☑ ML ☑ MDL
Chloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.47 ☐ ML ☑ MDL
2-chloroethylvinyl ether	nd	ug/l	nd	ug/l	4	EPA 624.1	3.1 ☐ ML ☑ MDL
Chloroform	3.6	ug/l	2.56	ug/l	4	EPA 624.1	0.15 ☐ ML ☑ MDL
Dichlorobromomethane							☐ ML ☐ MDL
1,1-dichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.050 ☐ ML ☑ MDL
1,2-dichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.12 ☐ ML ☑ MDL
trans-1,2-dichloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.080 ☐ ML ☑ MDL
1,1-dichloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.13 ☐ ML ☑ MDL
1,2-dichloropropane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.26 ☐ ML ☑ MDL
1,3-dichloropropylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.21 ☐ ML ☑ MDL
Ethylbenzene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.20 ☐ ML ☑ MDL
Methyl bromide							☐ ML ☐ MDL
Methyl chloride							☐ ML ☐ MDL
Methylene chloride	nd	ug/l	nd	ug/l	4	EPA 624.1	0.14 ☐ ML ☑ MDL
1,1,2,2-tetrachloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.38 ☐ ML ☑ MDL
Tetrachloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.27 ☐ ML ☑ MDL
Toluene	1.30	ug/l	0.39	ug/l	4	EPA 624.1	0.24 ☐ ML ☑ MDL
1,1,1-trichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.12 ☐ ML ☑ MDL
1,1,2-trichloroethane	nd	ug/l	nd	ug/l	4	EPA 624.1	0.13 ☐ ML ☑ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002 (see note to left)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Trichloroethylene	nd	ug/l	nd	ug/l	4	EPA 624.1	0.29 ☐ ML ☑ MDL
Vinyl chloride	nd	ug/l	nd	ug/l	4	EPA 624.1	0.33 ☐ ML ☑ MDL
Acid-Extractable Compounds							
p-chloro-m-cresol							☐ ML ☐ MDL
2-chlorophenol							☐ ML ☐ MDL
2,4-dichlorophenol							☐ ML ☐ MDL
2,4-dimethylphenol							☐ ML ☐ MDL
4,6-dinitro-o-cresol							☐ ML ☐ MDL
2,4-dinitrophenol							☐ ML ☐ MDL
2-nitrophenol							☐ ML ☐ MDL
4-nitrophenol							☐ ML ☐ MDL
Pentachlorophenol							☐ ML ☐ MDL
Phenol							☐ ML ☐ MDL
2,4,6-trichlorophenol							☐ ML ☐ MDL
Base-Neutral Compounds							
Acenaphthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Acenaphthylene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.39 ☐ ML ☑ MDL
Anthracene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Benzidine	nd	ug/l	nd	ug/l	4	EPA 625.1	2.5 ☐ ML ☑ MDL
Benzo(a)anthracene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.41 ☐ ML ☑ MDL
Benzo(a)pyrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.36 ☐ ML ☑ MDL
3,4-benzofluoranthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002 (see note to left)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Benzo(ghi)perylene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☑ MDL
Benzo(k)fluoranthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.39 ☐ ML ☑ MDL
Bis (2-chloroethoxy) methane	nd	ug/l	nd	ug/l	4	EPA 625.1	0.44 ☐ ML ☑ MDL
Bis (2-chloroethyl) ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.38 ☐ ML ☑ MDL
Bis (2-chloroisopropyl) ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.44 ☐ ML ☑ MDL
Bis (2-ethylhexyl) phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.81 ☐ ML ☑ MDL
4-bromophenyl phenyl ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.45 ☐ ML ☑ MDL
Butyl benzyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.59 ☐ ML ☑ MDL
2-chloronaphthalene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
4-chlorophenyl phenyl ether	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☑ MDL
Chrysene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☐ MDL
di-n-butyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.57 ☐ ML ☑ MDL
di-n-octyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.88 ☐ ML ☑ MDL
Dibenzo(a,h)anthracene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☑ MDL
1,2-dichlorobenzene							☐ ML ☐ MDL
1,3-dichlorobenzene							☐ ML ☐ MDL
1,4-dichlorobenzene							☐ ML ☐ MDL
3,3-dichlorobenzidine	nd	ug/l	nd	ug/l	4	EPA 625.1	1.1 ☐ ML ☑ MDL
Diethyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.56 ☐ ML ☑ MDL
Dimethyl phthalate	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☑ MDL
2,4-dinitrotoluene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.45 ☐ ML ☑ MDL
2,6-dinitrotoluene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.41 ☐ ML ☑ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002 (see note to left)

