



**Atlas Resources, LLC**

May 25, 2011

**VIA HAND DELIVERY**

Ms. Jacqueline Morrison (3LC00)  
Land and Chemicals Division  
U.S. Environmental Protection Agency, Region III  
1650 Arch Street  
Philadelphia, PA 9103-2029

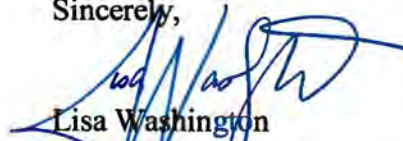
Re: EPA Request for Information on Marcellus Shale Flowback Water

Dear Ms. Morrison:

Enclosed is the response by Atlas Resources, LLC ( "Atlas") to the U.S. Environmental Protection Agency, Region III ("EPA") information request dated May 12, 2011, entitled "Request for Information on Marcellus Shale Flowback Water" (the "Information Request"). We are enclosing both a hard copy of Atlas's response and a CD containing the electronic files of (1) the text of the Atlas Response in Microsoft Word format; (2) certain Exhibits that are Microsoft Excel format; and (3) the remaining Exhibits that are either maintained in our records in PDF format or have been scanned from hard copy files into PDF format. Exhibit 3G (a binder reflecting chemical analyses) is available in hard copy only, and has not been scanned into PDF.

If you should have any questions regarding this response, please do not hesitate to contact either myself or our environmental counsel, R. Timothy Weston of K&L Gates LLP (717.231.4504; e-mail: [tim.weston@klgates.com](mailto:tim.weston@klgates.com)).

Sincerely,



Lisa Washington  
Chief Legal Officer

Enclosures

cc: R. Timothy Weston, K&L Gates LLP  
Jeffrey Simmons, Atlas Resources, LLC

## **Response to EPA Information Request Dated May 12, 2011 Concerning Marcellus Shale Flowback Water**

This serves as the response by Atlas Resources, LLC ( "Atlas") to the U.S. Environmental Protection Agency, Region III ("EPA") information request dated May 12, 2011, entitled "Request for Information on Marcellus Shale Flowback Water" (the "Information Request").

Although Atlas has made a diligent and good faith effort to respond to the requests set forth in the EPA Information Request as fully and completely as practicable within the extremely short period of time provided, Atlas nonetheless respectfully sets forth the objections stated in the attached Appendix A to preserve its rights. The responses below are based on the information available to Atlas as of the date of this response. As indicated below, some of the information requested in the EPA Information Request is not currently available to Atlas, as it relates to data that will be obtained from reports from contractors that would in the ordinary course be expected to be received subsequent to the date of this response. Accordingly, Atlas respectfully reserves the right to amend or supplement the responses below if and when additional information is received. Subject to, and without waiving such objections and reservations, Atlas responds as stated below. Each of the numbered items ("Requests") listed in the EPA Information Request are set forth below in bold italics, and Atlas's response to each such Request is provided below each such item.

- 1. Provide a list identifying each state permitted Well that you own or operate in EPA Region III and include the latitude and longitude for each Well and identify whether each well is actively being drilled, is completed, or is producing natural gas.***

In responding to Request No. 1, Atlas has relied upon the oral clarification received from EPA's counsel that the term "Well" is to be interpreted as limited to Wells that have been permitted by a state agency for the exploration and production of natural gas from the Marcellus Shale formation (a "Marcellus Shale Well"). Subject to that understanding, Exhibit 1 provides a spreadsheet listing the Marcellus Shale Wells within Region III that have been permitted by a state agency and that as of the date of this response are owned or operated by Atlas. Atlas notes that as of February 17, 2011, certain other Marcellus Shale Wells previously owned or operated by Atlas Resources, LLC were transferred to indirectly wholly-owned subsidiaries of Chevron Corporation ("Chevron"), and the state-issued permits relating to those Marcellus Shale Wells have also been transferred.

2. ***Provide all Pennsylvania “26R” forms completed and submitted to the Commonwealth of Pennsylvania for all Gas Extraction Wastewaters associated with your Wells for the calendar year 2010, including complete Chemical Analysis Attachments associated with each.***

**Exhibits 2A, 2B, 2C, 2D, 2E, and 2F** are copies of the Pennsylvania Department of Environmental Protection’s Form 26R’s for Gas Extraction Wastewaters generated by the Marcellus Shale Wells listed in **Exhibit 1**, covering the period of calendar year 2010. **Exhibit 2G** provides the related chemical analyses. (The chemical analyses are available only in hard copy.)

3. ***For the period of April 19, 2011 to present, identify your Gas Extraction Wastewater management activities, including disposal, reuse, treatment, recycling, and reclamation for your Wells. In so doing, provide the following:***

- a. ***For each Well, the actual or estimated amount of Gas Extraction Wastewater generated;***

Based on information currently available to Atlas’s management, for the Atlas Marcellus Shale Wells located within the southwestern Pennsylvania counties of Fayette, Greene, Washington, and Westmoreland (the “**Core Counties**”), **Exhibit 3A1** provides a spreadsheet entitled Total Fluid Production Report listing each Atlas Marcellus Shale Well within the Core Counties, including the amount of fluids (including Gas Extraction Wastewater) generated by such Marcellus Shale Well between April 19, 2011 and May 19, 2011 (the “**Report Range**”). **Exhibit 3A1** was compiled from information on measured or estimated volumes of fluids generated by each Marcellus Shale Well as provided daily from field operation sites, and may be subject to verification and correction. The columns labeled “Total Fluid” represents the total volume of all fluids generated as reported during the Report Range, and with totals expressed in both barrels (where one barrel = 42 gallons) and gallons. The total fluid includes, but is not limited to, Gas Extraction Wastewaters. Total fluids may include other materials, such as oil or condensate product. At present, Atlas does not have the ability to segregate within its database those fluids that meet the Information Request’s definition of “Gas Extraction Wastewaters” versus other fluids that may not meet that definition.

