



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 REGION III
 Four Penn Center
 1600 John F Kennedy Blvd
 Philadelphia, Pennsylvania 19103-2852

**UNDERGROUND INJECTION CONTROL PERMIT NUMBER PAS2D702BALL
 AUTHORIZATION TO OPERATE A CLASS II-D INJECTION WELL**

In compliance with provisions of the Safe Drinking Water Act, as amended, 42 U.S.C. §§ 300f – 300j-11, (“SDWA”), and the SDWA implementing regulations promulgated by the U.S. Environmental Protection Agency (“EPA”) at Sections 144 – 147 of Title 40 of the Code of Federal Regulations, this permit authorizes

Penneco Environmental Solutions, LLC
6608 Route 22
Delmont, PA 15626

as the Permittee, to construct and operate a Class II-D commercial disposal injection well, Sedat #4A, API # 37-003-21644, (hereinafter, “Injection Well” or “Facility”) for the purpose of injecting fluids produced solely in association with oil and gas production in accordance with the provisions of this permit. The Injection Well will be located in Plum Borough, Allegheny County, Pennsylvania. The Injection Well will inject into the Murrysville sandstone formation. The coordinates for this Injection Well are: Latitude 40° 31' 36.897" Longitude -79° 42' 39.6972".

All references to Title 40 of the Code of Federal Regulations are to all regulations that are in effect on the date that this permit becomes effective.

This permit shall become effective on _____, 2022.

This permit and its authorization to inject shall remain in effect until midnight on _____, 2032.

 Catherine A. Libertz, Director
 Water Division

PART I

A. Effect of Permit

Penneco Environmental Solutions, LLC (“the Permittee”) is authorized to engage in underground injection at the Injection Well in accordance with the conditions of this permit number PAS2D702BALL (“Permit”). The Permittee shall not allow underground injection activity, otherwise authorized by this Permit, to cause or contribute to the movement of fluid containing any contaminant(s) into any underground source(s) of drinking water (“USDW”), if the presence of any such contaminant may cause a violation of any primary drinking water regulation under 40 C.F.R. Part 141 or if it may otherwise adversely affect the health of any persons. Any underground injection activity not authorized in this Permit or otherwise authorized by rule is prohibited. Issuance of this Permit does not convey property rights or mineral rights of any sort or any exclusive privilege; nor does it authorize any injury to any persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any action brought under Part C of the SDWA, or the imminent and substantial endangerment provisions in Part D of the SDWA, or any other common or statutory law for any breach of any other applicable legal duty.

B. Permit Actions

This Permit can be modified, revoked, and reissued or terminated for cause, or upon request, as specified in 40 C.F.R. §§ 144.12, 144.39, and 144.40. This Permit is subject to the minor modification provisions specified in 40 C.F.R. § 144.41. The filing of a request for a Permit modification, revocation and reissuance, or termination, or the notification of planned changes, or anticipated noncompliance on the part of the Permittee shall not stay the applicability or enforceability of any Permit condition.

C. Severability

The provisions of this Permit are severable and if any provision of this Permit is held invalid, the remainder of this Permit shall not be affected thereby.

D. General Requirements

1. Duty to Comply. The Permittee shall comply with all applicable Underground Injection Control (“UIC”) Program regulations, including 40 C.F.R. Parts 124, 144-146, and 147.1950-1955, and with the conditions of this Permit, except to the extent and for the duration that the EPA authorizes any noncompliance by an emergency permit issued under 40 C.F.R. § 144.34. Any Permit noncompliance not authorized by constitutes a violation of the SDWA and is grounds for enforcement action, Permit termination, revocation, and reissuance, modification, or for denial of a Permit renewal application.

2. 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.

3. Duty to Mitigate. The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

4. 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 conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, adequate security to prevent unauthorized access and operation of the Injection Well, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

5. Duty to Provide Information. The Permittee shall furnish to the Director of the Water Division, EPA Region 3 (“Director”), within a time specified by the Director, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit, or to determine compliance with this Permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. If the Permittee becomes aware of any incomplete or incorrect information in the supporting Permit Application, or subsequent reports, the Permittee shall promptly submit information addressing these deficiencies to the Director. For purposes of this Permit, unless otherwise specified herein, all reports, notices/notifications and information that are required to be submitted “in writing,” or in “written” format, shall contain the certification and signature required under Paragraph I.D.9, below, and may be submitted via email in portable document format (*i.e.*, as a “pdf” document), in accordance with the instructions set forth in Paragraph II.A of this Permit.

6. Inspection and Entry. The Permittee shall allow the Director or a duly-authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

a. Enter upon the Permittee’s premises where the Facility or injection activity is located or conducted, or where records must be kept under the conditions of this Permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;

c. Inspect at reasonable times the Facility, Facility equipment (including monitoring and control equipment) and any practices and/or operations regulated or required under this Permit; and

d. Sample or monitor at reasonable times any substances or parameters, at any location, for the purposes of assuring Permit compliance or as otherwise authorized by SDWA.

7. Penalties. Any person who violates a requirement of this Permit is subject to administrative or civil penalties, fines and other enforcement actions under the SDWA. Any person who willfully violates conditions of this Permit may be subject to criminal prosecution.

8. Transfer of Permits. This Permit is not transferable to any person except after notice is submitted to the Director (pursuant to Paragraph II.A., below) on EPA Form 7520-7 (Application to Transfer Permit), approval is received from the Director, and the requirements of 40 C.F.R. § 144.38 are satisfied. The Director may require modification or revocation of this Permit to change the name of the permittee and incorporate such other requirements as may be necessary under the SDWA or under its implementing regulations. The transferee is not authorized to inject under this Permit unless and until the Director notifies the transferee that the transferee is so authorized through issuance of a revised permit identifying the transferee as the permittee.

9. Signatory Requirements.

a. The Permittee shall sign all reports required by this Permit, all notices/notifications pertaining to this Permit and other information requested by the Director as follows:

- (1) for a corporation, by a responsible corporate officer of at least the level of vice-president;
- (2) for a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- (3) for a Municipality, State, Federal, or other public agency by either a principal executive or a ranking elected official.

b. A duly authorized representative of the person designated in Paragraph a. above may also sign only if:

- (1) the authorization is made in writing by a person described in Paragraph a. above;
- (2) the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated Facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or a position of equivalent responsibility. A duly authorized representative may thus be either a named individual or any individual occupying a named position; and
- (3) the written authorization is submitted to the Director.

c. If an authorization under Paragraph b. of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the Facility, a new authorization satisfying the requirements of Paragraph b. of this section must be submitted to the Director prior to or together with any reports, information or applications to be signed by an authorized representative.

d. Any person signing a document under Paragraph a. or b. of this section shall make the following certification:

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

10. Confidentiality of Information.

a. In accordance with 40 C.F.R. Part 2 (Public Information) and 40 C.F.R. § 144.5, any information submitted to the Director pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words “confidential business information” on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the information will be treated in accordance with the procedures in 40 C.F.R. Part 2.

b. EPA will deny claims of confidentiality for the following information:

- (1) The name and address of any permit applicant or permittee.
- (2) Information which deals with the existence, absence, or level of contaminants in drinking water.

