

Re: Index to Administrative Record
National Pollutant Discharge Elimination System (NPDES)
NPDES Permit Renewal

NPDES PERMIT NUMBER: DC0000019

PERMITTEE NAME:

Department of the Army
Baltimore District, Corps of Engineers
Washington Aqueduct Division

MAILING ADDRESS:

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RECEIVING STREAMS:

Potomac River, Rock Creek, Mill Creek and Little Falls Branch

#	Document Description
1	2008 NPDES Permit No. DC0000019. October 20, 2008.
2	2008 NPDES Permit Fact Sheet No. DC0000019. October 20, 2008.
3	2013 Permit Renewal Application for NPDES Permit No. DC0000019 from U.S. Army Corps of Engineers. May 14, 2013.
4	U.S. Army Corps of Engineers Map of Washington Aqueduct Outfalls. May 16, 2017.
5	Email from Valerie Lopez-Carrasquillo, EPA Region 3 to Thomas Jacobus, U.S. Army Corps of Engineers Re: Information Requirement – Section 308. June 06, 2017.
5a	Letter from David B. McGuigan, EPA Region 3 to Thomas Jacobus, U.S. Army Corps of Engineers Re: Request for Information Pursuant to Section 308. May 26, 2017

6	Email from Thomas Jacobus, U.S. Army Corps of Engineers to Valerie Lopez-Carrasquillo, EPA Region 3 Re: Site Visit to Washington Aqueduct Facility Outfalls. August 18, 2017
6a	Itinerary from the U.S. Army Corps of Engineers for the site visit with EPA Region 3 on August 23, 2017. August 23, 2017
7	Letter from Thomas Jacobus, U.S. Army Corps of Engineers to Valerie Lopez-Carrasquillo, EPA Region 3 Re: Request of Time Extension to Submit Supplemental Information. October 3, 2017
8	Email from Shabir A. Choudhary, U.S. Army Corps of Engineers to Valerie Lopez-Carrasquillo, EPA Region 3 Re: Supplemental Data for Washington Aqueduct's NPDES Permit Application. October 10, 2017
8a	Letter from Thomas Jacobus, U.S. Army Corps of Engineers to Valerie Lopez-Carrasquillo, EPA Region 3 Re: Supplemental Data for Washington Aqueduct's NPDES Permit Application Letter. October 3, 2017
8b	Attachment I of the Supplemental Data "Permitted Discharge Locations" submitted to EPA Region 3 by U.S. Army Corps of Engineers. October 10, 2017
8c	Attachment II of the Supplemental Data "Flow Schematic with Treatment Chemical Additions and NPDES Outfall Locations" submitted to EPA Region 3 by U.S. Army Corps of Engineers. October 10, 2017
8d	Attachment III of the Supplemental Data "Discharge Streams by Outfalls and Expected Contaminants for Monitoring" submitted to EPA Region 3 by U.S. Army Corps of Engineers. October 10, 2017
8e	Attachment IV of the Supplemental Data "Historical Potomac River Water Characterization Data" submitted to EPA Region 3 by U.S. Army Corps of Engineers. October 10, 2017
8f	Attachment V of the Supplemental Data "Dalecarlia WTP Finished Drinking Water Characterization Data (Outfall 008 & 009)" submitted to EPA Region 3 by U.S. Army Corps of Engineers. October 10, 2017
8g	Attachment VI of the Supplemental Data "McMillan WTP Finished Drinking Water Characterization Data (Outfall 008 & 009)" submitted to EPA Region 3 by U.S. Army Corps of Engineers. October 10, 2017
8h	Attachment VII of the Supplemental Data "Representative Sample Characterization Data (Outfall 002, 003, 004, 006 & 007)" submitted to EPA Region 3 by U.S. Army Corps of Engineers. October 10, 2017

