

**UNITED STATES DISTRICT COURT FOR THE
WESTERN DISTRICT OF PENNSYLVANIA**

PENNENVIRONMENT AND SIERRA CLUB)	
)	
<i>Plaintiffs,</i>)	
)	
v.)	Civil Action Nos. 2:12-cv-00342,
)	2:12-cv-00527, 2:13-cv-01395,
PPG INDUSTRIES, INC.,)	2:13-cv-01396, 2:14-cv-00229
BOROUGH OF FORD CITY, AND)	(consolidated)
BUFFALO & PITTSBURGH RAILROAD, INC.)	
)	Magistrate Judge Dodge
<i>Defendants.</i>)	
)	

**CONSENT ORDER SETTLING INJUNCTIVE RELIEF CLAIMS AND
RESERVING OTHER CLAIMS FOR FUTURE ADJUDICATION**

WHEREAS, on March 20, 2012 and May 20, 2012, after notice to PPG Industries, Inc. (PPG), the United States Environmental Protection Agency, and the Pennsylvania Department of Environmental Protection (PADEP or the Department), PennEnvironment and Sierra Club (collectively, plaintiffs) filed this citizen suit against PPG alleging, *inter alia*, violations of the Clean Water Act, 33 U.S.C. 1251, *et seq.*, the Clean Streams Law, 35 P.S. 691.1, *et seq.*, and that conditions at the PPG Waste Site (or the Site) may present an imminent and substantial endangerment to health and/or environment under Section 7002(a)(1)(B) of the Resource Conservation and Recovery Act, 42 U.S.C. 6972(a)(1)(B);

WHEREAS, the Court consolidated plaintiffs' complaints and amended complaints in Civil Action Nos. 2:12-cv-00527, 2:13-cv-01395, 2:13-cv-01396, and 2:14-cv-00229 under Civ. No. 2:12-cv-00342;

WHEREAS, plaintiffs joined the Borough of Ford City (Ford City) and the Buffalo & Pittsburgh Railroad, Inc. (the Railroad). Plaintiffs have not asserted claims against Ford City or the Railroad;

WHEREAS, the Parties to this Consent Settlement each believe that it is in their mutual interest to move forward productively to resolve their differences so that environmental remediation at the Site that ensures the protection of human health and the environment can be expeditiously implemented and protected in perpetuity;

WHEREAS, each of the actions required under this Consent Settlement have been fully considered by the Parties as a means to accomplish the aforesaid purposes;

NOW, THEREFORE, IT IS HEREBY AGREED, ORDERED AND DECREED AS FOLLOWS:

I. DEFINITIONS

For purposes of this Consent Settlement, the following terms shall have the meanings set forth in paragraphs 1-8:

1. **2019 Consent Order and Agreement** shall mean the Consent Order and Agreement entered into by PPG and the Pennsylvania Department of Environmental Protection (PADEP or the Department) on April 2, 2019 and filed with the Court at ECF No. 409-1. The Consent Order and Agreement is appended to this Consent Settlement as Appendix 1.

2. **Consent Settlement** shall mean this Consent Order Settling Injunctive Relief Claims and Reserving Other Claims for Future Adjudication.

3. **Department or PADEP** shall mean the Pennsylvania Department of Environmental Protection or any successor thereto.

4. **First Amendment** shall mean the First Amendment to the 2019 Consent Order and Agreement entered into by PPG, and the Department on November 4, 2020, and appended to this Consent Settlement as Appendix 2. The First Amendment together with the 2019 Consent Order and Agreement are hereinafter referred to collectively as the “2019 Consent Order and Agreement as Amended.”

5. **National Pollutant Discharge Elimination System or NPDES Permit** shall mean any permit issued pursuant to the Clean Water Act, 33 U.S.C. 1251, *et seq.*, or any equivalent thereof addressing discharges from the Site.

6. **Parties** shall collectively mean PPG and the Plaintiffs unless otherwise specified.

7. **Plaintiffs** shall collectively mean PennEnvironment and Sierra Club, the plaintiffs in the above-captioned action.

8. **PPG** shall mean PPG Industries, Inc.

II. SCOPE, JURISDICTION, AND CLAIMS RESOLVED

9. This Court has jurisdiction over the Parties and subject matter of this litigation pursuant to Section 7002 of RCRA, Section 505 of the Clean Water Act, and 28 U.S.C. 1367 with respect to the Pennsylvania Clean Streams Law claims.

10. For purposes of this Consent Settlement, the consolidated complaints, as amended, each state claims upon which relief may be granted against PPG.

11. This Consent Settlement resolves, settles, and satisfies all claims by Plaintiffs against PPG under Plaintiffs' consolidated complaints and amended complaints under Civ. No. 2:12-cv-00342, including those claims regarding the waste and the contamination of the surface water, wetlands, sediments, stormwater, groundwater, soil, vegetation, talus, and mulch on and/or in the vicinity of the PPG Waste Site, with the exception of (i) PPG's liability for and the amount of the civil penalty, if any, to be imposed under the Clean Water Act, and (ii) PPG's liability for and the amount of litigation costs, if any, including attorneys' fees and expert witness' fees under 33 U.S.C. 1365(d) and 42 U.S.C. 6972(e). As set forth in paragraphs 28 and 29 of this Consent Settlement, the Court retains jurisdiction to resolve the issues related to the civil penalty and litigation costs.

III. SITE REMEDIATION AND FINANCIAL ASSURANCES

12. PPG shall be responsible for and shall undertake the remediation set forth in the 2019 Consent Order and Agreement as Amended at its sole cost and expense.

13. PPG shall include in the Revised Cleanup Plan required by paragraph 3(b) of the 2019 Consent Order and Agreement as Amended and secure approval from the Department of the following enhancements as part of the remedy required to be implemented under Section I of the 2019 Consent Order and Agreement entitled “PPG Implementation of the SWDA/SWDA Annex Portion of the Act 2 Cleanup Plan”:

a. the SWDA/SWDA Annex Cleanup area shall be extended to include the areas identified in the figure attached as Appendix 3 to this Consent Settlement; and

b. the soil cover for the entirety of the areas proposed for geotextile/soil cover to be covered as identified in Appendix 3 to this Consent Settlement shall be a minimum of 12 inches.

14. PPG shall complete construction of the SWDA/SWDA Annex Portion of the Department approved Revised Cleanup Plan required by Paragraph 3 of the 2019 Consent Order and Agreement as Amended within two (2) years of receiving all permits and approvals necessary to implement said remedy.

15. PPG shall include in the Revised Cleanup Plan required by paragraph 4(a) of the 2019 Consent Order and Agreement as Amended and secure approval from the Department of the following enhancements as part of the remedy required to be implemented under Section II of the 2019 Consent Order and Agreement entitled “PPG Implementation of the Revised Treatment Plan Report Portion of the Act 2 Cleanup Plan” (ECF Nos. 392-1 through 392-4):

a. a shallow collection trench at the base of the southeastern portion of the SLA as depicted on the figures attached as Appendices 4 and 5 to this Consent Settlement. Such trench shall be designed to prevent the infiltration of non-impacted surface waters. Waters removed from

this trench shall be conveyed to the treatment system required by the 2019 Consent Order and Agreement as Amended;

b. a collection trench in the northwestern portion of the SLA as depicted on the figures attached as Appendix 6 to this Consent Settlement. Such trench shall be designed to prevent the infiltration of non-impacted surface waters. Water removed from this trench shall be conveyed to the treatment system required by the 2019 Consent Order and Agreement as Amended;

c. five vertical extraction wells spaced approximately 45 feet apart in the southeast corner of the SLA as depicted on the figures attached as Appendices 4 and 5 to this Consent Settlement. Water removed from these wells shall be conveyed to the treatment system required by the 2019 Consent Order and Agreement as Amended;

d. six vertical extraction wells spaced approximately 25 feet apart in the south central portion of the SLA as depicted on the figures attached as Appendices 4 and 5 to this Consent Settlement. Said extraction wells shall provide overlapping capture zones for the area at the western terminus of the interceptor trench and waters removed from these wells shall be conveyed to the treatment system required by the 2019 Consent Order and Agreement as Amended;

e. the western slope seep collection system that is conceptually depicted on the figures that are attached as Appendices 4 and 5 to this Consent Settlement shall collect elevated pH impacted seeps, if any, associated with the areas designated as Wetlands 21 and 22 and the seeps associated with Outfalls 005, 006, 007, 018, 019, 020, 021, and 022 as shown on the figure attached as Appendix 5 to this Consent Settlement. Provided further that the waters removed from this collection system shall be conveyed to the treatment system required by the 2019 Consent Order and Agreement as Amended, and the collection points shall include anti-seep collars that extend

sufficiently below the pipe to prevent seepage beyond the collar as conceptually depicted in the figure attached as Appendix 7 to this Consent Settlement;

f. flow meters that independently record the flow from the eastern segment of the interceptor trench, the southern segment of the interceptor trench, the northwestern collection trench, and the western slope collection system; and

g. the treatment system required by the 2019 Consent Order and Agreement as Amended shall include a two-stage pH control or adjustment system as conceptually depicted on the schematic attached as Appendix 8 to this Consent Settlement.

16. Consistent with the schedule applicable to the SWDA/SWDA Annex under Section I, Paragraph 3 of the 2019 Consent Order and Agreement as Amended, PPG shall install a minimum of 12 inches of clean topsoil in all SLA areas lacking robust vegetation located within the areas of disturbance depicted in the site permits. The installed topsoil shall be vegetated and may be augmented to enhance the growth of vegetation.

17. Beginning on the effective date of the First Amendment and continuing for two (2) years after startup of the Enhanced Collection and Treatment System required to be installed pursuant to the 2019 Consent Order and Agreement as Amended, PPG shall monitor monthly the water level at each existing internal SLA well and piezometer included in the SLA Monitoring Plan that is to be included as part of the Revised Cleanup Plan required by Paragraph 4.a.ix of the 2019 Consent Order and Agreement as Amended. At the conclusion of two (2) years, the monitoring frequency shall reduce to quarterly. After five (5) years of quarterly monitoring, PPG may request further reduction in the frequency or elimination of the monitoring altogether by submitting a request to PADEP with a copy notifying Plaintiffs of the request, so that Plaintiffs have an opportunity to comment on the request and challenge any decision PADEP may make

with regard to the request. All such monitoring data shall be included with the quarterly Progress Reports required by the 2019 Consent Order and Agreement as Amended.

18. Beginning nine (9) months after the startup of the Enhanced Collection and Treatment System required to be installed pursuant to the 2019 Consent Order and Agreement as Amended, PPG shall monitor pH at each railroad culvert that is identified on the figure that is attached as Appendix 9 to this Consent Settlement in accordance with the same schedule required by the NPDES Permit for monitoring Outfall 004. Provided further, that such sampling shall be conducted on an established schedule and the weather conditions shall be recorded and provided with the monitoring data. In the event that an unpermitted discharge is identified that has a pH greater than 9.0 S.U. during the sampling of these culverts, PPG shall address such discharge pursuant to the requirements and schedule established by Paragraph 5(d) of the First Amendment. If after full implementation of the remedy required by the 2019 Consent Order and Agreement as Amended, the pH at the monitored culverts is consistently less than 9.0 S.U., then said monitoring may be discontinued consistent with the terms of the 2019 Consent Order and Agreement as Amended. All such monitoring data shall be included with the quarterly Progress Reports required by the 2019 Consent Order and Agreement as Amended.

19. Beginning on the effective date of the First Amendment and continuing for two (2) years after startup of the Enhanced Collection and Treatment System required to be installed pursuant to the 2019 Consent Order and Agreement as Amended, PPG shall monitor pH on a monthly basis at the emergence of the seeps associated with W2, W3, and W20 as identified in the figure attached as Appendix 10 to this Consent Settlement. Such monitoring shall not be conducted during a precipitation event. In the event that an unpermitted discharge is identified that has a pH greater than 9.0 S.U. during the sampling at the emergence of these seeps, PPG shall address such

discharge pursuant to the requirements and schedule established by Paragraph 5(d) of the First Amendment. If after full implementation of the remedy required by the 2019 Consent Order and Agreement as Amended, the pH at the emergence of such seeps is consistently less than 9.0 S.U., then said monitoring may be discontinued consistent with the terms of the 2019 Consent Order and Agreement as Amended. All such monitoring data shall be included in the quarterly Progress Reports required by the 2019 Consent Order and Agreement as Amended.

20. PPG shall hold an NPDES Permit for the Site for as long as the NPDES Permit system or its equivalent is in effect and such system requires a permit for discharges from the Site. PPG shall submit a permit renewal application 180 days prior to the expiration of its NPDES Permit and shall file a renewal application for any future NPDES Permits for the Site thereafter as required by applicable laws and regulations.

21. PPG shall provide Plaintiffs with the quarterly Progress Reports required by the 2019 Consent Order and Agreement as Amended at the same time they are provided to the Department.

22. PPG shall provide the financial assurances as required by Paragraph 13 of the First Amendment. PPG shall provide Plaintiffs with the initial financial assurances documentation submitted to the Department at the same time that it makes such submission to the Department. PPG shall provide Plaintiffs with annual valuations of the remedial cost for the financial assurances at the same time that each financial assurance instrument is renewed, replaced, and/or substituted and at the same time PPG responds to any request by the Department for an update or change to the valuation. Provided further, that in lieu of an annual valuation, where PPG is not seeking a change, and has determined that no change in the amount of financial assurances is warranted, PPG may provide Plaintiffs with a professional engineer's certification representing that no change

in circumstance or conditions related to the implementation or long term maintenance and operation of the remedy has occurred that has materially changed the underlying assumptions and estimates that were submitted to support the amount of financial assurance most recently approved by PADEP. PPG shall provide notice to Plaintiffs of all decisions made by the Department regarding the financial assurances. PPG shall provide notice to Plaintiffs of any request to substitute or change the form of the financial assurance under the First Amendment. In no event shall the form of such financial assurance be based upon a financial test of net worth and/or corporate guarantee. Plaintiffs reserve the right to challenge any substitute or change in the form of the financial assurance under applicable law. PPG shall not substitute or change the form of the financial assurances prior to the issuance of a final decision on any challenge to the Department's decision, whether it entails an administrative and/or judicial review. If Plaintiffs fail to timely challenge the Department's decision, PPG may then substitute or change the form of the financial assurances consistent with the Department's decision. Unless otherwise specified, notice required under this paragraph shall be provided by PPG within five (5) business days of the event requiring notice to Plaintiffs.

IV. SETTLEMENT OF NPDES APPEAL

23. Within five (5) business days of the entry of this Consent Settlement, Plaintiffs and PPG shall present to the Department a settlement agreement resolving the Plaintiffs' appeal of the NPDES Permit pending before the Pennsylvania Environmental Hearing Board at EHB Docket No. 2020-015-B that has been executed by both Plaintiffs and PPG. Within five (5) business days of execution of that agreement by the Department, Plaintiffs shall take the necessary steps to notify the Board that the case has been settled, provide the Board with a copy of the settlement agreement for inclusion in the record, and request that the docket be marked settled.

V. ACCESS TO THE SITE

24. PPG, Ford City, and the Railroad shall take such actions as are reasonable, necessary and appropriate to assure that Plaintiffs have reasonable access to the Site for purposes of Plaintiffs inspecting the remedy and compliance with the terms of the 2019 Consent Order and Agreement, the First Amendment, and the NPDES Permit. Plaintiffs shall comply with the Declaration of Restrictive Covenants and Grant of Access Rights, recorded in the Armstrong County Recorder of Deeds on October 28, 2002, at Record Book No. 2487, pp. 0234-0243, and the draft Environmental Covenant, filed at ECF No. 392-3, pp. 1816-1823 and as modified pursuant to paragraph 25 (collectively “the Covenants”), to the extent Plaintiffs’ access and activities at the Site are subject to or covered by the Covenants. In providing access to and/or accommodating a request for access by Plaintiffs, PPG, Ford City, and the Railroad shall not be required to take any action that would violate or be inconsistent with the Covenants. No replacement or additional environmental/restrictive covenant shall alter or restrict Plaintiffs’ access any further than it may be under the Covenants without the consent of Plaintiffs. Access shall be granted to Plaintiffs upon reasonable notice and subject to reasonable conditions regarding safety and insurance and/or financial responsibility with respect to the Railroad, Ford City and PPG as the case may be. Provided further that PPG, Ford City and the Railroad shall take such actions as are necessary to assure that any successor owner, transferee, or assignee of their respective properties within the Site provide like access to Plaintiffs for such purposes.

25. PPG shall submit to the Department draft Environmental Covenants that meet the requirements of paragraph 7(a) of the 2019 Consent Order and Agreement as Amended as set forth below:

7. a. Draft environmental covenants, with PPG, the Railroad, and Ford City as signatories, that demonstrate present or intended compliance with Act 2, the NPDES permit, the content, notice, execution and recording requirements pursuant

to the Uniform Environmental Covenants Act (“UECA”), 27 Pa. C.S. §§ 6501 – 6517, and Department regulations and policy promulgated thereunder. The Environmental Covenants shall contain express language requiring current and all future owners of the Site to abide by the activity and use limitations. The Environmental Covenants shall contain express language that grants to the Department and its duly authorized representatives and contractors the right to access the Property to monitor, operate, maintain, and replace the Enhanced Collection and Treatment System required by the Consent Order and Agreement, as Amended.

VI. REPORTS TO COURT

26. Beginning ninety (90) days after the entry of this Consent Settlement and continuing for three (3) years thereafter, PPG shall submit quarterly progress reports to the Court. Such reports may be the same as the reports submitted to the Department under the 2019 Consent Order and Agreement as Amended, but are not required to be the same.

VII. SEDIMENTS

27. Within thirty (30) days of entry of this Consent Settlement, PPG shall pay two hundred fifty thousand dollars (\$250,000.00) to the Stroud Water Research Center in consideration of resolution of Plaintiffs’ claims regarding the river and wetland sediments.

VIII. CIVIL PENALTY

28. The Parties have been unable to resolve their dispute regarding any civil penalty payable under 33 U.S.C. 1365(a) and 1319(d). Accordingly, pursuant to a scheduling order to be issued by this Court after entry of this Consent Settlement, PPG’s liability for and the amount of the civil penalty, if any, to be imposed under the Clean Water Act will be litigated by the Parties. Such litigation may include PPG and Plaintiffs filing motions seeking summary judgment on the issues related to civil penalty liability in this case.

IX. LITIGATION COSTS

29. The Parties have been unable to resolve their dispute regarding the amount of litigation costs, if any, payable to Plaintiffs and their counsel pursuant to 33 U.S.C. 1365(d) and 42 U.S.C. 6972(e). Plaintiffs do not concede that resolution of the issues related to civil penalties under the Clean Water Act are a prerequisite to the award of litigation costs to them under applicable law. However, in order to allow for the efficient resolution by the Court of the outstanding disputes between the parties, Plaintiffs shall file their application for an award of litigation costs only after final resolution of all civil penalty issues under paragraph 28 above, has been completed through all available levels of judicial review. Plaintiffs' time for filing such application is extended until sixty (60) days after such final resolution. Provided, however, that Plaintiffs have the option of seeking an award of the portion of their litigation costs unrelated to the civil penalty issues at any time, but no earlier than one (1) year after the entry of this Consent Settlement.

X. GENERAL PROVISIONS

30. All correspondence with and documentation due to Plaintiffs under this Consent Settlement shall reference this litigation and shall be sent via electronic and first-class mail to:

PennEnvironment
c/o David Masur
1831 Murray Ave., Ste. 216
Pittsburgh, PA 15217
E-mail: david@pennenvironment.org

Sierra Club, Pennsylvania Chapter
c/o Chapter Director
PO Box 606
Harrisburg, PA 17108
E-mail: pennsylvania.chapter@sierraclub.org

A copy of all correspondence with and documentation due to Plaintiffs under this Consent Settlement shall reference this litigation and shall be sent via electronic and first-class mail to:

Carolyn Smith Pravlik
Nicholas Soares
Terris, Pravlik & Millian, LLP
1816 12th Street NW, Suite 303

Washington, DC 20009
E-mail: cpravlik@tpmlaw.com
E-mail: nsoares@tpmlaw.com

Plaintiffs shall notify PPG and its counsel whenever there is a change in this contact information. Such notice shall be sent via electronic and first-class mail to:

Mark Terril
Corporate Director Environmental Affairs PPG Industries, Inc.
1 PPG Place
Pittsburgh, PA 15272
Phone: 412-434-2708
E-mail: terril@ppg.com

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Two Gateway Center
Pittsburgh, PA 15222
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31. This Consent Settlement shall be binding upon and shall inure to the benefit of the successors, assigns, heirs, corporate parents, subsidiaries, and affiliates of each Party. No assignment or delegation of the obligations hereunder shall release the assigning Party from its obligations under this Consent Settlement.

32. The Court shall retain jurisdiction over the matters addressed in this Consent Settlement for purposes of enabling the Parties to apply to the Court for any further order as may be necessary to construe, carry out, or enforce the terms of this Consent Settlement.

33. Upon entry of this Consent Settlement, Ford City and the Railroad shall be dismissed from this action, subject to being re-joined by motion, individually or collectively, for proceedings under paragraph 32 of this Consent Settlement.

34. Questions regarding the interpretation of this Consent Settlement shall not be resolved against any Party on the ground that this Consent Settlement has been drafted by that Party. This Consent Settlement is the result of review, negotiation, and compromise by each Party.

35. The undersigned representative for each Party represents, certifies, and warrants that he or she is duly authorized by the Party whom he or she represents to enter into the terms of this Consent Settlement and bind such Party legally to this Consent Settlement.

36. This Consent Settlement may be modified by mutual agreement of the Parties but such agreement must be in writing, duly and properly signed by all Parties, and shall be submitted to the Court for approval.

37. This Consent Settlement contains the entire agreement between the Parties relating to the subject matters addressed herein and supersedes all prior written and oral agreements and understandings between the Parties. Each Party expressly acknowledges and represents that in entering into this Consent Settlement, it is not relying upon any statement, representation, agreement or understanding that is not contained in this Consent Settlement.

Consented to and approved for entry:

/s/ Carolyn Smith Pravlik

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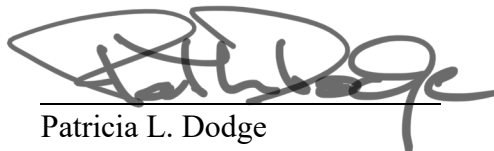
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*Counsel for Defendant Borough of Ford
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APPROVED AND ENTERED as an Order of the Court, this 26 day of March

2021.

A handwritten signature in black ink, appearing to read "Patricia L. Dodge", written over a horizontal line.

Patricia L. Dodge
United States Magistrate Judge

APPENDICES

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¹Appendix 2 to the Consent Order Settling Injunctive Relief Claims and Reserving Other Claims for Future Adjudication is the First Amendment to the Consent Order and Agreement between PPG and the Pennsylvania Department of Environmental Protection. The attachments to the First Amendment have not been included with Appendix 2 because they are the same documents as Appendices 3 through 10 of the Consent Order Settling Injunctive Relief Claims and Reserving Other Claims for Future Adjudication. This table of contents to the appendices shows which appendices are the attachments to the First Amendment.

APPENDIX 1

EXHIBIT A

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

In the Matter of:

PPG Industries, Inc.	:	
Ford City Disposal Site	:	The Clean Streams Law
Slurry Lagoon Area	:	Solid Waste Management Act
Solid Waste Disposal Area and Annex	:	Land Recycling Act
Cadogan and North Buffalo Townships	:	
Armstrong County, PA	:	

CONSENT ORDER AND AGREEMENT

This Consent Order and Agreement is entered into this 2nd day of April 2019, by and between the Commonwealth of Pennsylvania, Department of Environmental Protection (“Department”) and PPG Industries, Inc. (“PPG”).

FINDINGS

The Department has found and determined the following:

Authority

A. The Department is the agency with the duty and authority to administer and enforce The Clean Streams Law, Act of June 22, 1937, P.L. 1987, *as amended*, 35 P.S. §§ 691.1 – 691.1001 (“The Clean Streams Law”); the Solid Waste Management Act, Act of July 7, 1980, P.L. 380, *as amended*, 35 P.S. §§ 6018.101 – 6018.1003; the Land Recycling and Environmental Remediation Standards Act, Act of May 19, 1995, P.L. 4, No. 1995-2, 35 P.S. §§ 6026.101 – 6026.909 (“Act 2”); Section 1917-A of the Administrative Code of 1929, Act of April 9, 1929, P.L. 177, *as amended*, 71 P.S. § 510-17; and the rules and regulations promulgated thereunder. Pursuant to a delegation from the United States Environmental Protection Agency (“EPA”), the Department also administers and is the primary enforcement

authority for the National Pollutant Discharge Elimination System (“NPDES”) Program of the Federal Water Pollution Control Act, 33 U.S.C. § 1342 (also known as the Clean Water Act “CWA”). Pursuant to formal authorization by EPA and a Memorandum of Understanding, the Department also administers and is the primary enforcement authority for the Resource Conservation and Recovery Act (“RCRA”), 42 U.S.C. § 6901 *et seq.*, and has agreed to ensure that all response activities conducted under Act 2 protect human health and the environment and comply with all applicable Federal law, including RCRA

Background

B. PPG is a Pennsylvania corporation with a mailing address of One PPG Place, Pittsburgh, PA 15272.

C. The subject site (“Site”) is located in North Buffalo and Cadogan Townships, Armstrong County, Pennsylvania and includes two historic former nonhazardous waste material disposal areas referred to as the Slurry Lagoon Area (“SLA”) and the Solid Waste Disposal Area (“SWDA”). The Site is bordered by Route 128 to the north; the railroad tracks of the Buffalo & Pittsburgh Railroad, Inc. to the south; Glade Run, a tributary of the Allegheny River, to the west; and, partially to the east, by a rural residential property.

D. The SLA, which is approximately 77 acres in size, is bordered on the north by Route 128, on the south by the property of the Buffalo & Pittsburgh Railroad, Inc., on the west by Glade Run, and on the east by a north-to-south feature that PPG terms the “Drainage Ditch.” From approximately 1900 to 1927, PPG operated a sand and sandstone quarry in the SLA area for its glass manufacturing plant located in Ford City, PA. From approximately 1953 to 1970, PPG disposed of grinding and polishing slurry generated by its plate glass manufacturing process in the SLA pursuant to waste disposal permits granted by the Department’s predecessor. The

SLA was closed in 1970 and soon thereafter was covered by a layer of topsoil, and vegetation was established by planting grass seed.

E. The Site also consists of the SWDA, which is approximately 15 acres, and an area known as the SWDA Annex, which is approximately 3 acres, that are bordered on the north by the Eljer Landfill and ballfields, on the south by the railroad tracks of the Buffalo & Pittsburgh Railroad, Inc., on the west by a north-to-south drainage ditch, and on the east by rural residential property. From approximately the 1920s to 1967, PPG disposed of solid waste materials, including but not limited to off-spec glass materials, batch materials, cullet, paper, bricks, municipal trash, empty containers, and construction debris at the SWDA. PPG received a waste disposal permit for this area from the predecessor to the Department. The SWDA Annex contains cullet, some of which may have been intentionally placed as fill material. Portions of the SWDA are currently fenced and heavily vegetated.

Site Regulatory and Enforcement History

F. On January 4, 1950, the Commonwealth of Pennsylvania's Department of Health issued an Industrial Waste Permit #1302 to PPG for treatment of wastes at PPG's glass factory in Ford City, which included the disposal of the grinding and polishing slurry in the SLA.

G. On June 1, 1967, the Commonwealth of Pennsylvania's Department of Mines and Mineral Industries issued to PPG Waste Disposal Permit No. WD-698, for PPG's disposal of slurry material at the Site. This permit was renewed on May 27, 1968 and expired on May 31, 1970.

H. On June 1, 1967, the Commonwealth of Pennsylvania's Department of Mines and Mineral Industries issued to PPG Waste Disposal Permit No. WD-697, for disposal of wood,

paper, ashes, and broken glass at the Site. This permit was renewed on May 22, 1969 and on July 16, 1970 and thereafter expired on May 31, 1971.

I. On March 8, 1971, PPG and the Commonwealth of Pennsylvania, Department of Environmental Resources (“DER”), predecessor agency to the Department, entered into an Agreement and Stipulation (“Agreement and Stipulation”) regarding the discharge of leachate/impacted seeps from the Site into the Allegheny River. In the Agreement and Stipulation, DER determined that PPG was discharging industrial wastes from the Site to the Allegheny River, in violation of The Clean Streams Law and its regulations.

J. Pursuant to the Agreement and Stipulation, PPG was required to undertake and perform the following obligations:

- i. Immediately undertake a study of the problems created by the continuing discharge of industrial wastes from various points at the Site;
- ii. Complete the study on or before July 31, 1971; and
- iii. Submit a written plan to the Department on or before August 31, 1971, either to eliminate the continuing discharges from the Site or to treat those discharges in perpetuity.

In addition to these corrective actions, PPG paid a civil penalty of \$250.00, with a stipulated penalty of \$750.00 to be imposed should PPG fail to carry out the study and written plan.

K. On August 30, 1971, PPG submitted the results of its study and written plan for the leachate/impacted seep discharges from the Site in response to the Agreement and Stipulation. The study and written plan presented and discussed the feasibility of various remedial alternatives with respect to potential elimination or collection and treatment of leachate/impacted seep discharges from the Site.

L. On July 14, 1972, PPG submitted an Industrial Waste Application to DER for the leachate/impacted seep discharges from the Site.