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
1,2-diphenylhydrazine	nd	ug/l	nd	ug/l	4	EPA 625.1	0.35 ☐ ML ☐ MDL
Fluoranthene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☐ MDL
Fluorene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.38 ☐ ML ☐ MDL
Hexachlorobenzene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☐ MDL
Hexachlorobutadiene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.49 ☐ ML ☐ MDL
Hexachlorocyclo-pentadiene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.74 ☐ ML ☐ MDL
Hexachloroethane	nd	ug/l	nd	ug/l	4	EPA 625.1	0.37 ☐ ML ☐ MDL
Indeno(1,2,3-cd)pyrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☐ MDL
Isophorone	nd	ug/l	nd	ug/l	4	EPA 625.1	0.43 ☐ ML ☐ MDL
Naphthalene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.40 ☐ ML ☐ MDL
Nitrobenzene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.53 ☐ ML ☐ MDL
N-nitrosodi-n-propylamine	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☐ MDL
N-nitrosodimethylamine	nd	ug/l	nd	ug/l	4	EPA 625.1	1.1 ☐ ML ☐ MDL
N-nitrosodiphenylamine	nd	ug/l	nd	ug/l	4	EPA 625.1	0.49 ☐ ML ☐ MDL
Phenanthrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.39 ☐ ML ☐ MDL
Pyrene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☐ MDL
1,2,4-trichlorobenzene	nd	ug/l	nd	ug/l	4	EPA 625.1	0.42 ☐ ML ☐ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

This page intentionally left blank.

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	001 (Values from CY'20)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. ADDITIONAL POLLUTANTS AS REQUIRED BY NPDES PERMITTING AUTHORITY

Pollutant (list)	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
☐ No additional sampling is required by NPDES permitting authority.							
tPCB Cogeners	1.31	ng/l	.98	ng/l	3	1668A-TMD	varies ☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
MDD990686040	MD0021555	Back River Wastewater Treatment Plant	002 (Values from CY'20)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. ADDITIONAL POLLUTANTS AS REQUIRED BY NPDES PERMITTING AUTHORITY

Pollutant (list)	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
☐ No additional sampling is required by NPDES permitting authority.							
tPCB Cogeners	1.48	ng/l	0.93	ng/l	3	1668A-TMD	varies ☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

This page intentionally left blank.

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0021555	Back River WWTP (from Baltimore City)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU Yes	SIU Yes	SIU Yes
Name of SIU	Clean Harbors of Baltimore, Inc.	Clendenin Brothers, Inc.	Arco Metals, Inc.
Mailing address (street or P.O. box)	1910 Russell Street	4309 Erdman Avenue	3546 Old York Road
City, state, and ZIP code	Baltimore, Maryland 21230	Baltimore, Maryland 21213	Baltimore, MD 21218
Description of all industrial processes that affect or contribute to the discharge.	Hazardous waste storage and treatment	The manufacturing of nails and rivets "metal fasteners)	The fabrication of sheet metal and machining parts for local defense industry. The manufacturing processes include trivalent and hexavalent chromate conversion, and passivation.
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Hazardous waste received from various industries.	Stainless steel wire, aluminum wire, brass wire, copper wire, resulting in dissolved metals in the wastewater.	Heavy Metals, such as chromium, copper and zinc.
Indicate the average daily volume of wastewater discharged by the SIU.	88200 gpd	41000 gpd	22 gpd
How much of the average daily volume is attributable to process flow?	87000 gpd	40000 gpd	22 gpd
How much of the average daily volume is attributable to non-process flow?	1200 gpd	1000 gpd	200 gpd
Is the SIU subject to local limits?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☐ No

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0021555	Back River WWTP (from Baltimore City)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ____	SIU ____	SIU ____
Under what categories and subcategories is the SIU subject?	Pretreatment standards for the Centralized Waste Treatment category (40 CFR 437-46b)	Pretreatment standards for the existing source metal finishing category (40 CFR 433)	
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☐ No
If yes, describe.			

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0021555	Back River WWTP (from Baltimore City)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU Yes	SIU Yes	SIU Yes
Name of SIU	Eisai, Inc.	Emergent BioSolutions, Inc.	Emergent BioSolutions, Inc. Camden Campı
Mailing address (street or P.O. box)	6611 Tributary Street	5901 East Lombard Street	1111 South Paca Street
City, state, and ZIP code	Baltimore, Maryland 21224	Baltimore, Maryland 21224	Baltimore, Maryland 21230
Description of all industrial processes that affect or contribute to the discharge.	Cleaning plant and equiptment, reverse osmosis. The manufacture of the pharmaceutical product Gliadel Wafers.	Microbial fermentation, cell culture processing, protein and water purification, passivation of stainless steal, reverse osmosis, plant and equipment washdown.	Cleaning of plant and equipment, reverse osmosis.
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Various Organic Compounds. Manufacturer of the pharmaceutical product - Gliadel Wafer	Various Organic Compounds. The development and production of vacines, monoclonal antibodies and drugs for a variety of diseases	Various Organic Compounds Formulate and package pharmaceuticals for various pharmaceutical manufacturing companies
Indicate the average daily volume of wastewater discharged by the SIU.	5200 gpd	56000 gpd	52200 gpd
How much of the average daily volume is attributable to process flow?	3400 gpd	52100 gpd	43400 gpd
How much of the average daily volume is attributable to non-process flow?	1800 gpd	3900 gpd	8800 gpd
Is the SIU subject to local limits?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0021555	Back River WWTP (from Baltimore City)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU Yes	SIU Yes	SIU Yes
Under what categories and subcategories is the SIU subject?	Pretreatment standards for the New Source Pharmaceutical Manufacturing category (40 CFR 439 Subpart D-Mixing, Coumpounding and Formulating).	Pretreatment Standards for the New Source Pharmaceutical Manufacturing category, Fermentation Subpart (40 CFR 439.17.	Pretreatment Standards for the New Sources Pharmaceutical category (40 CFR 439 Subpart D-Mixing, Compounding and Formulating)
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No
If yes, describe.			