- b. ***For each facility that has received your Gas Extraction Wastewater, including but not limited to, underground injection wells, wastewater treatment plants, and recycling facilities, provide the name and address for each such facility, the name and address of any entity that transported your Gas Extraction Wastewater to each facility, and the volume (in gallons) of such Gas Extraction Wastewater sent to each such facility;***

Information concerning Gas Extraction Wastewater and other material shipments is compiled via two processes, which vary by the location of the Marcellus Shale Wells in question. For Atlas’s Marcellus Shale Wells within the southwestern Pennsylvania Core Counties, Chevron is currently providing wastewater management services pursuant to a transition services arrangement following the February 2011 transaction between Atlas and Chevron. For the

limited number of Atlas Marcellus Shale Wells outside of the Core Counties, Atlas compiles such information in its wastewater management tracking system. In each case, such information is compiled based upon contractor trip tickets, manifests and invoices, which are typically submitted one to two weeks after the shipment. Further, it takes several weeks to validate the many manifests with the well operational data. Accordingly, it is not possible for Atlas to respond to Request 3.b with information that is complete and accurate through “present,” as Atlas would expect additional information regarding shipments that have occurred during the period after April 19, 2011 and the date of this response to be received and compiled subsequent to May 25, 2011. Further, some of the information in the database reflects preliminary shipment information entered into the database through May 19, 2011, where due to the limited time available, it was not possible to verify and reconcile the information. (For example, information may have been entered based on estimated volumes in a truckload, assuming that the truck was full.) Therefore, Atlas reserves the right to supplement and revise this response when such additional information becomes available.

Subject to the foregoing limitations and reservations, **Exhibit 3B1** provides a compilation prepared by Chevron with respect to the shipment of Gas Extraction Wastewater from such Atlas Marcellus Shale Wells in the Core Counties as reported and entered into the database as of May 19, 2011. The spreadsheet at tab “3(b)” of Exhibit 3B1 lists the facilities receiving Gas Extraction Wastewater from April 19, 2011 to May 19, 2011 from the Marcellus Shale Wells in the Core Counties. The spreadsheet at tab “3(c)” of Exhibit 3B1 contains information prepared by Chevron concerning the volumes of treated and untreated water from the Marcellus Shale Wells in the Core Counties that were recycled.

Subject to the foregoing limitations and reservations, based on information currently available to Atlas’s management, **Exhibit 3B2** provides two spreadsheets, entitled “Brine Water Tracking – Month of April 2011” and “Brine Water Tracking, Month of May 2011,” providing information concerning Gas Extraction Wastewater shipped for treatment or disposal from the Atlas Marcellus Shale Wells outside of the Core Counties within EPA Region III. No Gas Extraction Wastewater from Atlas Marcellus Shale Wells within the Non-Core Counties was recycled.

The names and addresses of the material transporters listed in Exhibits 3B1 and 3B2 are provided in **Exhibit 3B3**. The names and addresses of the wastewater treatment or disposal facilities receiving the material are provided in **Exhibit 3B4**.

- c. The total volume (in gallons) of Gas Extraction Wastewater that you treated and recycled or caused to be treated or recycled for all your Well sites;*

See response to Request 3.b.

- d. A description of the method or methods by which you or any third party recyclers recycled such Gas Extraction Wastewater; and*

As noted above, for Atlas’s Marcellus Shale Wells within the Core Counties, Chevron is currently providing wastewater management services. Chevron indicates that for most such Gas Extraction Wastewater, it is utilizing a proprietary, patent-pending water reuse process to utilize



Gas Extraction Wastewater generated at the Atlas Well sites [at other Well sites that are being developed by Chevron]. Atlas does not have information concerning the details of the Chevron proprietary methods. Some Gas Extraction Wastewater is trucked to Appalachia Water Services in Masontown, PA, which provides treatment and return of treated water for reuse in the development (including hydrofracturing) of Marcellus Shale Wells. Appalachian Water Services utilizes a combination of softening and clarification to prepare the material for reuse by Chevron.

***e. All modified disposal plans that you submitted after April 19, 2011 to the Commonwealth pursuant to the Pennsylvania Code Title 52 Section 78.55.***

Pennsylvania Code Title 52 Section 78.55 does not exist. Title 52 of Pennsylvania Code relates to public utility regulation, and does not have a Chapter 78.

Assuming that EPA intended to refer to 25 Pa. Code §78.55, Atlas respectfully notes that under §78.55(d), an operator is only required to submit a copy of a control and disposal plan to the Pennsylvania Department of Environmental Protection (“PaDEP”) “upon request.” To the best of Atlas’s knowledge, information and belief, no such request has been received by Atlas from PaDEP.<sup>1</sup> Accordingly, after April 19, 2011, Atlas has not submitted any modified disposal plans to PaDEP pursuant to 25 Pa. Code §78.55. However, in response to the call by PaDEP Secretary Krancer in his press release issued on April 19, 2011, as of May 19, 2011, Atlas has ceased the use of the 15 “grandfathered” treatment facilities referenced in that press release for the treatment or disposal of Gas Extraction Wastewater from Atlas’s Marcellus Shale Wells.