M. In October 1972, the Site was quit-claimed from PPG to the Borough of Ford City ("Ford City"). Ford City is a Pennsylvania municipality with a mailing address of 1000 4th Avenue, Ford City, PA 16226.

N. On or about March 29, 1973, DER recommended that PPG withdraw its Industrial Waste Application for the leachate/impacted seeps from the Site. On April 9, 1973, PPG requested that its Industrial Waste Application be withdrawn because the Site was sold.

O. On or about May 16, 1973, DER returned, with conditions, PPG's Industrial Waste Application to address untreated discharges of leachate/impacted seeps from inactive waste disposal lagoons. Among the conditions imposed by the Department was a requirement that PPG submit an updated composite analysis of the leachate/impacted seeps discharged from the Site, and provide notice to Ford City, and an allowance that DER may, at some future date, require PPG to submit an application for the collection and treatment of the leachate/impacted seeps. PPG provided the composite analysis to DER on June 15, 1973 and also provided notice to Ford City.

P. In 1984, DER conducted inspections and sampling of the Site in response to a citizen's complaint related to leachate/impacted seep discharges from the Site. On or about October 7, 1984, DER submitted a Preliminary Assessment Report regarding the Site to EPA. Thereafter, in October 1984, EPA identified the Site as a potential hazardous waste site and placed it in the Federal Superfund Program for assessment.

Q. After EPA performed a Preliminary Assessment in December 1984, it determined that a Site Investigation was necessary, yet that the prioritization at the Site was low, given the conditions at the time.

R. In 1991, EPA conducted a Site Inspection of the Site. EPA's report indicated that a potential risk for direct human contact existed at the Site. However, EPA did not place the Site on the National Priorities List (NPL) under the Federal Superfund Program.

S. On or about February 21, 1992, the Department issued a Notice of Violation ("1992 NOV") under The Clean Streams Law and Pennsylvania's Solid Waste Management Act to PPG regarding the Site. The 1992 NOV stated that "PPG has, through past disposal practices, disposed of waste materials onto the ground and into waters of the Commonwealth, contrary to the Rules and Regulations of the Department." The 1992 NOV was based on EPA's 1991 Site Inspection of the Site.

T. PPG responded to the 1992 NOV by a letter dated April 27, 1992, wherein PPG volunteered to conduct a comprehensive field sampling/assessment program for the Site. By letter dated May 13, 1992, the Department stated that it would like to become involved in PPG's field sampling and assessment program and recommended that the program be performed in accordance with EPA's "Guidance for Conducting Remedial Investigations and Feasibility Studies under CERCLA", to which PPG agreed.

U. In June 1992, PPG submitted a Data Report on the Site to the Department. This report indicated that detectable levels of arsenic, lead, aluminum, chromium, copper, zinc, antimony, barium, beryllium, vanadium, manganese, and magnesium were found in the SLA soil. Detectable levels of lead, arsenic, and aluminum were also found in surface water associated with the SLA slurry lagoons. Detectable levels of arsenic, lead, cadmium, chromium,

manganese, copper, zinc, mercury, antimony, barium, beryllium, iron, vanadium, aluminum, and semi-volatile organic compounds were noted in the SWDA soils, and a SWDA surface water sample detected arsenic.

V. In October 1993, PPG submitted a report to the Department titled "Remedial Investigation for the PPG Ford City Site" ("RI Report"). The RI Report presented the sampling results for soils, surface water, sediments, and groundwater at the Site. According to the Department, the RI Report indicated elevated levels of aluminum, arsenic, copper, iron, and lead in surface water and sediment at the SLA.

W. In June 1994, the Department and PPG split surface water and sediment samples, while the Department conducted benthic macroinvertebrate stream surveys of streams and seeps related to the SLA. According to the Department, the data indicated that there are elevated pH, arsenic, and lead levels in surface water and sediment. The benthic macroinvertebrate data indicated to the Department that leachate/impacted seeps from the SLA was having an adverse impact on stream water quality and aquatic life.

X. In October 1994, PPG submitted a report titled "Addendum to the Remedial Investigation for the PPG Ford City Site" that incorporated the June 1994 sampling data.

Y. In June 1995, PPG submitted a report titled "Feasibility Study for the PPG Ford City Site" that evaluated the feasibility of various remedial actions and based on the evaluation recommended remedial actions to address potential human and ecological risk at the Site. As follow-up to this report, the Department proposed alternative remedial actions related to the leachate/impacted seep discharges from the Site and PPG conducted additional studies and investigations of the Site at the Department's request.

Z. With concurrence from the Department, PPG voluntarily implemented control measures at the Site to address access restrictions, site restoration, and stabilization as summarized in a letter to the Department, dated December 15, 1998. These measures included installing a locked fence to prevent access to the SWDA and the leachate/impacted seeps from the SLA, placement of additional soil and vegetative cover across the SLA, and stabilization of localized erosion at the western slope of the SLA.

AA. On or about May 16, 2001, PPG submitted a Notice of Intent to Remediate (“NIR”) the Site under the Department’s Act 2 program. PPG provided a copy of the NIR to Ford City, North Buffalo Township, and Cadogan Township by certified mail on May 16, 2001 and informed these municipalities of a 30-day period to file comments with the Department, including an opportunity to request that PPG develop a formal public involvement program. None of the municipalities filed any comments with the Department or requested a formal public involvement plan. PPG additionally published legal notice of the NIR in the Kittanning Leader Times and the Valley News Dispatch on May 21, 2001. PPG subsequently submitted a Remedial Investigation Report and Remedial Investigation Report Addendum 1.0, which determined that there were no unacceptable risks associated with the SLA soils. The Department approved the Remedial Investigation Report and Remedial Investigation Report Addendum 1.0 for the SLA soils on or about October 19, 2001.

BB. PPG also submitted a Cleanup Plan under Act 2 that proposed a phytocover and seepage/storm water management remediation approach to address the discharges of leachate/impacted seeps from the SLA in September 2001. The September 2001 Cleanup Plan was never formally approved by the Department.

CC. In order to implement the proposed remediation approach in the September 2001 Cleanup Plan, PPG also submitted an NPDES Permit Application for Discharges Associated with Construction Activities to the Department in 2001. The Department issued a Temporary Discharge Approval to PPG on November 19, 2002 for short term point source discharges of storm water, groundwater or seeps that may occur during construction activities which contained effluent limits. In response, after discussions with the Department, PPG submitted an initial treatability study to the Department in January 2003 for review and comment for the purpose of re-establishing the effluent limits in Temporary Discharge Approval as consistent with practice at other remediation sites and, subsequently, requested additional information from the Department to conduct further treatability studies. PPG did not receive concurrence or comments from the Department on the submitted treatability study nor the requested additional information. The Temporary Discharge Approval expired on November 19, 2004.

DD. On October 1, 2002, Ford City executed a Declaration of Restrictive Covenants and Grant of Access Rights ("Declaration") that, among other things, granted to PPG and the Department access to the Site "to undertake such monitoring, investigation or remediation activities as may be required pursuant to applicable Environmental Laws." On October 28, 2002, Ford City recorded the Declaration with the Recorder of Deeds for Armstrong County.

EE. On or about March 9, 2009, the Department issued an Administrative Order ("2009 Order") to PPG, containing certain findings by the Department and imposing performance obligations. In the 2009 Order, *inter alia*, the Department determined that:

- i. The industrial waste discharges from the Site have a very high pH, contain metals and other toxic chemicals; constitute pollution; and continue unabated;

ii. The SLA is contaminated with hazardous substances, including antimony, arsenic, and lead;

iii. Precipitation, which infiltrates the SLA and SWDA at the Site, becomes contaminated with hazardous substances and then is discharged as “leachate” into the waters of the Commonwealth;

iv. The leachate discharges seep out of the SLA slurry lagoons and the SWDA at various locations at the Site and then flow or are conveyed into waters of the Commonwealth, including the Allegheny River and its tributary, Glade Run; and

v. These leachate discharges constitute industrial waste pursuant to Section 1 of The Clean Streams Law, 35 P.S. § 691.1, and pollutants as defined in 25 Pa. Code § 91.1. The discharges result in or may result in pollution of waters of the Commonwealth, in violation of Sections 401 and 402 of The Clean Streams Law, 35 P.S. §§ 691.401 and 691.402. Further, in violation of Sections 301 and 307 of The Clean Streams Law, 35 P.S. §§ 691.301 and 691.307, these leachate discharges into waters of the Commonwealth are not authorized by the rules and regulations of the Department, and PPG does not have a permit for the discharges from the Department.

FF. The 2009 Order required Performance Obligations of PPG, including, but not limited to the following:

i. Weekly monitoring and reporting of eighteen (18) identified seeps for flow, total suspended solids, oil and grease, iron, aluminum, lead, chromium, antimony, arsenic, and pH;

ii. Implementation of measures to secure the Site and interim abatement measures, until such time as the industrial waste discharges, leachate, and seeps are collected and

conveyed to an industrial waste treatment facility and the discharge from that facility is authorized by an NPDES permit; and

iii. Submission of a treatment plan and schedule within 90 days of the date of the 2009 Order, to collect and treat all industrial waste discharges, leachate, and seeps from the Site into the waters of the Commonwealth. The treatment plan shall identify the necessary NPDES permit(s) for the authorization of the discharges associated with the collection and treatment system, including a schedule for applying for the permits, which, after Department review and approval, would be incorporated as an obligation of the 2009 Order.

GG. In addition to submitting monitoring data and reporting requirements to the Department and implementing site security measures as required by the 2009 Order, PPG submitted an interim abatement plan (“Interim Abatement Plan”) to the Department on or about April 9, 2009. The Interim Abatement Plan proposed, *inter alia*, to directly neutralize high pH seep waters in the Drainage Ditch with a pH adjustment system; to both passively and actively treat the high pH seeps in the South Bench area through a pH adjustment system; and to provide pH mitigation through a series of passive and semi-passive approaches in the Western Slope Area of the Site. In addition, the Interim Abatement Plan provided for infrastructure improvements, the installation of various equipment, monitoring, and an implementation schedule.

HH. On or about April 9, 2009, the Department rejected PPG’s proposal, stating that it did not fulfill the requirements of the Administrative Order because the Interim Abatement Plan would utilize waters of the Commonwealth as a treatment option.

II. On or about May 26, 2009, PPG submitted an addendum to its Interim Abatement Plan (“Revised Interim Abatement Plan”) proposing to remove the base flow from the Drainage

Ditch and treat it on-site, along with the high pH seeps along the South Bench that were proposed to be collected and treated. The collected combined water from the base flow from the Drainage Ditch and the high pH seeps along the South Bench was proposed to be neutralized to a pH between 6 and 9 standard units (“S.U.”), and the treated water would then be discharged from a constructed outfall, Outfall 001.

JJ. On or about July 2, 2009, the Department approved the Revised Interim Abatement Plan. The Department’s approval of the Revised Interim Abatement Plan required PPG to monitor the discharge from the outfall (Outfall 001) of the interim abatement system for flow, suspended solids (TSS), oil and grease, aluminum, arsenic, iron, lead, chromium, antimony, pH and imposed effluent limits on the discharge for suspended solids, oil and grease, and pH.

KK. On or about September 11, 2009, PPG submitted the final construction design drawings of the interim abatement system under the approved Revised Interim Abatement Plan to the Department. PPG’s interim abatement system was operational on February 1, 2010. The interim abatement system consists of a collection system that collects and combines seep discharges and storm water runoff, directing the combined flow to the treatment system where, in a process called “neutralization,” sulfuric acid is added to reduce the flow’s pH to between 6.0 and 9.0 S.U. Additionally, PPG implemented all of the other aspects of the approved Revised Interim Abatement System, including the implementation of the passive treatment system to address and provide pH mitigation of the three seeps in the Western Slope area of the Site.

LL. On or about June 5, 2009, PPG submitted a Treatment Plan and Schedule to the Department under Performance Obligation D of the 2009 Order which proposed potential mitigation options for the collection and treatment of high pH seeps at the Site and a detailed

plan and schedule to evaluate the mitigation options. In anticipation of the Department's approval, PPG implemented the Treatment Plan and Schedule as proposed to the Department.

MM. The Department approved the Treatment Plan and Schedule on November 9, 2011 and directed PPG to implement the investigative items as identified in the plan as submitted. In this approval, the Department reiterated its position that under The Clean Streams Law and the federal Clean Water Act, PPG is responsible for collecting and treating all contaminated (*i.e.*, high pH) water that enters the surface waters of the Commonwealth from the Site.

NN. On or about December 17, 2012, PPG submitted a Treatment Plan Report for the Site ("Treatment Plan Report") which evaluated various remedial options for the collection and treatment of the high pH seeps at the Site and proposed an enhanced collection, conveyance, and treatment system as the permanent remedy for the high pH seeps at the Site.

OO. On or about March 27, 2013 and June 18, 2014, PennEnvironment and Sierra Club submitted comments on the Treatment Plan Report.

PP. On or about May 13, 2014, the Department provided PPG comments on the Treatment Plan Report.

QQ. On or about January 30, 2015, PPG submitted a revised Treatment Plan Report addressing the Department's comments ("Revised Treatment Plan Report"). The Revised Treatment Plan Report continued to propose an enhanced collection, conveyance, and treatment system (the "Enhanced Collection and Treatment System") as the permanent remedy for the high pH seeps at the Site.

RR. On or about March 5, 2015, the Department approved the Revised Treatment Plan Report and, thus, approved the Enhanced Collection and Treatment System as the permanent remedy for the high pH seeps. The Department's approval included four comments, all of which

PPG accepted on or about March 16, 2015. The approved permanent remedy for the high pH seeps and the transition from the Interim Abatement System to the Enhanced Collection and Treatment System is summarized as follows:

- i. Continued operation of the interim abatement system during the design, permitting, construction and start-up of the Enhanced Collection and Treatment System.
- ii. Update the technical evaluation of slope stability under loadings associated with the Enhanced Collection and Treatment System.
- iii. Installation of a leachate collection trench system along the interior of the SLA which will be designed to intercept leachate associated impacted high pH seepage and to convey the collected water to a new treatment facility.
- iv. Installation of a dedicated system to collect remote high pH seeps along the western perimeter of the SLA.
- v. Installation of a new treatment facility designed to treat influent from the new collection systems. The treatment processes will, at a minimum, include mixing and neutralization. The possible need for any other process steps will be identified based on the NPDES permit.
- vi. Installation of a new discharge line from the new treatment facility to the Allegheny River (Outfall 002).
- vii. Installation of surface and drainage improvements to reduce leachate generation.
- viii. Upon demonstration of operational efficacy for the Enhanced Collection and Treatment System, to the Department's satisfaction, the Interim Abatement System will be decommissioned.

SS. PPG has begun to implement aspects of the permanent remedy for the high pH seeps in the approved Revised Treatment Plan Report, namely:

i. In September 2015, PPG submitted a Revised Infiltration Reduction Plan that included surface and drainage improvements and improvements to vegetative cover, as requested by the Department, in order to reduce precipitation infiltration of water and leachate generation from surface areas of the SLA. On October 9, 2015, the Department approved PPG's Revised Infiltration Reduction Plan. PPG has implemented those aspects of the approved Revised Infiltration Reduction Plan that do not require separate permit approval, namely the improvements to the vegetative cover.

ii. On or about December 21, 2015, PPG submitted a Collection and Conveyance System – Interim Design report that included preliminary design for the Enhanced Collection and Treatment System selected as the permanent remedy for the high pH seeps in the Department-approved Revised Treatment Plan Report.

iii. On or about January 15, 2016, PPG submitted an updated Slope Stability Analysis Report to the Department.

iv. PPG prepared and submitted an Erosion and Sedimentation Control Plan and an application for an NPDES permit coverage for storm water discharges associated with the construction of the remedy as approved in the Revised Treatment Plan Report to the Department and the Armstrong County Conservation District on October 19, 2017. The Armstrong County Conservation District approved the Erosion and Sedimentation Control Plan on January 26, 2018. The NPDES Permit that the Department intends to issue for the Site as discussed in Paragraph EEE is intended to cover all storm water discharges associated with these construction activities.

v. On or about November 14, 2017, PPG submitted a Joint Permit Application (“JPA”) to the Department and the U.S. Army Corps of Engineers seeking permit coverage for its earth disturbance activities and encroachments to wetlands and waterways associated with the construction and installation of the leachate collection system along the interior of the SLA, the dedicated system to collect remote high pH seeps along the western perimeter of the SLA, the new treatment facility, the new discharge line and Outfall 002 in the Allegheny River, and certain surface and drainage improvements in the approved Revised Infiltration Reduction Plan. PPG cannot begin construction of the remedy as approved in the Revised Treatment Plan Report until both the Department and the U.S. Army Corps of Engineers grant the permit coverage requested under the JPA. PPG has been diligently responding to comments and providing additional information that has been requested by the Department to evaluate the JPA.

TT. As part of the implementation of the Department-approved permanent remedy for the high pH seeps, on or about March 31, 2015, PPG also submitted an NPDES permit application for the industrial waste discharges at the Site.

UU. At the request of the Department, on or about February 22, 2016, PPG submitted data for seepage areas and monitoring wells associated with the SWDA. On or about April 15, 2016, at the request of the Department, PPG submitted additional data for seepage areas associated with the SWDA and a revision to the NPDES permit application to incorporate the SWDA seepage area data and include the SWDA seepage areas as outfall locations.

VV. On or about June 4, 2016, the Department published the draft NPDES permit for the Site in the *Pennsylvania Bulletin*, 46 Pa.B. 2861, 2875-77, (“Draft NPDES Permit”). By separate correspondence of July 19, 2016, PPG, PennEnvironment, and Sierra Club submitted

comments on the Draft NPDES Permit. On August 19, 2016, PennEnvironment and Sierra Club submitted a follow-up to their comments that withdrew their request for a public hearing.

WW. On or about March 9, 2017, the Department approved a request from PPG to modify certain monitoring and reporting provisions of the 2009 Order.

XX. On or about January 23, 2018, pursuant to Act 2, PPG submitted to the Department, a Remedial Investigation Report, Human Health Risk Assessment, Ecological Risk Assessment, and Cleanup Plan for the Site. The Cleanup Plan incorporated the approved permanent remedy as approved in the Revised Treatment Plan Report, including the remedy for the high pH seeps, and the approved 2001 Remedial Investigation for the SLA, and proposed a remedy to address any remaining risks to human health or the environment at the Site from groundwater at the Site and soils at the SWDA and SWDA annex. PPG provided notice of these submissions to Ford City, North Buffalo Township, and Cadogan Township by certified mail on January 18, 2018 and published legal notice in *The Kittanning Paper* on January 22, 2018.

YY. On or about May 4, 2018, the Department issued a Technical Deficiency Letter to PPG for the Remedial Investigation Report, Human Health Risk Assessment, Ecological Risk Assessment, and Cleanup Plan.

ZZ. On or about June 8, 2018, PPG submitted a revised Remedial Investigation Report, Human Health Risk Assessment, Ecological Risk Assessment, and Cleanup Plan, addressing the Department's comments contained in the Technical Deficiency Letter.

AAA. On or about September 29, 2018, in response to comments received on the Draft NPDES Permit, the Department published a revised draft NPDES permit for the Site in the *Pennsylvania Bulletin*, 48 Pa.B. 6281, 6287-90. By separate correspondence of October 29,

2018, PPG, PennEnvironment, and Sierra Club submitted comments on the revised draft NPDES Permit.

BBB. From 2013 through 2018, PennEnvironment and Sierra Club have submitted numerous comments and objections to the Department regarding the Site. These comments and objections are included in, but are not limited to, written letters that PennEnvironment and Sierra Club sent to the Department on or about March 27, 2013, June 18, 2014, October 20, 2014, and March 20, 2015 regarding PPG's Treatment Plan Report/Revised Treatment Plan Report; written letters sent to the Department on or about February 18, 2016, April 8, 2016, and December 28, 2017 regarding PPG's NPDES permit application; written letters sent to the Department on or about July 27, 2018 and October 11, 2018 regarding PPG's Act 2 Cleanup Plan; and various e-mails sent to the Department between 2013 and 2018. The Department has fully considered all comments and objections submitted by PennEnvironment and Sierra Club.

CCC. On or about October 10, 2018, pursuant to Act 2, the Department approved the revised Remedial Investigation Report, Human Health Risk Assessment, Ecological Risk Assessment, and Cleanup Plan (the "2018 Act 2 Cleanup Plan").

DDD. In approving the 2018 Act 2 Cleanup Plan, which includes the approved permanent remedy in the Revised Treatment Plan Report, the Department determined that the implementation of this plan will achieve a remediation of the Site to a level so that any substantial present or probable future risk to human health and the environment at or from the Site is eliminated or reduced to protective levels based upon the present or currently planned future use of the property comprising the Site that has been approved by the Department.

EEE. The Department intends to issue a final NPDES permit for the Site in the near term, following execution of this Consent Order and Agreement. This final NPDES permit for

the Site will authorize, in accordance with the terms and conditions of the final NPDES permit, discharges of leachate/seeps and storm water containing pollutants from the Site into waters of the United States and waters of the Commonwealth under The Clean Streams Law and the federal Clean Water Act.

Site Contamination and PPG's Liability

FFF. PPG's historical disposal of waste at the Site has caused or contributed to contamination of soils, sediments, seeps, groundwater, wetlands, surface waters, and other environmental media which may present a threat to human health or the environment and may present an imminent and substantial endangerment to human health or the environment.

GGG. The location and horizontal and vertical extent of environmental contamination resulting from PPG's historical disposal of waste at the Site described in Paragraph FFF has been assessed as documented in the following reports:

- "Remedial Investigation Report, Former PPG Slurry Lagoon Area/Solid Waste Disposal Area," Revised June 8, 2018, prepared by Woodard & Curran.
- Letter dated March 16, 2018 from Arcadis to Patrice Ashfield, U.S. Fish and Wildlife Service.
- "Revised Treatment Plan Report," dated January 30, 2015, prepared by CB&I Environmental & Infrastructure Inc.
- "Remedial Investigation Report, Former Slurry Lagoon Area," Addendum 1.0, dated September 2001, prepared by Key Environmental, Inc.
- "Remedial Investigation Report, Former Slurry Lagoon Area," dated July 31, 2001 prepared by Key Environmental, Inc.

- Key Environmental Inc. SWDA Surface Soil Sampling, dated June 2001, Key Environmental, Inc.
- Site-Wide Groundwater Investigation, dated 2001.
- "Report, Water Balance and Soil Sampling," dated August 11, 2000, prepared by Cummings/Riter Consultants, Inc.
- "Surface Water Monitoring Report, Ford City, Pennsylvania," prepared by Baker, dated October 9, 1997.
- "Feasibility Study for the PPG Ford City Site, Final Report," dated 1995, prepared by Baker.
- "Addendum to the Remedial Investigation for the PPG Ford City Site," dated October 1994, prepared by Baker.
- "Remedial Investigation Report for the PPG Ford City Site," Final Report, dated October 1993, prepared by Baker.
- Subsurface Soil Quality Reports, dated February and March 1993 by Dames & Moore.
- "Data Report, PPG Industries, Inc., Former Disposal Area," Ford City Pennsylvania, dated 1992, prepared by Dames & Moore.
- "Screening Site Inspection Report for PPG Glass Dump," Armstrong County, Pennsylvania, dated 1991, prepared by Ecology & Environment, Inc.
- Subsurface Investigation and study of Solid Waste Disposal Lagoon Leakage, dated 1971, prepared by D'Appolonia Consulting Engineers, Inc.
- Data submitted and referenced in the Progress Reports submitted by PPG to the Department under the 2009 Order.

- The NPDES permit application and revisions thereto.
- Inspections and sampling conducted by the Department at the Site.

The above reports describe all environmental contamination currently known by the Parties potentially resulting from PPG's historical disposal of waste at the Site ("Identified Contamination").

HHH. Leachate and/or seeps discharge at various locations at the Site and then runoff and migrate into waters of the Commonwealth and waters of the United States. These discharges can have a high pH of greater than 9.0 S.U. and contain pollutants as defined in Section 502 of the Clean Water Act, 33 U.S.C. § 1362 and 25 Pa. Code § 95.1 as a result of PPG's historical disposal of waste at the Site. PPG does not have a permit under The Clean Streams Law authority for these discharges.

III. The discharges described in Paragraph HHH constitute industrial waste and result in or may result in pollution of waters of the Commonwealth, which constitutes multiple violations of The Clean Streams Law and the Solid Waste Management Act, including a statutory nuisance and unlawful conduct under Sections 301, 307, 401, 402 and 611 of The Clean Streams Law, 35 P.S. §§ 691.301, 691.307, 691.401, 691.402 and 691.611, and Sections 601 and 610 of the Solid Waste Management Act, 35 P.S. §§ 6018.601 and 6018.610, and subject PPG to civil penalty liability under Section 605 of The Clean Streams Law, 35 P.S. § 691.605, and Section 605 of the Solid Waste Management Act, 35 P.S. § 6018.605.

JJJ. On or about January 13, 2012 and June 3, 2013, PennEnvironment and Sierra Club sent a copy of a Notice of Intent to Sue for the Site for PPG's alleged liability under RCRA, the federal Clean Water Act ("CWA"), and The Clean Streams Law ("CSL"). PennEnvironment and Sierra Club filed various citizen suit claims against PPG in the Federal District Court for the

Western District of Pennsylvania in Plaintiffs' First CWA/CSL Complaint (Civ. No. 2:12-cv-00342, as amended ECF No. 90); Plaintiffs' First RCRA Complaint (Civ. No. 2:12-cv-00342, as amended ECF No. 91); Plaintiffs' Second CWA/CSL Complaint (Civ. No. 2:13-cv-01395); and Plaintiffs' Second RCRA Complaint (Civ. No. 2:13-cv-01396; ECF No. 1). In addition to alleging liability under Section 7002(a)(1)(B) of RCRA, 42 U.S.C. § 6972(a)(1)(B), for conditions described in Paragraph FFF and liability under Sections 301(a) and 402 of the federal Clean Water Act, 33 U.S.C. § 1311(a) and 1342, and Sections 301 and 307 of the Clean Streams Law, 35 P.S. §§ 691.301, 691.307, for the conditions described in Paragraph HHH, PennEnvironment and Sierra Club also generally alleged the following violations and resulting liability of PPG in the Notices of Intent to Sue and filed Complaints:

i. The discharge from Outfall 001 of the Interim Abatement System and the leachate and/or seeps that discharge at various locations at the Site violate Sections 301(a) and 402 of the Clean Water Act, 33 U.S.C. §§ 1311(a) and 1342, by discharging pollutants into waters of the United States without an NPDES permit issued pursuant to the Clean Water Act authorizing such discharges.

ii. The storm water discharges from the Site violate Sections 301(a) and 402(p) of the Clean Water Act, 33 U.S.C. §§ 1311(a) and 1342(p), because they are discharges of storm water associated with industrial activity into waters of the United States without an NPDES permit issued pursuant to the Clean Water Act authorizing such discharges.

iii. Violations of the 2009 Order including: failure of the June 2009 Treatment Plant to provide a schedule for application of an NPDES permit for the Site; failure to treat all leachate and/or seeps that discharge at various locations at the Site for pH as part of the interim abatement system; exceedances of effluent limitations for total dissolved solids (TSS) at

Outfall 001 contained in the Department's July 2, 2009 approval of the Revised Interim Abatement Plan; and various violations of the 2009 Order and the Department's July 2, 2009 approval of the Revised Interim Abatement Plan resulting from the failure of the interim abatement system to avoid collection and treatment of uncontaminated storm water runoff; all of which result in violations of an Order issued by the Department with respect to an effluent standard or limitation under the Clean Water Act and Section 601(c) of the Clean Streams Law, 35 P.S. § 691.601.

KKK. The acts and violations described in Paragraphs in FFF – JJJ also subject PPG to civil penalty liability under Section 605 of The Clean Streams Law, 35 P.S. § 691.605, Section 605 of the Solid Waste Management Act, 35 P.S. § 6018.605, and the federal Clean Water Act.

LLL. Pursuant to the Department's authority under the Solid Waste Management Act and the Clean Streams Law, the Department has determined that, based on the acts and violations described in Paragraphs in FFF – JJJ, PPG is required to obtain an NPDES permit from the Department for the leachate, seeps, storm water, and Outfall 001 discharges at various locations at the Site and that PPG is required to remedy the Identified Contamination at or from the Site in accordance with Act 2 cleanup standards, which is achieved through PPG's implementation of the Department-approved Act 2 Cleanup Plan, including the Department-approved Revised Treatment Plan Report.

Settlement

MMM. The Department and PPG have engaged in extensive negotiation over settlement of various enforcement issues concerning the contamination resulting from PPG's historic disposal of waste at the Site. By entering into this Consent Order and Agreement, PPG and the Department desire to fully and finally resolve the items identified in Paragraph NNN, below.

NNN. To avoid litigation, to resolve the items set forth above in Paragraphs FFF through LLL, and as complete and final settlement of any known claims, demands, penalties, and/or sanctions of any type that the Department has made or could have made against PPG relating to the items set forth in Paragraphs FFF through LLL relating to the Site, including, but not limited to, any known claims, demands, penalties, and/or sanctions under The Clean Streams Law, the Solid Waste Management Act, the federal Clean Water Act, Section 7002(a)(1)(B) of RCRA, 42 U.S.C. § 6972(a)(1)(B), and other environmental laws relating to the Site, PPG, in accordance with the requirements below, shall: (a) implement the Department-approved Act 2 Cleanup Plan, including implement the Department-approved Revised Treatment Plan Report; (b) fully comply with a Department-issued NPDES permit; and (c) pay a civil penalty commensurate with its longstanding violations of The Clean Streams Law, the federal Clean Water Act, the Solid Waste Management Act and other applicable law.