9	Email from Valerie Lopez-Carrasquillo, EPA Region 3 to Shabir A. Choudhary, U.S. Army Corps of Engineers Re: Washington Aqueduct Draft Permit and Fact Sheet. May 2, 2018
10	Email from Francisco Cruz, EPA Region 3 to James Bemis, U.S. Army Corps of Engineers Re: Washington Aqueduct Draft Permit and Fact Sheet Time Extension Request. May 10, 2018
10a	Email from Francisco Cruz, EPA Region 3 to James Bemis, U.S. Army Corps of Engineers Re: Washington Aqueduct Draft Permit and Fact Sheet Time Extension Request. June 5, 2018
10b	Email from Thomas Jacobus, U.S. Army Corps of Engineers to Valerie Lopez-Carrasquillo, EPA Region 3 Re: Washington Aqueduct Comments on NPDES Draft Permit. June 15, 2018
11	Email from Thomas Jacobus, U.S. Army Corps of Engineers to Francisco Cruz, EPA Region 3 Re: Washington Aqueduct and EPA Region 3 Meeting to Discuss the NPDES Draft Permit. June 29, 2018
12	Letter from Thomas Jacobus, U.S. Army Corps of Engineers to David B. McGuigan, EPA Region 3 Re: Update of Washington Aqueduct Residuals Processing Capabilities. August 14, 2018
13	Email from Shabir A. Choudhary, U.S. Army Corps of Engineers to Valerie Lopez-Carrasquillo, EPA Region 3 Re: Site Specific Aluminum Criteria for Washington Aqueduct's Outfalls. August 31, 2018
13a	U.S. EPA's Draft Aquatic Life Ambient Water Quality Criteria for Aluminum 2017. July 2017
13b	Letter from Thomas Jacobus, U.S. Army Corps of Engineers to Valerie Lopez-Carrasquillo, EPA Region 3 Re: Cover Letter Washington Aqueduct Site Specific Limits. August 31, 2018
13c	Letter from Chuck Pace, EA Engineering, Science and Technology, Inc to Shabir A. Choudhary, U.S. Army Corps of Engineers Re: Development of a Site-Specific Aluminum Criteria for Outfalls 006, 007, 008 and 009. August 30, 2018
13d	Letter from Chuck Pace, EA Engineering, Science and Technology, Inc to Shabir A. Choudhary, U.S. Army Corps of Engineers Re: Development of Copper Control Strategy - Outfall 007. August 30, 2018
14	Letter from Chuck Pace, EA Engineering, Science and Technology, Inc to Shabir A. Choudhary, U.S. Army Corps of Engineers Re: Basis for Deletion of 85% TSS Removal Requirement. September 6, 2018

15	Email from Chuck Pace, EA Project Manager to Shabir A. Choudhary, U.S. Army Corps of Engineers Re: EPA Region 3 Follow-up Data Needed for Site Aluminum Criteria for Washington Aqueduct's Outfalls. September 13, 2018
16	Department of Energy & Environment. "Total Maximum Daily Load Documents" https://doee.dc.gov/service/total-maximum-daily-load-tmdl-documents
17	Department of Energy & Environment. "Chesapeake Bay Total Maximum Daily Load – Phase II Watershed Implementation Plan" March 30, 2012
18	Study from EA Engineering, Science and Technology, Inc to U.S. Army Corps of Engineers "Water Quality Studies in the Vicinity of Washington Aqueduct." October 4, 2001
19	Washington Aqueduct Reasonable Potential Analysis conducted by EPA Region 3. June 6, 2019
20	U.S. EPA's Metal Translator Guidance "The metals translator: Guidance for Calculating a Total Recoverable Permit Limit from a Dissolved Criterion." June 1996
21	Email from Shabir A. Choudhary, U.S. Army Corps of Engineers to Valerie Lopez-Carrasquillo, EPA Region 3 Re: Washington Aqueduct Draft Permit. October 9, 2018
22	Letter from Shabir A. Choudhary, U.S. Army Corps of Engineers to Valerie Lopez-Carrasquillo, EPA Region 3 Re: "Removal of Special Conditions for Sedimentation Discharges during the Sturgeon Spring Spawning Season." November 11, 2018
23	Email from Shabir A. Choudhary, U.S. Army Corps of Engineers to Valerie Lopez-Carrasquillo, EPA Region 3 Re: Dilution Factor for Outfalls 002, 003 and 004. November 15, 2018
24	Email from Shabir A. Choudhary, U.S. Army Corps of Engineers to Valerie Lopez-Carrasquillo, EPA Region 3 Re: Washington Aqueduct-Request for Additional Data. December 8, 2018
24a	Comments from U.S. Army Corps of Engineers on additional sampling requested by EPA Region 3. December 8, 2018
24b	Picture of the Georgetown Reservoir from U.S. Army Corps of Engineers "Georgetown Reservoir Aerial Picture 1." December 8, 2018