***f. Describe your use of pits, lagoons, impoundments or other land-based units for the storage or disposal of such Gas Extraction Wastewater associated with your gas extraction activities.***

Notwithstanding the objections set forth in Appendix A, Atlas responds that it does not use pits, lagoons, or impoundments for the disposal of any Gas Extraction Wastewater. With limited exceptions, for Atlas’s Marcellus Shale Wells that have been placed into production, Gas Extraction Wastewater is collected and temporarily held in steel, fiberglass, or plastic tanks prior to the recycling or transport of such material to off-site locations for recycling, treatment or disposal. During the process of drilling, fracing, and flowback immediately following fracing and flowback, Gas Extraction Wastewater may be held in lined pits located at the subject well pad site pending either recycling or transport of such material to off-site locations for recycling, treatment or disposal.

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<sup>1</sup> Atlas would note that PaDEP’s Oil and Gas Operators Manual, Ch. 4, provides that such control and disposal plans may be incorporated into Preparedness, Prevention and Contingency (“PPC”) Plans, which is what Atlas has done.

- g. Provide the latitude and longitude for all pits, lagoons, impoundments or other land based units used for the storage of Gas Extraction Wastewater associated with your gas extraction activities.***

Notwithstanding the objections set forth in Appendix A, **Exhibit 3G** provides a table listing the limited number of Marcellus Shale Well pads that currently use lined pits for the temporary management of Gas Extraction Wastewater. In some cases, the dimensions and capacity of those lined pits were not compiled as of the date of this Response. The latitude and longitude of each separate pit is not available; **Exhibit 3G** provides the latitude and longitude of the well pad on which the respective pits are located. Atlas does not have any centralized wastewater impoundments.

- 4. Identify your intentions for disposal, reuse, treatment, recycling and reclamation of Gas Extraction Wastewater after May 19, 2011, including your expected methods and location for disposal, treatment, or recycling during calendar year 2011. Provide the expected percentage of your Gas Extraction Wastewater by disposal, treatment, or recycling method.***

Notwithstanding the objections set forth in Appendix A, Atlas responds as follows.

For the four Core Counties that are covered under Chevron's services agreement with Atlas, the intention is to be recycling 100% of drilling, flowback, and produced water by the end of 2011 using Chevron's proprietary patent-pending water reuse process. Any water not reused will be disposed in permitted UIC disposal wells in Ohio, including specifically the Hunter Disposal, LLC facility in Dexter City, Ohio (which has two permitted UIC wells).

For the limited number of Atlas Marcellus Shale wells outside of the Core Counties, Atlas intends to utilize the following UIC well facilities:

Resource Energy Services  
1823 State Route 14  
Deerfield, Ohio 44411  
330-654-4343  
Permit # 3413302860 (Viking Resource Corp #1)

Ohio Oil Gathering  
10199 County Road 620  
Killbuck, Ohio 44637  
330-276-5091  
Permit # 34075245270000 (Killbuck Disposal SWIW # 4)

North Star Oilfield Services  
2761 Saltsprings Rd  
Youngstown, Ohio 44509  
330-292-2723  
Permit # 34099231270000 (North Star SWIW # 10)

5. *Submit quarterly reports to EPA on your waste disposal and recycling practices commencing on July 1, 2011 and continuing on a quarterly basis thereafter until June 30, 2012, for a total of four (4) reports. Such quarterly reports shall include the following information for the prior quarter:*
- a. *For each Well, the actual or estimated volume (in gallons) of Gas Extraction Wastewater generated;*
  - b. *For each facility that has received your Gas Extraction Wastewater, including but not limited to, underground injection wells, wastewater treatment plants, and recycling facilities, provide the name and address for each such facility, the name and address of any entity that transported your Gas Extraction Wastewater to each facility, and the volume (in gallons) of such Gas Extraction Wastewater sent to each such facility.*
  - d. *The total volume (in gallons) of Gas Extraction wastewater that you or any third parties treated and recycled or caused to be treated or recycled for all your Well sites;*
  - e. *A description of the method or methods by which you or any third party recyclers recycled such Gas Extraction Wastewater; and*
  - f. *Describe your use of pits, lagoons, impoundments or other land-based units for the storage or disposal of such Gas Extraction Wastewater for your gas extraction activities.*
  - g. *Provide the latitude and longitude for all pits, lagoons, impoundments or other land based units used for the storage of Gas Extraction Wastewater associated with your gas extraction activities.*

See objections set forth in Appendix A. While Atlas is prepared to cooperate with EPA and in good faith respond to reasonable requests for providing information on a periodic basis concerning Gas Extraction Wastewater management activities, a reasonable time must be provided following the close of each reporting period to allow for the collection, review, and collation of the required data. Atlas believes that a period of no less than 60 days following a calendar quarter is required for collection and reporting of the type of data referenced in Request No. 5. Moreover, Atlas would urge that EPA coordinate its reporting requests with the reporting programs and protocols already in place as established by PaDEP, in order to avoid duplication and undue burdens.

6. *Identify any and all discharges or releases of any substances, wastes, and/or Gas Extraction Wastewater from facilities that contain Wells that you own or operate and all media (air, water, or land) that were affected by such discharges or releases and the estimated quantities of all substances discharged or released for the past five (5) years.*

Notwithstanding the objections set forth in Appendix A, for purposes of this response, Atlas is identifying incidents that have occurred at the Atlas Marcellus Shale Wells sites listed in **Exhibit**

**1** that involved the spill or release of hazardous substances or fluids beyond containment. A list of such incidents is provided in **Exhibit 6**, which briefly describes the location of the incident, the material involved, whether land, surface water, groundwater or air was impacted, and the corrective measures taken. Because of the extremely short period provided for response to this Information Request, it was not possible to check the accuracy and completeness of the information in the table provided in **Exhibit 6**, and Atlas reserves the right to supplement, revise, and correct such information. The inclusion of an incident in this listing should not be interpreted to indicate occurrence of a release of a reportable quantity (as that term is defined under CERCLA, the CWA, or other environmental laws), or the occurrence of any point source discharge of pollutants to waters of the United States. As a general matter, the quantities of material involved were small, the incident was expeditiously corrected, and discharges to waters of the United States were not evidenced.