11. State Laws. Nothing in this Permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation.

PART II

A. General

The Permittee shall sign and certify copies of all reports and notifications required by this Permit in accordance with the requirements of Paragraph I.D.9. of this Permit and shall submit such information to the Director in hard copy, by mail, and in portable document format (*i.e.*, as a “.pdf” file), via e-mail, at the following mailing and/or e-mail addresses:

Water Division (Mail Code: 3WD22)
U.S. Environmental Protection Agency
Region 3
Four Penn Center
1600 John F. Kennedy Blvd.
Philadelphia, Pennsylvania 19103
R3_UIC_Mailbox@epa.gov

B. Record Retention

1. The Permittee shall retain records of all monitoring and other information required by this Permit, including the following (if applicable), for a period of at least five (5) years from the date of the sample, measurement, report, or application, unless Paragraph II.B.2., below, requires that the Permittee retain such records for a longer period of time. The Director may extend the record retention period at any time. If the Director extends the record retention period, the Permittee shall comply with the new record retention period.

a. All data required to complete the Permit Application form for this Permit and any supplemental information submitted under 40 C.F.R. § 144.31;

b. Calibrations and maintenance records and all original strip chart recordings for continuous monitoring instrumentation; and

c. Copies of all reports required by this Permit.

2. The Permittee shall retain records concerning the nature and composition of all injected fluids, as required in Paragraphs II.C.4. and IIC.5. of this Permit, until at least three (3) years after the plugging and abandonment procedures are complete. The Permittee shall continue to retain these records after the three-year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.

3. Records of monitoring information shall include:

a. The date, exact place, and the time of sampling or measurements;

b. The individual(s) who performed the sampling or measurements;

c. A precise description of both sampling methodology and the handling (custody) of samples;

d. The date(s) analyses were performed;

e. The individual(s) who performed the analyses;

f. The analytical techniques or methods used; and

g. The results of such analyses.

C. Injection Well Monitoring Requirements

1. Samples and measurements taken from the Injection Well for the purpose of monitoring shall be representative of the monitored activity. The Permittee shall obtain representative sample(s) of the fluid to be analyzed and conduct analysis(es) of the sample(s) in accordance with the approved methods and test procedures provided in 40 C.F.R. § 136.3 and EPA's SW-846 Compendium, or other methods and test procedures otherwise approved by the Director. The Permittee shall identify in its monitoring records the types of tests and methods used to generate the monitoring data.

2. The Permittee shall continuously monitor and record surface injection pressure, annular pressure, flow rate, and cumulative volume in the Injection Well beginning on the date on which the Injection Well commences operation and concluding when the Injection Well is plugged and abandoned. On a daily basis the specific gravity of the injected fluid shall be measured, recorded, and included in the monthly monitoring data. The Injection Well shall be equipped with automatic shut-off devices which would be activated in the event of a mechanical integrity failure. The Permittee shall compile the monitoring data monthly to complete the Annual Report referenced in the Paragraph II.D.9. of this Permit.

3. The Permittee shall also monitor and record, quarterly, the fluid level from the Penneco Environmental Solutions Sedat #2A well (API #37-003-21222) located in the ¼ mile radius Area of Review used to determine where corrective action, if any, must occur to prevent contamination of USDW from this the Injection Well, and which shall serve as a monitoring well for this Injection Well. The Permittee shall compile this monitoring data and include it in the Annual Report referenced in Paragraph II.D.9. of this Permit.

4. The Permittee shall monitor the nature and composition of the injection fluid injected into the Injection Well by sampling, analyzing, and recording the injection fluid for the parameters listed below at the initiation of the injection operation and every two (2) years thereafter, or whenever the operator observes or anticipates a change in the injection fluid.

- | | |
|------------------------------|--------------------------|
| - pH | - Manganese |
| - Specific Gravity | - Total Dissolved Solids |
| - Specific Conductance | - Barium |
| - Sodium | - Hydrogen Sulfide |
| - Iron | - Dissolved Oxygen |
| - Magnesium | - Alkalinity |
| - Chloride | - Hardness |
| - Total Organic Carbon (TOC) | |

The Permittee shall report the results of such monitoring to the Director in accordance with Paragraph II.A, above, and as provided in Paragraphs II.D.9. and II.D.10., below, of this Permit.

5. The Permittee shall measure the specific gravity of each truckload of fluid delivered to the Facility intended for injection under this permit prior to unloading and shall confirm that it does not exceed a specific gravity of 1.23. If the specific gravity of the injection fluid is, at any time determined to be greater than 1.23, then the Permittee shall follow the Injection Pressure Limitation operating requirements set forth in Paragraph III.B.4. of this Permit. The Permittee shall collect and compile this required specific gravity monitoring data monthly and shall submit the data compilation in its Annual Report in the manner required pursuant to Paragraph II.D.9. of this Permit. If analytical test results for the specific gravity of any fluids injected into the Injection Well indicate a specific gravity that is greater than 1.23, then within twenty-four (24) hours of obtaining any such analytical test result, the Permittee shall verbally report such test result(s) to the Director in accordance with the Twenty-Four Hour reporting requirements set forth in Paragraph II.D.3.a. of this Permit. Within five (5) business days (i.e., days exclusive of Saturdays, Sundays or federal holidays) of obtaining any such injection fluid specific gravity analytical test result(s), the Permittee shall

further provide the Director with a written report that includes any and all analytical test results, in accordance with the additional notification requirements of Paragraph II.D.3.b. of this Permit.

6. The permittee shall maintain a record of every load received. The record shall include the hauler's name, the operator's name and the location from where the load was obtained, the volume of the load and whether the load was a split load. If the load was a split load, each operator's name and location shall be listed and the volume from each operator documented.

7. The Permittee shall make a demonstration of mechanical integrity, in accordance with 40 C.F.R. § 146.8, at least once every two (2) years after the initial demonstration required by Paragraph III.A.4. of this Permit. Subsequent two-year demonstrations shall be conducted within two (2) years of the date that the previous demonstration was made. In addition to the above requirement, the Permittee shall conduct a mechanical integrity test demonstration on the Injection Well when the protective casing or tubing is removed from the well, the packer is resealed, a well failure is likely, or as requested by the Director. The Permittee may continue operation of the Injection Well only if the Permittee has demonstrated the mechanical integrity of the Injection Well to the Director's satisfaction. The Permittee shall cease injection operations if a loss of mechanical integrity becomes evident or if the Permittee cannot demonstrate mechanical integrity. The Injection Well shall be equipped with automatic shut-off devices which would be activated in the event of a mechanical failure.