24c	Picture of the Georgetown Reservoir from U.S. Army Corps of Engineers. "Georgetown Reservoir Aerial Picture 2." December 8, 2018
25	Email from Shabir A. Choudhary, U.S. Army Corps of Engineers to Valerie Lopez-Carrasquillo, EPA Region 3 Re: Washington Aqueduct- Clarification on your Response. April 15, 2019
25a	Letter from Chuck Pace, EA Engineering, Science and Technology, Inc to Shabir A. Choudhary, U.S. Army Corps of Engineers Re: Development of a Reasonable Potential Analysis for Outfalls 003, 004, 006 and 007. March 29, 2019
25b	U.S. EPA's Final Aquatic Life Ambient Water Quality Criteria for Aluminum 2017. December 2018
25c	Letter from Chuck Pace, EA Engineering, Science and Technology, Inc. to Shabir A. Choudhary, U.S. Army Corps of Engineers Re: Development of a Reasonable Potential Analysis for Outfalls 003, 004, 006 and 007 - Revised. April 8, 2019
26	DC0000019 NPDES Permit Rating Worksheet. March 1, 2019
27	Email from Thomas Jacobus, U.S. Army Corps of Engineers to Valerie Lopez-Carrasquillo, EPA Region 3 Re: Washington Aqueduct Draft Permit Comments. July 10, 2019
27a	Letter from Thomas Jacobus, U.S. Army Corps of Engineers to Valerie Lopez-Carrasquillo, EPA Region 3 Re: Washington Aqueduct Comments to the Draft NPDES Permit No. DC0000019. July 10, 2019
27b	Letter from Stanley Laskowski, EPA Region 3 to Thomas Jacobus, U.S. Army Corps of Engineers Re: EPA Approval of Alternate Test Procedures for the Determination of Iron and Aluminum. August 19, 1997
27c	Email from Valerie Lopez-Carrasquillo, EPA Region 3 to Thomas Jacobus, U.S. Army Corps of Engineers Re: EPA Response to Washington Aqueduct Comments. July 17, 2019
28	Letter from Francisco Cruz, EPA Region 3 to Ed Dunne, District of Columbia Department of Energy and Environment Re: Request for Clean Water Act Section 401 Certification of NPDES Permit No. DC0000019. August 1, 2019
28a	District Department of Energy and Environment's Clean Water Act Section 401 Certification of NPDES Permit No. DC0000019. August 28, 2019.

28b	District Department of Energy and Environment's comments on draft NPDES permit DC0000019. August 28, 2019.
28c	Email from Ed Dunne, District Department of Energy and Environment to Francisco Cruz, EPA Region 3 Re: Clean Water Act Section 401 Certification and comments on NPDES Permit No. DC0000019. August 28, 2019.
29	Letter from Francisco Cruz, EPA Region 3 to Lee Currey, Maryland Department of the Environment Re: MD - 401 Certification. August 1, 2019
29a	Email from Ed Stone, Maryland Department of the Environment Re: Clean Water Act Section 401 notification and comments on NPDES permit no. DC0000019. September 6, 2019.
30	Letter from Francisco Cruz, EPA Region 3 to Melanie D. Davenport, Virginia Department of the Environment Quality Re: VA - 401 Certification. August 1, 2019
31	Letter from EPA Region 3 to National Oceanic & Atmospheric Administration Re: Request For Concurrence With Proposed Revised Biological Evaluation in accordance with Endangered Species Act Section 7. August 26, 2019.
32	Administrative Record Index for EPA Region's Biological Evaluation. August 26, 2019.
32a	Washington Aqueduct Draft Permit, 2018. July 29, 2018.
32b	Washington Aqueduct Draft Fact Sheet, 2018. July 29, 2018.
32c	Final Evaluation for Washington Aqueduct NPDES Permit, April 18, 2008. April 18, 2008.
32d	Letter from National Oceanic & Atmospheric Administration to EPA Re: Biological Opinion for Washington Aqueduct, October 14, 2008.
32e	Email from Shabir A. Choudhary, U.S. Army Corps of Engineers to Valerie Lopez-Carrasquillo, EPA Region 3 Re: Washington Aqueduct- Removal of Special Conditions for Sedimentation Discharges during the Sturgeon Spring Spawning Season. October 12, 2018.