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
MDD990686040	MD0021555	Back River WWTP (from Baltimore City)	

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU Yes	SIU Yes	SIU Yes
Name of SIU	Ace Uniform Services, Inc.	Chesapeake Uniform Rental, Inc.	Cintas Corporation
Mailing address (street or P.O. box)	1800 Parkman Avenue	3710 East Baltimore Street	6300 Seaforth Street
City, state, and ZIP code	Baltimore, Maryland 21230	Baltimore, Maryland 21230	Baltimore, Maryland 21221
Description of all industrial processes that affect or contribute to the discharge.	Industrial Laundry	Industrial Laundry	Industrial Laundry
List the principal products and raw materials that affect or contribute to the SIU's discharge.	The washing of industrial uniforms	Washing of industrial uniforms	The washing of uniforms, mats, linens, shop towels and mops.
Indicate the average daily volume of wastewater discharged by the SIU.	14000 gpd	19500 gpd	41000 gpd
How much of the average daily volume is attributable to process flow?	13500 gpd	19000 gpd	40000 gpd
How much of the average daily volume is attributable to non-process flow?	500 gpd	500 gpd	1000 gpd
Is the SIU subject to local limits?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0021555	Back River WWTP (from Baltimore City)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU Yes	SIU Yes	SIU Yes
Under what categories and subcategories is the SIU subject?	Local Limit - Pursuant to the provisions of Article 25 of the Baltimore City Code.	Local Limit - Pursuant to the provisions of Article 25 of the Baltimore City Code.	Local Limit - Pursuant to the provisions of Article 25 of the Baltimore City Code.
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☐ No
If yes, describe.			

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0021555	Back River WWTP (from Baltimore City)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU Yes	SIU Yes	SIU Yes
Name of SIU	Hospital Central Services Cooperative, Inc.	The Sherwin-Williams Company	Dietz & Watson Corporation
Mailing address (street or P.O. box)	3001 Cowan Avenue	2325 Hollins Ferry Road	3330 Henry G. Parks, Jr. Circle Drive
City, state, and ZIP code	Baltimore, Maryland 21223	Baltimore, Maryland 21230	Baltimore, Maryland 21215
Description of all industrial processes that affect or contribute to the discharge.	Industrial Laundry	The manufacturing of latex paints and alkyd resin-base paints	The processing poultry deli meats and pork chitterlings.
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Industrial Laundry	Latex paint	Chicken and pork products.
Indicate the average daily volume of wastewater discharged by the SIU.	59500 gpd	9300 gpd	149000 gpd
How much of the average daily volume is attributable to process flow?	59000 gpd	7300 gpd	150000 gpd
How much of the average daily volume is attributable to non-process flow?	500 gpd	2000 gpd	3000 gpd
Is the SIU subject to local limits?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU Yes	SIU ____	SIU Yes
Under what categories and subcategories is the SIU subject?	Local Limit - Pursuant to the provisions of Article 25 of the Baltimore City Code.	Local Limit - Pursuant to the provisions of Article 25 of the Baltimore City Code.	Local Limit - Pursuant to the provisions of Article 25 of the Baltimore City Code.
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☐ No
If yes, describe.			

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0031555	Back River WWTP (from Baltimore County)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ___	SIU ___	SIU ___
Name of SIU	A & A Global Industries	American Yeast	Becton Dickinson
Mailing address (street or P.O. box)	10711 Gilroy Rd.	8215 Beachwood Rd.	250 Schilling Circle
City, state, and ZIP code	Hunt Valley, MD 21031	Baltimore, MD 21222	Hunt Valley, MD 21030
Description of all industrial processes that affect or contribute to the discharge.	Metal finishing / powder coating	Yeast manufacturing	Petri dishes, petri dishes with agar, liquid media, lactinex pills, and crystal panels
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Metal parts, powder coating, steel, aluminum, cast pot metal, brass, and titanium	Beet molasses, Domino brown sugar, cane sugar	Liquid media, Phoenix panels
Indicate the average daily volume of wastewater discharged by the SIU.	1,854 gpd	268,499 gpd	165,357 gpd
How much of the average daily volume is attributable to process flow?	1,854 gpd	268,499 gpd	165,357 gpd
How much of the average daily volume is attributable to non-process flow?	0 gpd	0 gpd	gpd
Is the SIU subject to local limits?	☐ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☑ Yes ☐ No	☐ Yes ☑ No	☐ Yes ☑ No

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ____	SIU ____	SIU ____
Under what categories and subcategories is the SIU subject?	40 CFR 433.17 Metal Finishing		
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No
If yes, describe.			