ORDER

NOW THEREFORE, after full and complete negotiation of all matters set forth in this Consent Order and Agreement, and upon mutual exchange of the covenants contained herein, the Parties intending to be legally bound, it is hereby ORDERED by the Department, and AGREED to by PPG and the Department, as follows:

1. This Consent Order and Agreement is an Order of the Department authorized and issued pursuant to Sections 5, 316, 402, and 610 of The Clean Streams Law, 35 P.S. §§ 691.5, 691.316, 691.402, and 619.610; Sections 104 and 602 of the Solid Waste Management Act, 35 P.S. §§ 6018.104 and 6018.602; Section 104(b) of the Land Recycling Act, 35 P.S. § 6026.104(b); and Section 1917-A of the Administrative Code, 71 P.S. § 510-17. The failure of

PPG to comply with any term or condition of this Consent Order and Agreement shall subject PPG to all penalties and remedies provided under applicable law.

2. The Performance Obligations of the 2009 Order are superseded by this Consent Order and Agreement, except that PPG shall continue implementation of interim abatement measures until such time as the Site's industrial waste discharges, leachate, and high pH seeps are fully collected and conveyed to an industrial waste treatment facility, so that there is no longer industrial waste being conveyed to the interim abatement system, and the discharge from that facility has been authorized by an NPDES Permit.

COMPLIANCE OBLIGATIONS:

I. PPG IMPLEMENTATION OF THE SWDA/SWDA ANNEX PORTION OF THE ACT 2 CLEANUP PLAN

3. PPG shall implement the SWDA/SWDA Annex portion of the Department-approved Act 2 Cleanup Plan submitted by PPG pursuant to Act 2, according to the following schedule:

a. Within ninety (90) days of the execution of this Consent Order and Agreement, PPG shall complete any remaining investigation activities at the SWDA/SWDA Annex included in the Cleanup Plan, including complete reconnaissance of the SWDA/SWDA Annex for slope stability assessment and complete delineation sampling for arsenic;

b. Within ten (10) days completion of the remaining investigation activities required by Paragraph 3.a, PPG shall request a pre-application permit meeting with the Department. Within ninety (90) days of having the pre-application meeting with the Department, PPG shall submit full and complete applications for all permits necessary to complete the remedial tasks included in the Cleanup Plan at the SWDA/SWDA Annex, and shall correct all

deficiencies, except those deficiencies requesting information and approvals from other agencies, noted by the Department within the time frame set forth in the Department's notice of deficiency;

c. Within two-hundred seventy (270) days of receiving all permits and approvals needed to complete a remedial task included in the Cleanup Plan at the SWDA/SWDA Annex, PPG shall initiate the remedial task for which the permits and approvals have been issued.

II. PPG IMPLEMENTATION OF THE REVISED TREATMENT PLAN REPORT PORTION OF THE ACT 2 CLEANUP PLAN

4. PPG shall implement the approved Revised Treatment Plan Report portion of the Department-approved Act 2 Cleanup Plan, according to the following schedule:

a. Within ninety (90) days of the Department's issuance of the NPDES permit for the Site, PPG shall submit full and complete applications for all permits necessary to install all components of the Leachate Collection and Conveyance system as described in the Collection and Conveyance System – Interim Design report;

b. Within ninety (90) days of the issuance of the NPDES permit for the Site, PPG shall submit full and complete applications for all permits necessary to install and operate the treatment system and outfall necessary to comply with the NPDES permit, and shall correct all deficiencies, except those deficiencies requesting information and approvals from other agencies, within the time frame set forth in the Department's notice of deficiency. For the deficiencies that require information and/or approvals from other agencies, PPG shall work diligently with those agencies to obtain their approvals.

c. Within one year of receiving all necessary permits, approvals, and authorizations to install the leachate collection and conveyance system and install and operate the treatment system, including the installation of Outfall 002 in the Allegheny River, PPG shall complete installation and begin, and thereafter continue, operation of the leachate collection and conveyance and treatment systems.

d. PPG shall provide written notification of the startup of the leachate collection and conveyance and treatment systems to the Department within five (5) days of the startup of the leachate collection and conveyance and treatment systems.

III. PPG COMPLIANCE WITH NPDES PERMIT

5. The Department and PPG have attached hereto as Exhibit A the proposed NPDES Permit (“Draft Permit”). The Draft Permit, when finalized, is expected to contain either the identical proposed effluent limitations for all the outfalls at the Site, or effluent limitations which are less stringent than those proposed in Exhibit A. Having already submitted the Draft Permit for publication in the *Pennsylvania Bulletin* on September 29, 2018 and having considered all the public comments received, the Department plans to issue a final Permit (“Final NPDES Permit”), the effluent limitations, terms, and conditions of which may differ from Exhibit A.

a. PPG waives its right to appeal the effluent limitations, terms, and conditions of the Final NPDES Permit, so long as the effluent limitations, terms, and conditions of the Final NPDES Permit are the same or less stringent than those in Exhibit A.

b. If the Final NPDES Permit contains substantive changes to the effluent limitations or terms or conditions set forth in Exhibit A, PPG may only appeal those changes. Even if there are substantive changes, PPG waives its rights to appeal those effluent limitations, terms, and conditions that are the same or less stringent than those in Exhibit A.

c. It is understood by the Parties that the Final NPDES Permit may differ in certain administrative, non-substantive ways from Exhibit A. These differences may include, but are not limited to, changes in pagination and condition numbers. Such changes are not intended to affect the meaning or effect of the Final NPDES Permit or this Consent Order and Agreement.

6. Except as provided herein, PPG shall comply fully with all requirements of the Final NPDES Permit for the Site, once issued by the Department, including, but not limited to:

a. PPG shall sample all permitted Outfalls according to the frequency required by the permit and report the results to the Department as specified.

b. PPG shall conduct monthly reconnaissance of the Site to identify and sample any unpermitted discharges. PPG shall provide written notice to the Department within five (5) days of documenting an unpermitted discharge. PPG shall submit a full and complete application to amend the Final NPDES Permit to include the unpermitted discharge within ninety (90) days of documenting an unpermitted discharge.

c. Beginning nine (9) months after startup of the leachate collection and conveyance and treatment systems and continuing until the termination of this Consent Order and Agreement, PPG shall submit a plan and schedule to collect and treat the discharge from any Outfall that exceeds any final effluent limitation in the Final NPDES Permit ("Outfall Compliance Plan"). PPG shall submit all required Outfall Compliance Plans for Department review and approval within forty-five (45) days of submitting a Discharge Monitoring Report ("DMR") with an exceedance.

d. Upon Department approval of an Outfall Compliance Plan, PPG shall implement the approved plan as modified by the Department.

e. PPG shall comply with the approved Erosion and Sedimentation Control Plan, as and when applicable, and shall implement best management practices to minimize storm water contamination and the migration of waste material off site.

f. PPG shall submit a permit renewal application 180 days prior to the expiration of all future NPDES industrial discharge permits.

IV. ACT 2 FINAL REPORT

7. Within one hundred eighty (180) days of its completion of the Act 2 Cleanup Plan, and attainment of the performance standards therein, including full implementation of the leachate collection and conveyance and treatment systems, PPG shall submit to the Department a Final Report (“Final Report”) pursuant to Act 2. The Final Report shall comply in full with Act 2 and its regulations and include the following:

a. A draft environmental covenant, with PPG, the Railroad, and Ford City as signatories, that demonstrates present or intended compliance with Act 2; the NPDES permit; the content, notice, execution and recording requirements pursuant to the Uniform Environmental Covenants Act (“UECA”), 27 Pa. C.S. §§ 6501 – 6517, and Department regulations and policy promulgated thereunder.

b. A Post-Remediation Care Plan that will address any necessary operation and maintenance duties at the Site, including those related to engineering and institutional controls and a listing of any groundwater monitoring wells that will be maintained at the Site for future groundwater monitoring.

c. Within ninety (90) days of the Department’s approval of the Final Report, PPG shall properly abandon all groundwater monitoring wells at the Site that were not designated to remain in the Post-Remediation Care Plan.

d. Within thirty (30) days of the Department's approval of the draft Environmental Covenant, PPG shall submit three (3) fully executed and notarized Environmental Covenants to the Department for execution.

e. Within thirty (30) days of the Department's execution of the Environmental Covenant, PPG shall record the Environmental Covenant with the Recorder of Deeds for Armstrong County and provide the Department with a complete copy and proof of recordation.

V. PROGRESS REPORTS

8. PPG shall submit quarterly progress reports ("Progress Report") to the Department documenting its efforts to comply with its obligations of this Consent Order and Agreement. The Progress Reports shall be submitted to the Department by the last day of April, July, October, and January and sent to the Department consistent with Paragraph 34. The quarterly Progress Reports shall include, but are not limited to:

- a. a description of the actions that have been taken toward achieving compliance with this Consent Order and Agreement;
- b. a description of activities scheduled for the next quarter; and
- c. a description of problems or delays encountered or anticipated regarding performance of the activities required by this Consent Order and Agreement, and a description of all non-compliance or incidents of non-compliance with respect to the requirements of this Consent Order and Agreement.

VI. SITE ACCESS

9. Pursuant to the Declaration described in Paragraph DD, PPG shall take any action necessary to assure that Ford City, or any successor owner, transferee, or assign of the Site, gives PPG and the Department full access at all times to the Site, so that:

a. PPG is able to comply with its obligations under this Consent Order and Agreement, including, specifically, its obligations relative to the Cleanup Plan, the Revised Treatment Plan Report, and the NPDES permit, including, specifically, all operation and maintenance obligations thereunder; and

b. the Department, its employees, contractors, and agents are able to monitor the progress of activities taking place at the Site; verify any data or information submitted to the Department; conduct investigations relating to newly discovered contamination at or near the Site; obtain samples at the Site; inspect and copy records, operating logs, contracts, or other documents required to assess PPG's compliance with this Consent Order and Agreement; and conduct whatever further investigative or remedial actions the Department believes warranted under applicable law.

VII. PPG PAYMENT OF CIVIL PENALTY

10. In light of the violations described in Paragraphs FFF through NNN that the Department has assessed against PPG, and PPG has agreed to pay, a civil penalty of ONE MILLION AND TWO HUNDRED THOUSAND DOLLARS (\$1,200,000). This payment is in settlement of the Department's claim for civil penalties for violations of The Clean Streams Law, including the Department's delegated NPDES program authority under the federal Clean Water Act, and other applicable law, as described in Paragraphs FFF through NNN, occurring prior to

the entry of this Consent Order and Agreement in accordance with the applicable statute of limitations.

11. Within sixty (60) days of the Effective Date of this Consent Order and Agreement, PPG shall pay to the Department, in full, the assessed civil penalty of ONE MILLION AND TWO HUNDRED THOUSAND DOLLARS (\$1,200,000). PPG shall make its payment by corporate check or the like, made payable to the "Commonwealth of Pennsylvania," and sent to the Department consistent with Paragraph 34, or by wire transfer to the account number provided by the Department for deposit by the Department into the appropriate funds, as identified by the Department.

VIII. STIPULATED PENALTIES

12. In the event PPG fails to comply in a timely manner with any term or provision of this Consent Order and Agreement in Paragraphs 3 through 11, PPG shall be in violation of this Consent Order and Agreement and, in addition to other applicable remedies, shall pay to the Department a civil penalty in the amount determined under the following schedule:

- a. TWO HUNDRED DOLLARS (\$200.00) per day for each requirement PPG has failed to fulfill, for the first five (5) days of each violation;
- b. FIVE HUNDRED DOLLARS (\$500.00) per day for each requirement PPG has failed to fulfill, for days six (6) through twenty (20) of each violation; and
- c. ONE THOUSAND DOLLARS (\$1,000.00) per day for each requirement PPG has failed to fulfill, for each day following the twentieth (20th) day of each violation.

13. Beginning upon the issuance of the Final NPDES Permit and continuing until nine (9) months after startup of the leachate collection and conveyance and treatment systems, PPG shall pay a civil penalty for any month where PPG reports a DMR violation of monthly average

effluent limitations, daily maximum or minimum effluent limitations or instantaneous maximum or minimum effluent limitations at any outfall in the Final NPDES Permit. The amount of such stipulated penalty shall be as follows:

a. TWO THOUSAND FIVE HUNDRED (\$2,500.00) per month or partial month from the date of issuance of the Final NPDES Permit until the date PPG has received the last necessary permit, approval, and authorization to install the leachate collection conveyance system and install and operate the treatment system, including the installation of Outfall 002 in the Allegheny River.

b. THREE THOUSAND FIVE HUNDRED (\$3,500.00) per month or partial month from the date PPG has received the last necessary permit, approval, and authorization as described in Paragraph 13.a until the earlier of 12 months or the date of the startup of the leachate collection and conveyance and treatment systems, which will be provided in the notice submitted to the Department per Paragraph 4.d; and

c. FIVE THOUSAND (\$5,000.00) per month or partial month from the startup of the leachate collection and conveyance and treatment systems for nine (9) months.

14. Beginning nine (9) months after startup of the leachate collection and conveyance and treatment systems and continuing until termination of this Consent Order and Agreement, PPG shall pay a stipulated civil penalty of TWO THOUSAND DOLLARS (\$2,000.00) for each separate DMR violation of a monthly average effluent limitation in the Final NPDES Permit, FIVE HUNDRED DOLLARS (\$500.00) for each separate DMR violation of a daily maximum or minimum effluent limitation in the Final NPDES Permit, and TWO HUNDRED DOLLARS (\$200.00) for each separate DMR violation of an instantaneous maximum or minimum effluent limitation in the Final NPDES Permit.

15. Stipulated civil penalties shall be due automatically and without notice from the Department on or before the fifteenth day of each succeeding month for stipulated penalties due under Paragraph 12 and within fifteen (15) days after submitting a DMR that results in stipulated penalties due under Paragraphs 13 and 14. Submitted with penalty payments due under Paragraphs 12 and 14 shall be a report that references the Site and includes a detailed description, in a spreadsheet format, setting forth the type and number of violations and the stipulated penalty amount of each violation. All penalty payments shall reference the Site and shall be made by corporate check or the like, made payable to the "Commonwealth of Pennsylvania," and sent to the Department in accordance with Paragraph 34, or sent by wire transfer to the account number provided by the Department for deposit by the Department into the appropriate special funds, as identified by the Department.

16. Payment of any penalty under this Consent Order and Agreement shall neither waive PPG's duty to meet its obligations under this Consent Order and Agreement nor preclude the Department from commencing an action to compel PPG's compliance with the terms and conditions of this Consent Order and Agreement. The payment resolves only PPG's liability for civil penalties arising from the violation of this Consent Order and Agreement for which the payment is made.

17. If the Department brings legal action against PPG to collect any stipulated penalty due under this Consent Order and Agreement, PPG shall reimburse the Department for reasonable costs and expenses of such action, including but not limited to Department personnel costs and attorney's fees.

IX. COVENANT NOT TO SUE BY THE DEPARTMENT

18. Upon the Parties' execution of this Consent Order and Agreement, subject to Paragraphs 19 through 23, and only so long as PPG is in full compliance with this Consent Order and Agreement, the Department covenants not to sue or to take administrative action against PPG pursuant to state or federal statutory or common law, for the conditions and violations specifically addressed in Paragraphs A through NNN, for the dates set forth therein.

X. ADDITIONAL REMEDIES

19. a. In the event PPG fails to comply with any provision of this Consent Order and Agreement, the Department may, in addition to the remedies prescribed herein, pursue any remedy available for a violation of an order of the Department, including an action to enforce this Consent Order and Agreement.

b. The remedies provided by this paragraph and Section VIII (Stipulated Civil Penalties) are cumulative, and the exercise of one does not preclude the exercise of any other. The failure of the Department to pursue any remedy shall not be deemed to be a waiver of that remedy. The payment of a stipulated civil penalty, however, shall preclude any further assessment of civil penalties for the violation for which the stipulated penalty is paid.

XI. RESERVATION OF RIGHTS

20. Notwithstanding any other provision of this Consent Order and Agreement, the covenant not to sue by the Department set forth in Paragraph 18 shall be null and void in the case of application of any of the reopeners listed in Section 505 of Act 2, 35 P.S. § 6026.505 and shall also not apply to the following claims by the Department against PPG for:

a. Additional contamination at or from the Site, not part of the Identified Contamination, or any contamination caused or contributed to by PPG at the Site subsequent to

the entry of this Consent Order and Agreement, in which case, with respect to such contamination, the Department expressly reserves the right to require PPG to remediate, to the extent required by law.

b. Additional measures that are required to achieve compliance with applicable law. PPG reserves the right to challenge any action which the Department may take to require those measures.

XII. LIABILITY OF OPERATOR

21. Notwithstanding any other provision of this Consent Order and Agreement, the covenant not to sue by the Department set forth in Paragraph 18 shall not apply to claims by the Department against PPG based on:

- a. failure to meet the requirements of this Consent Order and Agreement;
- b. past, present, or future disposal of waste outside the boundaries of the Site not otherwise authorized by the NPDES Permit; or
- c. past, present, or future violations of state or federal, civil or criminal, statutory or common law not addressed by this Consent Order and Agreement.

22. With regard to all matters not addressed in this Consent Order and Agreement, the Department specifically reserves all rights to institute equitable, administrative, civil, and criminal actions against PPG for:

- a. any past, present, or future violations of any statute, regulation, permit or order; or
- b. any pollution or potential pollution to the air, land or waters of the Commonwealth of Pennsylvania.

23. PPG shall be liable for any violations of the Consent Order and Agreement, including those caused by, contributed to, or allowed by its officers, agents, employees, or contractors. PPG also shall be liable for any violation of this Consent Order and Agreement caused by, contributed to, or allowed by its successors and assigns.

XIII. TRANSFER OF SITE

24. The duties and obligations under this Consent Order and Agreement shall not be modified, diminished, terminated or otherwise altered by the transfer of any legal or equitable interest in the Site or any part thereof.

XIV. EFFECT ON THIRD PARTIES

25. Nothing in this Consent Order and Agreement shall constitute or be construed as a release or covenant not to sue regarding any claim or cause of action, administrative or judicial, civil or criminal, past or future, in law or equity, which the Department or PPG may have against any person who is not a party to this Consent Order and Agreement. The Department and PPG expressly reserve the right to sue or continue to sue any person who is not a party to this Consent Order and Agreement.

XV. EXISTING OBLIGATIONS UNAFFECTED

26. Nothing set forth in this Consent Order and Agreement is intended, nor shall it be construed, to relieve or limit PPG's obligation to comply with any existing or subsequent statute, regulation, permit or order. In addition, nothing set forth in this Consent Order and Agreement is intended, nor shall it be construed, to authorize any violations of any statute, regulation, permit or order issued or administered by the Department.

XVI. ACKNOWLEDGMENT OF NO OBLIGATION

27. PPG acknowledges that the Department has no obligation to defend it in any suit, demand or claim for contribution for any matters arising out of PPG's violations of the Clean Streams Law and other applicable law described in Paragraphs A through NNN or for any matters arising out of this Consent Order and Agreement.

XVII. REMEDIES FOR BREACH

28. In the event of any material breach of this Consent Order and Agreement, the Department may, in addition to any remedies prescribed herein, institute against PPG any equitable, administrative, or civil action, including an action to enforce this Consent Order and Agreement. These remedies are cumulative, and the exercise of one does not preclude the exercise of any other. The failure of the Department to pursue any remedy shall not be deemed to be a waiver of that remedy.

XVIII. COVENANT NOT TO SUE BY PPG

29. Except as allowed herein, PPG covenants not to sue and shall not assert any claims, demands, or causes of action, in law or in equity, against the Commonwealth government, as that term is defined in 42 Pa. C.S.A. § 102, or any of its employees, officials, agents, or contractors, for any matters arising out of PPG's violations of The Clean Streams Law and other applicable law described in Paragraphs A through NNN or for any matters arising out of this Consent Order and Agreement. This covenant not to sue extends only to the Commonwealth government with regard to those matters addressed in this Consent Order and Agreement and does not extend to any other person.

XIX. AGREEMENT AS TO FINDINGS

30. PPG agrees that the Findings contained in Paragraphs A through NNN are true and correct, and, in any matter or proceeding involving PPG and the Department, PPG shall not challenge the accuracy or validity of these findings. The Parties do not authorize any other persons to use the Findings in this Consent Order and Agreement in any matter or proceeding.

XX. FORCE MAJEURE

31. In the event that PPG is prevented from complying in a timely manner with any time limit imposed in this Consent Order and Agreement solely because of a strike, fire, flood, act of God, or other circumstance beyond PPG's control and which PPG, by the exercise of all reasonable diligence, is unable to prevent, PPG may petition the Department for an extension of time. An increase in the cost of performing the obligations set forth in this Consent Order and Agreement shall not constitute circumstances beyond PPG's control. PPG's economic inability to comply with any of the obligations of this Consent Order and Agreement shall not be grounds for any extension of time.

32. The Department will not consider an extension of time unless PPG notifies the Department within five (5) business days by telephone and within ten (10) business days in writing of the date it becomes aware or reasonably should have become aware of the event impeding performance. The written submission shall include all necessary documentation, as well as a notarized affidavit from an authorized individual specifying the reasons for the delay, the expected duration of the delay, and the efforts which have been made and are being made by PPG to mitigate the effects of the event and to minimize the length of the delay. The initial written submission may be supplemented within ten (10) business days of its submission. PPG's

failure to comply with the requirements of this paragraph specifically and in a timely fashion shall render a force majeure claim null and of no effect as to the particular incident involved.

33. The Department will decide whether to grant all or part of the extension requested on the basis of all documentation submitted by PPG and other information available to the Department. In any subsequent litigation, PPG shall have the burden of proving that the Department's refusal to grant the requested extension was an abuse of discretion based upon the information then available to it.

XXI. CORRESPONDENCE

34. All correspondence with and submittals to the Department related to this Consent Order and Agreement shall reference the Site and shall be addressed to:

Compliance Specialist
Clean Water Program
Pennsylvania Department of Environmental Protection
Southwest Regional Office
400 Waterfront Drive
Pittsburgh, PA 15222-4745
Phone: 412-442-4000

A copy of all correspondence with the Department concerning this Consent Order and Agreement shall reference the Site and shall be addressed to:

Charney Regenstein, Esquire
Assistant Counsel
Department of Environmental Protection
400 Waterfront Drive
Pittsburgh, PA 15222-4745
Phone: 412-442-4262
E-mail: eregenstei@pa.gov

35. All correspondence with and submittals to PPG related to this Consent Order and Agreement shall reference the Site and shall be addressed to:

Mark Terril
Corporate Director Environmental Affairs
PPG Industries, Inc.
1 PPG Place
Pittsburgh, PA 15272
Phone: 412-434-2708
E-mail: terril@ppg.com

A copy of all correspondence with PPG concerning this Consent Order and Agreement shall reference the Site and shall be addressed to:

Richard S. Wiedman, Esq.
Eckert Seamans Cherin & Mellot LLC
600 Grant St., 44th Floor
Pittsburgh, PA 15219
Phone: (412) 566-5967
E-mail: rwiedman@eckertseamans.com

PPG shall notify the Department whenever there is a change in the contact person's name, title, or address. In addition, PPG agrees that the service of any notice or any legal process for any purpose under this Consent Order and Agreement, including its enforcement, may be made by mailing a copy by certified mail, return receipt requested, or by any overnight delivery service with standard tracking, to its attorney, whose name and address are contained in this paragraph.

XXII. SEVERABILITY

36. The paragraphs of this Consent Order and Agreement shall be severable, and should any part hereof be declared invalid or unenforceable, the remainder shall continue in full force and effect between the Parties.

XXIII. ENTIRE AGREEMENT

37. This Consent Order and Agreement shall constitute the entire integrated agreement of the Parties. No prior or contemporaneous communications or prior drafts shall be

relevant or admissible for purposes of determining the meaning or extent of any provisions herein in any litigation or any other proceeding.

XXIV. ATTORNEY FEES

38. The Parties shall bear their respective attorney fees, expenses, and other costs in the prosecution or defense of this matter or any related matters, arising prior to execution of this Consent Order and Agreement.

XXV. MODIFICATION

39. No changes, additions, modifications, or amendments of this Consent Order and Agreement shall be effective unless they are set out in writing and signed by the Parties hereto.

XXVI. TITLES

40. A title used at the beginning of any paragraph of this Consent Order and Agreement may be used to aid in the construction of that paragraph, but it shall not be treated as controlling.

XXVII. DECISIONS UNDER CONSENT ORDER

41. Except as provided in Paragraph 5 and any decision involving a disapproval or requested modification of a Final Report under Paragraph 7 or an Outfall Compliance Plan in Paragraph 6, any decision which the Department makes under the provisions of this Consent Order and Agreement, including a notice that stipulated civil penalties are due, is intended to be neither a final action under 25 Pa. Code § 1021.2, nor an adjudication under 2 Pa. C.S. § 101. Any objection which PPG may have to the decision will be preserved until the Department enforces this Consent Order and Agreement.

XXVIII. TERMINATION

42. The obligations of this Consent Order and Agreement shall terminate: after the Department's approval of PPG's Final Report, pursuant to Paragraph 7; after PPG's payment of the civil penalty and any stipulated penalties due, pursuant to Paragraphs 10 through 17; and after the Department has approved the termination in writing.

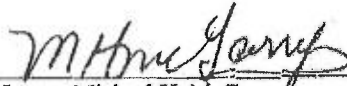
XXIX. EXECUTION IN COUNTERPARTS

43. This Consent Order and Agreement may be signed in counterparts, each of which shall be deemed to be an original and all of which together shall constitute one and the same instrument.

IN WITNESS WHEREOF, the Parties hereto have caused this Consent Order and Agreement to be executed by their duly authorized representatives. The undersigned representatives of PPG certify under penalty of law, as provided by 18 Pa. C.S. § 4904, that they are authorized to execute this Consent Order and Agreement on behalf of PPG; that PPG or Ford City consents to the entry of this Consent Order and Agreement as a final ORDER of the Department; and that PPG hereby knowingly waives its right to appeal this Consent Order and Agreement and to challenge its content or validity, which rights may be available under Section 4 of the Environmental Hearing Board Act, Act of July 13, 1988, P.L. 530, 35 P.S. § 7514; the Administrative Agency Law, 2 Pa. C.S. § 103(a) and Chapters 5A and 7A; or any other provisions of law. Signature by PPG's attorney certifies only that the Consent Order and Agreement has been signed after consulting with counsel.

FOR PPG INDUSTRIES, INC.:

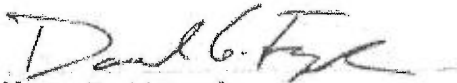
FOR THE COMMONWEALTH OF
PENNSYLVANIA, DEPARTMENT OF
ENVIRONMENTAL PROTECTION:



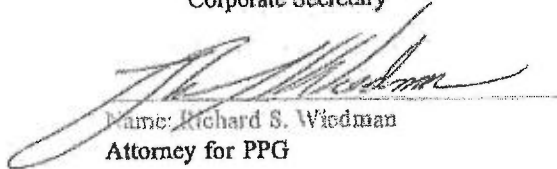
Name: Michael H. McGarry
Title: Chairman and CEO



Ronald Schwartz
Regional Director



Name: Daniel Fayock
Title: Assistant General Counsel and
Corporate Secretary



Name: Richard S. Wiedman
Attorney for PPG




Charney Regenstein
Assistant Counsel

IN WITNESS WHEREOF, the Parties hereto have caused this Consent Order and Agreement to be executed by their duly authorized representatives. The undersigned representatives of PPG certify under penalty of law, as provided by 18 Pa. C.S. § 4904, that they are authorized to execute this Consent Order and Agreement on behalf of PPG; that PPG or Ford City consents to the entry of this Consent Order and Agreement as a final ORDER of the Department; and that PPG hereby knowingly waives its right to appeal this Consent Order and Agreement and to challenge its content or validity, which rights may be available under Section 4 of the Environmental Hearing Board Act, Act of July 13, 1988, P.L. 530, 35 P.S. § 7514; the Administrative Agency Law, 2 Pa. C.S. § 103(a) and Chapters 5A and 7A; or any other provisions of law. Signature by PPG's attorney certifies only that the Consent Order and Agreement has been signed after consulting with counsel.

FOR PPG INDUSTRIES, INC.:

FOR THE COMMONWEALTH OF PENNSYLVANIA, DEPARTMENT OF ENVIRONMENTAL PROTECTION:

Name:
Title:



Ronald Schwartz
Regional Director

Name:
Title:



Charney Regenstein
Assistant Counsel

Name:
Attorney for PPG

Exhibit A

3800-PM-BPNPSM0011 Rev. 10/2014
Permit



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

**AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE REQUIREMENTS FOR INDUSTRIAL WASTEWATER
FACILITIES**

NPDES PERMIT NO: PA0254967

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Section 1251 *et seq.* ("the Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Section 691.1 *et seq.*,

**PPG Industries, Inc.
440 College Park Drive
Monroeville, PA 15146**

is authorized to discharge from a facility known as the **Former PPG Ford City Facility Slurry Lagoon Area and Solid Waste Disposal Area**, located in **Cadogan and North Buffalo Townships, Armstrong County**, to the **Allegheny River and Glade Run** in Watershed(s) **17-E** in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts A, B and C hereof.