8. All environmental measurements required by this Permit, including, but not limited to measurements of pressure, temperature, mechanical integrity (as applicable), and chemical analyses shall be done in accordance with EPA guidance on quality assurance.

D. Reporting and Notification Requirements

1. Report on Permit Review. Within thirty (30) days of receipt of this permit, the Permittee shall ensure that the person designated pursuant to Paragraph I.D.9. of this permit reports in writing to the Director that he or she has read and is personally familiar with all terms and conditions of this permit.

2. Commencing Injection. The Permittee shall not commence injection until construction or well rework is complete and all of the following conditions have been satisfied, including those as specified in Paragraph III.A. of this permit:

a. The Permittee has submitted notice of completion of construction (EPA Form 7520-18) to the Director;

b. The Permittee has demonstrated to EPA that the Injection Well has mechanical integrity in accordance with 40 C.F.R. § 146.8 and the Permittee has received written notice from the Director that such demonstration is satisfactory; and

c.(1) The Director has inspected or otherwise reviewed the Injection Well and finds it is in compliance with the conditions of this permit; or

c.(2) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the Injection Well within 13 days of the date of the notice in

Paragraph II.D.2.a. of this permit, in which case, prior inspection or review is waived and the Permittee may commence injection.

d. The Permittee has submitted the formation testing information as required by Paragraph III.B.4.c. to the Director and the Director has given written formal authorization to the Permittee to inject at a prescribed Maximum Allowable Injection Pressure.

3. Twenty-Four Hour Reporting.

a. The Permittee shall report to the Director any Permit noncompliance which may endanger, or which has endangered, human health or the environment. The Permittee shall provide such report orally to the EPA Region 3 UIC Hotline at 215-814-2816 within twenty-four (24) hours from the time the Permittee becomes aware, or otherwise has reason to know, of such noncompliance. The Permittee shall include the following information in the oral report:

(1) Any monitoring or other information which indicates that any contaminant may endanger or has endangered an USDW.

(2) Any noncompliance with a Permit condition, or malfunction of the injection system, which may cause or has caused fluid migration into or between USDW, or failure of mechanical integrity test demonstrations.

b. The Permittee shall provide a written submission to the Director within five (5) business days of the time the Permittee becomes aware of the circumstances described in Paragraph II.D.3.a, above. The written submission shall contain a description of the noncompliance and its cause(s); the period(s) of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time that any such noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

4. Activities or Changes that May Result in Noncompliance. The Permittee shall give advance written notice to the Director, pursuant to Paragraph II.A, above, prior to initiating any activity or of making any planned changes at the permitted Facility which may result in noncompliance with Permit requirements.

5. Other Noncompliance. The Permittee shall report all other instances of noncompliance to the Director in writing and pursuant to Paragraph II.A, above, within ten (10) calendar days of when the Permittee initially becomes aware, or otherwise has reason to know, of such noncompliance. Each report shall contain the information listed in Paragraph II.D.3., above, of this Permit.

6. Well Rework. If the Injection Well is reworked as a result of noncompliance or well failure, the Permittee must complete and submit a Well Rework Record (EPA Form 7520-19, entitled "Well Rework Record, Plugging and Abandonment Plan, or Plugging and Abandonment Affidavit") to the Director. The Permittee shall submit the Well Rework Record, in accordance with Paragraph II.A., above, after completing the Injection Well rework, but prior to resuming injection operations. The Permittee shall therein specify the procedures used to

correct the well failure and the results of the mechanical integrity test performed after the rework.

7. Physical Alterations to the Facility. The Permittee shall provide written notice to the Director prior to making any physical alterations or additions to the permitted Facility. Such written notice shall be submitted to the Director, pursuant to Paragraph II.A, above, as far in advance of the Permittee's initiation of any planned or proposed physical alterations and/or additions at the permitted Facility as is reasonably practicable. Such notice shall fully and accurately describe all physical alterations and/or additions planned and/or proposed by the Permittee at the Facility and shall identify the proposed start and completion dates for each such activity.

8. Conversion. The Permittee shall provide written notice to the Director, pursuant to Paragraph II.A, above, at least thirty (30) calendar days prior to any proposed conversion to, and operation of, the Injection Well as anything other than an "injection well," within the meaning and definition of 40 C.F.R. § 144.3.

9. Annual Report. The Permittee shall submit a written Annual Report (EPA Form 7520-11, entitled "Annual Disposal/Injection Well Monitoring Report") to the Director, pursuant to Paragraphs II.A. and II.D.9, above, summarizing the results of Injection Well monitoring required by Paragraph II.C. of this Permit. This Annual Report shall include monthly monitoring records of injected fluids, the results of any mechanical integrity test(s), and any major changes in characteristics or sources of injected fluids. This Annual Report shall also list the additives used in the operation of the Injection Well. The Permittee shall complete and submit this information with its Annual Report. The Permittee shall submit the Annual Report to the Director not later than January 31st of each calendar year, summarizing the activity of the calendar year ending the previous December 31st.

10. Expedited Reporting of Injection Fluid Analysis. If the Permittee monitors the injection fluid injected into the Injection Well under Paragraph II.C.4. because the Permittee has observed or anticipated a change in the injection fluid, the Permittee shall submit the associated monitoring records to the Director within thirty (30) calendar days of initiating any such monitoring.

11. Plugging and Abandonment Reports and Notifications.

a. The Permittee shall notify the Director, in writing and in accordance with Paragraph II.A., above, at least forty-five (45) calendar days before initiating any Injection Well plugging and abandonment activities, as described in Paragraph III.C., below, of this Permit. The Director may allow a shorter notice period upon written request.

b. The Permittee shall submit any proposed revisions to the Plugging and Abandonment Plan attached to, and incorporated within, this Permit to the Director, in writing and in accordance with Paragraph II.A., above, no less than forty-five (45) calendar days prior to initiating any Injection Well plugging and abandonment activities at the Facility. Any such Plugging and Abandonment Plan revisions shall be submitted on EPA Plugging and Abandonment Form 7520-19 (entitled "Well Rework Record, Plugging and Abandonment Plan, or Plugging and Abandonment Affidavit"). The Permittee shall not commence any plugging and

abandonment activities at the Facility until such time as it receives written approval of its revised Plugging and Abandonment Plan from the Director.

c. To the extent that any unforeseen circumstances occur during plugging and abandonment of the Injection Well which cause the Permittee to believe that the Plugging and Abandonment Plan that is attached to this Permit, or which has been revised pursuant to the preceding Paragraph, should be further revised and/or modified, the Permittee shall immediately notify the Director, in writing and in accordance with Paragraph II.A., above, of its Plugging and Abandonment Plan revision/modification proposal and request, pursuant to the procedures set forth in the preceding Paragraph. The Permittee shall obtain written approval from EPA of any proposed and requested Plugging and Abandonment Plan revisions/modifications prior to resuming Injection Well plugging and abandonment activities at the Facility.