## APPENDIX A

### Objections

General Objection No. 1: Atlas objects to the EPA Information Request to the extent that it exceeds the authority granted to the U.S. Environmental Protection Agency under Section 104(e) of the Comprehensive Environmental Response, Compensation and Liability Act (“CERCLA”), 42 U.S.C. §9604(e); Section 308 of the Federal Clean Water Act (“CWA”), 33 U.S.C. §1318; and Section 3007(a) of the Resource Conservation and Recovery Act (“RCRA”), 42 U.S.C. §6927(a).

As provided in Section 104(e)(1) of CERCLA, 42 U.S.C. §9604(e)(1), the “authority of this subsection [Section 104(e)] may be exercised *only* for the purposes of determining the need for response, or choosing or taking any response action *under this subchapter*, or otherwise *enforcing the provisions of this subchapter*.” Since Section 104(e) may only be invoked for these purposes, a necessary predicate for the invocation of Section 104(e) information request authority is that there be a release or threatened release of hazardous substances,<sup>2</sup> or pollutants or contaminants that present an imminent and substantial danger to public health or welfare, subject to CERCLA enforcement authority. EPA’s broadside information request, which purports to seek information concerning all “Wells that you own or operate in EPA Region III” (irrespective of whether there has been any release or threatened release of hazardous substances, or of pollutants or contaminants that present an imminent and substantial danger, at such facilities), exceeds the agency’s CERCLA Section 104(e) authority. Moreover, the “subchapter” referred to in §104(e)(1) is Subchapter 1 of 42 U.S.C. Chapter 103, comprising 42 U.S.C. §§9601-9628, relating to the response to releases and threatened releases. Section 104(e) does not authorize use of the information request procedures contained in Section 104(e)(2) for other purposes, such as investigating potential compliance with other federal, state or local environmental laws or regulations.

Section 308 of the CWA only authorizes a request for certain information directed to the “owner or operator of *any point source* ....” 33 U.S.C. §1318(a)(A) (emphasis added). The EPA Information Request does not contain any claim or evidence that the Wells owned or operated by Atlas are a “point source” subject to regulation under the CWA. It is specifically noted that, with limited exceptions (none of which Atlas believes are applicable here), Section 402(l)(2) exempts from regulation under the CWA discharges of stormwater from oil and gas exploration, production, processing, or treatment operations or transmission facilities. Absent evidence that specific Well facilities are point sources within the meaning of the CWA, Section 308 of the CWA does not authorize the EPA Information Request.

Section 3007 of RCRA only authorizes a request for information directed to a person “who generates, stores, treats, transports, disposes of, or ... handles ... *hazardous waste*” for purposes

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<sup>2</sup> It should be noted that the term “hazardous substance” is defined under CERCLA to exclude petroleum, including crude oil and any fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance under 42 U.S.C. §9601(15)(A)-(F), and to all natural gas and natural gas liquids. 42 U.S.C. §9601(14).

of developing or assisting in the development of a regulation or enforcing the provisions of 42 U.S.C. Ch. 82 (§§6901-6992k). 42 U.S.C. §6927(a) (emphasis added). As part of the Beville Amendments to RCRA, Section 3001(b)(2)(A) provides that “drilling fluids, produced waters, and other wastes associated with the exploration, development, or production of crude oil or natural gas ... shall be subject only to existing State and Federal regulatory programs in lieu of [regulation under Subch. C of RCRA]” until certain findings are made and regulations are adopted. EPA has reexamined this exemption and concluded that waste produced in connection with natural gas exploration, development and production should continue to be exempt from regulation as hazards were under RCRA. 53 Fed. Reg. 25,226 (July 6, 1988). To the extent that EPA’s request seeks information regarding waste that is not subject to regulation as a hazardous waste under RCRA, RCRA §3007 does not authorize the EPA Information Request.

General Objection No. 2: Atlas objects to the EPA Information Request to the extent that it seeks information not relevant to the purposes stated in the U.S. EPA’s letter dated May 12, 2011, CERCLA Section 104(e), CWA Section 308 and RCRA Section 3007.

General Objection No. 3: Atlas objects to the EPA Information Request as having been improperly addressed and served. EPA addressed the Information Request to Atlas at the following address: 1550 Coraopolis Heights Road, Suite 300, Moon Township, PA 15108. By letter addressed to EPA dated March 2, 2011, from Atlas’s counsel, R. Timothy Weston of K&L Gates LLP, EPA was advised in writing that effective February 17, 2011, Atlas Energy Inc. was acquired by and merged into an indirect wholly-owned subsidiary of Chevron Corporation; but that Atlas Resources, LLC was not acquired by Chevron, and that all future correspondence relating to Atlas Resources, LLC should be directed as follows:

Atlas Resources, LLC  
Atlas Energy, L.P.  
Attn: Lisa Washington, Chief Legal Officer  
1845 Walnut Street, 10th Floor  
Philadelphia, PA 19103

As a result of EPA’s failure to properly address and timely deliver the EPA Information Request to Atlas, Atlas has been severely constrained in its ability to respond within the incredibly short timeframe available from the date of receipt of EPA’s letter and the May 25, 2011 deadline.