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0021555	Back River WWTP (from Baltimore County)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ___	SIU ___	SIU ___
Name of SIU	Becton Dickinson	Becton Dickinson	Browning Ferris industries
Mailing address (street or P.O. box)	39 Loveton Circle	7 Loveton Circle	101 Norris Lane
City, state, and ZIP code	Sparks, MD 21152	Sparks, MD 21152	Baltimore, MD 21222
Description of all industrial processes that affect or contribute to the discharge.	Dyes & Stains Manufacturing & Packaging Rooms, Fillling, Mixing, Grinding, Autoclaves, and Cleaning.	Manufacturer of biological growth media.	Closed Landfill – Landfill Leachate
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Dyes and stains.	Prepared plated media.	None
Indicate the average daily volume of wastewater discharged by the SIU.	10,943 gpd	28,005 gpd	42,610 gpd
How much of the average daily volume is attributable to process flow?	10,943 gpd	21,122 gpd	42,610 gpd
How much of the average daily volume is attributable to non-process flow?	0 gpd	6,883 gpd	0 gpd
Is the SIU subject to local limits?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ____	SIU ____	SIU ____
Under what categories and subcategories is the SIU subject?			
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No
If yes, describe.			

EPA Identification Number	NPDES Permit Number	Facility Name
MDD990686040	MD0021555	Back River WWTP (from Baltimore County)

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ____	SIU ____	SIU ____
Name of SIU	Eastern Plating	EISAI, Inc.	G+G Industrial Finishing Inc.
Mailing address (street or P.O. box)	7803 Pulaski Highway	11675 Crossroads Circle	1113 Old North Point Rd., Bldg B
City, state, and ZIP code	Baltimore, MD 21237	Baltimore, MD 21220	Baltimore, MD 21222
Description of all industrial processes that affect or contribute to the discharge.	Anodized aluminum parts, black oxide coating of steel parts and chromate conversion	Manufacturing of the GLIADEL wafer	Anodizing aluminum (parts)
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Chromic acid, sulfuric acid, sodium hydroxide, nitric acid, dyes and black oxide coating	Propylene glycol, ethylene glycol	Chromic acid, sodium hydroxide, nitric acid
Indicate the average daily volume of wastewater discharged by the SIU.	7,394 gpd	1,045 gpd	93 gpd
How much of the average daily volume is attributable to process flow?	7,394 gpd	1,045 gpd	93 gpd
How much of the average daily volume is attributable to non-process flow?	0 gpd	0 gpd	0 gpd
Is the SIU subject to local limits?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Is the SIU subject to categorical standards?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ____	SIU ____	SIU ____
Under what categories and subcategories is the SIU subject?	40 CFR 433.17 – Metal finishing	40 CFR 439 – Pharmaceutical Subpart D	40 CFR 433.17 – Metal finishing
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No
If yes, describe.			

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
MDD990686040MDD990686040	MD0021555	Back River WWTP (from Baltimore County)	

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ____	SIU ____	SIU ____
Name of SIU	Honeygo Run Reclamation Center	Imerys Carbonates USA, Inc.	Maryland Plating & Servicing, Inc.
Mailing address (street or P.O. box)	10710 Philadelphia Road	10000 Beaver Dam Rd.	8243 Rosebank Ave
City, state, and ZIP code	Perry Hall, MD 21228	Cockeysville, MD 21030	Baltimore, MD 21222
Description of all industrial processes that affect or contribute to the discharge.	Construction Rubble Landfill – Landfill Leachate.	Ultra fine carbonates, chemical make-up tank, flotation tanks, slurry run-off, Production and quality analysis laboratories	Zinc phosphate coating, electroplating, anodizing, passivating, and chemical converstion
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Principal product(s): Recycled concrete, recycled asphalt, sand, soil and mulch. Raw material(s): Concrete and Asphalt removed during road repair, excavated soil, and used lumber	Principal product(s): Calcium Carbonate Raw material(s): Calcium	Machined steel, stainless steel alloys, aluminum alloys, and various chemically reactive solutions
Indicate the average daily volume of wastewater discharged by the SIU.	23,993 gpd	145,162 gpd	132 gpd
How much of the average daily volume is attributable to process flow?	23,993 gpd	145,162 gpd	132 gpd
How much of the average daily volume is attributable to non-process flow?	0 gpd	0 gpd	0 gpd
Is the SIU subject to local limits?	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☐ No
Is the SIU subject to categorical standards?	☐ Yes ☐ No	☐ Yes ☐ No	☑ Yes ☐ No

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ____	SIU ____	SIU ____
Under what categories and subcategories is the SIU subject?			40 CFR 433.17 Metal finishing
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☑ No	☐ Yes ☑ No	☐ Yes ☑ No
If yes, describe.			