32f	Map of Estimated Range of Atlantic Sturgeon Distinct Population Segments (DPSs) from the National Oceanic & Atmospheric Administration. October 23, 2018.
32g	Pennsylvania's Department of Environmental Protection's Millions of Gallons Conversion Calculator. http://www.dep.state.pa.us/dep/deputate/waterops/redesign/calculators/mgdcalc.htm 2018
32h	U.S. EPA 's Final Aquatic Life Ambient Water Quality Criteria for Aluminum in Freshwaters, Fact Sheet. July 2017.
32i	U.S. EPA's Final Aquatic Life Ambient Water Quality Criteria For Aluminum in Freshwater. https://www.epa.gov/sites/production/files/2018-12/documents/aluminum-final-national-recommended-awqc.pdf December 2018.
32j	U.S. EPA's Technical Fact Sheet for Perchlorate. November 2017.
32k	U.S. EPA's Website for Aquatic Life Criteria for Copper. https://www.epa.gov/wqc/aquatic-life-criteria-copper#how2 . Accessed October 23, 2018
32l	U.S. EPA's Aquatic Life Ambient Freshwater Quality Criteria – Copper. February 2007 Revision.
32m	Washington Aqueduct Reasonable Potential Analysis Spreadsheet, 2019. July 11, 2019.
32n	Letter from the National Oceanic & Atmospheric Administration to EPA Region 3 Re: Biological Opinion. September 4, 2019.
33	Letter from the U.S. Fish and Wildlife Service to EPA Region 3 Re: "no effect" determination. September 17, 2019.
34	Letter from Potomac River Keeper Network to EPA Region 3 Re: Comments on Draft NPDES Permit DC0000019. September 3, 2019.
35	Email from Thomas Jacobus, U.S. Army Corps of Engineers to Francisco Cruz, EPA Region 3 Re: Editorial notes for consideration: NPDES DC0000019. August 28, 2019.

36	Washington Aqueduct Reasonable Potential Analysis. May 2020.
37	Department of Energy & Environment's Chesapeake Bay Total Maximum Daily Load – Phase III Watershed Implementation Plan. August 23, 2019.
38	EPA Region 3's Best Professional Judgement (BPJ) determination in establishing Technology Based Effluent Limits for DC0000019. December 6, 2002.
39	Department of Energy & Environment. "Water Quality Standards" https://dcregs.dc.gov/Common/DCMR/RuleList.aspx?ChapterNum=21-11&ChapterId=333
40	Washington Aqueduct DMR data from November 20, 2008 to November 20, 2019. November 20, 2019.
41	U.S. EPA's Aluminum Criteria Calculator. December 10, 2019.
42	U.S. EPA's Interim Drinking Water Health Advisory for Perchlorate. December 9, 2019.
43	Email from Chris Vaccaro, National Oceanic & Atmospheric Administration to Maggie Green, EPA Region 3 Re: Section 7 Consultation re-initiation for NPDES permit no. DC0000019. November 7, 2019.
44	Letter from EPA Region 3 to DC Historic Preservation Office Re: No Effect Determination. August 21, 2019.
45	Email from Gary Shenk, Chesapeake Bay Program Office to Carissa Moncavage, EPA Region 3 Re: Edge of Stream calculation. June 9, 2020.
46	Letter from Phillip Musegaas, Potomac River Keeper Network to Francisco Cruz, EPA Region 3 Re: Potomac River Keeper Network Comments On Proposed Reissuance of NPDES Permit DC0000019, Washington Aqueduct. September 3, 2019.
46a	Email from Phillip Musegaas, Potomac River Keeper Network to Francisco Cruz, EPA Region 3 Re: Transmission of Potomac River Keeper Network Comments On Proposed Reissuance of NPDES Permit DC0000019, Washington Aqueduct. September 3, 2019.