THIS PERMIT SHALL BECOME EFFECTIVE ON _____

THIS PERMIT SHALL EXPIRE AT MIDNIGHT ON _____

The authority granted by this permit is subject to the following further qualifications:

1. If there is a conflict between the application, its supporting documents and/or amendments and the terms and conditions of this permit, the terms and conditions shall apply.
2. Failure to comply with the terms, conditions or effluent limitations of this permit is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (40 CFR 122.41(a))
3. A complete application for renewal of this permit, or notice of intent to cease discharging by the expiration date, must be submitted to DEP at least 180 days prior to the above expiration date (unless permission has been granted by DEP for submission at a later date), using the appropriate NPDES permit application form. (40 CFR 122.41(b), 122.21(d)(2))

In the event that a timely and complete application for renewal has been submitted and DEP is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit, including submission of the Discharge Monitoring Reports (DMRs), will be automatically continued and will remain fully effective and enforceable against the discharger until DEP takes final action on the pending permit application. (25 Pa. Code §§ 92a.7 (b), (c))

4. This NPDES permit does not constitute authorization to construct or make modifications to wastewater treatment facilities necessary to meet the terms and conditions of this permit.

DATE PERMIT ISSUED _____

ISSUED BY _____

**Christopher Kriley, P.E.
Clean Water Program Manager
Southwest Regional Office**

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Permit

Permit No. PA0254967

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. A. For Outfall 001, Latitude 40° 45' 16.22", Longitude -79° 33' 31.16", River Mile Index 40.1000, Stream Code 42122

Receiving Waters: Allegheny River

Type of Effluent: Treated leachate and storm water

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum			
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Antimony, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Arsenic, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Chromium, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Lead, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
at Outfall 001

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. B. For Outfall 002, Latitude 40° 45' 13.43", Longitude -79° 33' 28.68", River Mile Index 40.1500, Stream Code 42122

Receiving Waters: Allegheny River

Type of Effluent: Treated leachate

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.⁽³⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)		Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly				
Flow (MGD)	Report	Report	XXX	XXX	XXX	1/day	Measured	
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	1/day	Measured	
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	1/week	Composite 24-Hr	
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	1/week	Composite 24-Hr	
Aluminum, Total	XXX	XXX	XXX	Report	Report	1/week	Composite 24-Hr	
Antimony, Total	XXX	XXX	XXX	Report	Report	1/week	Composite 24-Hr	
Arsenic, Total	XXX	XXX	XXX	Report	Report	1/week	Composite 24-Hr	
Chromium, Total	XXX	XXX	XXX	Report	Report	1/week	Composite 24-Hr	
Iron, Dissolved	XXX	XXX	XXX	XXX	7.0	1/week	Composite 24-Hr	
Iron, Total	XXX	XXX	XXX	Report	Report	1/week	Composite 24-Hr	
Lead, Total	XXX	XXX	XXX	Report	Report	1/week	Composite 24-Hr	

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
the new treatment system sampling port

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. C. For Outfall 003, Latitude 40° 45' 18.33", Longitude -79° 33' 22.30", River Mile Index 40.2500, Stream Code 42122

Receiving Waters: Allegheny River

Type of Effluent: Uncollected overflows of storm water and leachate from the drainage ditch weir

1. The permittee is authorized to discharge during the period from Permit Effective Date through one year after the Permit Effective Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)		Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly				
Flow (MGD)	Report	Report	XXX	XXX	XXX	1/week	Estimate	
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	1/week	Grab	
Total Suspended Solids	XXX	XXX	XXX	30.0	XXX	1/week	Grab	
Total Dissolved Solids	XXX	XXX	XXX	Report	XXX	1/week	Grab	
Aluminum, Total	XXX	XXX	XXX	Report	XXX	1/week	Grab	
Antimony, Total	XXX	XXX	XXX	Report	XXX	1/week	Grab	
Arsenic, Total	XXX	XXX	XXX	Report	XXX	1/week	Grab	
Chromium, Total	XXX	XXX	XXX	Report	XXX	1/week	Grab	
Iron, Dissolved	XXX	XXX	XXX	XXX	XXX	1/week	Grab	
Iron, Total	XXX	XXX	XXX	Report	XXX	1/week	Grab	
Lead, Total	XXX	XXX	XXX	Report	XXX	1/week	Grab	

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 003

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. D. For Outfall 003, Latitude 40° 45' 18.33", Longitude -79° 33' 22.30", River Mile Index 40.2500, Stream Code 42122

Receiving Waters: Allegheny River

Type of Effluent: Uncollected overflows of storm water and leachate from the drainage ditch weir

1. The permittee is authorized to discharge during the period from one year after the Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum			
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	1/week	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	1/week	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab
Antimony, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab
Arsenic, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab
Chromium, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab
Iron, Dissolved	XXX	XXX	XXX	XXX	7.0	XXX	1/week	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab
Lead, Total	XXX	XXX	XXX	Report	Report	XXX	1/week	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
at Outfall 003

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. E. For Internal Monitoring Point 103

Receiving Waters: See Outfall 003

Type of Effluent: SWDA Seep Area 1

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Daily Maximum	Daily Minimum	Concentrations (mg/L)		Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily			Average Monthly	Daily Maximum			
Flow (MGD)	Report	Report	Report	XXX	XXX	XXX	2/month	Estimate	
pH (S.U.)	XXX	XXX	Report	Report	XXX	XXX	2/month	Grab	
Total Suspended Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Antimony, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Arsenic, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Cadmium, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Chromium, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Copper, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Iron, Dissolved	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Lead, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	

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Internal Monitoring Point 103, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Average Monthly	Daily Maximum			Instant. Maximum
Mercury, Total	XXX	XXX	XXX	Report	Report	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
at Internal Monitoring Point 103

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. F. For Internal Monitoring Point 203

Receiving Waters: See Outfall 003

Type of Effluent: SWDA Seep Area 2

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)		Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly			
Flow (MGD)	Report	Report	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	Report	XXX	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	Report	XXX	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	XXX	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	XXX	2/month	Grab
Antimony, Total	XXX	XXX	XXX	Report	XXX	2/month	Grab
Arsenic, Total	XXX	XXX	XXX	Report	XXX	2/month	Grab
Cadmium, Total	XXX	XXX	XXX	Report	XXX	2/month	Grab
Chromium, Total	XXX	XXX	XXX	Report	XXX	2/month	Grab
Copper, Total	XXX	XXX	XXX	Report	XXX	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	Report	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	XXX	2/month	Grab
Lead, Total	XXX	XXX	XXX	Report	XXX	2/month	Grab

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Internal Monitoring Point 203, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum			
Mercury, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Zinc, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
at Internal Monitoring Point 203

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. G. For Internal Monitoring Point 303

Receiving Waters: See Outfall 003

Type of Effluent: SWDA Seep Area 3

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	Report	XXX	Report	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Antimony, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Arsenic, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Cadmium, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Chromium, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Copper, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Lead, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

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Internal Monitoring Point 303, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations					Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum		
Mercury, Total	XXX	XXX	XXX	Report	Report	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
at Internal Monitoring Point 303

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. H. For Internal Monitoring Point 403

Receiving Waters: See Outfall 003

Type of Effluent: Seep 105

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum			
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	Report	XXX	Report	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Antimony, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Arsenic, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Cadmium, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Chromium, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Copper, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Lead, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

Internal Monitoring Point 403, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Daily Maximum	Report			
Mercury, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
at Internal Monitoring Point 303

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. I. For Outfall 004, Latitude 40° 45' 14.62", Longitude -79° 33' 29.72", River Mile Index 40.2000, Stream Code 42122

Receiving Waters: Allegheny River

Type of Effluent: Railroad track seepage area

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum				
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Estimate	
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	2/month	Grab	
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab	
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Antimony, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Arsenic, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Chromium, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Iron, Dissolved	XXX	XXX	XXX	XXX	7.0	XXX	2/month	Grab	
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Lead, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

20 feet east of the eastern entrance to the concrete box at the upstream end of the 36-inch railroad culvert; or another nearby location that captures flow from the railroad track seepage area that is representative of the discharge

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. J. For Outfall 005, Latitude 40° 45' 20.30", Longitude -79° 34' 01.01", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep 6 Area

1. The permittee is authorized to discharge during the period from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System.⁽⁴⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Mass Units (lbs/day) ⁽¹⁾				Effluent Limitations (mg/L unless otherwise stated)			Monitoring Requirements	
	Average Monthly	Daily Maximum	Daily Minimum	Daily Maximum	Average Monthly	Instant. Maximum	Minimum Measurement Frequency	Required Sample Type	
									Daily Maximum
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Estimate	
pH (S.U.)	XXX	XXX	6.0	9.0	XXX	XXX	2/month	Grab	
Total Suspended Solids	XXX	XXX	XXX	60.0	30.0	XXX	2/month	Grab	
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Antimony, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Arsenic, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Cadmium, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Chromium, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Copper, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	
Iron, Dissolved	XXX	XXX	XXX	7.0	XXX	XXX	2/month	Grab	
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab	

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Outfall 005, Continued (from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System) (4)

Parameter	Effluent Limitations				Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L unless otherwise stated)		Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant. Maximum
Lead, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
the historical Seep 6 Area sampling location

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. K. For Outfall 005, Latitude 40° 45' 20.28", Longitude -79° 33' 58.19", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep 6 Area

1. The permittee is authorized to discharge during the period from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date.⁽⁴⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations				Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Daily Average Monthly		
Flow (MGD)	Report	Report	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	0.75	2/month	Grab
Antimony, Total (µg/L)	XXX	XXX	XXX	5.6	2/month	Grab
Arsenic, Total (µg/L)	XXX	XXX	XXX	10.0	2/month	Grab
Cadmium, Total (µg/L)	XXX	XXX	XXX	0.27	2/month	Grab
Chromium, Total (µg/L)	XXX	XXX	XXX	10.4	2/month	Grab
Copper, Total (µg/L)	XXX	XXX	XXX	9.3	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	1.5	2/month	Grab
Iron, Total	XXX	XXX	XXX	1.5	2/month	Grab

Outfall 005, Continued (from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date) ⁽⁴⁾

Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant. Maximum	
Lead, Total (µg/L)	XXX	XXX	XXX	3.2	6.4	XXX	2/month Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
where Seep 6 originates



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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. L. For Outfall 006, Latitude 40° 45' 19.49", Longitude -79° 33' 58.69", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep 106 Area

1. The permittee is authorized to discharge during the period from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System.⁽⁴⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)			Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum			
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Antimony, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Arsenic, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Cadmium, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Chromium, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Copper, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	XXX	7.0	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

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Outfall 006, Continued (from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System) (4)

Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) (1)		Concentrations (mg/L unless otherwise stated)		Minimum (2)	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant. Maximum	
Lead, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

the historical Seep 106 Area sampling location

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I. M. For Outfall 006, Latitude 40° 45' 19.49", Longitude -79° 33' 58.69", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep 106 Area

1. The permittee is authorized to discharge during the period from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date.⁽⁴⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)			Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum			
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	0.75	0.75	XXX	2/month	Grab
Antimony, Total (µg/L)	XXX	XXX	XXX	5.6	11.2	XXX	2/month	Grab
Arsenic, Total (µg/L)	XXX	XXX	XXX	10.0	20.0	XXX	2/month	Grab
Cadmium, Total (µg/L)	XXX	XXX	XXX	0.27	0.56	XXX	2/month	Grab
Chromium, Total (µg/L)	XXX	XXX	XXX	10.4	20.8	XXX	2/month	Grab
Copper, Total (µg/L)	XXX	XXX	XXX	9.3	18.6	XXX	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	1.5	3.0	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	1.5	3.0	XXX	2/month	Grab

Outfall 006, Continued (from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date) ⁽⁴⁾

Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant. Maximum	
Lead, Total (µg/L)	XXX	XXX	XXX	3.2	6.4	XXX	2/month Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
the historical Seep 106 Area sampling location

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. N. For Outfall 007, Latitude 40° 45' 20.77", Longitude -79° 34' 00.94", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep W Area

1. The permittee is authorized to discharge during the period from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System.⁽⁴⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations					Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)			Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum			Instant. Maximum
Flow (MGD)	Report	Report	XXX	XXX	XXX	2/month	Estimate	
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	2/month	Grab	
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	2/month	Grab	
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	2/month	Grab	
Aluminum, Total	XXX	XXX	XXX	Report	Report	2/month	Grab	
Antimony, Total (µg/L)	XXX	XXX	XXX	Report	Report	2/month	Grab	
Arsenic, Total (µg/L)	XXX	XXX	XXX	Report	Report	2/month	Grab	
Cadmium, Total (µg/L)	XXX	XXX	XXX	Report	Report	2/month	Grab	
Chromium, Total (µg/L)	XXX	XXX	XXX	Report	Report	2/month	Grab	
Copper, Total (µg/L)	XXX	XXX	XXX	Report	Report	2/month	Grab	
Iron, Dissolved	XXX	XXX	XXX	XXX	7.0	2/month	Grab	
Iron, Total	XXX	XXX	XXX	Report	Report	2/month	Grab	

Outfall 007, Continued (from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System) ⁽⁴⁾

Parameter	Mass Units (lbs/day) ⁽¹⁾			Effluent Limitations Concentrations (mg/L unless otherwise stated)			Monitoring Requirements	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Minimum Measurement Frequency	Required Sample Type
Lead, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

the historical Seep W Area sampling location

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I. O. For Outfall 007, Latitude 40° 45' 22.64", Longitude -79° 34' 00.46", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep W Area

1. The permittee is authorized to discharge during the period from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date.⁽⁴⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations				Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Daily Maximum		
Flow (MGD)	Report	Report	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	9.0	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	60.0	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	0.75	2/month	Grab
Antimony, Total (µg/L)	XXX	XXX	XXX	5.6	2/month	Grab
Arsenic, Total (µg/L)	XXX	XXX	XXX	10.0	2/month	Grab
Cadmium, Total (µg/L)	XXX	XXX	XXX	0.27	2/month	Grab
Chromium, Total (µg/L)	XXX	XXX	XXX	10.4	2/month	Grab
Copper, Total (µg/L)	XXX	XXX	XXX	9.3	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	1.5	2/month	Grab
Iron, Total	XXX	XXX	XXX	1.5	2/month	Grab

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Outfall 007, Continued (from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date) ⁽⁴⁾

Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant. Maximum	
Lead, Total (µg/L)	XXX	XXX	XXX	3.2	6.4	XXX	2/month Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

where Seep W originates

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I. P. For Outfall 008, Latitude 40° 45' 18.36", Longitude -79° 33' 21.00", River Mile Index 40.2700, Stream Code 42122

Receiving Waters: Allegheny River

Type of Effluent: SWDA Seep Area 4

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum			
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Antimony, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Arsenic, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Chromium, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	XXX	7.0	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Lead, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 008

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I. Q. For Outfall 009, Latitude 40° 45' 19.57", Longitude -79° 33' 19.21", River Mile Index 40.3000, Stream Code 42122

Receiving Waters: Allegheny River

Type of Effluent: SWDA Seep Area 5

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes):

Parameter	Effluent Limitations				Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Average Monthly	Daily Maximum		
Flow (MGD)	Report	Report	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	2/month	Grab
Antimony, Total	XXX	XXX	XXX	Report	2/month	Grab
Arsenic, Total	XXX	XXX	XXX	Report	2/month	Grab
Chromium, Total	XXX	XXX	XXX	Report	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	7.0	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	2/month	Grab
Lead, Total	XXX	XXX	XXX	Report	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
at Outfall 009

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. R. For Outfall 010, Latitude 40° 45' 19.42", Longitude -79° 33' 17.87", River Mile Index 40.3100, Stream Code 42122

Receiving Waters: Allegheny River

Type of Effluent: SWDA Seep Area 6

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations					Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Antimony, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Arsenic, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Chromium, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	XXX	7.0	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Lead, Total	XXX	XXX	XXX	Report	Report	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 010

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. S. For Outfall 011, Latitude 40° 45' 16.04", Longitude -79° 33' 30.26", River Mile Index 40.1600, Stream Code 42122

Receiving Waters: Allegheny River

Type of Effluent: Storm water runoff from east trench drain

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum			
Flow (MGD)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Antimony, Total	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Arsenic, Total	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Chromium, Total	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Iron, Dissolved	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 011

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I. T. For Outfall 012, Latitude 40° 45' 19.02", Longitude -79° 33' 57.63", River Mile Index 0.6200, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Storm water runoff from west trench drain

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum			
Flow (MGD)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Antimony, Total	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Arsenic, Total	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Chromium, Total	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Iron, Dissolved	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
at Outfall 012

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I. U. For Outfall 013, Latitude 40° 45' 16.58", Longitude -79° 33' 21.83", River Mile Index 40.2500, Stream Code 42122

Receiving Waters: Allegheny River

Type of Effluent: SWDA Seep Area ED-RR

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations					Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Antimony, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Arsenic, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Chromium, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	XXX	7.0	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Lead, Total	XXX	XXX	XXX	Report	Report	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
at Outfall 013

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I. V. For Outfall 014, Latitude 40° 45' 22.40", Longitude -79° 33' 11.53", River Mile Index 40.5000, Stream Code 42122

Receiving Waters: Allegheny River

Type of Effluent: SWDA Seep Area 7

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations					Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Antimony, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Arsenic, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Chromium, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	XXX	7.0	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Lead, Total	XXX	XXX	XXX	Report	Report	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 014

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. W. For Outfall 015, Latitude 40° 45' 31.79", Longitude -79° 33' 3.49", River Mile Index 40.7200, Stream Code 42122

Receiving Waters: Allegheny River

Type of Effluent: SWDA Seep Area 11

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum			
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Antimony, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Arsenic, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Chromium, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	XXX	7.0	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Lead, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 015

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I. X. For Outfall 016, Latitude 40° 45' 34.91", Longitude -79° 32' 59.43", River Mile Index 40.8500, Stream Code 42122

Receiving Waters: Allegheny River

Type of Effluent: SWDA Seep Area 12

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)			Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum			
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Antimony, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Arsenic, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Chromium, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	XXX	7.0	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Lead, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

at Outfall 016

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. Y. For Outfall 017, Latitude 40° 45' 13.81", Longitude -79° 33' 48.50", River Mile Index 39.8600, Stream Code 42122

Receiving Waters: Allegheny River

Type of Effluent: Seep 5 Area

1. The permittee is authorized to discharge during the period from Permit Effective Date through Permit Expiration Date.
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations				Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly		
Flow (MGD)	Report	Report	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	2/month	Grab
Antimony, Total	XXX	XXX	XXX	Report	2/month	Grab
Arsenic, Total	XXX	XXX	XXX	Report	2/month	Grab
Chromium, Total	XXX	XXX	XXX	Report	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	7.0	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	2/month	Grab
Lead, Total	XXX	XXX	XXX	Report	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
at Outfall 017 (Seep 5 Area pond overflows that are not collected)

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Permit

Permit No. PA0254967

PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. Z. For Outfall 018, Latitude 40° 45' 17.82", Longitude -79° 34' 00.83", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep 18 Area

1. The permittee is authorized to discharge during the period from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System.⁽⁴⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Antimony, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Arsenic, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Cadmium, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Chromium, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Copper, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	XXX	7.0	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

Outfall 018, Continued (from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System) ⁽⁴⁾

Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant Maximum	
Lead, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
where Seep 18 originates

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Permit

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. AA. For Outfall 018, Latitude 40° 45' 17.82", Longitude -79° 34' 00.83", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep 18 Area

1. The permittee is authorized to discharge during the period from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date.⁽⁴⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)			Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum			
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	0.75	0.75	XXX	2/month	Grab
Antimony, Total (µg/L)	XXX	XXX	XXX	5.6	11.2	XXX	2/month	Grab
Arsenic, Total (µg/L)	XXX	XXX	XXX	10.0	20.0	XXX	2/month	Grab
Cadmium, Total (µg/L)	XXX	XXX	XXX	0.27	0.56	XXX	2/month	Grab
Chromium, Total (µg/L)	XXX	XXX	XXX	10.4	20.8	XXX	2/month	Grab
Copper, Total (µg/L)	XXX	XXX	XXX	9.3	18.6	XXX	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	1.5	3.0	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	1.5	3.0	XXX	2/month	Grab

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Outfall 018, Continued (from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date) ⁽⁴⁾

Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Daily Average Monthly			Daily Instant. Maximum
Lead, Total (µg/L)	XXX	XXX	XXX	3.2	6.4	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
 where Seep 18 originates

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. BB. For Outfall 019, Latitude 40° 45' 18.49", Longitude -79° 34' 00.41", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep 19 Area

1. The permittee is authorized to discharge during the period from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System.⁽⁴⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations				Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly		
Flow (MGD)	Report	Report	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	2/month	Grab
Antimony, Total (µg/L)	XXX	XXX	XXX	Report	2/month	Grab
Arsenic, Total (µg/L)	XXX	XXX	XXX	Report	2/month	Grab
Cadmium, Total (µg/L)	XXX	XXX	XXX	Report	2/month	Grab
Chromium, Total (µg/L)	XXX	XXX	XXX	Report	2/month	Grab
Copper, Total (µg/L)	XXX	XXX	XXX	Report	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	7.0	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	2/month	Grab

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Outfall 019, Continued (from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System) ⁽⁴⁾

Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾	Concentrations (mg/L unless otherwise stated)			Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant. Maximum	
Lead, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

where Seep 19 originates

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. CC. For Outfall 019, Latitude 40° 45' 18.49", Longitude -79° 34' 00.41", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep 19 Area

1. The permittee is authorized to discharge during the period from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date.⁽⁴⁾

2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (mg/L unless otherwise stated)						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾			Concentrations (mg/L unless otherwise stated)			Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Report	Daily Minimum	Average Monthly	Daily Maximum		
Flow (MGD)	Report	Report	Report	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	XXX	6.0	XXX	9.0	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	30.0	60.0	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	XXX	Report	Report	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	0.75	0.75	2/month	Grab
Antimony, Total (µg/L)	XXX	XXX	XXX	XXX	5.6	11.2	2/month	Grab
Arsenic, Total (µg/L)	XXX	XXX	XXX	XXX	10.0	20.0	2/month	Grab
Cadmium, Total (µg/L)	XXX	XXX	XXX	XXX	0.27	0.56	2/month	Grab
Chromium, Total (µg/L)	XXX	XXX	XXX	XXX	10.4	20.8	2/month	Grab
Copper, Total (µg/L)	XXX	XXX	XXX	XXX	9.3	18.6	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	XXX	1.5	3.0	2/month	Grab
Iron, Total	XXX	XXX	XXX	XXX	1.5	3.0	2/month	Grab

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Outfall 019, Continued (from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date) ⁽⁴⁾

Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant. Maximum	
Lead, Total (µg/L)	XXX	XXX	XXX	3.2	6.4	XXX	2/month Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

where Seep 19 originates

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. DD. For Outfall 020, Latitude 40° 45' 18.74", Longitude -79° 34' 00.43", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep 20 Area

1. The permittee is authorized to discharge during the period from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System. ⁽⁴⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (mg/L unless otherwise stated)					Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations			Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	2/month	Grab
Antimony, Total (µg/L)	XXX	XXX	XXX	Report	Report	2/month	Grab
Arsenic, Total (µg/L)	XXX	XXX	XXX	Report	Report	2/month	Grab
Cadmium, Total (µg/L)	XXX	XXX	XXX	Report	Report	2/month	Grab
Chromium, Total (µg/L)	XXX	XXX	XXX	Report	Report	2/month	Grab
Copper, Total (µg/L)	XXX	XXX	XXX	Report	Report	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	XXX	7.0	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	2/month	Grab

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Outfall 020, Continued (from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System) ⁽⁴⁾

Parameter	Effluent Limitations				Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Daily Maximum		
Lead, Total (µg/L)	XXX	XXX	XXX	Report	XXX	2/month Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
 where Seep 20 originates

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. EE. For Outfall 020, Latitude 40° 45' 18.74", Longitude -79° 34' 00.43", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep 20 Area

1. The permittee is authorized to discharge during the period from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date.⁽⁴⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	0.75	0.75	XXX	2/month	Grab
Antimony, Total (µg/L)	XXX	XXX	XXX	5.6	11.2	XXX	2/month	Grab
Arsenic, Total (µg/L)	XXX	XXX	XXX	10.0	20.0	XXX	2/month	Grab
Cadmium, Total (µg/L)	XXX	XXX	XXX	0.27	0.56	XXX	2/month	Grab
Chromium, Total (µg/L)	XXX	XXX	XXX	10.4	20.8	XXX	2/month	Grab
Copper, Total (µg/L)	XXX	XXX	XXX	9.3	18.6	XXX	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	1.5	3.0	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	1.5	3.0	XXX	2/month	Grab

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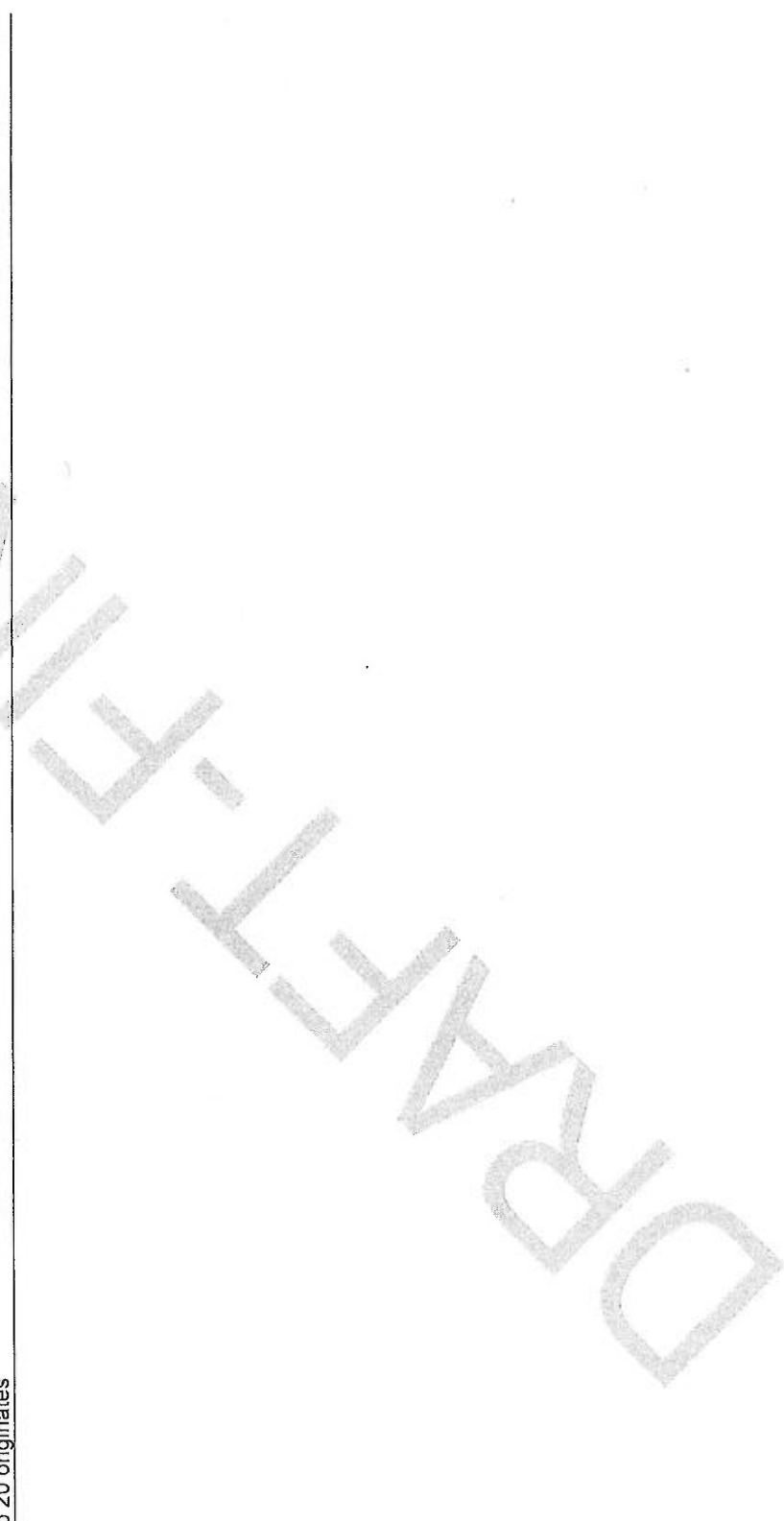
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Outfall 020, Continued (from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date) ⁽⁴⁾

Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Daily Maximum			Instant. Maximum
Lead, Total (µg/L)	XXX	XXX	XXX	3.2	6.4	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

where Seep 20 originates



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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. FF. For Outfall 021, Latitude 40° 45' 19.63", Longitude -79° 34' 00.36", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep 21 Area

1. The permittee is authorized to discharge during the period from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System.⁽⁴⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)			Instant. Maximum	Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum			
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Antimony, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Arsenic, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Cadmium, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Chromium, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Copper, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	XXX	7.0	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab

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Outfall 021, Continued (from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System) ⁽⁴⁾

Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly			Daily Maximum
Lead, Total (µg/L)	XXX	XXX	XXX	Report	Report	2/month	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
where Seep 21 originates

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. GG. For Outfall 021, Latitude 40° 45' 19.63", Longitude -79° 34' 00.36", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep 21 Area

1. The permittee is authorized to discharge during the period from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date.⁽⁴⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	9.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	60.0	XXX	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	0.75	0.75	XXX	2/month	Grab
Antimony, Total (µg/L)	XXX	XXX	XXX	5.6	11.2	XXX	2/month	Grab
Arsenic, Total (µg/L)	XXX	XXX	XXX	10.0	20.0	XXX	2/month	Grab
Cadmium, Total (µg/L)	XXX	XXX	XXX	0.27	0.56	XXX	2/month	Grab
Chromium, Total (µg/L)	XXX	XXX	XXX	10.4	20.8	XXX	2/month	Grab
Copper, Total (µg/L)	XXX	XXX	XXX	9.3	18.6	XXX	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	1.5	3.0	XXX	2/month	Grab
Iron, Total	XXX	XXX	XXX	1.5	3.0	XXX	2/month	Grab

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Outfall 021, Continued (from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date) ⁽⁴⁾

Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant. Maximum	
Lead, Total (µg/L)	XXX	XXX	XXX	3.2	6.4	XXX	2/month Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
where Seep 21 originates

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Permit

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. HH. For Outfall 022, Latitude 40° 45' 21.12", Longitude -79° 34' 00.20", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep 22 Area

1. The permittee is authorized to discharge during the period from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System.⁽⁴⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations				Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Daily Maximum		
Flow (MGD)	Report	Report	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	9.0	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	60.0	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	Report	2/month	Grab
Antimony, Total (µg/L)	XXX	XXX	XXX	Report	2/month	Grab
Arsenic, Total (µg/L)	XXX	XXX	XXX	Report	2/month	Grab
Cadmium, Total (µg/L)	XXX	XXX	XXX	Report	2/month	Grab
Chromium, Total (µg/L)	XXX	XXX	XXX	Report	2/month	Grab
Copper, Total (µg/L)	XXX	XXX	XXX	Report	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	7.0	2/month	Grab
Iron, Total	XXX	XXX	XXX	Report	2/month	Grab

Outfall 022, Continued (from Permit Effective Date through 90 days after Start-up of the Enhanced Collection and Treatment System) ⁽⁴⁾

Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant. Maximum	
Lead, Total (µg/L)	XXX	XXX	XXX	Report	Report	XXX	2/month Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

where Seep 22 originates

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PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS

I. II. For Outfall 022, Latitude 40° 45' 21.12", Longitude -79° 34' 00.20", River Mile Index 0.6400, Stream Code 46185

Receiving Waters: Glade Run

Type of Effluent: Seep 22 Area

1. The permittee is authorized to discharge during the period from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date.⁽⁴⁾
2. Based on the anticipated wastewater characteristics and flows described in the permit application and its supporting documents and/or amendments, the following effluent limitations and monitoring requirements apply (see also Additional Requirements and Footnotes).