General Objection No. 4: Atlas objects to the EPA Information Request as unreasonable to the extent that it purports to establish an unreasonably short timeframe for response. Had the EPA Information Request been properly addressed and delivered, it would have provided at best 9 business days between receipt and the specified response date of May 25, 2011. As noted in General Objection No. 3, that timeframe was further constrained by EPA’s failure to properly address and timely deliver the Information Request to Atlas at Atlas’s offices. The Information Request purports to demand a series of compilations of data, covering hundreds of Wells, in most cases in a format that such data is not kept in the ordinary course. Further, the Information Request purports to demand the instantaneous, complete and accurate compilation of data “to present,” where much of such data is not available on an instantaneous or real time basis, but must be compiled from transport tickets, invoices, and other reports from field operations and

contractors that in the ordinary course would be expected to be collected, collated and compiled over some number of weeks.

General Objection No. 5: Atlas objects to the EPA Information Request as overly broad, unreasonable in scope, and unduly burdensome.

Objection to Request No. 1: In addition to the General Objections set forth above, Atlas objects to Request No. 1 to the extent that it incorporates an overly-broad definition of “Well” as encompassing “any well owned or operated by you and used for or related to natural gas production in EPA Region III.” Such vague and overly-broad definition could include literally thousands of natural gas exploration and production wells that have nothing to do with the purported purpose of the Information Request – *e.g.*, that have nothing to do with “Information on Marcellus Shale Flowback Water.” Atlas acknowledges, and has relied upon, an oral clarification received from EPA’s counsel that the term Well is to be interpreted as limited to Wells that have been permitted by a state agency for the exploration and production of natural gas from the Marcellus Shale formation.

Objection to Request Nos. 3.f and No. 3.g: In addition to the General Objections set forth above, Atlas objects to Requests No. 3.f and 3.g because they contain an undefined and ambiguous term, “other land-based unit.”

Objection to Request No. 4: In addition to the General Objections set forth above, Atlas objects to Request No. 4 to the extent that it requests information regarding future plans and actions. EPA’s information request authorities under CERCLA Section 104(e), CWA Section 308, and RCRA Section 3007 are, by their language, limited to past or current conditions or activities, and do not authorize a request for information with respect to potential future activities or plans.

Objection to Request No. 5: In addition to the General Objections set forth above, Atlas objects to Request No. 5 as vague, unreasonable and unduly burdensome as stated. First, the request fails to define the term “quarter” and what the start and end dates are of a quarter. To the extent that EPA is intending to refer to calendar quarters, then it is impossible to comply with Request No. 5 as stated, in that the request would appear to require submission of data regarding wastewater management in the calendar quarter as of the first day after the end of the quarter (*i.e.*, that the data for April-June 2011 be submitted on July 1, 2011), providing no time for the collection, verification, and collation of that information in a form that is responsive to EPA’s request. Every other governmental reporting requirement of this type is framed with an appropriate timeframe following the end of the covered reporting period in which to collect and collate the data into reportable form; and the failure by EPA to provide such a reasonable timeframe is arbitrary, capricious and unreasonable.

Objection to Request No. 6: In addition to the General Objections set forth above, Atlas objects to Request No. 6 as vague, overbroad in scope, unauthorized by law, and unduly burdensome. The request uses a series of undefined and ambiguous terms, such as “discharge”, “release”, “any substances”, and “all media.” Literally written, it might be read to require the disclosure of the release of anything (*e.g.*, fresh water, stormwater runoff), anywhere (*e.g.*, steam and water evaporation), for the last five years. In referring to “any substances,” Request No. 6 grossly exceeds the authority of EPA under CERCLA, the CWA and RCRA, which respectively refer



only to hazardous substances, pollutants, and hazardous waste. As such, Request No. 6 is beyond the scope of EPA's authority to seek information related to the actual and/or threatened release of hazardous substances or the release of contaminants or pollutants that may pose an imminent hazard, information related to point sources, or information related to hazardous waste activities.

### CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted on pages 1 through 11 of the attached Response to EPA Information Request Dated May 12, 2011 Concerning Marcellus Shale Flowback Water, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate and complete to the extent that such information is available to Atlas Resources, LLC as of the date of this Response.

For Atlas Resources, LLC

A handwritten signature in blue ink, appearing to read "Jeffrey C. Simmons", is written over a horizontal line.

Jeffrey C. Simmons  
Executive Vice President, Operations  
Atlas Resources, LLC

Date Signed: May 25, 2011

# Atlas Exhibit 1 - redacted

Well#	Well Name	State#	State	State Name	County
23707	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37129
23649	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37129
23704	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37129
23938	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37129
25901	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37125
22971	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37129
23142	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
23363	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
22536	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
22666	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37051
24403	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37051
24405	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37051
22056	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
22058	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
22063	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
23361	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
23544	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
24048	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
25370	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37051
23694	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
23246	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
23387	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
23937	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37129
24074	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37051
24301	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37051
23676	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
23675	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
22705	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
22777	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
22974	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
22785	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
25037	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
22701	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
21729	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37051
24075	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37051
24157	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37051
24302	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37051
25213	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37129
25583	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
25584	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
24079	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37051
23982	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37051
22831	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37051
21561	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
26018	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37059
24408	XXX-REDACTED-XXX	37	PA	PENNSYLVANIA	37051