47	Email from Carissa Moncavage, EPA Region 3 to Thomas Jacobus, U.S. Army Corps of Engineers Re: Revised Draft NPDES Permit for DC0000019 for review. April 1, 2020.
47a	Revised draft Fact Sheet for NPDES permit no. DC0000019 for the Washington Aqueduct. April 1, 2020.
47b	Revised Draft NPDES permit no. DC0000019 for the Washington Aqueduct. April 1, 2020.
48	Letter from Thomas Jacobus, U.S. Army Corps of Engineers, to Carissa Moncavage, EPA Region 3 Re: Request for extension to complete review of the revised draft permit no. DC0000019. April 2, 2020.
48a	Email from Thomas Jacobus, U.S. Army Corps of Engineers, to Carissa Moncavage, EPA Region 3 Re: transmittal of Request for extension to complete review of the revised draft permit no. DC0000019. April 2, 2020.
49	Email from Carissa Moncavage, EPA Region 3 to Nikolai Gurdian, U.S. Army Corps of Engineers Re: EPA approval of time extension to review revised draft permit no. DC0000019 dated April 1, 2020. April 6, 2020.
50	2019 Draft NPDES Permit No. DC0000019 and Accompanying Fact Sheet, public noticed on August 1, 2019.
51	Letter from Thomas Jacobus, U.S. Army Corps of Engineers, to Carissa Moncavage, EPA Region 3 Re: Comments on the revised draft permit no. DC0000019 dated April 1, 2020. May 29, 2020.
51a	Email from Nikolai Gurdian, U.S. Army Corps of Engineers to Carissa Moncavage, EPA Region 3 Re: transmittal of Washington Aqueduct's Comments on revised draft permit no. DC0000019 dated April 1, 2020. May 29, 2020.
52	Email from Nikolai Gurdian, U.S. Army Corps of Engineers to Carissa Moncavage, EPA Region 3 Re: transmittal of Washington Aqueduct's RP Analysis for Iron at Outfalls 003 and 004 and Fluoride at Outfalls 003, 004, 008, and 009.
52a	Attachment to email, RP Analysis and Memo from Chuck Pace, EA Engineering to Nikolai Gurdian, U.S. Army Corps of Engineers Re: RP Analysis for Iron at Outfalls 003 and 004 and Fluoride at Outfalls 003, 004, 008, and 009. May 18, 2020.
52b	Attachment to email, Updated Fluoride Data for Outfalls 003, 004, 008, and 009 provided by the Washington Aqueduct to EPA Region 3.

53	Data for Outfall 002Q from the 2008 NPDES Permit No. DC0000019. October 20, 2020.
54	Email from Nikolai Gurdian, U.S. Army Corps of Engineers to Carissa Moncavage, EPA Region 3 Re: updated sampling locations for Outfall 002A and 002Q. June 11, 2020.
54a	Attachment to email, Updated sampling locations for Outfalls 002A and 002Q provided to EPA Region 3 by U.S. Army Corps of Engineers. June 11, 2020.
55	Outfall monitoring questions from U.S. Army Corp of Engineers to EPA Region 3.
55a	Email correspondences between Nikolai Gurdian, U.S. Army Corps of Engineers and Carissa Moncavage, EPA Region 3 Re: Outfall monitoring questions. July - August 2020.
56	Chesapeake Assessment Scenario Tool (CAST) Fact Sheet accessed from the Chesapeake Bay Program Office website at https://cast.chesapeakebay.net/about . Website last accessed, August 2020.
57	Email correspondences between EPA Region 3, DOEE, and the Chesapeake Bay Program Office Re: D.C. Phase 3 Watershed Implementation Plan. March – April 2020.
58	Email from Chesapeake Bay Program Office to EPA Region 3 Re: Edge of Tide versus Edge of Stream Wasteload Allocations. 2019 – 2020.
59	Email from Mike Eller, EPA Region 3, to Carissa Moncavage, EPA Region 3 Re: Sampling Guidance. July 2020.
60	Email to Nikolai Gurdian, U.S. Army Corps of Engineers from Carissa Moncavage, EPA Region 3 Re: Transmission of Washington Aqueduct Draft Permit. August 14, 2020.
60a	Attachment to email, Washington Aqueduct Draft Permit dated August 4, 2020. August 14, 2020.
60b	Attachment to email, Washington Aqueduct Draft Fact Sheet dated August 4, 2020. August 14, 2020.