Parameter	Effluent Limitations (mg/L unless otherwise stated)				Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly		
Flow (MGD)	Report	Report	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0	XXX	2/month	Grab
Total Suspended Solids	XXX	XXX	XXX	30.0	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	2/month	Grab
Aluminum, Total	XXX	XXX	XXX	0.75	2/month	Grab
Antimony, Total (µg/L)	XXX	XXX	XXX	5.6	2/month	Grab
Arsenic, Total (µg/L)	XXX	XXX	XXX	10.0	2/month	Grab
Cadmium, Total (µg/L)	XXX	XXX	XXX	0.27	2/month	Grab
Chromium, Total (µg/L)	XXX	XXX	XXX	10.4	2/month	Grab
Copper, Total (µg/L)	XXX	XXX	XXX	9.3	2/month	Grab
Iron, Dissolved	XXX	XXX	XXX	1.5	2/month	Grab
Iron, Total	XXX	XXX	XXX	1.5	2/month	Grab

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Outfall 022, Continued (from 90 days after Start-up of the Enhanced Collection and Treatment System through Permit Expiration Date) ⁽⁴⁾

Parameter	Effluent Limitations				Monitoring Requirements		
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L unless otherwise stated)		Minimum ⁽²⁾ Measurement Frequency	Required Sample Type	
	Average Monthly	Daily Maximum	Daily Minimum	Average Monthly	Daily Maximum	Instant. Maximum	
Lead, Total (µg/L)	XXX	XXX	XXX	3.2	6.4	XXX	2/month Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

where Seep 22 originates

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**PART A - EFFLUENT LIMITATIONS, MONITORING, RECORDKEEPING AND REPORTING REQUIREMENTS
(Continued)**

Additional Requirements

The permittee may not discharge:

1. Floating solids, scum, sheen or substances that result in observed deposits in the receiving water. (25 Pa Code § 92a.41(c))
2. Oil and grease in amounts that cause a film or sheen upon or discoloration of the waters of this Commonwealth or adjoining shoreline, or that exceed 15 mg/l as a daily average or 30 mg/l at any time (or lesser amounts if specified in this permit). (25 Pa. Code § 92a.47(a)(7), § 95.2(2))
3. Substances in concentration or amounts sufficient to be inimical or harmful to the water uses to be protected or to human, animal, plant or aquatic life. (25 Pa Code § 93.6(a))
4. Foam or substances that produce an observed change in the color, taste, odor or turbidity of the receiving water, unless those conditions are otherwise controlled through effluent limitations or other requirements in this permit. For the purpose of determining compliance with this condition, DEP will compare conditions in the receiving water upstream of the discharge to conditions in the receiving water approximately 100 feet downstream of the discharge to determine if there is an observable change in the receiving water. (25 Pa Code § 92a.41(c))

Footnotes

- (1) When sampling to determine compliance with mass effluent limitations, the discharge flow at the time of sampling must be measured and recorded.
- (2) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.
- (3) Sampling at Outfall 002 shall commence when discharges from the Enhanced Collection and Treatment System begin. Refer to Condition I.F in Part C of this permit for additional requirements applicable to Outfall 002.
- (4) See Condition II in Part C of this permit for requirements applicable to Outfalls 005, 006, and 007.

Supplemental Information

The effluent limitations for Outfalls 001 and 002 were determined using effluent discharge rates of 0.0936 MGD, 0.115 MGD, respectively.

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II. DEFINITIONS

At Outfall (XXX) means a sampling location in outfall line XXX below the last point at which wastes are added to outfall line (XXX), or where otherwise specified.

Average refers to the use of an arithmetic mean, unless otherwise specified in this permit. (40 CFR 122.41(l)(4)(iii))

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce the pollutant loading to surface waters of the Commonwealth. The term also includes treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. The term includes activities, facilities, measures, planning or procedures used to minimize accelerated erosion and sedimentation and manage stormwater to protect, maintain, reclaim, and restore the quality of waters and the existing and designated uses of waters within this Commonwealth before, during and after earth disturbance activities. (25 Pa. Code § 92a.2)

Bypass means the intentional diversion of waste streams from any portion of a treatment facility. (40 CFR 122.41(m)(1)(i))

Calendar Week is defined as the seven consecutive days from Sunday through Saturday, unless the permittee has been given permission by DEP to provide weekly data as Monday through Friday based on showing excellent performance of the facility and a history of compliance. In cases when the week falls in two separate months, the month with the most days in that week shall be the month for reporting.

Clean Water Act means the Federal Water Pollution Control Act, as amended. (33 U.S.C.A. §§ 1251 to 1387).

Chemical Additive means a chemical product (including products of disassociation and degradation, collectively "products") introduced into a waste stream that is used for cleaning, disinfecting, or maintenance and which may be detected in effluent discharged to waters of the Commonwealth. The term generally excludes chemicals used for neutralization of waste streams, the production of goods, and treatment of wastewater.

Composite Sample (for all except GC/MS volatile organic analysis) means a combination of individual samples (at least eight for a 24-hour period or four for an 8-hour period) of at least 100 milliliters (mL) each obtained at spaced time intervals during the compositing period. The composite must be flow-proportional; either the volume of each individual sample is proportional to discharge flow rates, or the sampling interval is proportional to the flow rates over the time period used to produce the composite. (EPA Form 2C)

Composite Sample (for GC/MS volatile organic analysis) consists of at least four aliquots or grab samples collected during the sampling event (not necessarily flow proportioned). The samples must be combined in the laboratory immediately before analysis and then one analysis is performed. (EPA Form 2C)

Daily Average Temperature means the average of all temperature measurements made, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar day or during the operating day if flows are of a shorter duration.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day. (25 Pa. Code § 92a.2, 40 CFR 122.2)

Daily Maximum Discharge Limitation means the highest allowable "daily discharge."

Discharge Monitoring Report (DMR) means the DEP or EPA supplied form(s) for the reporting of self-monitoring results by the permittee. (25 Pa. Code § 92a.2, 40 CFR 122.2)

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Estimated Flow means any method of liquid volume measurement based on a technical evaluation of the sources contributing to the discharge including, but not limited to, pump capabilities, water meters and batch discharge volumes.

Geometric Mean means the average of a set of n sample results given by the nth root of their product.

Grab Sample means an individual sample of at least 100 mL collected at a randomly selected time over a period not to exceed 15 minutes. (EPA Form 2C)

Hazardous Substance means any substance designated under 40 CFR Part 116 pursuant to Section 311 of the Clean Water Act. (40 CFR 122.2)

Hauled-In Wastes means any waste that is introduced into a treatment facility through any method other than a direct connection to the wastewater collection system. The term includes wastes transported to and disposed of within the treatment facility or other entry points within the collection system.

Immersion Stabilization (i-s) means a calibrated device is immersed in the wastewater until the reading is stabilized.

Instantaneous Maximum Effluent Limitation means the highest allowable discharge of a concentration or mass of a substance at any one time as measured by a grab sample. (25 Pa. Code § 92a.2)

Measured Flow means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or for which a relationship to absolute volume has been obtained.

Monthly Average Discharge Limitation means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month. (25 Pa. Code § 92a.2)

Municipal Waste means garbage, refuse, industrial lunchroom or office waste and other material, including solid, liquid, semisolid or contained gaseous material resulting from operation of residential, municipal, commercial or institutional establishments and from community activities; and sludge not meeting the definition of residual or hazardous waste under this section from a municipal, commercial or institutional water supply treatment plant, waste water treatment plant or air pollution control facility. (25 Pa. Code § 271.1)

Non-contact Cooling Water means water used to reduce temperature which does not come in direct contact with any raw material, intermediate product, waste product (other than heat), or finished product.

Residual Waste means garbage, refuse, other discarded material or other waste, including solid, liquid, semisolid or contained gaseous materials resulting from industrial, mining and agricultural operations and sludge from an industrial, mining or agricultural water supply treatment facility, wastewater treatment facility or air pollution control facility, if it is not hazardous. The term does not include coal refuse as defined in the Coal Refuse Disposal Control Act. The term does not include treatment sludges from coal mine drainage treatment plants, disposal of which is being carried on under and in compliance with a valid permit issued under the Clean Streams Law. (25 Pa Code § 287.1)

Severe Property Damage means substantial physical damage to property, damage to the treatment facilities that causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. (40 CFR 122.41(m)(1)(ii))

Start-up means when the Enhanced Collection and Treatment System commences operations. Start-up occurs after completion of construction/installation and discharges to waters of the Commonwealth begin. The permittee will notify the Department in writing a minimum of five (5) business days prior to commencing system Start-up.

Stormwater means the runoff from precipitation, snow melt runoff, and surface runoff and drainage. (25 Pa. Code § 92a.2)

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Stormwater Associated With Industrial Activity means the discharge from any conveyance that is used for collecting and conveying stormwater and that is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant, and as defined at 40 CFR 122.26(b)(14) (i) - (ix) & (xi) and 25 Pa. Code § 92a.2.

Total Dissolved Solids means the total dissolved (filterable) solids as determined by use of the method specified in 40 CFR Part 136.

Toxic Pollutant means those pollutants, or combinations of pollutants, including disease-causing agents, which after discharge and upon exposure, ingestion, inhalation or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains may, on the basis of information available to DEP cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in these organisms or their offspring. (25 Pa. Code § 92a.2)

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III. SELF-MONITORING, REPORTING AND RECORDKEEPING

A. Representative Sampling

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity (40 CFR 122.41(j)(1)). Representative sampling includes the collection of samples, where possible, during periods of adverse weather, changes in treatment plant performance and changes in treatment plant loading. If possible, effluent samples must be collected where the effluent is well mixed near the center of the discharge conveyance and at the approximate mid-depth point, where the turbulence is at a maximum and the settlement of solids is minimized. (40 CFR 122.48, 25 Pa. Code § 92a.61)

2. Records Retention (40 CFR 122.41(j)(2))

Except for records of monitoring information required by this permit related to the permittee's sludge use and disposal activities which shall be retained for a period of at least 5 years, all records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for 3 years from the date of the sample measurement, report or application, unless a longer retention period is required by the permit. The 3-year period shall be extended as requested by DEP or the EPA Regional Administrator.

3. Recording of Results (40 CFR 122.41(j)(3))

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date and time of sampling or measurements.
- b. The person(s) who performed the sampling or measurements.
- c. The date(s) the analyses were performed.
- d. The person(s) who performed the analyses.
- e. The analytical techniques or methods used; and the associated detection level.
- f. The results of such analyses.

4. Test Procedures

- a. Facilities that test or analyze environmental samples used to demonstrate compliance with this permit shall be in compliance with laboratory accreditation requirements of Act 90 of 2002 (27 Pa. C.S. §§ 4101-4113) and 25 Pa. Code Chapter 252, relating to environmental laboratory accreditation.
- b. Test procedures (methods) for the analysis of pollutants or pollutant parameters shall be those approved under 40 CFR Part 136 or required under 40 CFR Chapter I, Subchapters N or O, unless the method is specified in this permit or has been otherwise approved in writing by DEP. (40 CFR 122.41(j)(4), 122.44(i)(1)(iv))
- c. Test procedures (methods) for the analysis of pollutants or pollutant parameters shall be sufficiently sensitive. A method is sufficiently sensitive when 1) the method minimum level is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or 2) the method has the lowest minimum level of the analytical methods approved under 40 CFR Part 136 or required under 40 CFR Chapter I, Subchapters N or O, for the measured pollutant or pollutant parameter; or 3) the method is specified in this permit or has been otherwise approved in writing by DEP for the measured pollutant or pollutant parameter. Permittees have the option of providing matrix or sample-specific minimum levels rather than the published levels. (40 CFR 122.44(i)(1)(iv))

5. Quality/Assurance/Control

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In an effort to assure accurate self-monitoring analyses results:

- a. The permittee, or its designated laboratory, shall participate in the periodic scheduled quality assurance inspections conducted by DEP and EPA. (40 CFR 122.41(e), 122.41(i)(3))
- b. The permittee, or its designated laboratory, shall develop and implement a program to assure the quality and accurateness of the analyses performed to satisfy the requirements of this permit, in accordance with 40 CFR Part 136. (40 CFR 122.41(j)(4))

B. Reporting of Monitoring Results

1. The permittee shall effectively monitor the operation and efficiency of all wastewater treatment and control facilities, and the quantity and quality of the discharge(s) as specified in this permit. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.44, 92a.61(i) and 40 CFR §§ 122.41(e), 122.44(i)(1))
2. The permittee shall use DEP's electronic Discharge Monitoring Report (eDMR) system to report the results of compliance monitoring under this permit (see www.dep.pa.gov/edmr). Permittees that are not using the eDMR system as of the effective date of this permit shall submit the necessary registration and trading partner agreement forms to DEP's Bureau of Clean Water (BCW) within 30 days of the effective date of this permit and begin using the eDMR system when notified by DEP BCW to do so. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.61(g) and 40 CFR § 122.41(l)(4))
3. Submission of a physical (paper) copy of a Discharge Monitoring Report (DMR) is acceptable under the following circumstances:
 - a. For a permittee that is not yet using the eDMR system, the permittee shall submit a physical copy of a DMR to the DEP regional office that issued the permit during the interim period between the submission of registration and trading partner agreement forms to DEP and DEP's notification to begin using the eDMR system.
 - b. For any permittee, as a contingency a physical DMR may be mailed to the DEP regional office that issued the permit if there are technological malfunction(s) that prevent the successful submission of a DMR through the eDMR system. In such situations, the permittee shall submit the DMR through the eDMR system within 5 days following remedy of the malfunction(s).
4. DMRs must be completed in accordance with DEP's published DMR instructions (3800-FM-BCW0463). DMRs must be received by DEP no later than 28 days following the end of the monitoring period. DMRs are based on calendar reporting periods and must be received by DEP in accordance with the following schedule:
 - Monthly DMRs must be received within 28 days following the end of each calendar month.
 - Quarterly DMRs must be received within 28 days following the end of each calendar quarter, i.e., January 28, April 28, July 28, and October 28.
 - Semiannual DMRs must be received within 28 days following the end of each calendar semiannual period, i.e., January 28 and July 28.
 - Annual DMRs must be received by January 28, unless Part C of this permit requires otherwise.
5. The permittee shall complete all Supplemental Reporting forms (Supplemental DMRs) attached to this permit, or an approved equivalent, and submit the signed, completed forms as attachments to the DMR, through DEP's eDMR system. DEP's Supplemental Laboratory Accreditation Form (3800-FM-BCW0189) must be completed and submitted to DEP with the first DMR following issuance of this permit, and anytime thereafter when changes to laboratories or methods occur. (25 Pa. Code §§ 92a.3(c), 92a.41(a), 92a.61(g) and 40 CFR § 122.41(l)(4))
6. The completed DMR Form shall be signed and certified by either of the following applicable persons, as defined in 25 Pa. Code § 92a.22:

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- For a corporation - by a principal executive officer of at least the level of vice president, or an authorized representative, if the representative is responsible for the overall operation of the facility from which the discharge described in the NPDES form originates.
- For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
- For a municipality, state, federal or other public agency - by a principal executive officer or ranking elected official.

If signed by a person other than the above and for co-permittees, written notification of delegation of DMR signatory authority must be submitted to DEP in advance of or along with the relevant DMR form. (40 CFR § 122.22(b))

7. If the permittee monitors any pollutant at monitoring points as designated by this permit, using analytical methods described in Part A III.A.4. herein, more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR. (40 CFR 122.41(l)(4)(ii))

C. Reporting Requirements

1. Planned Changes to Physical Facilities – The permittee shall give notice to DEP as soon as possible but no later than 30 days prior to planned physical alterations or additions to the permitted facility. A permit under 25 Pa. Code Chapter 91 may be required for these situations prior to implementing the planned changes. A permit application, or other written submission to DEP, can be used to satisfy the notification requirements of this section.

Notice is required when:

- a. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b). (40 CFR 122.41(l)(1)(i))
 - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are not subject to effluent limitations in this permit. (40 CFR 122.41(l)(1)(ii))
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan. (40 CFR 122.41(l)(1)(iii))
 - d. The planned change may result in noncompliance with permit requirements. (40 CFR 122.41(l)(2))
2. Planned Changes to Waste Stream – Under the authority of 25 Pa. Code § 92a.24(a), the permittee shall provide notice to DEP as soon as possible but no later than 45 days prior to any planned changes in the volume or pollutant concentration of its influent waste stream as a result of indirect discharges or hauled-in wastes, as specified in paragraphs 2.a. and 2.b., below. Notice shall be provided on the "Planned Changes to Waste Stream" Supplemental Report (3800-FM-BPNPSM0482), available on DEP's website. The permittee shall provide information on the quality and quantity of waste introduced into the facility, and any anticipated impact of the change on the quantity or quality of effluent to be discharged from the facility. The Report shall be sent via Certified Mail or other means to confirm DEP's receipt of the notification. DEP will determine if the submission of a new application and receipt of a new or amended permit is required.
 - a. Introduction of New Pollutants (25 Pa. Code § 92a.24(a))

New pollutants are defined as parameters that meet all of the following criteria:

- (i) Were not detected in the facilities' influent waste stream as reported in the permit application; and

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- (ii) Have not been approved to be included in the permittee's influent waste stream by DEP in writing.

The permittee shall provide notification of the introduction of new pollutants in accordance with paragraph 2 above. The permittee may not authorize the introduction of new pollutants until the permittee receives DEP's written approval.

b. Increased Loading of Approved Pollutants (25 Pa. Code § 92a.24(a))

Approved pollutants are defined as parameters that meet one or more of the following criteria:

- (i) Were detected in the facilities' influent waste stream as reported in the permittee's permit application; or
- (ii) Have been approved to be included in the permittee's influent waste stream by DEP in writing; or
- (iii) Have an effluent limitation or monitoring requirement in this permit.

The permittee shall provide notification of the introduction of increased influent loading (lbs/day) of approved pollutants in accordance with paragraph 2 above when (1) the cumulative increase in influent loading (lbs/day) exceeds 20% of the maximum loading reported in the permit application, or a loading previously approved by DEP, or (2) may cause an exceedance in the effluent of Effluent Limitation Guidelines (ELGs) or limitations in Part A of this permit, or (3) may cause interference or pass through at the facility, or (4) may cause exceedances of the applicable water quality standards in the receiving stream. Unless specified otherwise in this permit, if DEP does not respond to the notification within 30 days of its receipt, the permittee may proceed with the increase in loading. The acceptance of increased loading of approved pollutants may not result in an exceedance of ELGs or effluent limitations and may not cause exceedances of the applicable water quality standards in the receiving stream.

3. Reporting Requirements for Hauled-In Wastes

a. Receipt of Residual Waste

- (i) The permittee shall document the receipt of all hauled-in residual wastes (including but not limited to wastewater from oil and gas wells, food processing waste, and landfill leachate), as defined at 25 Pa. Code § 287.1, that are received for processing at the treatment facility. The permittee shall report hauled-in residual wastes on a monthly basis to DEP on the "Hauled In Residual Wastes" Supplemental Report (3800-FM-BPNPSM0450) as an attachment to the DMR. If no residual wastes were received during a month, submission of the Supplemental Report is not required.

The following information is required by the Supplemental Report. The information used to develop the Report shall be retained by the permittee for five years from the date of receipt and must be made available to DEP or EPA upon request.

- (1) The dates that residual wastes were received.
- (2) The volume (gallons) of wastes received.
- (3) The license plate number of the vehicle transporting the waste to the treatment facility.
- (4) The permit number(s) of the well(s) where residual wastes were generated, if applicable.
- (5) The name and address of the generator of the residual wastes.
- (6) The type of wastewater.

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The transporter of residual waste must maintain these and other records as part of the daily operational record (25 Pa. Code § 299.219). If the transporter is unable to provide this information or the permittee has not otherwise received the information from the generator, the residual wastes shall not be accepted by the permittee until such time as the permittee receives such information from the transporter or generator.

- (ii) The following conditions apply to the characterization of residual wastes received by the permittee:
 - (1) If the generator is required to complete a chemical analysis of residual wastes in accordance with 25 Pa. Code § 287.51, the permittee must receive and maintain on file a chemical analysis of the residual wastes it receives. The chemical analysis must conform to the Bureau of Waste Management's Form 26R except as noted in paragraph (2), below. Each load of residual waste received must be covered by a chemical analysis if the generator is required to complete it.
 - (2) For wastewater generated from hydraulic fracturing operations ("frac wastewater") within the first 30 production days of a well site, the chemical analysis may be a general frac wastewater characterization approved by DEP. Thereafter, the chemical analysis must be waste-specific and be reported on the Form 26R.

b. Receipt of Municipal Waste

- (i) The permittee shall document the receipt of all hauled-in municipal wastes (including but not limited to septage and liquid sewage sludge), as defined at 25 Pa. Code § 271.1, that are received for processing at the treatment facility. The permittee shall report hauled-in municipal wastes on a monthly basis to DEP on the "Hauled In Municipal Wastes" Supplemental Report (3800-FM-BPNPSM0437) as an attachment to the DMR. If no municipal wastes were received during a month, submission of the Supplemental Report is not required.

The following information is required by the Supplemental Report:

- (1) The dates that municipal wastes were received.
- (2) The volume (gallons) of wastes received.
- (3) The BOD₅ concentration (mg/l) and load (lbs) for the wastes received.
- (4) The location(s) where wastes were disposed of within the treatment facility.
- (ii) Sampling and analysis of hauled-in municipal wastes must be completed to characterize the organic strength of the wastes, unless composite sampling of influent wastewater is performed at a location downstream of the point of entry for the wastes.

4. Unanticipated Noncompliance or Potential Pollution Reporting

- a. Immediate Reporting - The permittee shall immediately report any incident causing or threatening pollution in accordance with the requirements of 25 Pa. Code §§ 91.33 and 92a.41(b).
 - (i) If, because of an accident, other activity or incident a toxic substance or another substance which would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property, the permittee shall immediately notify DEP by telephone of the location and nature of the danger. Oral notification to the Department is required as soon as possible, but no later than 4 hours after the permittee becomes aware of the incident causing or threatening pollution.

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- (ii) If reasonably possible to do so, the permittee shall immediately notify downstream users of the waters of the Commonwealth to which the substance was discharged. Such notice shall include the location and nature of the danger.
 - (iii) The permittee shall immediately take or cause to be taken steps necessary to prevent injury to property and downstream users of the waters from pollution or a danger of pollution and, in addition, within 15 days from the incident, shall remove the residual substances contained thereon or therein from the ground and from the affected waters of this Commonwealth to the extent required by applicable law.
- b. The permittee shall report any noncompliance which may endanger health or the environment in accordance with the requirements of 40 CFR 122.41(l)(6). These requirements include the following obligations:
- (i) 24 Hour Reporting - The permittee shall orally report any noncompliance with this permit which may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which must be reported within 24 hours under this paragraph:
 - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
 - (2) Any upset which exceeds any effluent limitation in the permit; and
 - (3) Violation of the maximum daily discharge limitation for any of the pollutants listed in the permit as being subject to the 24-hour reporting requirement. (40 CFR 122.44(g))
 - (ii) Written Report - A written submission shall also be provided within 5 days of the time the permittee becomes aware of any noncompliance which may endanger health or the environment. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
 - (iii) Waiver of Written Report - DEP may waive the written report on a case-by-case basis if the associated oral report has been received within 24 hours from the time the permittee becomes aware of the circumstances which may endanger health or the environment. Unless such a waiver is expressly granted by DEP, the permittee shall submit a written report in accordance with this paragraph. (40 CFR 122.41(l)(6)(iii))

5. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under paragraph C.4 of this section or specific requirements of compliance schedules, at the time DMRs are submitted, on the Non-Compliance Reporting Form (3800-FM-BPNPSM0440). The reports shall contain the information listed in paragraph C.4.b.(ii) of this section. (40 CFR 122.41(l)(7))

- D. Specific Toxic Pollutant Notification Levels (for Manufacturing, Commercial, Mining, and Silvicultural Direct Dischargers) - The permittee shall notify DEP as soon as it knows or has reason to believe the following: (40 CFR 122.42(a))
- 1. That any activity has occurred, or will occur, which would result in the discharge of any toxic pollutant which is not limited in this permit, if that discharge on a routine or frequent basis will exceed the highest of the following "notification levels": (40 CFR 122.42(a)(1))
 - a. One hundred micrograms per liter.
 - b. Two hundred micrograms per liter for acrolein and acrylonitrile.

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- c. Five hundred micrograms per liter for 2,4-dinitrophenol and 2-methyl-4,6-dinitrophenol.
 - d. One milligram per liter for antimony.
 - e. Five times the maximum concentration value reported for that pollutant in this permit application.
 - f. Any other notification level established by DEP.
2. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following "notification levels": (40 CFR 122.42(a)(2))
- a. Five hundred micrograms per liter.
 - b. One milligram per liter for antimony.
 - c. Ten times the maximum concentration value reported for that pollutant in the permit application.
 - d. Any other notification level established by DEP.

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PART B

I. MANAGEMENT REQUIREMENTS

A. Compliance

1. The permittee shall comply with all conditions of this permit. If a compliance schedule has been established in this permit, the permittee shall achieve compliance with the terms and conditions of this permit within the time frames specified in this permit. (40 CFR 122.41(a)(1))
2. The permittee shall submit reports of compliance or noncompliance, or progress reports as applicable, for any interim and final requirements contained in this permit. Such reports shall be submitted no later than 14 days following the applicable schedule date or compliance deadline. (25 Pa. Code § 92a.51(c), 40 CFR 122.47(a)(4))

B. Permit Modification, Termination, or Revocation and Reissuance

1. This permit may be modified, terminated, or revoked and reissued during its term in accordance with 25 Pa. Code § 92a.72 and 40 CFR 122.41(f).
2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. (40 CFR 122.41(f))
3. In the absence of DEP action to modify or revoke and reissue this permit, the permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time specified in the regulations that establish those standards or prohibitions. (40 CFR 122.41(a)(1))

C. Duty to Provide Information

1. The permittee shall furnish to DEP, within a reasonable time, any information which DEP may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. (40 CFR 122.41(h))
2. The permittee shall furnish to DEP, upon request, copies of records required to be kept by this permit. (40 CFR 122.41(h))
3. Other Information - Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to DEP, it shall promptly submit the correct and complete facts or information. (40 CFR 122.41(l)(8))

D. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes, but is not limited to, adequate laboratory controls including appropriate quality assurance procedures. This provision also includes the operation of backup or auxiliary facilities or similar systems that are installed by the permittee, only when necessary to achieve compliance with the terms and conditions of this permit. (40 CFR 122.41(e))

E. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge, sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment. (40 CFR 122.41(d))

F. Bypassing

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1. Bypassing Not Exceeding Permit Limitations - The permittee may allow a bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions in paragraphs two, three and four of this section. (40 CFR 122.41(m)(2))
2. Other Bypassing - In all other situations, bypassing is prohibited and DEP may take enforcement action against the permittee for bypass unless:
 - a. A bypass is unavoidable to prevent loss of life, personal injury or "severe property damage." (40 CFR 122.41(m)(4)(i)(A))
 - b. There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance. (40 CFR 122.41(m)(4)(i)(B))
 - c. The permittee submitted the necessary notice required in F.4.a. and b. below. (40 CFR 122.41(m)(4)(i)(C))
3. DEP may approve an anticipated bypass, after considering its adverse effects, if DEP determines that it will meet the conditions listed in F.2. above. (40 CFR 122.41(m)(4)(ii))
4. Notice
 - a. Anticipated Bypass – If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible, at least 10 days before the bypass. (40 CFR 122.41(m)(3)(i))
 - b. Unanticipated Bypass – The permittee shall submit oral notice of any other unanticipated bypass within 24 hours, regardless of whether the bypass may endanger health or the environment or whether the bypass exceeds effluent limitations. The notice shall be in accordance with Part A III.C.4.b.