County Name	Township	Township Name	Drilling Status	Formation
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712501	AMWELL	FRACED	MARCELLUS - HORIZONTAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705112	NICHOLSON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705112	NICHOLSON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705112	NICHOLSON	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705106	GERMAN	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705122	WASHINGTON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705122	WASHINGTON	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705910	MONONGAHELA	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705910	MONONGAHELA	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705910	MONONGAHELA	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705919	GREENE	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705122	WASHINGTON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705122	WASHINGTON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705122	WASHINGTON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705122	WASHINGTON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712907	SALEM	SHUT-IN	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - HORIZONTAL
FAYETTE	3705106	GERMAN	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705115	REDSTONE	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705103	DUNBAR	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705919	GREENE	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705115	REDSTONE	PRODUCING	MARCELLUS - VERTICAL



Operator#	API Permit	1st Prod date	Latitude	Longitude	Company#	Partnership#
	0 37129274880000	20080718	40.2493900	-79.745090	926	100941
	0 37129271690000	20080121	40.2336100	-79.757060	926	100942
	0 37129272410000	20080616	40.2462300	-79.748270	926	100941
	0 37129280120000	20100330	40.2171400	-79.703320	926	100938
	0 37-125-23950	0			926	100938
	0 37129270890000	20080113	40.2476900	-79.760930	926	100942
	0 37059243630000	20080515	39.9374500	-79.962340	926	100942
	0 37059244690000	20080822	39.8793000	-79.984090	926	100941
	0 37059249370000	20090412	39.8834600	-79.982240	926	100940
	0 37051236070000	20070729	39.7997200	-79.868580	926	100944
	0 37051242720000	20100310	39.8271760	-79.910368	926	100938
	0 37051242090000	20090806	39.7997300	-79.891570	926	100939
	0 37059243380000	20071209	39.9125800	-79.962070	926	100944
	0 37059243530000	20080413	39.9109900	-79.958720	926	100942
	0 37059243420000	20080313	39.9034900	-79.960400	926	100942
	0 37059244820000	20080519	39.9097600	-79.968760	926	100942
	0 37059244830000	20080815	39.9023300	-79.955910	926	100941
	0 37059248020000	20081115	39.9242700	-79.967150	926	100941
	0 37051241900000	20090720	39.9255700	-79.859250	926	100939
	0 37059246860000	20090110	39.9332300	-79.968990	926	100941
	0 37059245840200	20080502	39.8692100	-79.985180	926	100942
	0 37059245770000	20080509	39.8650700	-79.983890	926	100942
	0 37129272790000	20080606	40.2008600	-79.730420	926	100941
	0 37051239770000	20080721	40.1203100	-79.802220	926	100941
	0 37051239830000	20090508	40.1235100	-79.805250	926	100940
	0 37059248300000	20081215	39.9058800	-79.996600	926	100940
	0 37059248290000	20081227	39.9064600	-79.990160	926	100941
	0 37059244280000	20081222	39.8585600	-79.997600	926	100941
	0 37059246060000	20080614	39.8520400	-79.968600	926	100941
	0 37059244760000	20090214	39.8421900	-79.975860	926	100941
	0 37059246120000	20080622	39.8371900	-79.971220	926	100941
	0 37059252440000	20101002	39.8300500	-80.007800	926	100938
	0 37059244240000	20080617	39.8570100	-79.986970	926	100941
	0 37051241890000	20091107	40.0847500	-79.812130	926	100939
	0 37051239760000	20080717	40.1195600	-79.815710	926	100941
	0 37051239750000	20081018	40.1170400	-79.821810	926	100941
	0 37051239850000	20081031	40.1151900	-79.817580	926	100941
	0 37129279430000	20091108	40.3796600	-79.471990	926	100939
	0 37059252230000	20091211	39.9135300	-80.001070	926	100939
	0 37059252270000	20091210	39.9134900	-80.001070	926	100939
	0 37051240800000	20090423	39.9134000	-79.860080	926	100940
	0 37051239680000	20080704	39.9308700	-79.872950	926	100941
	0 37051242200000	20100528	40.0109660	-79.632057	926	100938
	0 37059243350000	20071026	39.7252800	-80.011030	926	100944
	0 37059253850000	20101006	39.8188370	-79.976685	926	100938
	0 37051241870000	20090712	39.9887300	-79.854150	926	100939

22794	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23432	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23614	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
25857	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24893	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
24894	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
24860	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
24861	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
24862	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
25005	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
24863	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
23300	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
23371	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
23221	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
23223	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
23225	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
23226	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
23228	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
24857	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
25119	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
25166	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
24690	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24691	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
23942	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
23943	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
23944	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
25079	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
22905	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
23639	FAIRBANK ROD & GUN CLUB #3	37 PA	PENNSYLVANIA	37051
23642	FAIRBANK ROD & GUN CLUN #6	37 PA	PENNSYLVANIA	37051
25267	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
26229	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25870	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25915	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
21947	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
21956	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
25727	GAME LANDS #2	37 PA	PENNSYLVANIA	37059
25726	GAME LANDS UT #1	37 PA	PENNSYLVANIA	37059
24046	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
25145	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
22970	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
22812	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24496	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
30304	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37031
23362	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23617	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24078	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051