d. Within sixty (60) calendar days after plugging the Injection Well, the Permittee shall submit a Plugging and Abandonment Report to the Director in writing and in accordance with Paragraph II.A., above, which shall consist of either:

(1) A statement that the Injection Well was plugged in accordance with the EPA-approved Plugging and Abandonment Plan; or

(2) Where actual plugging procedures differed, in any material respect(s), from the Plugging and Abandonment Plan procedures previously approved by EPA, the Permittee shall provide to the Director an updated version of EPA Form 7520-19, in accordance with Paragraph II.A., above, specifying the different procedures used and providing a detailed, written explanation of the reason(s) why procedures other than those previously approved by EPA were employed by the Permittee at the Facility.

e. The Permittee shall ensure that the Plugging and Abandonment Report is certified as accurate by the person who performed the plugging operation.

12. Mechanical Integrity Tests. The Permittee shall notify the Director in writing and in accordance with Paragraph II.A., above, at least thirty (30) calendar days prior to conducting Mechanical Integrity Testing on the Injection Well.

13. Cessation of Injection Activity. Upon having ceased all fluid injection operations at the Facility and into the Injection Well for a period of two (2) years, thus constituting a “temporary abandonment” of the Injection Well, the Permittee shall plug and abandon the Injection Well in accordance with the Plugging and Abandonment Plan in Attachment 1, unless:

a. The Permittee provides written notice to the Director, in accordance with Paragraph II.A., above, describing those actions and/or procedures, including compliance with the technical requirements applicable to the Injection Well, that are necessary to ensure that the Injection Well will not endanger USDW during any period of temporary abandonment, unless waived, in writing, by the Director.

b. The Permittee receives approval from the Director that the actions and/or procedures described in the notice are satisfactory; and

c. The Permittee implements such EPA approved actions and/or procedures.

E. Mechanical Integrity Standards

1. The Permittee shall maintain the mechanical integrity of the permitted Injection Well pursuant to 40 C.F.R. § 146.8.

2. Request from Director. The Director may, by written notice, require the Permittee to demonstrate mechanical integrity at any time during the term of this Permit.

PART III

A. Construction Requirements

1. Confining Zone. Notwithstanding any other provision of this Permit, the Permittee shall inject through the Injection Well only into a formation which is separated from any USDW by a confining zone, as defined by 40 C.F.R. § 146.3, and is free of unknown open faults or fractures within the ¼ mile-radius Area of Review, as required by 40 C.F.R. § 146.22.

2. Casing and Cementing. The Permittee shall:

a. ensure that the Injection Well is cased and cemented to prevent the movement of fluids into or between USDW, in accordance with 40 C.F.R. § 146.22;

b. ensure that the casing and cement used in the Injection Well are designed for the life expectancy of the Injection Well;

c. ensure that the Injection Well has surface casing installed from the ground surface to a depth of approximately 564 feet below ground surface, and cemented back to the ground surface;

d. ensure that the Injection Well has intermediate casing installed from the ground surface to a depth of approximately 1,906 feet below ground surface, and cemented back to the ground surface;

e. ensure that the Injection Well has long string casing installed from the ground surface to a depth of approximately 1,680 feet below ground surface, and cemented back to the ground surface; and

f. install in the Injection Well, and inject fluids through, a tubing string which is set on a packer and placed above the injection zone interval at approximately 1,650 feet below ground surface.

3. Logs, Tests and Reports. In accordance with 40 C.F.R. § 146.22(f), the Permittee shall prepare the following well logs and tests, as follows, during the period of well conversion and Injection Well construction and/or during any rework of the Injection Well: electric, gamma ray and caliper logs in the open hole; a cement bond, temperature or density log on the surface casing (if cement returns are not achieved); and a cement bond log/variable density log on the long string casing. In accordance with Paragraph II.A., above, the Permittee shall submit to the

Director all Injection Well cement records, a narrative report that interprets the well log(s) and test results and which specifically relate to the results of the cementing operation, along with a detailed description of the rationale used to make these interpretations. The narrative report shall be prepared by a knowledgeable log analyst and submitted to the Director. The Director may prescribe additional logs or waive logging requirements in the future should field conditions so warrant.

4. Mechanical Integrity. The Permittee is prohibited from conducting injection operations in the Injection Well until it: (i) demonstrates the mechanical integrity of the Injection Well, in accordance with 40 C.F.R. § 146; and, (ii) receives notice from the Director that such a demonstration is satisfactory, in accordance with Paragraph II.D.2. of this Permit.

5. Corrective Action. If an abandoned well is discovered within the ¼ mile-radius Area of Review after injection operations commence, the Permittee shall stop the injection operations and notify the Director in writing upon discovery. Within five (5) business days of such discovery and in accordance with Paragraph II.A., above, the Permittee shall submit to the Director, for approval, a written plan for corrective action that is consistent with the requirements of 40 C.F.R. §§ 144-147. The Permittee cannot resume injection operations until the Director approves the plan for corrective action and the Permittee takes the actions specified by the plan as preconditions to resumption of the injection operations.

6. Completion Reports. The results of those activities required in Paragraphs III.A.1-5, of this Permit must be summarized and submitted to the Director, in writing and in accordance with Paragraph II.A., above, prior to the commencement of Facility injection operations as part of the completion reports required under Paragraph II.D.2.

B. Operating Requirements

1. Injection Formation. The Permittee shall inject only into the Murrysville sandstone formation in the perforated subsurface interval between approximately 1,740 feet to 1,800 feet below ground surface.

2. Injection Fluid. The Permittee shall not inject any hazardous waste, as defined by 40 C.F.R. § 261, nor any other fluid, other than the fluids produced solely in association with oil and gas production activity, and additives necessary to maintain the integrity of the Injection Well.

3. Injection Volume Limitation. Injection volume shall not exceed 54,000 barrels per month.

4. Injection Pressure Limitation.

- a. The Permittee shall not inject fluid at a pressure which initiates new fractures or propagates existing fractures in the confining zone, as defined by 40 C.F.R. § 146.3 adjacent to USDWs or causes the movement of injection or formation fluids into an USDW.
- b. Injection pressure at the surface shall not exceed the Maximum Allowable Injection Pressure (MAIP).

The **MAIP** (measured at the surface) must be calculated using the following equation:

$$\mathbf{MAIP} = [\mathbf{FG} - (0.433 * \mathbf{SG}) * \mathbf{D}]$$

The **FG** must be calculated using the following equation:

$$\mathbf{FG} = [\mathbf{ISIP} + (0.433 * \mathbf{SG} * \mathbf{D})] / \mathbf{D}$$

The values used in the equations are defined as:

“**FG**” is the fracture gradient in pounds per square inch/feet (psi/ft) on the injection zone. The FG value shall be determined during formation testing during completion of the well as described in Attachment I of the Applicant’s permit application.