II. PENALTIES AND LIABILITY

A. Violations of Permit Conditions

Any person violating Sections 301, 302, 306, 307, 308, 318 or 405 of the Clean Water Act or any permit condition or limitation implementing such sections in a permit issued under Section 402 of the Act is subject to civil, administrative and/or criminal penalties as set forth in 40 CFR 122.41(a)(2).

Any person or municipality, who violates any provision of this permit; any rule, regulation or order of DEP; or any condition or limitation of any permit issued pursuant to the Clean Streams Law, is subject to criminal and/or civil penalties as set forth in Sections 602, 603 and 605 of the Clean Streams Law.

B. Falsifying Information

Any person who does any of the following:

- Falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit, or
- Knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit (including monitoring reports or reports of compliance or noncompliance)

Shall, upon conviction, be punished by a fine and/or imprisonment as set forth in 18 Pa.C.S.A § 4904 and 40 CFR 122.41(j)(5) and (k)(2).

C. Liability

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Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance pursuant to Section 309 of the Clean Water Act or Sections 602, 603 or 605 of the Clean Streams Law.

Nothing in this permit shall be construed to preclude the institution of any legal action or to relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject to under the Clean Water Act and the Clean Streams Law.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (40 CFR 122.41(c))

III. OTHER RESPONSIBILITIES

A. Right of Entry

Pursuant to Sections 5(b) and 305 of Pennsylvania's Clean Streams Law, and Title 25 Pa. Code Chapter 92a and 40 CFR 122.41(i), the permittee shall allow authorized representatives of DEP and EPA, upon the presentation of credentials and other documents as may be required by law:

1. To enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit; (40 CFR 122.41(i)(1))
2. To have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit; (40 CFR 122.41(i)(2))
3. To inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and (40 CFR 122.41(i)(3))
4. To sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act or the Clean Streams Law, any substances or parameters at any location. (40 CFR 122.41(i)(4))

B. Transfer of Permits

1. Transfers by modification. Except as provided in paragraph 2 of this section, a permit may be transferred by the permittee to a new owner or operator only if this permit has been modified or revoked and reissued, or a minor modification made to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act. (40 CFR 122.61(a))
2. Automatic transfers. As an alternative to transfers under paragraph 1 of this section, any NPDES permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies DEP at least 30 days in advance of the proposed transfer date in paragraph 2.b. of this section; (40 CFR 122.61(b)(1))
 - b. The notice includes the appropriate DEP transfer form signed by the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between them; (40 CFR 122.61(b)(2))
 - c. DEP does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue this permit, the transfer is effective on the date specified in the agreement mentioned in paragraph 2.b. of this section; and (40 CFR 122.61(b)(3))

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- d. The new permittee is in compliance with existing DEP issued permits, regulations, orders and schedules of compliance, or has demonstrated that any noncompliance with the existing permits has been resolved by an appropriate compliance action or by the terms and conditions of the permit (including compliance schedules set forth in the permit), consistent with 25 Pa. Code § 92a.51 (relating to schedules of compliance) and other appropriate DEP regulations. (25 Pa. Code § 92a.71)
- 3. In the event DEP does not approve transfer of this permit, the new owner or operator must submit a new permit application.
- C. Property Rights
The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege. (40 CFR 122.41(g))
- D. Duty to Reapply
If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit. (40 CFR 122.41(b))
- E. Other Laws
The issuance of this permit does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations.

IV. ANNUAL FEES

Permittees shall pay an annual fee in accordance with 25 Pa. Code § 92a.62. Annual fee amounts are specified in the following schedule and are due on each anniversary of the effective date of the most recent new or reissued permit. All flows identified in the schedule are annual average design flows. (25 Pa. Code § 92a. 62)

Minor IW Facility without ELG (Effluent Limitation Guideline)	\$500
Minor IW Facility with ELG	\$1,500
Major IW Facility < 250 MGD (million gallons per day)	\$5,000
Major IW Facility ≥ 250 MGD	\$25,000
IW Stormwater Individual Permit	\$1,000
CAAP (Concentrated Aquatic Animal Production Facility)	\$0

As of the effective date of this permit, the facility covered by the permit is classified in the following fee category:
Minor IW Facility without ELG.

Invoices for annual fees will be mailed to permittees approximately three months prior to the due date. In the event that an invoice is not received, the permittee is nonetheless responsible for payment. Throughout a five year permit term, permittees will pay four annual fees followed by a permit renewal application fee in the last year of permit coverage. Permittees may contact DEP at 717-787-6744 with questions related to annual fees. The fees identified above are subject to change in accordance with 25 Pa. Code § 92a.62(e).

Payment for annual fees shall be remitted to DEP at the address below by the anniversary date. Checks should be made payable to the Commonwealth of Pennsylvania.

PA Department of Environmental Protection
Bureau of Point and Non-Point Source Management
Re: Chapter 92a Annual Fee
P.O. Box 8466
Harrisburg, PA 17105-8466

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PART C**I. OTHER REQUIREMENTS**

- A. The approval herein given is specifically made contingent upon the permittee acquiring all necessary property rights by easement or otherwise, providing for the satisfactory construction, operation, maintenance or replacement of all structures associated with the herein approved discharge in, along, or across private property, with full rights of ingress, egress and regress.
- B. Collected screenings, slurries, sludges, and other solids shall be handled, recycled and/or disposed of in compliance with the Solid Waste Management Act (35 P.S. §§ 6018.101 – 6018.1003), 25 Pa. Code Chapters 287, 288, 289, 291, 295, 297, and 299 (relating to requirements for landfilling, impoundments, land application, composting, processing, and storage of residual waste), Chapters 261a, 262a, 263a, and 270a (related to identification of hazardous waste, requirements for generators and transporters, and hazardous waste, requirements for generators and transporters, and hazardous waste permit programs), federal regulation 40 CFR Part 257, The Clean Streams Law, and the Federal Clean Water Act and its amendments. Screenings collected at intake structures shall be collected and managed and not be returned to the receiving waters.

The permittee is responsible to obtain or assure that contracted agents have all necessary permits and approvals for the handling, storage, transport and disposal of solid waste materials generated as a result of wastewater treatment.

- C. The terms and conditions of Water Quality Management (WQM) permits that may have been issued to the permittee relating to discharge requirements are superseded by this NPDES permit unless otherwise stated herein.
- D. If the applicable standard or effluent guideline limitation relating to the application for Best Available Technology (BAT) Economically Achievable or to Best Conventional Technology (BCT) is developed by DEP or EPA for this type of industry, and if such standard or limitation is more stringent than the corresponding limitations of this permit (or if it controls pollutants not covered by this permit), DEP may modify or revoke and reissue the permit to conform with that standard or limitation.
- E. The permittee shall obtain a Water Quality Management (WQM) permit from DEP for construction of treatment facilities and complete construction in accordance with the WQM permit application prior to commencing discharges from Outfall 002.
- F. Within 120 days of commencement of discharges from Outfall 002, the permittee shall submit effluent sampling and analytical results consistent with the requirements of the NPDES Application for Permit to Discharge Industrial Wastewater. The permittee shall provide written notification that the discharges have commenced within 5 days of commencement of discharges from Outfall 002.
- G. The permittee shall perform reconnaissance of the western and northern perimeters of the Slurry Lagoon Area at least once per month at times when the groundwater table is likely to be elevated. If the permittee identifies any groundwater seepage discharges or point-source storm water discharges from the site to either the road-side storm water channel or the downstream intermittent tributary to Glade Run, those discharges shall be sampled and analyzed in accordance with the required analyses for such discharges (groundwater or storm water, as applicable) in DEP's NPDES Application for Individual Permit to Discharge Industrial Wastewater Instructions [Doc. No. 3800-PM-BCW0008a]. The results of the analyses shall be submitted to DEP within 30 days of the sample collection.

II. SCHEDULE OF COMPLIANCE

- A. The permittee shall achieve compliance with final effluent limitations at Outfalls 005, 006, and 007 for aluminum, antimony, arsenic, cadmium, chromium, copper, total and dissolved iron, and lead as specified in Part A, Sections I.I, I.K, and I.M of this permit or terminate the discharge(s) in accordance with the following schedule:

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|----|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Submit a WQM Part II Permit Application for permanent treatment facilities | <u>Within 6 months of the permit effective date</u> |
| 2. | Permitting and/or construction progress report(s) | <u>Every 4 months starting one year after the permit effective date and ending upon completion of construction</u> |
| 3. | Compliance with effluent limitations | <u>90 days after Start-up of the Enhanced Collection and Treatment System or within 54 months of the permit effective date, whichever occurs first</u> |
- B. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit to DEP a written notice of compliance or non-compliance with the specific schedule requirement. Each notice of non-compliance shall include the following information:
1. A short description of the non-compliance.
 2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirement.
 3. A description of any factors which tend to explain or mitigate the non-compliance.
 4. An estimate of the date that compliance with the elapsed schedule requirement will be achieved and an assessment of the probability that the next scheduled requirement will be met on time.

III. REQUIREMENTS APPLICABLE TO STORMWATER

- A. The permittee is authorized to discharge non-polluting stormwater from its site, alone or in combination with other wastewaters.
- B. Stormwater Annual Report.

The permittee shall submit a complete Annual Report to the DEP office that issued the permit by May 1 each year using DEP's Annual Report template, attached to this permit. The Annual Report shall address activities under the permit for the previous calendar year. The permittee shall submit the Annual Report electronically if notified by DEP in writing. If the permittee discharges to a municipal separate storm sewer system (MS4), a copy of the Annual Report shall be submitted to the operator of the MS4.

- C. Best Management Practices (BMPs).

The permittee shall implement and, as necessary, maintain the following BMPs to remain in compliance with this permit.

1. Pollution Prevention and Exposure Minimization.

The permittee shall minimize the exposure of manufacturing, processing, and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) to rain, snow, snowmelt, and runoff in order to minimize pollutant discharges by either locating industrial materials and activities inside or protecting them with storm resistant coverings wherever feasible. The permittee shall implement and maintain the following measures, at a minimum:

- a. Use grading, berming or curbing to prevent runoff of polluted stormwater and divert run-on away from areas that contain polluted stormwater
- b. Locate materials, equipment, and activities so that potential leaks and spills are contained or able to be contained or diverted before discharge to surface waters
- c. Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants to surface waters

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- d. Store leaky vehicles and equipment indoors or, if stored outdoors, use drip pans and absorbents to prevent the release of pollutants to the environment.
 - e. Use spill/overflow protection equipment.
 - f. Perform all vehicle and/or equipment cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also that capture any overspray.
 - g. Drain fluids from equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will remain unused for extended periods of time, inspect at least monthly for leaks.
 - h. Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids, ensure that discharges have a control (e.g., secondary containment, treatment). This General Permit does not authorize dry weather discharges from dumpsters or roll off boxes.
 - i. Minimize contamination of stormwater runoff from fueling areas by implementing the following BMPs where determined to be feasible: cover fueling areas; install oil/water separators or oil and grease traps in fueling area storm drains; use berms to prevent run-on to and runoff from fueling areas; use spill/overflow protection and cleanup equipment; use dry cleanup methods; and/or treat and/or recycle collected stormwater runoff.
 - j. Train employees routinely (no less than annually) on pollution prevention practices as contained in the PPC Plan.
2. Good Housekeeping.

The permittee shall perform good housekeeping measures in order to minimize pollutant discharges including the routine implementation of the following measures, at a minimum:

- a. Implement a routine cleaning and maintenance program for all impervious areas of the facility where particulate matter, dust or debris may accumulate to minimize the discharge of pollutants in stormwater. The cleaning and maintenance program must encompass, as appropriate, areas where material loading and unloading, storage, handling and processing occur.
 - b. Store materials in appropriate containers.
 - c. Minimize the potential for waste, garbage and floatable debris to be discharged by keeping exposed areas free of such materials, or by intercepting them before they are discharged.
 - d. Eliminate floor drain connections to storm sewers.
 - e. Use drip pans, drain boards, and drying racks to direct drips back into a fluid holding tank for reuse. Drain fluids from all equipment and parts prior to disposal. Promptly transfer used fluids to the proper container; do not leave full drip pans or other open containers around the shop. Empty and clean drip pans and containers.
 - f. Label and track the recycling of waste material (e.g., used oil, spent solvents, batteries).
 - g. Prohibit the practice of hosing down an area where the practice would result in the discharge of pollutants to a municipal or other storm water collection system that conveys pollutants off-site without proper treatment.
3. Erosion and Sediment Controls.
- b. The permittee shall minimize erosion and pollutant discharges by stabilizing exposed soils and placing flow velocity dissipation devices at discharge locations to minimize channel and stream bank erosion and scour in the immediate vicinity of stormwater outfalls.

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- c. The permittee shall conduct all earth disturbance activities and, when applicable, shall maintain all post-construction stormwater management (PCSM) BMPs in accordance with 25 Pa. Code Chapter 102.
- d. The permittee may not utilize polymers or other chemicals to treat stormwater unless written permission is obtained from DEP.

4. Spill Prevention and Responses.

The permittee shall minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop a PPC Plan for effective responses to such releases. The permittee shall conduct the following spill prevention and response measures, at a minimum:

- e. Maintain an organized inventory of materials on-site. Plainly label containers (e.g., "Used Oil," "Spent Solvents," "Fertilizers and Pesticides") that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur.
- f. Implement procedures for material storage and handling, including the use of secondary containment and barriers between material storage and traffic areas, or a similarly effective means designed to prevent the discharge of pollutants from these areas.
- g. Develop and implement employee and contractor training on the procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases. The permittee shall conduct periodic training, no less than annually, and document the training on the Annual Report specified in paragraph B of this section.
- h. Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be made.
- i. Notify appropriate facility personnel when a leak, spill, or other release occurs.
- j. To the extent possible, eliminate or reduce the number and amount of hazardous materials and waste by substituting non-hazardous or less hazardous materials of equal function, as determined by the permittee.
- k. Clean up leaks, drips, and other spills without using large amounts of water or liquid cleaners. Use absorbents for dry cleanup whenever possible.

When a leak, spill or other release occurs during a 24-hour period that contains a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under 40 CFR Parts 110, 117 or 302, the permittee shall, in addition to the notification requirements contained in Part A III.C.4 of this permit, notify the National Response Center (NRC) at (800) 424-8802 in accordance with the requirements of 40 CFR Parts 110, 117, and 302 as soon as the permittee becomes aware of the discharge.

5. Site-Specific BMPs.

- a. The permittee shall implement a preventive maintenance program and shall maintain all elements of leachate collection and treatment systems and limit commingling of leachate with stormwater.
- b. Provide stabilization (e.g., seeding, mulching, vegetative cover) to minimize discharges of pollutants in stormwater, prevent the migration of waste material offsite, and minimize the effects of erosion.

D. Routine Inspections.

- 1. The permittee shall visually inspect the following areas and BMPs on a semiannual basis (calendar periods), at a minimum:

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- a. Areas where industrial materials or activities are exposed to stormwater.
- b. Areas identified in the PPC Plan as potential pollutant sources.
- c. Areas where spills or leaks have occurred in the past three years.
- d. Stormwater outfalls and locations where authorized non-stormwater discharges may commingle.
- e. Physical BMPs used to comply with this permit.

At least once each calendar year, the routine inspection must be conducted during a period when a stormwater discharge is occurring.

2. The permittee shall evaluate and document the following conditions, at a minimum, in the Annual Report required by paragraph B of this section through required inspections:
 - a. Raw materials, products or wastes that may have or could come into contact with stormwater.
 - b. Leaks or spills from equipment, drums, tanks and other containers.
 - c. Off-site tracking of industrial or waste materials, or sediment where vehicles enter or exit the site.
 - d. Tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas.
 - e. Control measures or BMPs needing replacement, maintenance or repair.
 - f. The presence of authorized non-stormwater discharges that were not identified in the permit application and non-stormwater discharges not authorized by this permit.

E. Preparedness, Prevention and Contingency (PPC) Plan

1. The permittee shall develop and implement a PPC Plan in accordance with 25 Pa. Code § 91.34 following the guidance contained in DEP's "Guidelines for the Development and Implementation of Environmental Emergency Response Plans" (DEP ID 400-2200-001), its NPDES-specific addendum and the minimum requirements below.
 - a. The PPC Plan must identify all potential sources of pollutants that may reasonably be expected to affect the quality of stormwater discharges from the facility.
 - b. The PPC Plan must describe preventative measures and BMPs that will be implemented to reduce or eliminate pollutants from coming into contact with stormwater resulting from routine site activities and spills.
 - c. The PPC Plan must address actions that will be taken in response to on-site spills or other pollution incidents.
 - d. The PPC Plan must identify areas which, due to topography or other factors, have a high potential for soil erosion, and identify measures to limit erosion. Where necessary, erosion and sediment control measures must be developed and implemented in accordance with 25 Pa. Code Chapter 102 and DEP's "Erosion and Sediment Pollution Control Manual" (DEP ID 363-2134-008).
 - e. The PPC Plan must address security measures to prevent accidental or intentional entry which could result in an unintentional discharge of pollutants.
 - f. The PPC Plan must include a plan for training employees and contractors on pollution prevention, BMPs, and emergency response measures. This training must be conducted in accordance with paragraph C.4.c of this section.

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- g. If the facility is subject to SARA Title III, Section 313, the PPC Plan must identify releases of "Water Priority Chemicals" within the previous three years. Water Priority Chemicals are those identified in EPA's "Guidance for the Determination of Appropriate Methods for the Detection of Section 313 Water Priority Chemicals" (EPA 833-B-94-001, April 1994). The Plan must include an evaluation of all activities that may result in the stormwater discharge of Water Priority Chemicals.
 - h. Spill Prevention Control and Countermeasure (SPCC) plans may be used to meet the requirements of this section if the minimum requirements are addressed.
2. The permittee shall review and if necessary update the PPC Plan on an annual basis, at a minimum, and when one or more of the following occur:
 - a. Applicable DEP or federal regulations are revised, or this permit is revised.
 - b. The PPC Plan fails in an emergency.
 - c. The facility's design, industrial process, operation, maintenance, or other circumstances change in a manner that materially increases the potential for fires, explosions or releases of toxic or hazardous constituents; or which changes the response necessary in an emergency.
 - d. The list of emergency coordinators or equipment changes.
 - e. When notified in writing by DEP.

The permittee shall maintain all PPC Plan updates on-site, make the updates available to DEP upon request, and document the updates in Annual Reports.

F. Stormwater Monitoring Requirements.

1. The permittee shall conduct monitoring of its stormwater discharges at the representative outfalls identified in Part A of this permit, if applicable. The permittee shall document stormwater sampling event information and no exposure conditions for each calendar year on the Annual Report required by paragraph B of this section.
2. The permittee shall, upon written notice from DEP, install inlets, pipes, and/or other structures or devices that are considered necessary in order to conduct representative stormwater sampling, in accordance with a schedule provided by DEP.
3. The permittee shall collect all samples from discharges resulting from a storm event that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The 72-hour storm interval is waived when the preceding storm did not yield a measurable discharge, or if the permittee is able to document that a less than 72-hour interval is representative for local storm events during the sample period.
4. The permittee shall collect all grab samples within the first 30 minutes of a discharge, unless the permittee determines that this is not possible, in which case grab samples must be collected as soon as possible after the first 30 minutes of a discharge. The permittee shall explain why samples could not be collected within the first 30 minutes of any discharge on the Annual Report required by paragraph B of this section.
5. The permittee shall collect stormwater samples at times when commingling with non-stormwater discharges is not occurring or at locations prior to the commingling of non-stormwater discharges, unless Part A of this permit recognizes commingling of stormwater and non-stormwater discharges.

IV. REQUIREMENTS APPLICABLE TO STORMWATER OUTFALLS ASSOCIATED WITH CONSTRUCTION ACTIVITIES

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A. Erosion and Sedimentation Control (ESC) Plan

The permittee shall implement BMPs in the ESC Plan to restrict the discharge of pollutants into waters of the Commonwealth. The permittee shall design, build and at all times properly operate and maintain the facilities and controls installed or used to achieve compliance with the conditions of this authorization. BMPs shall be designed, implemented and maintained to eliminate contaminated storm water runoff and minimize uncontaminated storm water runoff. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures; proper operation and maintenance also requires the operation of backup auxiliary or emergency facilities or similar systems installed by the permittee only when necessary to achieve compliance with the conditions of this authorization.

B. Visual Inspections of BMPs and Erosion and Sedimentation Controls

In addition to the monitoring requirements specified in Part A of this permit, the permittee must insure that visual site inspections are conducted bi-weekly and after each precipitation event by qualified personnel trained and experienced in erosion and sedimentation control to ascertain that the BMPs and ESC measures are operational and effective in preventing pollution of the waters of the Commonwealth. A written report of each inspection shall be kept and include a summary of site conditions, BMPs, ESC measures and compliance and the date, time and name of the person conducting the inspection.

C. Supplemental Monitoring

The Department and Local Conservation District, when acting as the reviewing entity, reserves the right to require additional monitoring (beyond that required under Part A of this permit) where a danger of water pollution is present or water pollution is suspected to be occurring from any activity subject to this authorization. The permittee shall commence such monitoring upon notification from the Department or the Local Conservation District when acting as the reviewing entity.

D. All storm water discharges associated with these activities must comply with 25 Pa. Code Chapters 91-96, 102 and 105.

E. Notice of Termination

When all storm water discharges associated with construction activities permitted by this authorization are eliminated, the permittee may submit an NPDES permit amendment application to remove the corresponding outfalls (those that will not be transitioning to permanent outfalls) from the permit.

V. POST-CONSTRUCTION STORMWATER MANAGEMENT (PCSM)

A. This permit incorporates, by reference, the application and any other attachments, reports, plans, plan drawings, supplements, and other materials submitted by the applicant in support of its application.

B. This permit is not to be considered an approval of the structural or geotechnical analysis/design, the construction specifications, or the construction means and methods utilized during construction.

C. If the BMPs do not control volume of stormwater as designed or if excessive erosion or other indications of inadequate stormwater controls are observed, a permit modification request shall be submitted to the Department for approval of modifications to stormwater controls to meet the stormwater requirements and the approved modifications shall be implemented.

D. An evaluation of the potential post construction stormwater impacts was provided based on the site configurations expected at the time of the design. Should conditions or the design change or be modified thereby increasing potential for runoff (i.e. from additional impervious surfaces) a reevaluation must be conducted by the permittee. Any increase in stormwater rate or volume must be managed by site BMPs and the Department must be notified of the change. A permit modification may be required.

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- E. Any work which is not shown on the application site plans is not authorized by this permit. An amendment to the NPDES permit must be submitted by the permittee and approved by the Department before any future work different from the submitted application information begins on the site.
- F. Post construction BMPs should be implemented as detailed in the approved PCSM plan. Any changes or modifications to the PCSM plan, the introduction of alternate post-construction stormwater BMPs or the elimination of any approved post construction stormwater BMPs, must be approved by the DEP prior to any application of these changes on the permitted site.
- G. The PCSM Plan, inspection reports and monitoring records shall be available for review and inspection by the Department or the Conservation District.
- H. Qualified personnel shall conduct site compliance evaluations. Such evaluations shall include:
 - 1. Visual inspection and evaluation of areas contributing to a stormwater discharge for evidence of, or the potential for, pollutants entering a drainage system or waters of the Commonwealth.
 - 2. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of this authorization or whether additional control measures are needed. If needed, they shall be immediately implemented.
 - 3. Structural stormwater management measures, sediment and erosion control measures, and other structural pollution prevention measures identified in the plan shall be observed to ensure that they are operating correctly, and
 - 4. A visual inspection of equipment needed to implement the plan, such as spill response equipment, shall be made.
- I. Long-term Operation and Maintenance
 - 1. The permittee or co-permittee shall be responsible for long-term operation and maintenance of PCSM BMPs unless a different person is identified and that person has agreed to long-term operation and maintenance of PCSM BMPs.
 - 2. For any property containing a PCSM BMP, the permittee or co-permittee shall record an instrument with the Recorder of Deeds which will assure disclosure of the PCSM BMP and the related obligations in the ordinary course of a title search of the subject property. The recorded instrument must identify the PCSM BMP, provide for necessary access related to long-term operation and maintenance for PCSM BMPs, and provide notice that the responsibility for long-term operation and maintenance of the PCSM BMPs is a covenant that runs with the land that is binding upon and enforceable by subsequent grantees, and provide proof of filing to the Department upon permanent stabilization of the earth disturbance activity and the installation of PCSM BMP's in accordance with the approved plans in accordance with 25 Pa. Code § 102.8(m)(2).
 - 3. For Commonwealth-owned property, a covenant that runs with the land is not required until the transfer of the land containing a PCSM BMP occurs. Upon transfer of the Commonwealth-owned property containing the PCSM BMP, the deed must comply with 25 Pa. Code § 102.8(m)(3). An agency of the federal government shall not be required to make or record a declaration of covenants on its property until transfer of the property to a non-federal or non-commonwealth entity or individual. Upon transfer of the Commonwealth-owned or federally-owned property containing the PCSM BMP, the deed must comply with 25 Pa. Code § 102.8(m)(3).
 - 4. The person responsible for performing long-term operation and maintenance may enter into an agreement with another person, including a conservation district, nonprofit organization, municipality, authority, private corporation, or other person, to transfer the responsibility for PCSM BMPs or to perform long-term operation and maintenance and provide notice thereof to the Department.

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5. A permittee or co-permittee that fails to transfer long-term operation and maintenance of the PCSM BMPs or otherwise fails to comply with this requirement, shall remain jointly and severally responsible with the landowner for long-term operation and maintenance of the PCSM BMPs located on the property.
6. Unless a later date is approved by the Department in writing, the permittee shall record an instrument as required under 25 Pa. Code Subsection 102.8(m)(2) and Condition VIII.1.2 of this permit within 45 days from the date of issuance of this permit or authorization. Unless the Department authorizes a different procedure, the long-term operation and maintenance plan shall be recorded along with the instrument. Unless a later date is approved by the Department in writing, the permittee shall provide the conservation district and the Department with the date and place of recording along with a reference to the docket, deed book or other record, within 90 days from the date of issuance of this permit or authorization
7. Unless an alternative process is approved by the Department in writing, upon the sale or other transfer of any parcel, lot, road or other real property included within the permit boundary, the permittee shall notify the purchaser, grantee, or transferee of the long-term PCSM BMP operation and maintenance requirements. The permittee shall expressly identify the PCSM BMPs on each property, the schedule for inspection and reporting, the person or entity responsible for long-term operation and maintenance of the PCSM BMPs and how access to the BMPs will be achieved and shall obtain approval from the purchaser, grantee or transferee. Unless a later date is approved by the Department in writing, the permittee shall provide the conservation district and the Department with notice of compliance with this section within 45 days from the date of transfer of the property.

DRAFT

APPENDIX 2

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

In the Matter of:

PPG Industries, Inc.	:	
Ford City Disposal Site	:	The Clean Streams Law
Slurry Lagoon Area	:	Solid Waste Management Act
Solid Waste Disposal Area and Annex	:	Land Recycling Act
Cadogan and North Buffalo Townships	:	
Armstrong County, PA	:	

FIRST AMENDMENT TO 2019 CONSENT ORDER AND AGREEMENT

This First Amendment to the 2019 Consent Order and Agreement (“First Amendment”) is entered into this 4th day of November, 2020 by and between the Commonwealth of Pennsylvania Department of Environmental Protection (“Department”) and PPG Industries, Inc. (“PPG”).

Findings

The Department has found and determined the following:

Background

A. On April 2, 2019, the Department and PPG entered into a Consent Order and Agreement (hereinafter “2019 Consent Order and Agreement”) concerning the referenced site. The site is designated by the Department’s Environmental Cleanup Program as LRP#5-3-927-11151.

B. In a settlement of a third-party lawsuit in Federal Court (*PennEnvironment v. PPG Industries, Inc.*, No. 12-0342 (W.D. Pa.)), PPG agreed to certain additional monitoring requirements and modifications to the proposed site remedy and has requested to amend the 2019 Consent Order and Agreement to reflect the settlement. The modifications to the site remedy are

detailed in drawings attached to this First Amendment as Attachments 1 through 8, which are hereby incorporated by reference.

C. The 2019 Consent Order and Agreement is amended by this First Amendment and shall hereby be referred to collectively as the “Consent Order and Agreement, as amended.”