GREENE	3705910	MONONGAHELA	FRACED	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705910	MONONGAHELA	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712519	HOPEWELL	PRODUCING	MARCELLUS - HORIZONTAL
WASHINGTON	3712519	HOPEWELL	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712519	HOPEWELL	PRODUCING	MARCELLUS - HORIZONTAL
WASHINGTON	3712519	HOPEWELL	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712519	HOPEWELL	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712519	HOPEWELL	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712519	HOPEWELL	SHUT-IN	MARCELLUS - VERTICAL
WASHINGTON	3712512	CROSS CREEK	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712512	CROSS CREEK	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712512	CROSS CREEK	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712512	CROSS CREEK	PRODUCING	MARCELLUS - HORIZONTAL
WASHINGTON	3712512	CROSS CREEK	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712512	CROSS CREEK	SHUT-IN	MARCELLUS - VERTICAL
WASHINGTON	3712512	CROSS CREEK	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712519	HOPEWELL	PRODUCING	MARCELLUS - HORIZONTAL
WASHINGTON	3712512	CROSS CREEK	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712519	HOPEWELL	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705115	REDSTONE	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705115	REDSTONE	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712513	DEEMSTON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705111	MENALLEN	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705111	MENALLEN	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705119	SPRINGHILL	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705103	DUNBAR	PRODUCING	MARCELLUS - HORIZONTAL
FAYETTE	3705112	NICHOLSON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712908	ROSTRAVER	FRACED	MARCELLUS - HORIZONTAL
WESTMORELAND	3712906	SEWICKLEY	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712906	SEWICKLEY	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705112	NICHOLSON	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705910	MONONGAHELA	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	FRACED	MARCELLUS - VERTICAL
WESTMORELAND	3712906	SEWICKLEY	PRODUCING	MARCELLUS - VERTICAL
CLARION	3703108	KNOX	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705106	GERMAN	PRODUCING	MARCELLUS - VERTICAL



0 37059252740000	0	39.8251840	-79.954947	926	100938
0 37059249030000	20090717	39.9385000	-79.967040	926	100939
0 37059251370000	20090710	39.9453300	-79.980710	926	100939
0 37059253340000	20100311	39.8308213	-79.983257	926	100938
0 37125233920000	20100329	40.2366000	-80.412180	926	100940
0 37125233840000	20090510	40.2342400	-80.417850	926	100940
0 37125233930000	20090502	40.2341600	-80.417890	926	100940
0 37125233850000	20091210	40.2292200	-80.416390	926	100940
0 37125233940000	20090511	40.2342200	-80.417850	926	100940
0 37125233950000	20091115	40.2365700	-80.411930	926	100940
0 37125233860000	20100312	40.2380300	-80.405990	926	100940
0 37125231610000	20091112	40.2804700	-80.361400	926	100940
0 37125235370000	20091203	40.2811300	-80.366160	926	100940
0 37125229570000	20090306	40.2721300	-80.384390	926	100941
0 37125234290000	20090305	40.2689700	-80.390660	926	100940
0 37125230700000	20090404	40.2703900	-80.398370	926	100940
0 37125229600000	20090306	40.2747300	-80.391490	926	100941
0 37125229610000	20090328	40.2700600	-80.402280	926	100941
0 37125233900000	20091115	40.2366300	-80.412080	926	100939
0 37125233760000	20091125	40.2694100	-80.385220	926	100940
0 37125235150000	20091111	40.2691300	-80.390700	926	100940
0 37051241520000	20090809	39.9912600	-79.801560	926	100939
0 37051241530000	20091123	39.9910000	-79.807310	926	100938
0 37129272800000	20080513	40.1943000	-79.720790	926	100942
0 37129272810000	20080428	40.1927400	-79.716960	926	100942
0 37129272820000	20080505	40.1923000	-79.712980	926	100942
0 37125237790000	20100508	40.0346200	-80.051790	926	100939
0 37129271650000	20080517	40.1874300	-79.747780	926	100942
0 37051242380000	20100309	39.9402100	-79.835760	926	100938
0 37051242390000	20100118	39.9352900	-79.842090	926	100938
0 37051242670000	20091215	39.7486500	-79.845190	926	100938
0 37051243750000	20110114	+39.966953	-79.691506	926	100918
0 37-051-24262	20100123	39.836806	-79.876293	926	100938
0 37129282950000	0	40.1547357	-79.749709	926	100938
0 37129268830000	20080327	40.2245000	-79.713310	926	100942
0 37129268820000	20080405	40.2224400	-79.710370	926	100942
0 37059253380000	20100608	39.7691400	-80.005469	926	100938
0 37059253370000	20100706	39.7719950	-80.005850	926	100938
0 37059246500000	20080907	39.9285400	-79.972070	926	100941
0 37051242120000	20091213	39.8383400	-79.881240	926	100938
0 37059244420000	20080527	39.8506800	-79.963280	926	100942
0 37059253300000	0	39.9090389	-79.948647	926	100938
0 37129275090000	20081006	40.2265300	-79.693820	926	100941
0 37031248580000	20081112	41.3043968	-79.349110	926	100941
0 37059245590000	20080523	39.8858500	-80.007620	926	100942
0 37059251600000	20090824	39.8816300	-80.004220	926	100939
0 37051240230000	20080922	39.9299800	-79.857390	926	100941

25282	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
25528	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
23672	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
21969	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
25060	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
25884	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23338	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23339	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24492	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24493	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24494	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24035	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24695	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
22968	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
23647	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
30418	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37063
22460	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
22462	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
24360	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
24310	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24311	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24312	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24994	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24308	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25925	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
23526	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23240	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23241	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24972	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24973	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24974	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23078	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25106	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
25107	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
23865	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23925	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25674	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
23106	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24043	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24254	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25616	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25605	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24937	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24077	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
23652	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
23653	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
24224	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129