“**SG**” is the specific gravity of the injection fluid. The SG for the MAIP calculation should be the highest specific gravity that the Permittee expects to encounter during normal operation of the well. The SG for the FG should be the specific gravity of the fluid used during formation testing

“**D**” is the true vertical depth in feet. The value for D is the depth of the top open formation.

c. To determine the MAIP, the Permittee shall conduct formation testing and shall submit in writing to the Director the following information prior to commencing injection: Instantaneous Shut-In Pressure (ISIP) data and the range of specific gravity of the injection fluid that the Permittee expects to encounter during normal operation of the well. The Permittee shall calculate the MAIP and FG as described above and submit the calculation to the Director with the formation testing information. The Director will review the information and provide the MAIP in the written authorization to commence injection required under Paragraph II.D.2.d.

C. Plugging and Abandonment

1. The Permittee shall plug and abandon the Injection Well in accordance with the EPA-approved plugging and abandonment plan in Attachment 1 and any EPA-approved modifications and/or revisions thereto.

2. The Permittee shall plug and abandon the Injection Well in such a manner that fluids shall not move into or between USDW.

D. Financial Responsibility

1. The Permittee shall continuously maintain financial responsibility and resources to close, plug, and abandon the Injection Well in accordance with 40 C.F.R. § 144.52(a)(7) in the amount of at least \$13,397.10. The Permittee shall not construct, rework, or operate the Injection Well until it establishes the financial responsibility for the Injection Well.

2. The Permittee must provide a Standby Trust Agreement and Irrevocable Letter of Credit assuring the plugging costs for the Injection Well prior to the initiation of any Injection

Well construction or the commencement of injection operations. The Permittee shall not substitute this Standby Trust Agreement and Irrevocable Letter of Credit with an alternative demonstration of financial responsibility unless the Permittee has previously submitted evidence of that alternative demonstration to the Director and the Director notifies the Permittee that the alternative demonstration of financial responsibility is acceptable to EPA. The Director may require the Permittee to submit a revised demonstration of financial responsibility if the Director has reason to believe that the original demonstration is no longer adequate to cover the costs of plugging and abandonment.

3. The Permittee shall continue to demonstrate and maintain financial responsibility and resources to close, plug, and abandon the underground injection operations at the Facility in the manner required herein until:

a. The Injection Well has been plugged and abandoned in accordance with an EPA-approved plugging and abandonment plan, pursuant to 40 C.F.R. §§ 144.51(o), 146.10, and 146.92, and the Permittee has submitted a written plugging and abandonment report and it has been approved by the Director pursuant to § 144.51(p); or

b. The Injection Well has been converted in compliance with the requirements of 40 C.F.R. § 144.51(n); or

c. The Permittee has transferred this Permit to another party and has received notice from the Director that the new Facility owner or operator, *i.e.*, the new permittee, has demonstrated financial responsibility for the Injection Well.

4. Insolvency of Financial Institution. In the event of the bankruptcy of the trustee or of the institution issuing the financial assurance mechanism, or suspension or revocation of the authority of the trustee institution to act as a trustee or of the institution issuing the financial assurance mechanism to issue such an instrument, the Permittee must immediately notify the Director, in writing and in accordance with Paragraph II.A., above, and submit an alternative demonstration of financial responsibility acceptable to the Director within sixty (60) calendar days after such an event.

ATTACHMENT 1

Attachment 1
Plugging and Abandonment Plan
Sedat #4A Injection Well

Plugging and Abandonment Plan:

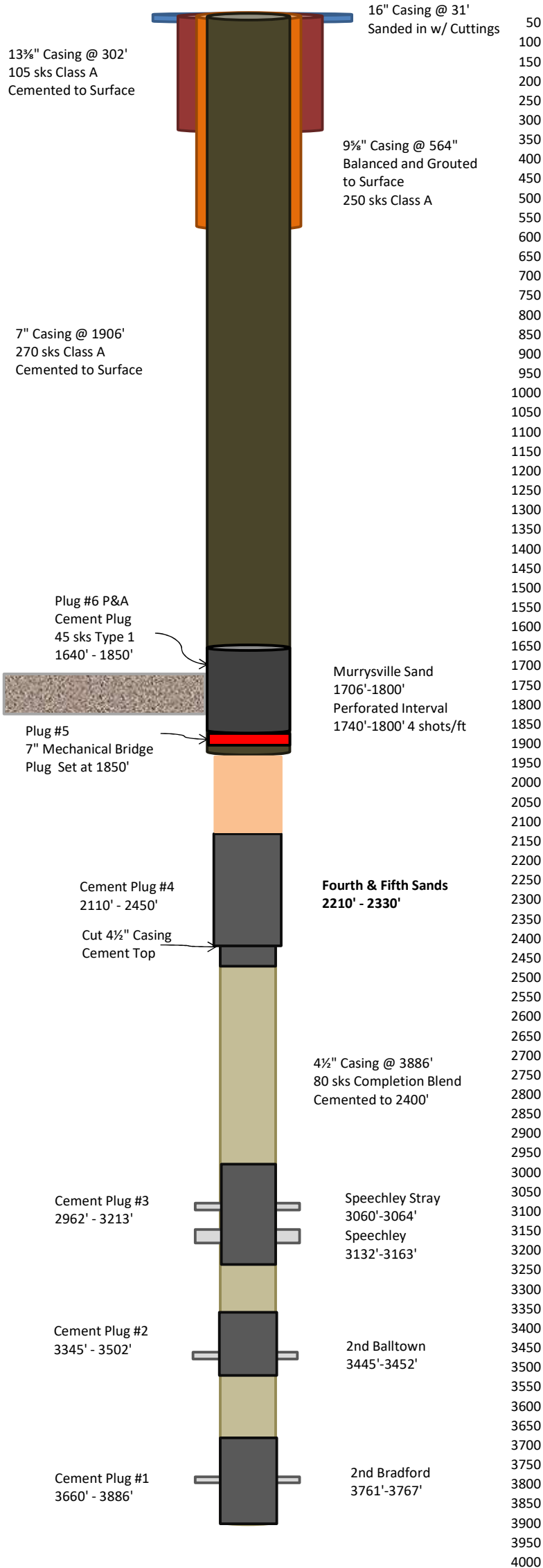
The company will plug the Sedat #4A in accordance with the Pennsylvania Bureau of Oil and Gas Management and the EPA regulations in place at the time of abandonment. The following actions will be taken:

- * Move in service rig
- * Set 4½" Cast Iron Bridge Plug at approximately 1,680'
- * Run 2 7/8" tubing to 1,680'
- * Spot solid plug from CIBP to Surface
- * Retrieve and lay down tubing string
- * Rig down and move out
- * Haul tubing to storage or disposal
- * Install monument with requisite detail

Form 7520-19 and cost estimate is attached.