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ____	SIU ____	SIU ____
Name of SIU	McCormick & Company, Inc. (Flavor Manufact	McCormick & Company, Inc., (Hunt Valley Pl	McCormick & Company, Inc. (Spice Mill)
Mailing address (street or P.O. box)	11102 McCormick Rd.	11100 McCormick Rd.	10901 Gilroy Rd.
City, state, and ZIP code	Hunt Valley, MD 21031	Hunt Valley, MD 21031	Hunt Valley, MD 21031
Description of all industrial processes that affect or contribute to the discharge.	Air scrubbers, dry blendings, spray dry blending, laboratories, cleaning, filter press	Mixing, blending, vanilla extracting, laboratories, (QA)	Wet air scrubbers, oil water separator, autoclaves, sterilizer, blending, mixing, black pepper conveying heat exchangers, black pepper blower heat exchangers
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Principal product(s): Dry blended seasonings, spray dried flavors, and liquid flavors Raw material(s): Seasonings and flavors	Spices, flavors, and extracts	Dry spices
Indicate the average daily volume of wastewater discharged by the SIU.	192,588 gpd	81,794 gpd	77,248 gpd
How much of the average daily volume is attributable to process flow?	192,588 gpd	81,794 gpd	77,248 gpd
How much of the average daily volume is attributable to non-process flow?	0 gpd	0 gpd	0 gpd
Is the SIU subject to local limits?	☑ Yes ☐ No	☑ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ___	SIU ___	SIU ___
Under what categories and subcategories is the SIU subject?			
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☐ No	☐ Yes ☑ No	☐ Yes ☑ No
If yes, describe.			