61	Email from Nikolai Gurdian, U.S. Army Corps of Engineers to Carissa Moncavage, EPA Region 3 Re: Potomac River Background Concerns and Extension Request. August 28, 2020.
62	Email from Carissa Moncavage, EPA Region 3 to Nikolai Gurdian, U.S. Army Corps of Engineers Re: Extension Request. September 2, 2020.
63	Email from Nikolai Gurdian, U.S. Army Corps of Engineers to Carissa Moncavage, EPA Region 3 Re: Washington Aqueduct Comments on Permit dated August 4, 2020. September 3, 2020.
63a	Attachment to email, Washington Aqueducts comments on Permit dated August 4, 2020. September 3, 2020.
64	Email from Michelle Price-Fay, EPA Region 3 to Lt. Col. Kuhlmann, U.S. Army Corps of Engineers Re: Transmission of Washington Aqueduct Draft Permit. October 2, 2020.
64a	Attachment to email, Letter from Michelle Price-Fay, EPA Region 3 to Lt. Col Kuhlmann, U.S. Army Corps of Engineers Re: Response to Washington Aqueducts Comments submitted to EPA on September 3, 2020. October 2, 2020.
64b	Attachment to email, Washington Aqueduct Draft Permit dated October 2, 2020.
64c	Attachment to email, Washington Aqueduct Draft Fact Sheet dated October 2, 2020.
65	Email no.1 from Nikolai Gurdian, U.S. Army Corps of Engineers to Carissa Moncavage, EPA Region 3 Re: outfall sampling locations. October 2, 2020.
65a	Outfall sampling locations provided to EPA by the Washington Aqueduct, version 1. October 2, 2020.
66	Email no.2 from Nikolai Gurdian, U.S. Army Corps of Engineers to Carissa Moncavage, EPA Region 3 Re: outfall sampling locations. October 2, 2020.
66a	Outfall sampling locations provided to EPA by the Washington Aqueduct, version 2. October 2, 2020.

67	Email no.3 from Nikolai Gurdian, U.S. Army Corps of Engineers to Carissa Moncavage, EPA Region 3 Re: outfall sampling locations. October 2, 2020.
67a	Outfall sampling locations provided to EPA by the Washington Aqueduct, version 3. October 2, 2020.
68	Email from Carissa Moncavage, EPA Region 3 to Nikolai Gurdian, U.S. Army Corps of Engineers Re: sampling concerns at outfall 008 & 009. October 13, 2020.
69	Email from Nikolai Gurdian, U.S. Army Corps of Engineers to Carissa Moncavage, EPA Region 3 Re: sampling concerns at outfall 008 & 009. October 15, 2020.
70	Email from Nikolai Gurdian, U.S. Army Corps of Engineers to Carissa Moncavage, EPA Region 3 Re: comments on draft permit dated October 2,2020. October 16, 2020.
70a	Washington Aqueduct's comments on draft permit dated October 2, 2020. October 16, 2020.
70b	Enclosure to email from Washington Aqueduct's comments on draft permit dated October 2, 2020. October 16, 2020.
71	Letter from U.S. Fish and Wildlife Service to U.S. EPA Region 3, Re: Response to Section 7 of the Endangered Species Act consultation request from the Chesapeake Bay Ecological Services Field Office. November 5, 2020.
72	Letter from U.S. Fish and Wildlife Service to U.S. EPA Region 3, Re: Response to Section 7 of the Endangered Species Act consultation request from the Virginia Ecological Services Field Office. November 5, 2020.
73	Email from the National Oceanic & Atmospheric Administration to EPA Region 3 Re: Re-initiation of consultation "no effect" determination in accordance with Endangered Species Act Section 7. November 7, 2019.
74	Clean Water Act Section 401 Pre-Filing Meeting Request from EPA Region 3 to DOEE. November 5, 2020.
75	Response from DOEE Re: Clean Water Act Section 401 Pre-Filing Meeting Request from EPA Region 3 to DOEE.

76	Clean Water Act Section 401 Certification request letter from U.S. EPA Region 3 to the District of Columbia's Department of Energy and Environment. December 7, 2020.
77	EPA Region 3 letter to District of Columbia Historic Preservation Office, Re: National Historic Preservation Act No Effect Determination.

DRAFT