Attachment 1

Sedat #4A 003-21644
P&A Schematic



United States Environmental Protection Agency



WELL REWORK RECORD, PLUGGING AND ABANDONMENT PLAN, OR PLUGGING AND ABANDONMENT AFFIDAVIT

Name and Address, Phone Number and/or Email of Permittee

Penneco Environmental Solutions, LLC
6608 Route 22
Delmont, PA 15626
724-468-8232
dmarcj@penneco.com

Permit or EPA ID Number

API Number

Full Well Name

37-003-21644

Sedat #4A

State

Pennsylvania

County

Allegheny

Locate well in two directions from nearest lines of quarter section and drilling unit

Latitude 40.526916

Surface Location

1/4 of 1/4 of Section Township Range

Longitude -79.711027

ft. from (N/S) Line of quarter section

ft. from (E/W) Line of quarter section.

Well Class

Timing of Action (pick one)

Type of Action (pick one)

- Class I
- Class II
- Class III
- Class V

- Notice Prior to Work
Date Expected to Commence
- Report After Work
Date Work Ended

- Well Rework
- Plugging and Abandonment
- Conversion to a Non-Injection Well

Provide a narrative description of the work planned to be performed, or that was performed. Use additional pages as necessary. See instructions.

Upon the determination that the Sedat #4A well is no longer suitable for brine disposal, the well will be plugged starting with a 4½" Cast Iron Bridge Plug at approximately 1,680' (4½" casing seat depth) followed by 130 sks of Type 1 Cement from the CIBP to surface.

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR § 144.32)

Name and Official Title (Please type or print)

D. Marc Jacobs, Jr.
Senior Vice President

Signature

Date Signed

2/17/22



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Four Penn Center
1600 John F Kennedy Blvd
Philadelphia, Pennsylvania 19103-2852

STATEMENT OF BASIS

U.S. EPA UNDERGROUND INJECTION CONTROL (UIC)
DRAFT CLASS II-D PERMIT PAS2D702BALL

FOR

PENNECO ENVIRONMENTAL SOLUTIONS, LLC
6608 ROUTE 22
DELMONT, PA 15626

FOR

A project consisting of one Class II-D commercial disposal injection well, for the purpose of injecting fluids produced solely in association with oil and gas production, located in:

Plum Borough
Allegheny County, Pennsylvania

On July 23, 2021, Penneco Environmental Solutions, LLC (“Penneco” or “the Permittee”) submitted a UIC permit application to the U.S. Environmental Protection Agency (“EPA” or the “Agency”), Region 3, for the issuance of a permit that would allow for the conversion and operation of a Class II-D commercial disposal injection well, Sedat #4A, API # 37-003-21644, (hereinafter, “Injection Well”, “Sedat #4A”, or the “Facility”), located in Plum Borough in Allegheny County, Pennsylvania. The coordinates for the Injection Well are: Latitude 40° 31' 36.897" Longitude -79° 42' 39.6972". The application was officially deemed complete on August 5, 2021. The Permittee’s July 23, 2021 submittal with all accompanying attachments is hereinafter referred to in this Statement of Basis as the “Permit Application”.

Pursuant to the federal Safe Drinking Water Act, 42 U.S.C. §§ 300f *et. seq.*, and its implementing regulations, 40 C.F.R. Parts 144 -146, and 40 C.F.R. §§ 147.2350 - 2352, the EPA has developed a federal UIC Program and, through the issuance of permits, is responsible for regulating the construction, operation, monitoring and closure of injection wells that place fluids underground for disposal or enhanced recovery in oil and gas production. Today’s draft permit specifies conditions for Injection Well construction, operation, monitoring, reporting, and plugging and abandonment which are designed to protect and prevent the movement of fluids into Underground Sources of Drinking Water (“USDW”). The Permittee’s UIC project and the draft permit conditions specific to the project are described below:



*Printed on 100% recycled/recyclable paper with 100% post-consumer fiber and process chlorine free.
Customer Service Hotline: 1-800-438-2474*

Area of Review: Pursuant to the applicable regulations, 40 C.F.R. §§ 144.3 and 146.6(b), the “Area of Review” is an area surrounding the Injection Well for which the applicant must first research, and then develop, a program for corrective action to address any wells that penetrate the injection zone and which may provide conduits for fluid migration during the injection operation at the Facility. Penneco proposed a fixed radius Area of Review of one-quarter mile, which EPA has determined to be acceptable. In support of using a fixed radius Area of Review, EPA has considered the following information provided by the Permittee: survey by Fox and Fox, Inc., conversation with surface landowners, research of Pennsylvania Bureau of Oil and Gas Management’s well records, research of Pennsylvania Geological Survey publications covering the Area of Review, research of United States Geological Survey publications covering the Area of Review, master theses from West Virginia University, and a series of reservoir tests by HFrac Consulting Services. Penneco used the results from the aforementioned research along with topographic and tax maps displaying surface features (such as buildings and streams) to prepare the maps of the Area of Review that are included with the permit application. The Sedat #4A Area of Review is located in the Pittsburgh Low Plateau Section of the Appalachian Plateau physiographic province. Underlying rock types are shale, siltstone, sandstone, limestone, and coal. The Permittee indicated that there are six (6) wells within the Area of Review that penetrate the injection zone, which includes the proposed injection well, Sedat #4A, and the EPA-permitted Sedat #3A injection well. Of the other four (4) wells within the Area of Review, three (3) are active production wells and one (1) well (API # 37-003-00674) has been plugged in accordance with Pennsylvania Department of Environmental Protection regulations. The Sedat #2A well (API #37-003-21222) will be converted into a monitoring well. There are 14 wells within the ½ mile Area of Review that penetrate the Murrys ville sandstone. All the wells were cased and cemented through the Murrys ville sandstone. If any unplugged/abandoned wells that penetrate the injection zone are found within the Area of Review at a later date, the draft permit requires the Permittee to perform corrective action.