After full and complete negotiation of all matters set forth in this First Amendment and upon mutual exchange of covenants contained herein, the parties desiring to avoid litigation and intending to be legally bound, it is hereby ORDERED by the Department and AGREED to by PPG as follows:

1. **Authority.** This First Amendment to the 2019 Consent Order and Agreement is an Order of the Department authorized and issued pursuant to The Clean Streams Law, Act of June 22, 1937, P.L. 1987, *as amended*, 35 P.S. §§ 691.1 – 691.1001 (“The Clean Streams Law”); the Solid Waste Management Act, Act of July 7, 1980, P.L. 380, *as amended*, 35 P.S. §§ 6018.101 – 6018.1003; the Land Recycling and Environmental Remediation Standards Act, Act of May 19, 1995, P.L. 4, No. 1995-2, 35 P.S. §§ 6026.101 – 6026.909 (“Act 2”); Section 1917-A of the Administrative Code of 1929, Act of April 9, 1929, P.L. 177, as amended, 71 P.S. § 510-17; and the rules and regulations promulgated thereunder. Pursuant to a delegation from the United States Environmental Protection Agency (“EPA”), the Department also administers and is the primary enforcement authority for the National Pollutant Discharge Elimination System (“NPDES”) Program of the Federal Water Pollution Control Act, 33 U.S.C. § 1342 (also known as the Clean Water Act “CWA”). Pursuant to formal authorization by EPA and a Memorandum of Understanding, the Department also administers and is the primary enforcement authority for the Resource Conservation and Recovery Act (“RCRA”), 42 U.S.C. § 6901 *et seq.*, and has

agreed to ensure that all response activities conducted under Act 2 protect human health and the environment and comply with all applicable Federal law, including RCRA.

2. **Findings.**

a. PPG agrees that the findings in Paragraphs A through C are true and correct and, in any matter or proceeding involving PPG and the Department, PPG shall not challenge the accuracy or validity of these findings.

b. The parties do not authorize any other persons to use the findings in this First Amendment in any matter or proceeding.

3. Paragraph 3 of the 2019 Consent Order and Agreement is hereby replaced in its entirety with the following text:

PPG shall implement the SWDA/SWDA Annex portion of the Department-approved Act 2 Cleanup Plan submitted by PPG pursuant to Act 2, according to the following schedule:

3.a. Within ninety (90) days of the execution of this First Amendment, PPG shall complete any remaining investigation activities at the SWDA/SWDA Annex included in the Cleanup Plan, including complete reconnaissance of the SWDA/SWDA Annex for slope stability assessment and complete delineation sampling for arsenic;

3.b. Within thirty (30) days of the execution of this First Amendment, PPG shall submit a Revised Cleanup Plan to the Department for review and approval. The Revised Cleanup Plan shall include, but not be limited to the following additions:

i. The SWDA/SWDA Annex cleanup area shall be extended to include the areas identified in the figure attached as Attachment 1 to this First Amendment;

ii. *The soil cover for the entirety of the areas proposed for geotextile/soil cover to be covered as identified in Attachment 1 to this First Amendment shall be a minimum of 12 inches;*

3.c. *PPG shall correct all deficiencies in the Revised Cleanup Plan noted by the Department within the time frame set forth in the Department's notice of deficiency.*

3.d. *Within ten (10) days of Department approval of the Revised Cleanup Plan submitted pursuant to Paragraph 3.b, above, PPG shall request a pre-application permit meeting with the Department. Within ninety (90) days after having the pre-application meeting with the Department, PPG shall submit full and complete applications for all permits necessary to complete the remedial tasks included in the Revised Cleanup Plan at the SWDA/SWDA Annex, and shall correct all deficiencies noted by the Department within the timeframe set forth in the Department's notice of deficiency, except those deficiencies requesting information and approvals from other agencies.*

3.e. *Within two-hundred seventy (270) days of receiving all permits and approvals needed to complete a remedial task included in the Revised Cleanup Plan at the SWDA/SWDA Annex, PPG shall initiate the remedial task for which the permits and approvals have been issued.*

3.f. *PPG shall complete all remedial tasks included in the Revised Cleanup Plan at the SWDA/SWDA Annex within two (2) years of receiving all permits and approvals necessary to implement said remedy.*

4. Paragraph 4 of the 2019 Consent Order and Agreement is hereby replaced in its entirety with the following text:

PPG shall implement the approved Revised Treatment Plan Report portion of the Department-approved Act 2 Cleanup Plan, including the additional remedial measures identified in the March 2020 Water Quality Management permit application, according to the following schedule:

4.a. Within thirty (30) days of the execution of this First Amendment, PPG shall submit a Revised Cleanup Plan to the Department for review and approval. The Revised Cleanup Plan shall include, but not be limited to the following additions consistent with the additional remedial measures identified in the March 2020 Water Quality Management permit application:

i. Installation and operation of a shallow collection trench at the base of the southeastern portion of the SLA as depicted on the figures attached as Attachments 2 and 3 to this First Amendment. Such trench shall be designed to prevent the infiltration of non-impacted surface waters. Construction details of this collection system and expected pumping rates shall be included. Water removed from this trench shall be conveyed to the treatment system required by the Consent Order and Agreement, as amended;

ii. Installation and operation of a collection trench in the northwestern portion of the SLA as depicted on the figures attached as Attachment 4 to this First Amendment. Such trench shall be designed to prevent the infiltration of non-impacted surface waters. Construction details of this collection system and expected pumping rates shall be included. Water removed from this trench shall be conveyed to the

treatment system required by the Consent Order and Agreement, as amended;

iii. *Installation and operation of five vertical extraction wells spaced approximately forty-five feet apart in the southeast corner of the SLA as depicted on the figures attached as Attachments 2 and 3 to this First Amendment. Construction details of the extraction wells and expected pumping rates shall be included. Water removed from these wells shall be conveyed to the treatment system required by the Consent Order and Agreement, as amended;*

iv. *Installation and operation of six vertical extraction wells spaced approximately twenty-five feet apart in the south-central portion of the SLA as depicted on the figures attached as Attachments 2 and 3 to this First Amendment. Construction details of the extraction wells and expected pumping rates shall be included. Water removed from these wells shall be conveyed to the treatment system required by the Consent Order and Agreement, as amended;*

v. *Installation and operation of the western slope seep collection system that is conceptually depicted on the figures that are attached as Attachments 2 and 3 to this First Amendment intended to collect elevated pH impacted seeps, if any, associated with the areas designated as Wetlands 21 and 22 and the seeps associated with Outfalls 005, 006, 007, 018, 019, 020, 021, and 022 as shown on the figure attached as Attachment 3 to this First Amendment. Construction details of the collection system and expected pumping rates shall be included. The*

collection points shall include anti-seep collars that extend sufficiently below the pipe to prevent seepage beyond the collar as conceptually depicted in the figure attached as Attachment 5 to this First Amendment. Water removed from this collection system shall be conveyed to the treatment system required by the Consent Order and Agreement, as amended;

vi. Installation and operation of flow meters that independently record the flow from the eastern segment of the interceptor trench, the southern segment of the interceptor trench, the northwestern collection trench, and the western slope collection system; and

vii. Installation and operation of a treatment system that shall include a two-stage pH control or adjustment system as conceptually depicted on the schematic attached as Attachment 6 to this First Amendment.

viii. Installation of a minimum of 12 inches of clean topsoil in all SLA areas within the designated areas of disturbance depicted in site permits that lack robust vegetation. The installed topsoil shall be vegetated and shall be augmented as necessary to enhance the growth of vegetation.

ix. A SLA Monitoring plan that indicates how leachate levels will be monitored to aid in assessing performance of the Enhanced Collection and Treatment System. The plan shall address the requirements of Paragraph 5 of this First Amendment and shall identify the monitoring wells and piezometers within the SLA to be monitored, as well as a monitoring schedule based upon collection system installation, operation and performance.

x. *Provision for on-site management on or within the SLA of excess spoils associated with the collection trench construction, if any. Said plan shall provide the location, grading plan and cover plan for the on-site management of such excess trench construction spoils, if any, consistent with the requirements of subparagraph 4.a.viii above.*

xi. *Provision for management of all ground or surface water encountered during the collection trench construction, if any. Said plan shall provide details for the conveyance, storage, sampling, treatment and discharge location for all collected water.*

4b. *PPG shall correct all deficiencies in the Revised Cleanup Plan noted by the Department within the time frame set forth in the Department's notice of deficiency.*

4c. *Within ninety (90) days of the Department's approval of the Revised Cleanup Plan, PPG shall submit full and complete applications for all permits necessary to install all components of the Leachate Collection and Conveyance system as described in the Collection and Conveyance System – Interim Design Report and the Revised Cleanup Plan.*

4d. *Within one year of receiving all necessary permits, approvals, and authorizations to install the Leachate Collection and Conveyance System and install and operate the Treatment System, including the installation of Outfall 002 in the Allegheny River, PPG shall complete installation and begin, and thereafter continue, operation of the Leachate Collection and Conveyance and Treatment Systems as described in the Collection and Conveyance System – Interim Design Report and the Revised Cleanup Plan.*

4e. *PPG shall provide written notification of the startup of the Leachate Collection and Conveyance and Treatment Systems to the Department within five (5) days of the startup of the Leachate Collection and Conveyance and Treatment Systems.*

5. The following monitoring requirements shall be included in the SLA Monitoring plan required by Paragraph 4.a.ix of this First Amendment:

a. *Beginning on the effective date of this First Amendment and continuing for two (2) years after startup of the Enhanced Collection and Treatment System, PPG shall monitor monthly the water level at each internal SLA well and piezometer included in the SLA Monitoring plan. At the conclusion of two (2) years, the monthly monitoring frequency shall be reduced to quarterly monitoring. After five (5) years of quarterly monitoring, PPG may request either a further reduction in the monitoring frequency or elimination of the monitoring altogether, by submitting a request in writing to the Department. All such monitoring data shall be included with the quarterly Progress Reports required by the Consent Order and Agreement, as amended. PPG agrees to waive all of its rights to appeal any decision the Department makes concerning monitoring requirements under this subparagraph.*

b. *Beginning nine (9) months after the startup of the Enhanced Collection and Treatment System required to be installed pursuant to this Consent Order and Agreement, as amended, PPG shall monitor pH at each railroad culvert identified on the figure that is attached as Attachment 7 to this First Amendment in accordance with the same schedule required by the NPDES Permit for monitoring Outfall 004. PPG shall enter into the necessary legal agreements to gain access*

and authorization to do so. PPG shall conduct sampling on an established schedule and shall record the weather conditions and provide this information with the monitoring data submitted to the Department. All such monitoring data shall be included with the quarterly Progress Reports required by the Consent Order and Agreement, as amended. After a minimum of five (5) years of monitoring, PPG may request a reduction in the frequency or elimination of the monitoring requirement altogether by submitting a request in writing to the Department. PPG agrees to waive all of its rights to appeal any decision the Department makes concerning monitoring requirements under this subparagraph.

c. Beginning on the effective date of the First Amendment and continuing for two (2) years after startup of the Enhanced Collection and Treatment System, PPG shall monitor pH on a monthly basis at the emergence of the seeps associated with W2, W3, and W20 as identified in the figure attached as Attachment 8 to this First Amendment. Such monitoring shall not be conducted during a precipitation event. At the conclusion of two (2) years, PPG may request an additional further reduction in the frequency or elimination of the monitoring requirement altogether by submitting a request in writing to the Department. All such monitoring data shall be included with the quarterly Progress Reports required by the Consent Order and Agreement, as amended. PPG agrees to waive all of its rights to appeal any decision the Department makes concerning monitoring requirements under this subparagraph.

d. In the event an unpermitted discharge is identified that has a pH greater than 9.0 S.U. during the sampling required in Paragraphs 5.b. or 5.c., above, beginning nine (9) months after startup of the Enhanced Collection and

Treatment System required to be installed pursuant to the Consent Order and Agreement, as amended, PPG shall submit a plan and schedule to collect and treat the discharge for Department review and approval within forty-five (45) days of sampling. PPG shall initiate the activities necessary to collect and treat the discharge within ninety (90) days after issuance of all permits or authorizations required for such activities and/or upon receipt of concurrence from the Department that it is authorized to proceed. Once authorized to proceed, PPG shall complete the required activities as expeditiously as possible.

6. Paragraph 7.a. of the 2019 Consent Order and Agreement is hereby replaced with the following text:

7. a. Draft environmental covenants, with PPG, the Railroad, and Ford City as signatories, that demonstrate present or intended compliance with Act 2, the NPDES permit, the content, notice, execution and recording requirements pursuant to the Uniform Environmental Covenants Act (“UECA”), 27 Pa. C.S. §§ 6501 – 6517, and Department regulations and policy promulgated thereunder. The Environmental Covenants shall contain express language requiring current and all future owners of the Site to abide by the activity and use limitations. The Environmental Covenants shall contain express language that grants to the Department and its duly authorized representatives and contractors the right to access the Property to monitor, operate, maintain, and replace the Enhanced Collection and Treatment System required by the Consent Order and Agreement, as amended.

7. Paragraph 15 of the 2019 Consent Order and Agreement is replaced with the following text:

15. Stipulated civil penalties shall be due automatically and without notice from the Department. PPG shall submit the payment of stipulated penalties under Paragraph 12 on or before the fifteenth day of each succeeding month. PPG shall submit the Stipulated penalties due under Paragraph 13 as one payment for all stipulated penalties due for the preceding calendar quarter by April 15, July 15, October 15, and January 15 following the calendar quarter. PPG shall submit Stipulated penalties under Paragraph 14 within fifteen (15) days after submitting a DMR that that results in stipulated penalties due. PPG shall submit a report with all penalty payments due under Paragraphs 12 through 14 that references the Site and includes a detailed description, in a spreadsheet format, of what stipulated penalties the payment includes. All penalty payments shall reference the Site and shall be made by corporate check or the like, made payable to the "Commonwealth of Pennsylvania," and sent to the Department in accordance with Paragraph 34, or sent by wire transfer to the account number provided by the Department for deposit by the Department into the appropriate special funds, as identified by the Department.

8. Paragraph 34 of the 2019 Consent Order and Agreement is replaced with the following text:

34. All correspondence with and submittals to the Department related to this Consent Order and Agreement, as amended, shall reference the Site and shall be addressed to:

*Compliance Specialist
Clean Water Program
Commonwealth of Pennsylvania, Department of Environmental Protection
400 Waterfront Drive
Pittsburgh, PA. 15222*

A copy of all correspondence with the Department concerning this Consent Order and Agreement, as amended, shall reference the Site and shall be addressed to:

*Edward Stokan, Esq.
Assistant Counsel, Office of Chief Counsel
Commonwealth of Pennsylvania, Department of Environmental Protection
400 Waterfront Drive
Pittsburgh, PA. 15222*

9. Paragraph 35 of the 2019 Consent Order and Agreement is replaced with the following text:

35. All correspondence with and submittals to PPG related to this Consent Order and Agreement, as amended, shall reference the Site and shall be addressed to:

*Mark Terril
Corporate Director Environmental Affairs PPG Industries, Inc.
1 PPG Place
Pittsburgh, PA 15272
Phone: 412-434-2708
E-mail: terril@ppg.com*

A copy of all correspondence with PPG concerning this Consent Order and Agreement, as amended, shall reference the Site and shall be addressed to:

*Richard S. Wiedman, Esq.
Babst Calland
Two Gateway Center
Pittsburgh, PA 15222
Phone: (412) 394-5400
E-mail: rwiedman@babstcalland.com*

PPG shall notify the Department whenever there is a change in the contact person's name, title, or address. In addition, PPG agrees that the service of any notice or any legal process for any purpose under this Consent Order and Agreement, as amended, including its enforcement, may be made by mailing a copy by certified mail, return receipt requested, or by any overnight delivery service with standard tracking, to its attorney, whose name and address are contained in this paragraph.

10. Paragraph 41 of the 2019 Consent Order and Agreement is replaced with the following text:

Except as provided in Paragraph 5 and any decision involving a disapproval or requested modification of a Final Report under Paragraph 7 or an Outfall Compliance Plan in Paragraph 6, or any decision regarding PPG's request for a substitution of financial assurance pursuant to Paragraph 13 of the First Amendment to this Consent Order and Agreement, any decision which the Department makes under the provisions of this Consent Order and Agreement, including a notice that stipulated civil penalties are due, is intended to be neither a final action under 25 Pa. Code Section 1021.2, nor an adjudication under 2 Pa. C.S. Section 101. Any objection which PPG may have to the decision will be preserved until the Department enforces this First Amendment to the Consent Order and Agreement.

11. Within thirty (30) days of the execution of this First Amendment, PPG shall either submit for Department review and approval a revised Human Health Risk Assessment that reflects the changes to the Cleanup Plan required by this First Amendment or a

report certifying that the changes to the Cleanup Plan required by the First Amendment do not significantly alter the conclusions of the previously approved risk assessment.

12. Within thirty (30) days of the execution of this First Amendment, PPG shall either submit for Department review and approval a revised Ecological Risk Assessment that reflects the changes to the Cleanup Plan required by the First Amendment or a report certifying that the changes to the Cleanup Plan required by the First Amendment do not significantly alter the conclusions of the previously approved risk assessment.

13. Within thirty (30) days of the execution of this First Amendment, PPG shall submit documentation for the provision of financial assurances to the Department in an amount sufficient to secure the implementation and post-closure care, including without limitation long-term monitoring, operation and maintenance and replacement costs necessary to effectuate and maintain the remedy required by the 2019 Consent Order and Agreement and this First Amendment, or a revision of the remedy should the original fail, in perpetuity. Said financial assurances shall consist of an irrevocable letter(s) of credit and a standby trust in favor of the Department that conforms to the requirements of 25 PA Code Section 287, Subchapter E and/or letter of credit and standby trust provisions established by 40 CFR 264.143(d) and 264.145(d). The wording of the letter(s) of credit shall explicitly state that neither the letter(s) of credit nor the proceeds of the letter(s) of credit shall be considered the property of PPG or property of the estate in the event of PPG's bankruptcy. PPG shall deliver to the Department the letter(s) of credit meeting the requirements of this paragraph within thirty (30) days of the Department's approval of PPG's documentation. PPG at its option may at any time thereafter request the Department to substitute all or part of the financial assurances provided hereunder with a different but equally secure form of financial assurance consistent with 25 Pa. Code Section 287, Subchapter E and/or letter of credit and standby trust provisions established by 40 CFR

264.143(d) and 264.145(d). Such alternative financial assurance may include, but is not limited to, a consent order and agreement requiring the establishment of a treatment trust to ensure adequate financial assurances of the remedial and post-remedial obligations required by the 2019 Consent Order and Agreement and this First Amendment, including this paragraph, in perpetuity. Any such consent order and agreement and treatment trust shall conform to the requirements established by the Department's Office of Chief Counsel at the time said alternative is requested.

14. All other provisions of the 2019 Consent Order and Agreement not explicitly revised herein remain unchanged and specifically agreed to by PPG as constituting an Order from the Department.

15. This First Amendment may be executed through counterpart signatures transmitted via electronic means.

IN WITNESS WHEREOF, the parties hereto have caused this First Amendment to the 2019 Consent Order and Agreement to be executed by their duly authorized representatives. The undersigned representatives of PPG certify under penalty of law, as provided by 18 Pa. C.S. § 4904, that they are authorized to execute this First Amendment to the 2019 Consent Order and Agreement on behalf of PPG; that PPG consents to the entry of this First Amendment to the 2019 Consent Order and Agreement as a final ORDER of the Department; and that PPG knowingly waives its rights to appeal this First Amendment to the 2019 Consent Order and Agreement and to challenge its content or validity, which rights may be available under Section 4 of the Environmental Hearing Board Act, the Act of July 13, 1988, P.L. 530, No. 1988-94, 35 P.S. § 7514; the Administrative Agency Law, 2 Pa. C.S. § 103(a) and Chapters 5A and 7A; or any other provision of law. Signature by PPG's attorney certifies only that the agreement has been signed after consulting with counsel.

FOR PPG INDUSTRIES, INC.:

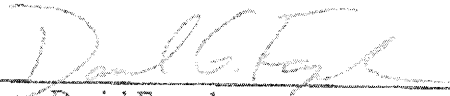


Name: Michael H. McGarry
Title: Chairman and CEO

FOR THE COMMONWEALTH OF
PENNSYLVANIA, DEPARTMENT OF
ENVIRONMENTAL PROTECTION:



Ronald Schwartz
Regional Director



Name: Daniel Fayock
Title: Assistant General Counsel and
Corporate Secretary



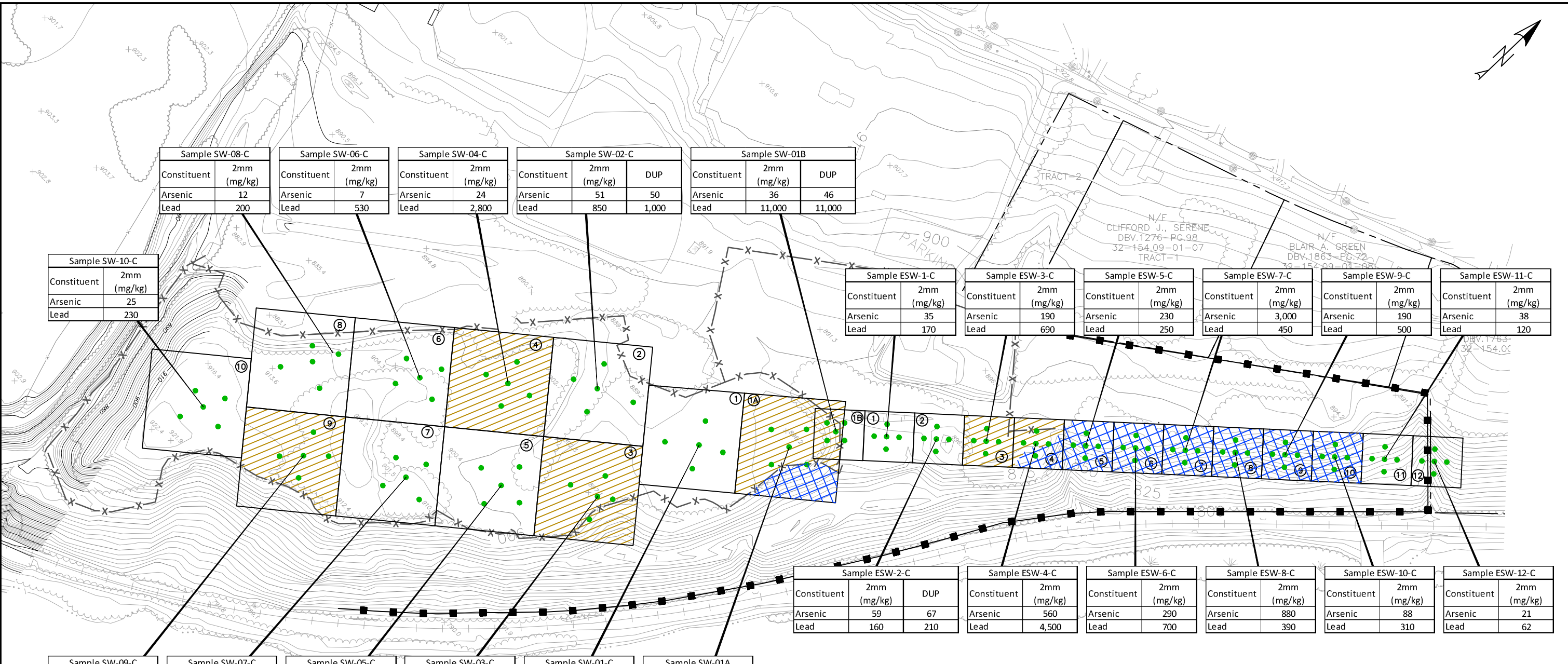
Name: Richard S. Wiedman
Attorney for PPG



Edward S. Stokan
Assistant Counsel

APPENDIX 3

V:\00561\p04\ford city\production drawings\2_awsd extension\report\figure 1 - arsenic and lead concentrations - 2013, 2017 and 2019 grid composite samples.dwg
 Last Saved By: Soomer 5/11/2020 9:24 AM Plotted By: Shelly Comer 5/11/2020 1:21 PM Scale: 1:1



Sample SW-08-C		Sample SW-06-C		Sample SW-04-C		Sample SW-02-C			Sample SW-01B		
Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)	DUP	Constituent	2mm (mg/kg)	DUP
Arsenic	12	Arsenic	7	Arsenic	24	Arsenic	51	50	Arsenic	36	46
Lead	200	Lead	530	Lead	2,800	Lead	850	1,000	Lead	11,000	11,000

Sample SW-10-C	
Constituent	2mm (mg/kg)
Arsenic	25
Lead	230

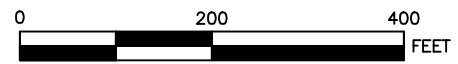
Sample ESW-1-C		Sample ESW-3-C		Sample ESW-5-C		Sample ESW-7-C		Sample ESW-9-C		Sample ESW-11-C	
Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)
Arsenic	35	Arsenic	190	Arsenic	230	Arsenic	3,000	Arsenic	190	Arsenic	38
Lead	170	Lead	690	Lead	250	Lead	450	Lead	500	Lead	120

Sample ESW-2-C			Sample ESW-4-C		Sample ESW-6-C		Sample ESW-8-C		Sample ESW-10-C		Sample ESW-12-C	
Constituent	2mm (mg/kg)	DUP	Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)
Arsenic	59	67	Arsenic	560	Arsenic	290	Arsenic	880	Arsenic	88	Arsenic	21
Lead	160	210	Lead	4,500	Lead	700	Lead	390	Lead	310	Lead	62

Sample SW-09-C		Sample SW-07-C		Sample SW-05-C		Sample SW-03-C		Sample SW-01-C		Sample SW-01A	
Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)	Constituent	2mm (mg/kg)
Arsenic	16	Arsenic	31	Arsenic	31	Arsenic	11	Arsenic	39	Arsenic	25
Lead	1,400	Lead	190	Lead	620	Lead	1,400	Lead	720	Lead	2,900

LEGEND

- EXISTING FENCE
- PROPOSED LOCATION OF NEW FENCE (APPROX.)
- AREA PROPOSED FOR GEOTEXTILE/SOIL COVER
- AREA PROPOSED FOR GEOCELL/SOIL COVER
- SAMPLE LOCATIONS FOR COMPOSITING PURPOSES



PPG INDUSTRIES, INC.

DRWN: SCC	DATE: 03/18/20
CHKD: RJH	DATE: 03/18/20
APPD: RJH	DATE: 03/18/20
SCALE:	AS SHOWN



SWDA AND SWDA ANNEX SAMPLING AND ANALYSIS
FORD CITY, PA

ISSUE DATE:

KEY ENVIRONMENTAL, INC.
200 THIRD AVENUE
CARNEGIE, PA 15106

ARSENIC AND LEAD CONCENTRATIONS AT
THE SWDA AND SWDA ANNEX - 2013, 2017
AND 2019 GRID COMPOSITE SAMPLES

PROJECT NO: 20-010
FIGURE 1

REV #	DATE	DESCRIPTION	APPD

REFERENCE:

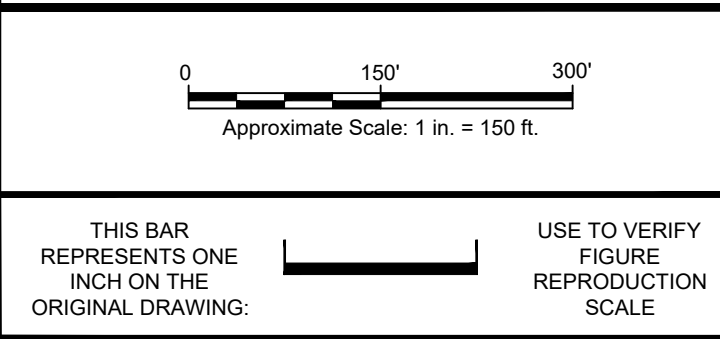
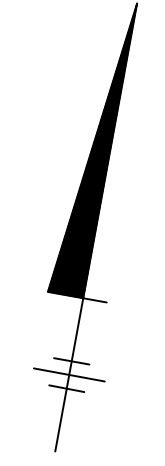
APPENDIX 4

CITY: SYRACUSE, NY DIV/GROUP: ENV/CAD DB: A. SAMIOS LD: A. SAMIOS PIC: PM: TM: LYRONE=OFF=REF*
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- NOTES:**
1. CONTRACTOR SHALL COORDINATE AND VERIFY FINAL EQUIPMENT AND MATERIALS INSTALLATION LOCATIONS WITH ENGINEER. ALL LOCATIONS ARE APPROXIMATE.
 2. CONTRACTOR TO RESTORE ALL SURFACES TO EXISTING PRE-CONSTRUCTION CONDITIONS.
 3. CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS WITH PROFESSIONAL LICENSED SURVEY TO VERIFY ELEVATIONS AND LOCATIONS.
 4. FINAL EXTENT AND LAYOUT OF TRENCHES ARE SUBJECT TO CHANGE DEPENDENT ON ADDITIONAL DATA EVALUATIONS AND FIELD DETERMINATIONS AT THE TIME OF IMPLEMENTATION.
 5. INDIVIDUAL TRENCH SECTIONS HAVE BEEN SHOWN. A CONTINUOUS TRENCH SECTION CAN BE USED BASED ON THE MEANS AND METHODS SELECTED FOR INSTALLATION OF THE INTERCEPTOR TRENCH.
 6. THE PIPING FOR THE SOUTHERN TRENCH AREA SHALL BE INSTALLED IN THE SAME TRENCH AS THE OUTFALL PIPING.

- LEGEND:**
- CONVEYANCE PIPING
 - SHALLOW SOUTHERN TRENCH LINE
 - SUMP WITH ELECTRIC SUBMERSIBLE PUMP
 - CLEANOUT
 - SUMP WITH PNEUMATIC SUBMERSIBLE PUMP
 - RECOVERY WELLS WITH PNEUMATIC SUBMERSIBLE PUMP
 - CLEANOUT CONNECTION LINE
 - OUTFALL PIPING
 - PZ-XXX ● NEW PIEZOMETER WELL



No.	Date	Revisions	By	Ckd

Professional Engineer's Name		
Professional Engineer's No.		
State	Date Signed	Project Mgr.
PA		
Designed by	Drawn by	Checked by

ARCADIS U.S., INC.