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
MDD990686040	MD0021555	Back River WWTP (from Baltimore County)	

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

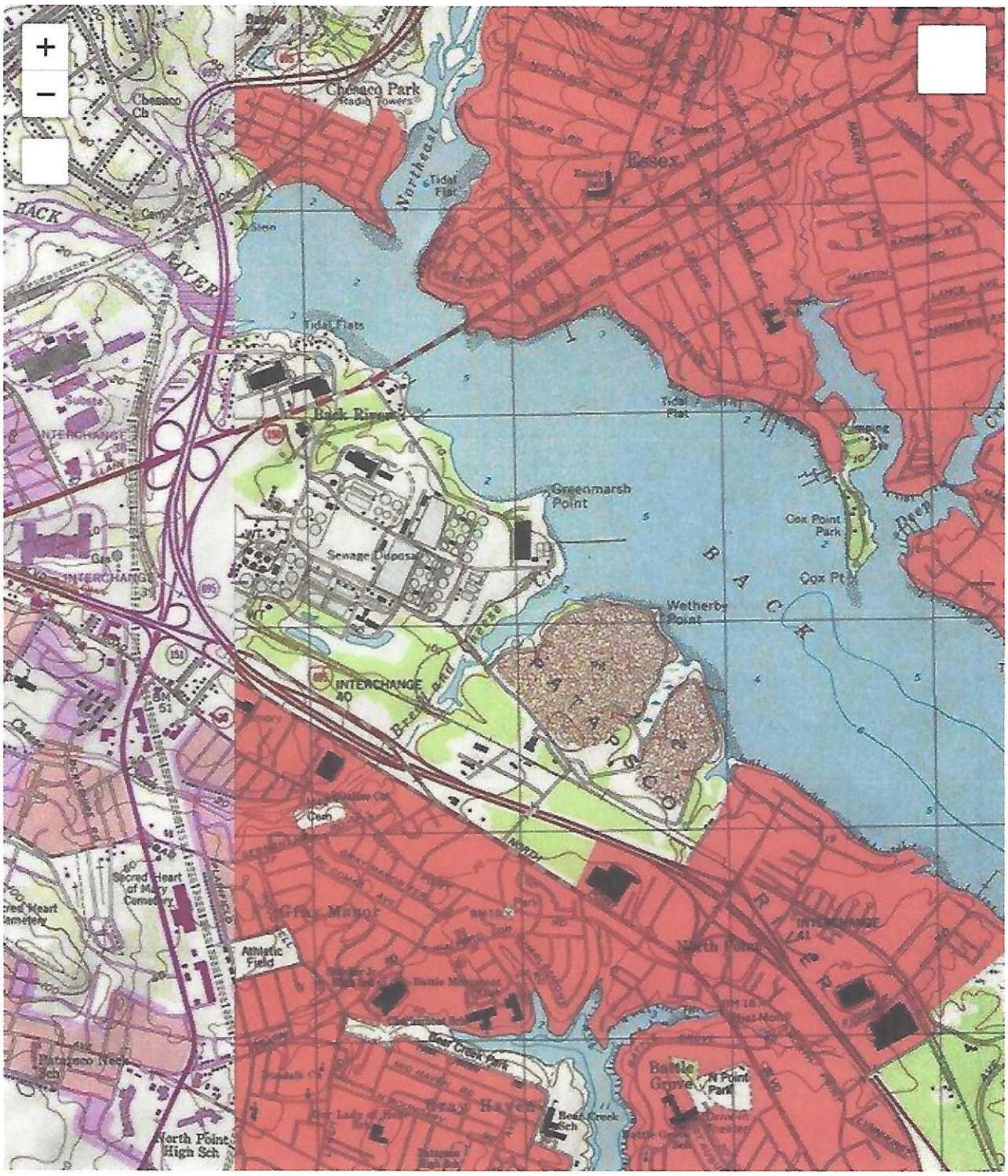
	SIU ____	SIU ____	SIU ____
Name of SIU	Pharmaceutics International Inc. (Beaver Ct.)	Pharmaceutics International Inc. (Gilroy Rd.)	Unifirst Corporation
Mailing address (street or P.O. box)	103 Beaver Court	10819 Gilroy Rd.	8820 Yellow Brick Rd.
City, state, and ZIP code	Cockeysville, MD 21030	Hunt Valley, MD 21031	Baltimore, MD 21237
Description of all industrial processes that affect or contribute to the discharge.	Blending, mixing, coating	Mixing, blending, encapsulation, granulation, tableting, coating, laboratories	Industrial laundry
List the principal products and raw materials that affect or contribute to the SIU's discharge.	Principal product(s): Pharmaceutical products. Raw material(s): Materials vary with contract.	Principal product(s): Pharmaceutical products. Raw material(s): Materials vary with contract.	Principal product(s): Cleaning uniforms and rags. Raw material(s): Soiled clothes, soaps.
Indicate the average daily volume of wastewater discharged by the SIU.	7,716 gpd	7,537 gpd	32,578 gpd
How much of the average daily volume is attributable to process flow?	7,716 gpd	7.537 gpd	32,578 gpd
How much of the average daily volume is attributable to non-process flow?	0 gpd	0 gpd	0 gpd
Is the SIU subject to local limits?	☐ Yes ☐ No	☐ Yes ☐ No	☑ Yes ☐ No
Is the SIU subject to categorical standards?	☑ Yes ☐ No	☑ Yes ☐ No	☐ Yes ☐ No