Underground Sources of Drinking Water (USDW): A USDW is defined by the UIC regulations as an aquifer or its portion which, among other things, contains a sufficient quantity of ground water to supply a public water system and which also contains fewer than 10,000 mg/L (milligrams per liter) Total Dissolved Solids, and which is also not an exempted aquifer. Aquifers in the Area of Review are mainly sandstones of the Conemaugh Group and the Allegheny Group. The thickness of the section from the Conemaugh Group through the Allegheny Group runs in the range of 800 feet below ground surface depending on surface elevation. The Permittee notes that Pennsylvania Geological Survey Water Resource Reports #35 and #37 state water quality is extremely poor beyond 500 feet in depth below ground surface because of moderate to high mineralization of the waters due to high dissolved solids and brine. The established lowermost USDW for the nearby Sedat #3A well (PAS2D701BALL) is approximately 450 feet below ground surface. Taking the elevation difference between Sedat #3A and Sedat #4A into account (-38 feet), EPA has determined that the lowermost USDW at Sedat #4A is calculated at approximately 412 feet below ground surface. Construction of the Injection Well requires the Permittee to install surface casing to a depth of approximately 564 feet and to cement that entire length of casing back to the surface. The Permittee must, among other requirements, also install intermediate casing from the ground surface to an approximate depth of 1,906 feet and cement that intermediate casing back to the surface, and install long string casing from the ground surface to a depth of approximately 1,680 feet and cement that long string casing back to the surface. The Permittee must install in the Injection Well, and inject fluids through, a tubing string which is set on a packer and placed above the injection zone interval at approximately 1,650 feet below ground surface. Both the surface casing and the intermediate casing are required to protect ground-water.

Injection and Confining Zones: Injection of fluids for disposal is limited by the draft permit to the Murrysville sandstone formation in the subsurface perforated interval between approximately 1,740 feet to 1,800 feet below ground surface.

The Murrysville sandstone is approximately 94 feet thick and lies at a depth of 1,706 feet to 1,800 feet below ground surface in the Sedat #4A Area of Review. The lowermost USDW is separated from the injection zone by approximately 1,328 feet. The Sedat #4A well had an original total depth of 3,886 feet below ground surface and will be plugged back to 1,850 feet (approximately 50 feet below the injection zone). Fluid will be injected into a 60 foot section of the Murrysville sandstone through a 2 7/8 inch injection string set on a packer at approximately 1,650 feet in 4 1/2 inch casing cemented to surface and into perforations in the 7 inch casing from 1,740 feet to 1,800 feet below ground surface. The confining zones are the Riddlesburg Shale (Sunbury Equivalent) which overlays the Murrysville sandstone with the Riceville-Oswayo Shale lying underneath as the lower confining zone. The Riddlesburg Shale, serving as the upper confining zone, is composed of laminated shale and siltstone with occasional sandstone and limestone beds. The Riddlesburg Shale is between 80 to 90 feet thick in the Sedat #4A Area of Review. Because of the Murrysville sandstone's thickness, high porosity, and permeability, the formation serves as a gas storage reservoir to the south of the Sedat lease. The Riceville-Oswayo Shale, serving as the lower confining zone, is composed of shale and siltstones. The Riceville-Oswayo Shale is about 30 feet thick in the Sedat #4A Area of Review.

Injection Fluid: The draft permit limits the injection fluids in this well to produced fluids obtained solely in association with oil and gas production. The draft permit also establishes a maximum daily injection volume of 54,000 barrels per month. One barrel of fluid is equal to 42 gallons.

The Permit Application includes analyses of the injection fluid that corresponds to the requirements stated in Paragraph II.C.3. in the draft permit. The parameters chosen for sampling reflect not only some of the typical constituents found in the injection fluid, but also in shallow ground water. Should a ground water contamination event occur during the operation of the Injection Well, EPA will be able to compare samples collected from groundwater with the injection fluid analysis to help determine whether operation of the Injection Well may be the cause of the contamination.

Maximum Injection Pressure: To determine the Maximum Allowable Injection Pressure (MAIP), the Permittee shall conduct formation testing and shall submit in writing to the Director the following information prior to commencing injection: Instantaneous Shut-In Pressure (ISIP) data and the range of specific gravity of the injection fluid that the Permittee expects to encounter during normal operation of the well. The MAIP determined by the formation testing will be reviewed and must be approved by the Director before authorization to inject is granted.

Potential for Seismicity: The SDWA regulations for Class II injection wells do not require consideration of the seismicity of the region, unlike the SDWA regulations for Class I injection wells for the injection of hazardous wastes. See regulations for Class I hazardous injection wells at 40 C.F.R. §§ 146.62(b)(1) and 146.68(f). Nonetheless, because of public concerns about injection-induced seismicity, EPA evaluated factors relevant to seismic activity as discussed below and addressed more fully in [Region 3 framework for evaluating seismic potential associated with UIC Class II permits](#). The final permit will provide that the Permittee shall only inject produced fluids through the Injection Well and into a formation which is overlain by a confining zone free of known open faults or fractures within the Area of Review, as required pursuant to 40 C.F.R. § 146.22.

A report conducted by the *Commonwealth of Pennsylvania Department of Conservation and Natural Resources Bureau of Topographic and Geologic Survey*, [“Earthquake Hazard in Pennsylvania”](#) documents known epicenters found in Pennsylvania. Per the report, there are no documented cases in which the epicenter of an earthquake was traced back to Allegheny County, Pennsylvania. On page 7 of the report, the author states, “The great majority of earthquakes occur along boundaries between tectonic plates. The reason for this is not completely clear, but it appears that stress levels are higher along plate boundaries, and that strain energy builds up more rapidly in those areas. Eastern North America, including Pennsylvania, today is far from the nearest plate boundary – the mid-Atlantic Ridge, some 2,000 miles to the East.”

The United States Geological Survey (U.S.G.S.) as well as the Pennsylvania Bureau of Topographic and Geologic Survey have not recorded and EPA has not been notified of any seismic activity that originated in Allegheny County, Pennsylvania. The U.S.G.S. rates the probability of seismic activity in southwest Pennsylvania with sufficient intensity to cause damage as low. Penneco also contends that the maximum injection pressure is sufficiently below the pressure needed to initiate a fracture or disrupt any unknown faults. The injection rate is also not of a sufficient volume to open or extend any fractures or disrupt any unknown faults in the area. The final permit will include a table of injection pressure limits for each individual specific gravity level of fluid to be injected, the surface Maximum Allowable Injection Pressure (“MAIP”), to prevent the initiation or propagation of fractures that could create conduits for the injected fluid to flow to any existing faults. The MAIP is set at a level less than both the Instantaneous Shut-In Pressure, which is the wellhead pressure immediately after pumps are shut down following a fracture treatment or test, and the fracture pressure in order to prevent the initiation of new, or the propagation of existing, fractures as a result of injection activities. The formula used to calculate the surface MAIP can be found in Paragraph III.B.4. of the draft permit.

Finally, the Permittee submitted a Seismic Monitoring and Mitigation Plan that will provide a continuous record of any seismic and earthquake events. The monitoring equipment and seismometer stations will notify the Permittee, Incorporated Research Institutions for Seismology (IRIS) and the Pennsylvania Seismic Network (PASEIS) via Penn State University of any detections of naturally occurring and manmade seismic occurrences or events at the Penneco facility and vicinity.