PPG INDUSTRIES, INC. • NORTH BUFFALO AND CADOGAN TOWNSHIPS, ARMSTRONG COUNTY, PENNSYLVANIA
 FORMER FORD CITY FACILITY SITE SLURRY LAGOON AREA
 REMEDIATION SYSTEM

SITE PIPING LAYOUT

ARCADIS Project No. PA001305.0000.00004
Date FEBRUARY 2020
ARCADIS U.S., INC. 6041 WALLACE ROAD EXTENSION, SUITE 300 WEXFORD, PA 15090

C-02

APPENDIX 5

CITY: SYRACUSE, NY DIV/GRP: ENCAD DB: N.SAWYER LD: PIC: PM: LYRON=OFF=REF: G:\CADD\ACAD\Proj\PA001305.000\01-DWG\GSC-2019-FIG3-PROP-DISC-2019-FIG3-PROP-DISC.dwg LAYOUT: A. SAVED: 2/14/2020 3:53 PM ACADVER: 23.05 (LMS TECH) PAGES: 1 OF 1 PLOTTED: 3/11/2020 11:30 AM BY: URLACHER, MARK

PROJECT NAME: Ford City Site Plan

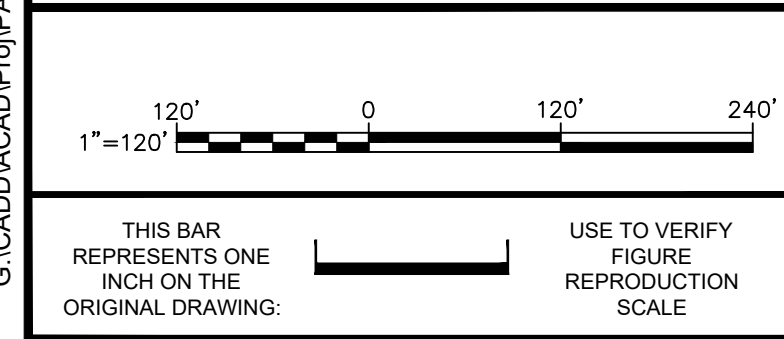
IMAGES: 01305X21 Ford City Site Plan.jpg
01305X00 CFPA PE Seal - 1-14-2020.jpg
01305X23 AL PE Seal 2019-03-06.jpg

LEGEND:

- EXISTING GROUND SURFACE INDEX CONTOUR
- RAILROAD
- FLOODPLAIN BOUNDARY
- WETLAND
- TREELINE
- EXISTING DIRT ROAD
- EXISTING GRAVEL ROAD
- EDGE OF WATER
- PROPOSED LIMIT OF DISTURBANCE
- EXISTING FRENCH DRAIN PIPING
- PROPOSED TREATMENT SYSTEM BUILDING
- CHAIN LINK FENCE
- STREAMS
- PROPOSED ACCESS PATH TO BE CONSTRUCTED VIA TREE CLEARING
- EXISTING ACCESS PATH TO BE IMPROVED BY TREE CLEARING
- PROPOSED RIP RAP
- PROPOSED INTERCEPTOR TRENCH CENTERLINE
- BARE AREAS TO BE REVEGETATED
- STREAMS
- WETLAND/STREAM ID
- PROPOSED STAGING AREA
- APPROXIMATE LOCATION OF SEEP OUTFALL
- PROPOSED EXTRACTION WELL



← ALLEGHENY RIVER



No.	Date	Revisions	By	Ckd
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Professional Engineer's Name
CULLEN FLANDERS

Professional Engineer's No.
(PE NUM)

State
PA

Date Signed
Project Mgr.
CF

Designed by
Drawn by
Checked by
(DSN) NES (CHK)

ARCADIS U.S., INC.

PPG INDUSTRIES, INC. • NORTH BUFFALO AND CADOGAN TOWNSHIPS, ARMSTRONG COUNTY, PENNSYLVANIA

GENERAL SITE CONSTRUCTION

PROPOSED WORK

ARCADIS Project No.
30018507

Date
February 2020

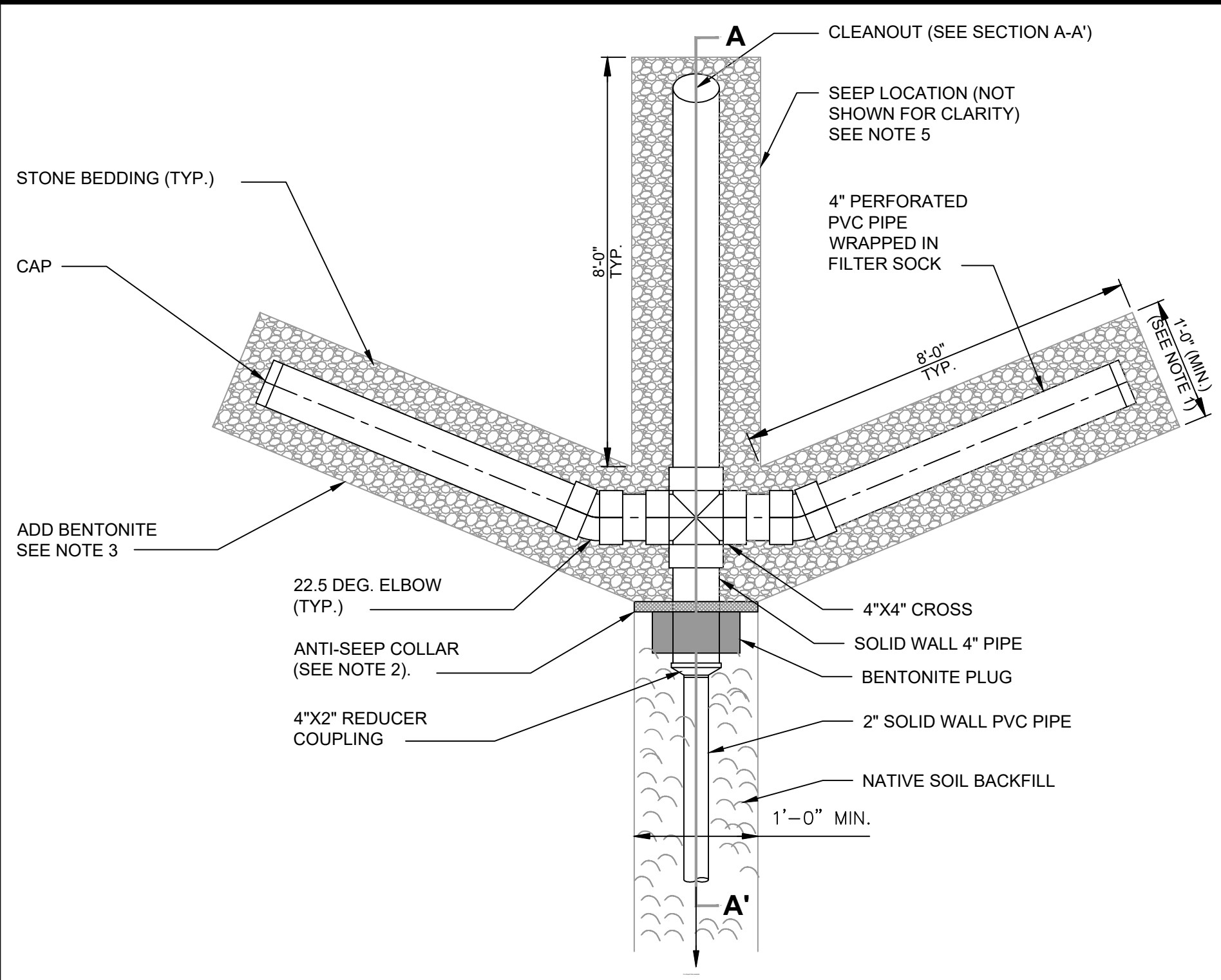
ARCADIS U.S., INC.
6041 WALLACE ROAD
EXTENSION, SUITE 300
WEXFORD, PA 15090

A

APPENDIX 6

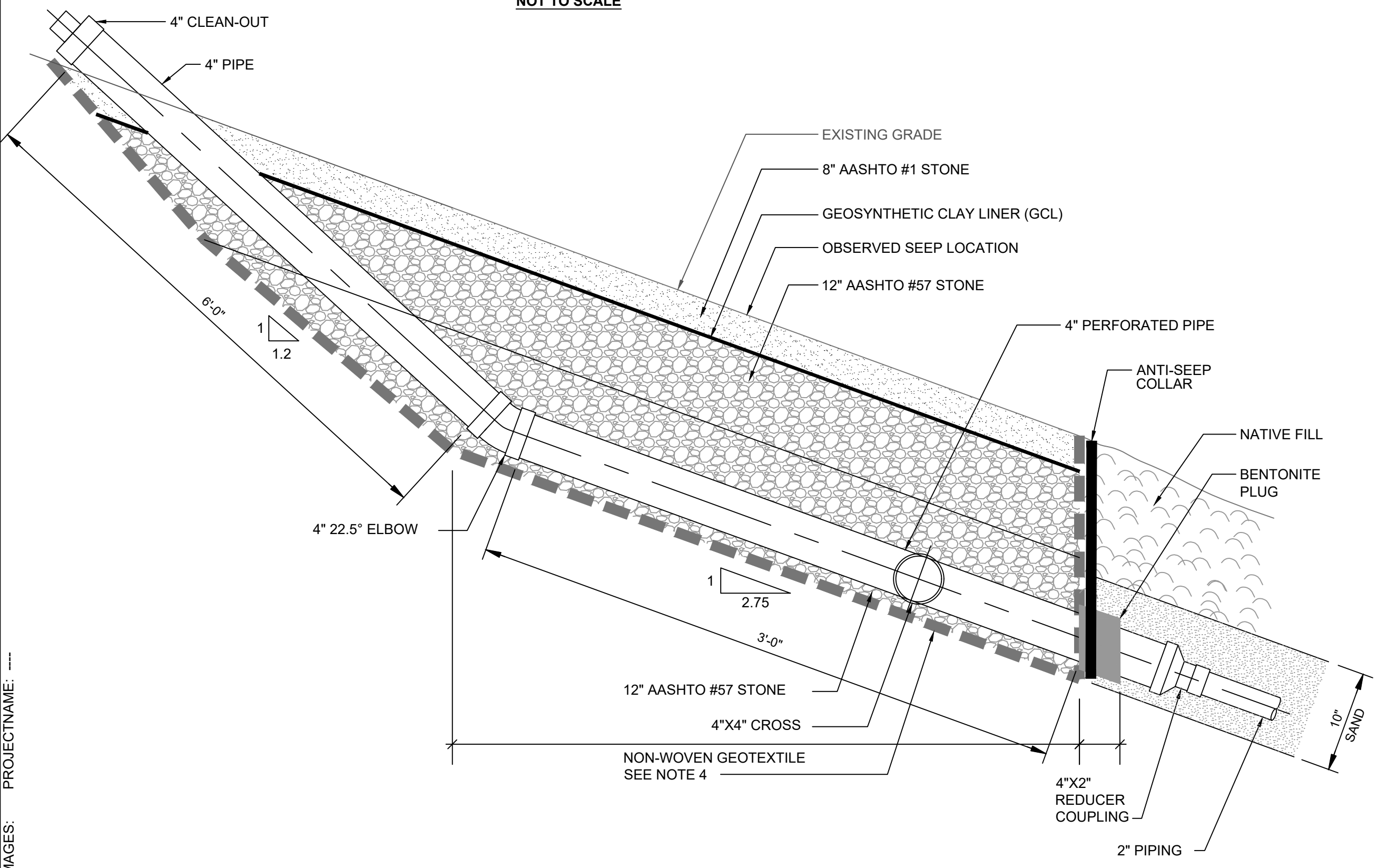
APPENDIX 7

CITY: SYRACUSE, NY DIV/GROUP: ENVCAD DB: N.SAWYER LD: PIC: TM: LYRON=OFF=REF: G:\CAD\ACAD\Proj\PA001305.000\01-DWG\GSC-2019-FIG7-SEEP COLLECTION TRENCH DETAILS.dwg LAYOUT: 7. SAVED: 3/4/2020 4:10 PM ACADVER: 23.05 LMS TECH) PAGES: 7. PLOTSTYLETABLE: PLTQUICKWCTB PLOTTED: 3/11/2020 11:34 AM BY: URLACHER, MARK XREFS: 01305X00



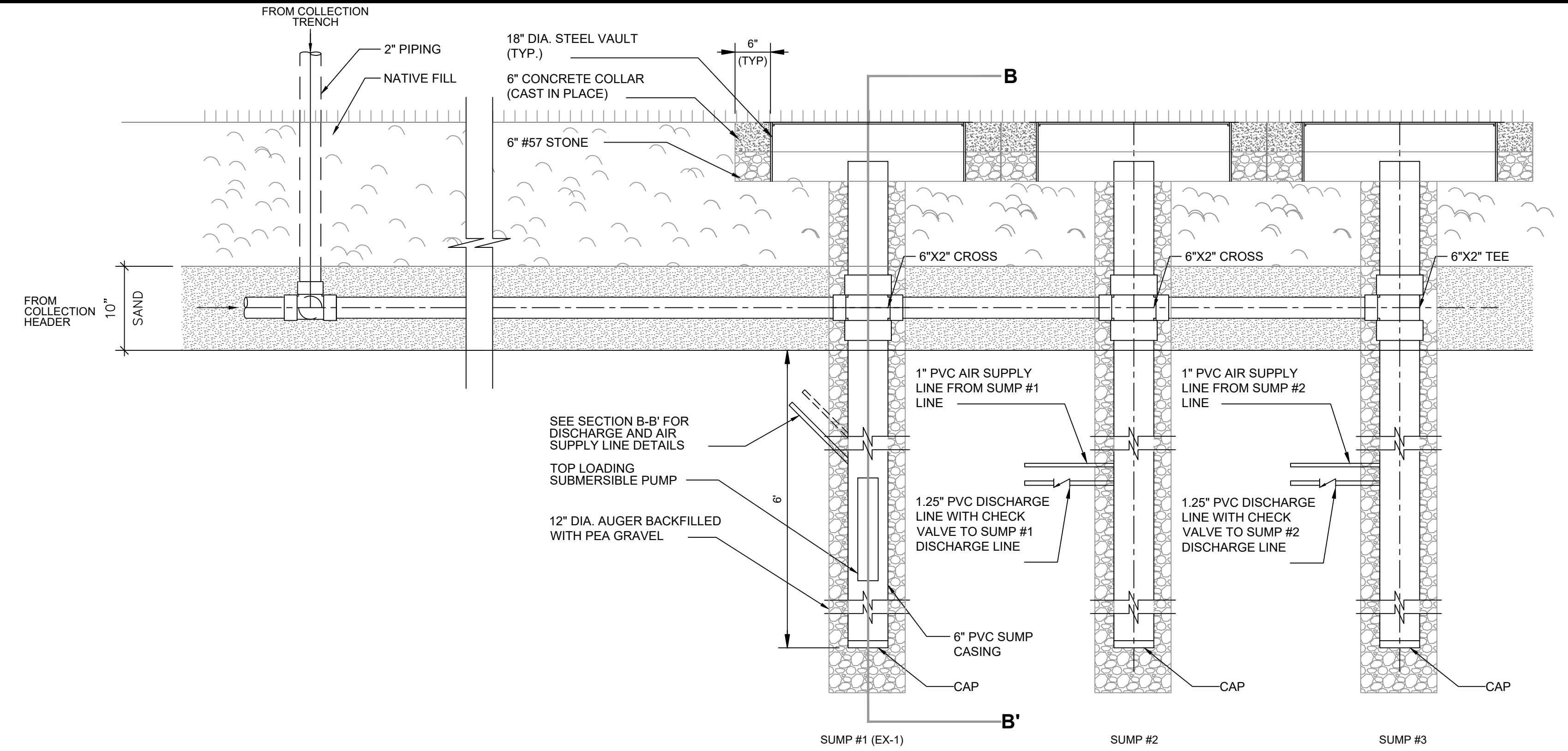
SEEP COLLECTION TRENCH PLAN VIEW

NOT TO SCALE



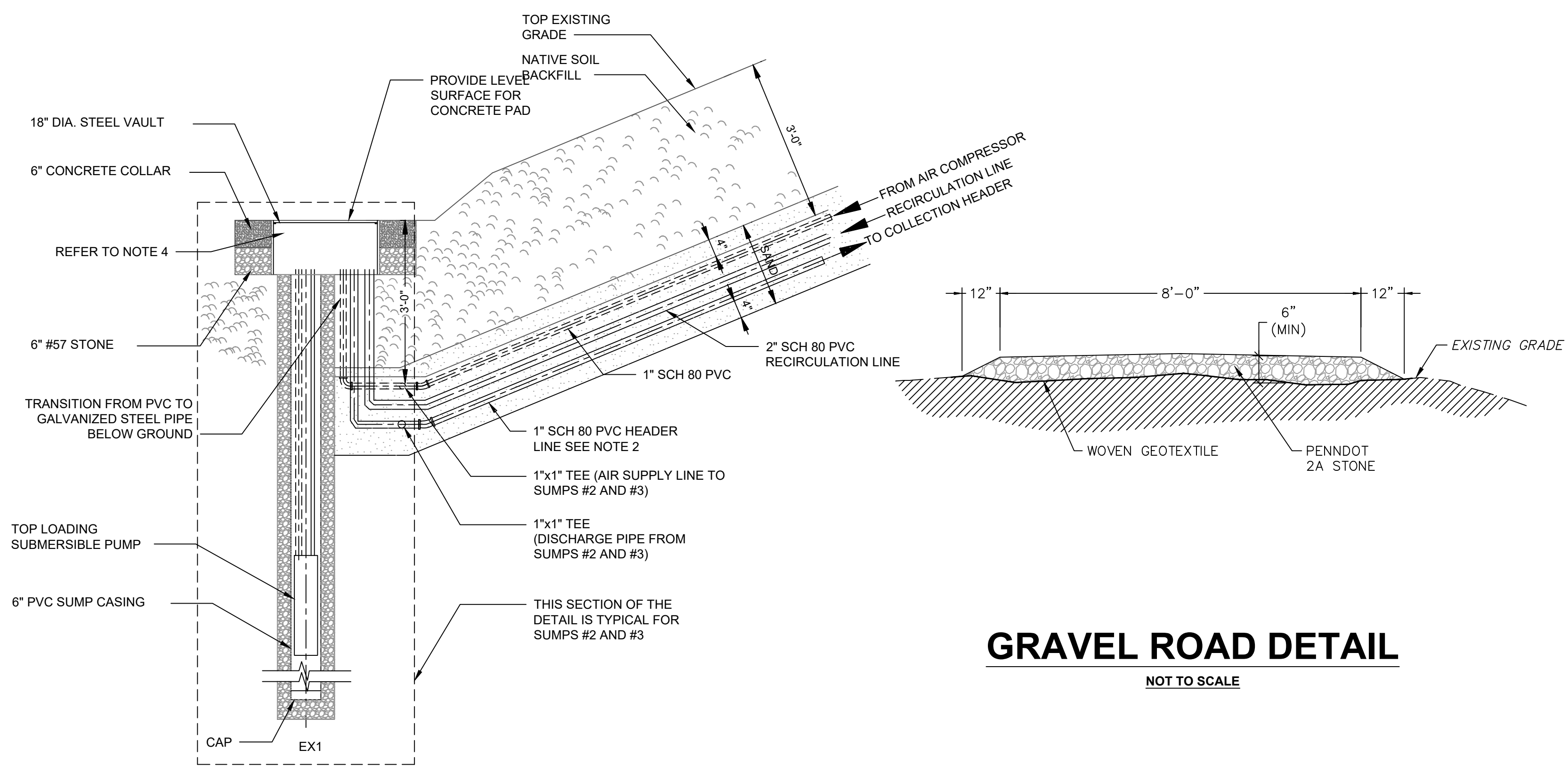
SECTION A-A'

NOT TO SCALE



SUMP AREA CROSS SECTION

NOT TO SCALE



SECTION B-B'

NOT TO SCALE

GRAVEL ROAD DETAIL

NOT TO SCALE

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.	USE TO VERIFY FIGURE REPRODUCTION SCALE
-------------------------------------------------------	-----------------------------------------

No.	Date	Revisions	By	Ckd
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Professional Engineer's Name CULLEN FLANDERS		
Professional Engineer's No. (PE NUM)		
State PA	Date Signed	Project Mgr. (MGR)
Designed by (DSN)	Drawn by NES	Checked by (CHK)

ARCADIS Design & Consultancy for natural and built assets
 ARCADIS U.S., INC.

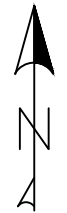
PPG INDUSTRIES, INC. • NORTH BUFFALO AND CADOGAN TOWNSHIPS, ARMSTRONG COUNTY, PENNSYLVANIA
 GENERAL SITE CONSTRUCTION
WESTERN SLOPE DETAILS

ARCADIS Project No. 30018507
Date FEBRUARY 2020
ARCADIS U.S., INC. 6041 WALLACE ROAD EXTENSION, SUITE 300 WEXFORD, PA 15090

APPENDIX 8

APPENDIX 9

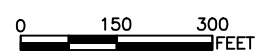
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LEGEND

- TREE LINE
- EXISTING SITE ACCESS ROAD
- EXISTING STREAM, POND, AND RIVER LOCATION
- EXISTING FENCE
- SURFACE ELEVATION (FT-MSL)
- SURFACE CONTOURS ELEVATION (FT-MSL)
- EXISTING GAS LINE LOCATION (APPROXIMATE)
- EXISTING BUILDING LOCATION
- EXISTING RAILROAD LOCATION

CMP - CORRUGATED METAL PIPE
 CPP - CORRUGATED PLASTIC PIPE
 RCP - REINFORCED CONCRETE PIPE
 STP - STEEL PIPE



PPG INDUSTRIES FORD CITY, PENNSYLVANIA

DRWN: SCC	DATE: 03/17/20
CHKD: RJH	DATE: 03/17/20
APPD: RJH	DATE: 03/17/20
SCALE:	AS SHOWN



RAILROAD CULVERTS
NORTH BUFFALO AND CADOGAN TOWNSHIPS,
PENNSYLVANIA

CULVERT LOCATIONS
AND INFORMATION

PROJECT NO: 20-010

ISSUE DATE:

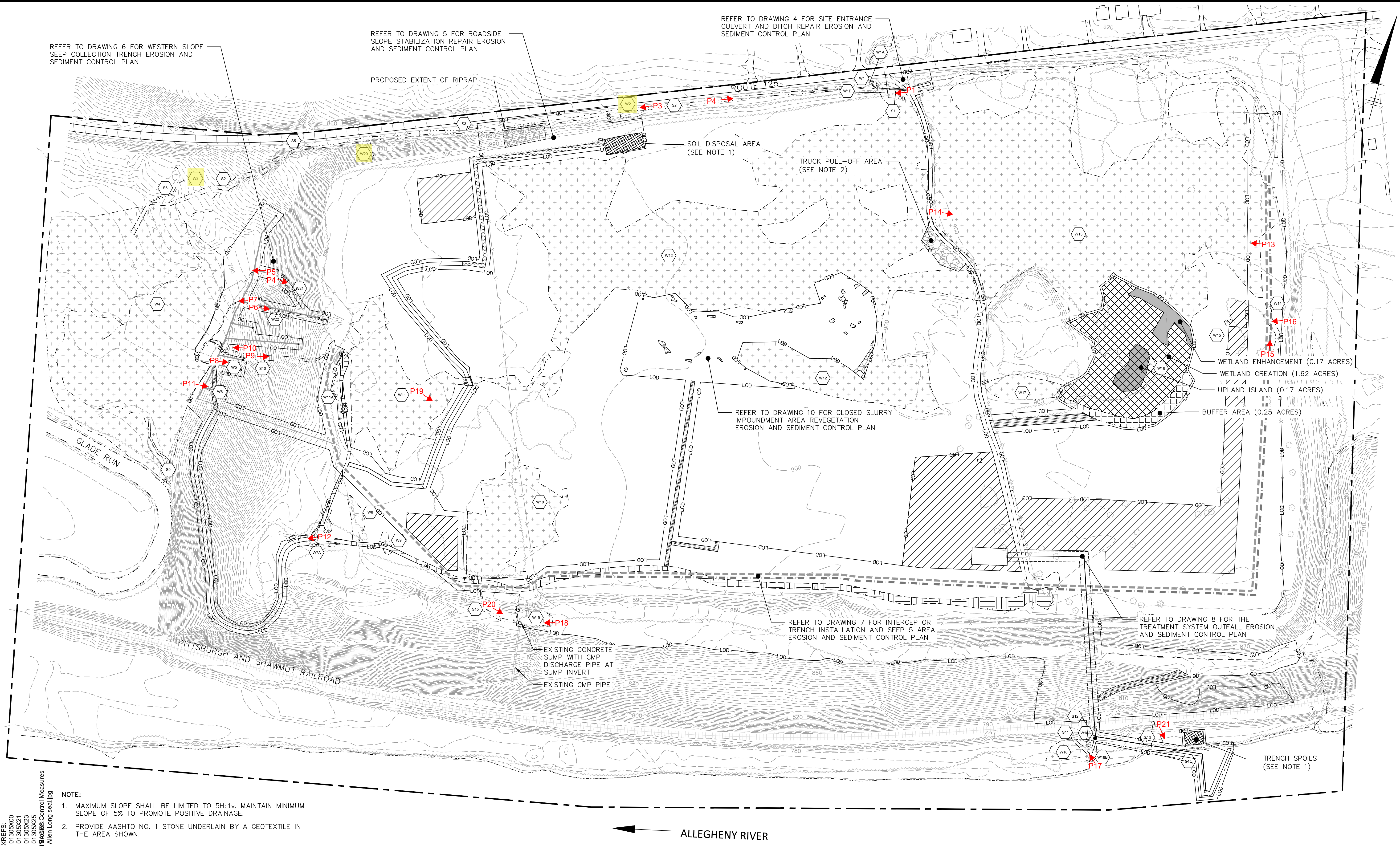
KEY ENVIRONMENTAL, INC.
200 THIRD AVENUE
CARNEGIE, PA 15106

REFERENCE:

REV #	DATE	DESCRIPTION	APPD

APPENDIX 10

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REFER TO DRAWING 6 FOR WESTERN SLOPE SEEP COLLECTION TRENCH EROSION AND SEDIMENT CONTROL PLAN

REFER TO DRAWING 5 FOR ROADSIDE SLOPE STABILIZATION REPAIR EROSION AND SEDIMENT CONTROL PLAN

REFER TO DRAWING 4 FOR SITE ENTRANCE CULVERT AND DITCH REPAIR EROSION AND SEDIMENT CONTROL PLAN

REFER TO DRAWING 10 FOR CLOSED SLURRY IMPOUNDMENT AREA REVEGETATION EROSION AND SEDIMENT CONTROL PLAN

REFER TO DRAWING 7 FOR INTERCEPTOR TRENCH INSTALLATION AND SEEP 5 AREA EROSION AND SEDIMENT CONTROL PLAN

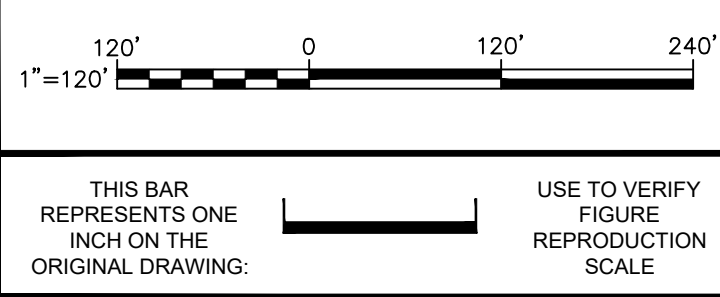
REFER TO DRAWING 8 FOR THE TREATMENT SYSTEM OUTFALL EROSION AND SEDIMENT CONTROL PLAN

GLADE RUN

PITTSBURGH AND SHAWMUT RAILROAD

ALLEGHENY RIVER

- NOTE:
1. MAXIMUM SLOPE SHALL BE LIMITED TO 5H:1V. MAINTAIN MINIMUM SLOPE OF 5% TO PROMOTE POSITIVE DRAINAGE.
 2. PROVIDE AASHTO NO. 1 STONE UNDERLAIN BY A GEOTEXTILE IN THE AREA SHOWN.



THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING. USE TO VERIFY FIGURE REPRODUCTION SCALE.

Professional Engineer's Name ALLEN LONG	
Professional Engineer's No. PE075135	
State PA	Date Signed CF
Designed by CCC	Drawn by NES
Checked by ARL	



ARCADIS Design & Consultancy for natural and built assets
 ARCADIS U.S., INC.

PPG INDUSTRIES, INC. • NORTH BUFFALO AND CADOGAN TOWNSHIPS, ARMSTRONG COUNTY, PENNSYLVANIA
 FORMER FORD CITY FACILITY SITE DRAINAGE IMPROVEMENTS, REVEGETATION AND SEEP COLLECTION INSTALLATION

OVERALL SITE PLAN

ARCADIS Project No. PA001305.0000.00004
Date OCTOBER 2017
ARCADIS U.S., INC. 6041 WALLACE ROAD EXTENSION, SUITE 300 WEXFORD, PA 15090