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ____	SIU ____	SIU ____
Under what categories and subcategories is the SIU subject?	40 CFR 439 Pharmaceutical Subpart D	40 CFR 439 Pharmaceutical Subpart D	
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☐ No	☐ Yes ☑ No	☐ Yes ☑ No
If yes, describe.			

Back River Topo Map in Baltimore County Maryland



Print this map

Map provided by TopoZone.com

REVISIONS			
NO.	DESCRIPTION	DATE	BY

GENERAL SHEET NOTES:

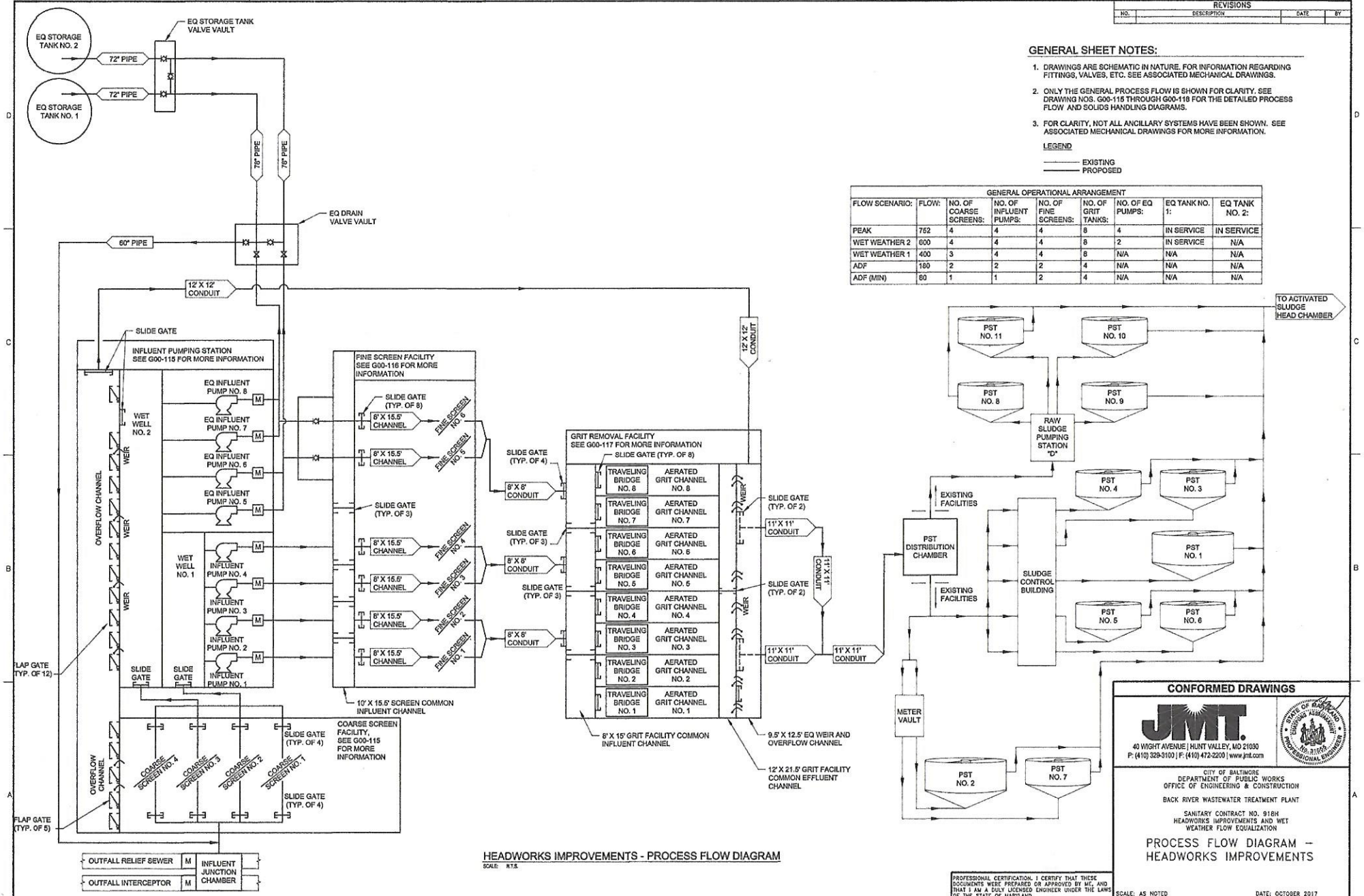
1. DRAWINGS ARE SCHEMATIC IN NATURE. FOR INFORMATION REGARDING FITTINGS, VALVES, ETC. SEE ASSOCIATED MECHANICAL DRAWINGS.
2. ONLY THE GENERAL PROCESS FLOW IS SHOWN FOR CLARITY. SEE DRAWING NOS. G00-115 THROUGH G00-118 FOR THE DETAILED PROCESS FLOW AND SOLIDS HANDLING DIAGRAMS.
3. FOR CLARITY, NOT ALL ANCILLARY SYSTEMS HAVE BEEN SHOWN. SEE ASSOCIATED MECHANICAL DRAWINGS FOR MORE INFORMATION.

LEGEND

——— EXISTING
——— PROPOSED

GENERAL OPERATIONAL ARRANGEMENT

FLOW SCENARIO:	FLOW:	NO. OF COARSE SCREENS:	NO. OF INFLUENT PUMPS:	NO. OF FINE SCREENS:	NO. OF GRIT TANKS:	NO. OF EQ PUMPS:	EQ TANK NO. 1:	EQ TANK NO. 2:
PEAK	752	4	4	4	8	4	IN SERVICE	IN SERVICE
WET WEATHER 2	600	4	4	4	8	2	IN SERVICE	N/A
WET WEATHER 1	400	3	4	4	8	N/A	N/A	N/A
ADF	180	2	2	2	4	N/A	N/A	N/A
ADF (MIN)	60	1	1	2	4	N/A	N/A	N/A



HEADWORKS IMPROVEMENTS - PROCESS FLOW DIAGRAM

SCALE: N.T.S.

CONFORMED DRAWINGS

JMT
40 WIGHT AVENUE | HUNT VALLEY, MD 21030
P: (410) 329-3100 | F: (410) 472-2200 | www.jmt.com

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
OFFICE OF ENGINEERING & CONSTRUCTION