Testing, Monitoring and Reporting Requirements: The Permittee is required to conduct a mechanical integrity test (“MIT”) after conversion of the Injection Well. The MIT consists of a pressure test and a fluid movement test. The pressure test will be conducted in order to ensure that the casing, tubing and packer in the Injection Well do not leak. The fluid movement test, which includes case cement record and cement bond log or temperature log reviews, will be conducted to ensure that fluid movement does not occur outside of the injection zone. In addition to the testing described above, additional pressure testing of the casing, tubing and packer will occur every two (2) years and whenever a rework on the Injection Well requires the tubing and packer to be released and reset.

The Permittee will be responsible for continuously monitoring the Injection Well for surface injection pressure, annular pressure, flow rate and cumulative volume from the date on which the Injection Well commences operation and until such date that the Injection Well is plugged and abandoned. The Injection Well shall be equipped with automatic shut-off devices which would be activated in the event of a mechanical integrity failure. In addition, Paragraph II.D.3 requires the Permittee to report to the Director, within twenty-four (24) hours, any Permit noncompliance which may endanger, or which has endangered, human health or the environment. The Permittee must submit an Annual Report to the EPA summarizing the results of the monitoring and testing activities required by the permit, including

monthly monitoring records of the injection fluid, the results of any mechanical integrity testing and information identifying any major changes in the characteristics of the injected fluid. The Annual Report must be submitted to EPA by January 31 of each calendar year.

Plugging and Abandonment: The Permittee has submitted a Plugging and Abandonment Plan that will result in an environmentally protective Injection Well closure at the time of cessation of operations. The Permittee will secure a Standby Trust Agreement as well as an Irrevocable Letter of Credit to ensure proper plugging of the Injection Well. The amount of the Standby Trust Agreement and Irrevocable Letter of Credit shall cover the estimated cost to close, plug and abandon the Injection Well and shall be in the amount of at least \$13,397.10. The amount of the Standby Trust Agreement, which is based upon an independent, third-party professional's estimate of the costs associated with the plugging and abandonment of the Injection Well, must also be sufficient to preclude the possibility of abandonment without proper plugging and closure. Authorization to construct and operate the Injection Well will not be given by EPA until financial assurance is in place.

Expiration Date: When issued, a final permit will be in effect for ten (10) years from the date of Director's signature, which includes the proper plugging and abandonment of the Injection Well when operations cease. EPA will conduct an annual review of the Permittee's Injection Well operation. The final permit will contain the same conditions as in this draft permit unless EPA receives information supporting and warranting alternative final permit conditions or actions on this Permit Application.

Additional Information: The Administrative Record for the draft permit is available for public inspection. All information submitted by the Permittee in support of the draft permit, unless deemed confidential, is included in the Administrative Record for the draft permit and is available to the public for review. Copies of the Permit Application, the draft permit, the Statement of Basis, and the Administrative Record index are available for review and inspection on EPA's [website](#). Please direct any questions, comments and requests for additional information to the contact listed below. **The Administrative Record for this action will remain open for public comment until August 30, 2022.**

Public Hearing: EPA has scheduled an in-person public hearing for August 30, 2022 at the Plum Community Center, 499 Center New Texas Road, Pittsburgh, PA 15239 from 6:00 pm to 8:00 pm EST.

There is no need to register in advance for the hearing. The meeting organizer will call on people to deliver their oral comments. Participants who want to supply written or printed materials can do so using the information listed below.

General Notice: If you would like to be added to a general mailing list for notice of any UIC permitting action in Pennsylvania, Virginia, and Washington D.C., please notify EPA of your interest in being added to the list by sending an email to R3_UIC_Mailbox@epa.gov with the email address you would like EPA to use for notice to you. Please specify if you are interested in permitting actions in all three jurisdictions (Pennsylvania, Virginia, and Washington D.C.) or only in particular jurisdiction(s). If you do not have access to email, you may also send a request to be included on the list to the physical address listed below.

Submit comments or requests for additional information to:

Ryan Hancharick
Water Division (Mail Code: 3WD22)
U.S. Environmental Protection Agency Region 3
Four Penn Center
1600 John F. Kennedy Blvd.
Philadelphia, PA 19103
215-814-3278
R3_UIC_Mailbox@epa.gov

EPA PUBLIC NOTICE
Underground Injection Control (UIC) Program
Notice of Proposed Permit Issuance for:

Penneco Environmental Solutions, LLC
6608 Route 22
Delmont, PA 15626

The U. S. Environmental Protection Agency Region 3 (EPA) is issuing a proposed permit under the authority of the federal Underground Injection Control (UIC) regulations at 40 Code of Federal Regulations (C.F.R.) Parts 124, 144, 146, and 147 to Penneco Environmental Solutions, LLC (“Penneco”).

Description: Penneco applied for one (1) UIC Class II injection well permit, to be used for the injection of fluids produced solely in association with oil and gas production. The injection well is located in Plum Borough, Allegheny County, Pennsylvania. The draft permit will allow Penneco to inject produced fluids into the Murrysville sandstone formation in the subsurface perforated interval between approximately 1,740 feet to 1,800 feet below ground surface. If the final permit is issued to Penneco, it will remain in effect for ten (10) years. A permit is required to meet the provisions of the EPA-administered UIC Program in Pennsylvania.

Tentative Public Hearing: EPA has tentatively scheduled a virtual public hearing using Microsoft Teams on June 28, 2022. An in-person hearing will not take place. The call-in and log-in information for the virtual meeting is listed below:

Call-in Number: (484) 352-3221 6:00 PM – 8:00 PM Eastern Standard Time
Conference ID: 530 160 499#

MS Teams Link: <https://msteams.link/HWTU>

There is no need to register in advance for the virtual hearing. Attendees may utilize MS Teams by calling via telephone or entering the URL into a web browser. During the hearing, callers will receive instructions on how to join the queue to make a comment. The meeting organizer will call on people to deliver their oral comments. Participants who want to supply written or printed materials can do so using the information listed below.

Requests to hold this public hearing must be received via email or telephone to EPA by June 21, 2022. When requesting a public hearing, please state the nature of the issues you propose to raise. EPA expressly reserves the right to cancel this hearing unless a significant degree of public interest is evidenced by June 21, 2022.

EPA Requests Public Comments on the Permit Issuance
Public Comments on the permit issuance will be accepted until June 29, 2022

The administrative record for this permitting action is available for review. The draft permit, the statement of basis for the draft permit, and permit application materials have been posted on EPA’s website at <https://www.epa.gov/pa/epa-public-notice-pennsylvania>. Comments on the draft permit may be directed to:

Ryan Hancharick
Water Division (Mail Code: 3WD22)
U.S. Environmental Protection Agency Region 3
Four Penn Center
1600 John F. Kennedy Blvd.
Philadelphia, PA 19103
R3_UIC_Mailbox@epa.gov
215-814-3278