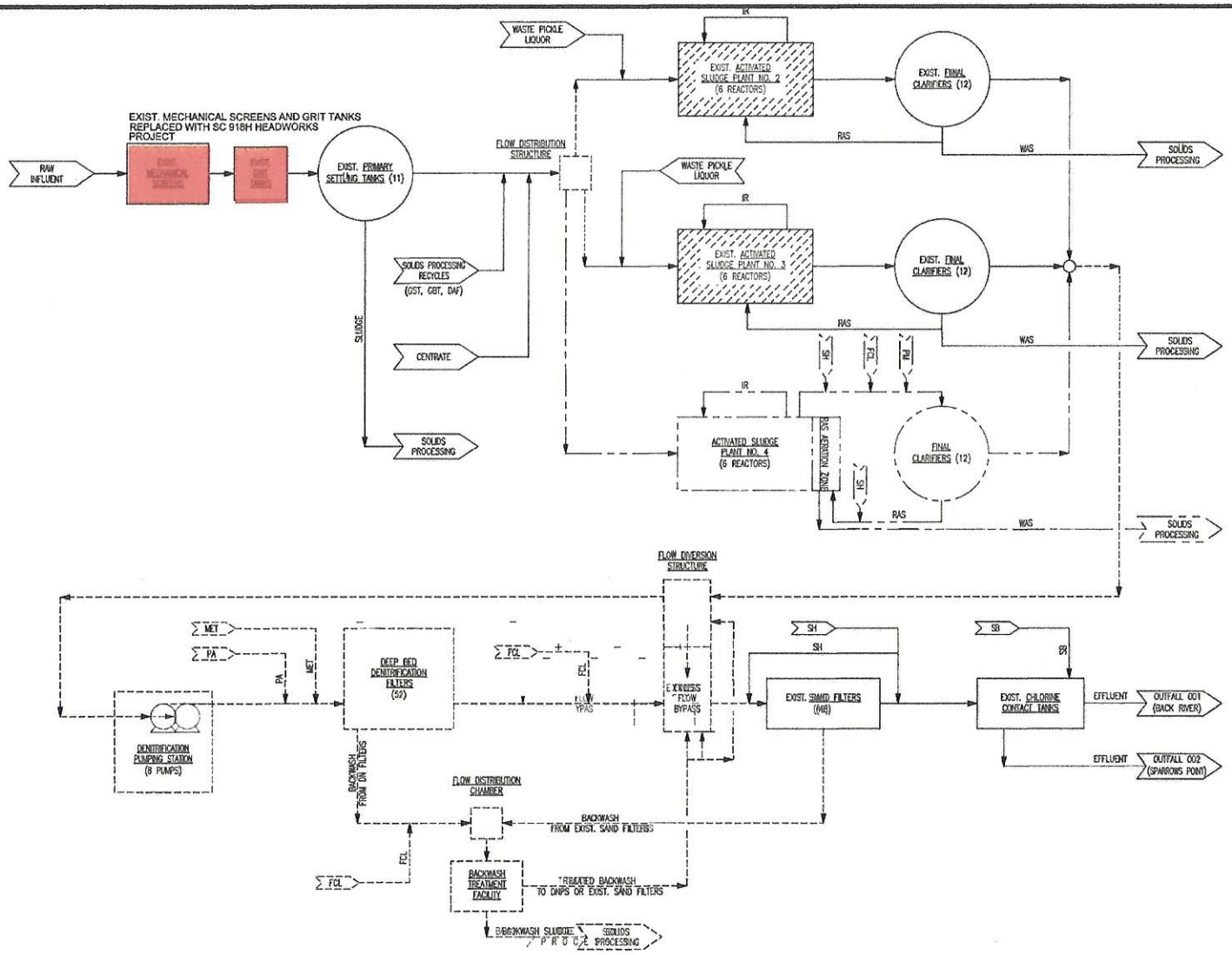
BACK RIVER WASTEWATER TREATMENT PLANT

SANITARY CONTRACT NO. 918H
HEADWORKS IMPROVEMENTS AND WET WEATHER FLOW EQUALIZATION

PROCESS FLOW DIAGRAM – HEADWORKS IMPROVEMENTS

PROFESSIONAL CERTIFICATION. I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31555 , EXPIRATION DATE 03/15/19

SCALE: AS NOTED
DATE: OCTOBER 2017
DRAWING NO.: G00-114
SHEET 15 OF 1481



ABBREVIATIONS:

DAF	–	DISSOLVED AIR FLOTATION
FCL	–	FERRIC CHLORIDE
GBT	–	GRAVITY BELT THICKENER
GST	–	GRAVITY SLUDGE THICKENER
MET	–	METHANOL
PA	–	PHOSPHORIC ACID
PM	–	POLYMER
RAS	–	RETURN ACTIVATED SLUDGE
SB	–	SODIUM BISULFITE
SH	–	SODIUM HYPOCHLORITE
WAS	–	WASTE ACTIVATED SLUDGE

LEGEND:

EXISTING

SC 877

THIS CONTRACT

MODIFIED UNDER SC 877

REVISIONS

NO.	DESCRIPTION	DATE	BY

KCI TECHNOLOGIES PROJECT No.: 13-111248

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MD 21152
PHONE: (410) 316-7800
FAX: (410) 316-7817
www.kci.com

STATE OF MARYLAND — GIANNA WALKER — No. 31363 — PROFESSIONAL ENGINEER

01/06/2014

PROFESSIONAL CERTIFICATION. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State Of Maryland.

License No. 31363

Expiration Date 1/18/2016

CITY OF BALTIMORE
DEPARTMENT OF PUBLIC WORKS
BUREAU OF WATER AND WASTEWATER
WATER AND WASTEWATER ENGINEERING DIVISION

SANITARY CONTRACT No. 882
ENHANCED NUTRIENT REMOVAL AT THE BACK RIVER WASTEWATER TREATMENT PLANT
PROJECT 2, ACTIVATED SLUDGE PLANT NO. 4

OVERALL PROCESS FLOW SCHEMATICS

SCALE: AS SHOWN

DRAWING NO.: G-11 | SHEET 11 OF 943

CONFORMED DRAWING