WASHINGTON	3712535	WEST BETHLEHEM	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712535	WEST BETHLEHEM	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705919	GREENE	FRACED	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705106	GERMAN	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705106	GERMAN	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705106	GERMAN	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705108	JEFFERSON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705108	JEFFERSON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
INDIANA	3706322	WEST WHEATFIELD	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705115	REDSTONE	PRODUCING	MARCELLUS - HORIZONTAL
FAYETTE	3705115	REDSTONE	PRODUCING	MARCELLUS - HORIZONTAL
FAYETTE	3705115	REDSTONE	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705115	REDSTONE	PRODUCING	MARCELLUS - HORIZONTAL
FAYETTE	3705115	REDSTONE	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712906	SEWICKLEY	FRACED	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705106	GERMAN	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712907	SALEM	PRODUCING	MARCELLUS - HORIZONTAL
WESTMORELAND	3712907	SALEM	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705115	REDSTONE	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705106	GERMAN	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705106	GERMAN	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705910	MONONGAHELA	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705106	GERMAN	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705106	GERMAN	PRODUCING	MARCELLUS - HORIZONTAL
GREENE	3705910	MONONGAHELA	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705112	NICHOLSON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705106	GERMAN	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712906	SEWICKLEY	SHUT-IN	MARCELLUS - VERTICAL
WESTMORELAND	3712906	SEWICKLEY	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL



0 37125238060000	20100517	40.0160890	-80.073650	926	100938
0 37125237750000	20100111	40.0312900	-80.068460	926	100939
0 37059252840000	20091005	39.9191400	-79.977470	926	100939
0 37059240360000	20070326	39.9089800	-79.952140	926	100945
0 37059253410000	20100615	39.9137440	-79.952376	926	100938
0 37059253730000	0	39.8151423	-80.038540	926	100938
0 37059244730000	20081027	39.7364400	-80.008630	926	100941
0 37059244840000	20080504	39.7324700	-80.013420	926	100942
0 37051240530000	20090308	39.8453800	-79.886240	926	100940
0 37051240540000	20090427	39.8456500	-79.881150	926	100940
0 37051240550000	20090511	39.8497000	-79.886800	926	100940
0 37051241550000	20090613	40.0426800	-79.812490	926	100940
0 37051241540000	20090619	40.0388900	-79.811260	926	100940
0 37129269580000	20070819	40.2460200	-79.756160	926	100944
0 37129272000000	20080208	40.2423700	-79.754800	926	100942
0 37063363740000	20101022	40.4337030	-79.076238	926	100938
0 37129268360000	20080226	40.2113000	-79.712090	926	100942
0 37129268380000	20080324	40.2095100	-79.708900	926	100942
0 37129275030000	20081013	40.2113700	-79.703070	926	100941
0 37051242350000	20100522	39.9643968	-79.823903	926	100938
0 37051242340000	20100620	39.9643502	-79.823843	926	100938
0 37051242330000	20100523	39.9643700	-79.823880	926	100938
0 37051242280000	20091018	39.9686900	-79.834220	926	100939
0 37051242270000	20091122	39.9686900	-79.834220	926	100939
0 37-129-28252	0			926	100938
0 37059248510000	20090112	39.9408100	-79.955980	926	100941
0 37059252250000	20100124	39.7750479	-80.000480	926	100938
0 37059252260000	20091016	39.7740100	-79.996730	926	100939
0 37059250320000	20090329	39.7385700	-79.963630	926	100940
0 37059250310000	20090322	39.7333200	-79.966060	926	100940
0 37059252450000	20100609	39.7326100	-79.957800	926	100938
0 37051241950000	20090727	39.9044700	-79.821470	926	100939
0 37129279640000	20100301	40.3844360	-79.501041	926	100938
0 37129279420000	20100304	40.3844900	-79.501040	926	100938
0 37059249050000	20090215	39.9140000	-79.937460	926	100940
0 37051239610000	20080630	39.9414700	-79.863920	926	100941
0 37051242580000	20100219	39.8483800	-79.878790	926	100939
0 37051237180000	20080222	39.8636600	-79.830350	926	100942
0 37059251590000	20100322	39.8602650	-79.977291	926	100938
0 37051242260000	20090928	39.9193800	-79.846800	926	100939
0 37051242250000	20090924	39.9193839	-79.846774	926	100939
0 37059251850000	20100623	39.8232840	-79.974531	926	100938
0 37051242100000	20090816	39.7940000	-79.843760	926	100939
0 37051240580000	20090621	39.9225300	-79.885760	926	100940
0 37129275060000	20081003	40.2332500	-79.732910	926	100941
0 37129275070000	20080926	40.2386900	-79.733550	926	100941
0 37129274320000	20080808	40.1881200	-79.736830	926	100941

24189	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
24838	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
20438	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
23391	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
25758	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
24155	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
22699	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
30092	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37083
23934	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
23122	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
23273	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23274	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23275	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23276	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23306	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23308	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23309	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23310	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
25650	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
25651	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
21795	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
30425	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37063
25769	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
21543	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
25853	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24045	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
22816	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24040	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23979	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24036	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
21230	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
21231	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
23887	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24173	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
22827	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
23382	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23383	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23384	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24174	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
24175	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
24083	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24834	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
30424	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37063
25742	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37063
22132	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24824	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25027	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051

WESTMORELAND	3712906	SEWICKLEY	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705115	REDSTONE	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705115	REDSTONE	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712908	ROSTRAVER	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705909	JEFFERSON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712906	SEWICKLEY	PRODUCING	MARCELLUS - VERTICAL
MCKEAN	3708306	CORYDON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705103	DUNBAR	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
INDIANA	3706322	WEST WHEATFIELD	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705119	SPRINGHILL	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705904	DUNKARD	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705909	JEFFERSON	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705909	JEFFERSON	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705909	JEFFERSON	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705909	JEFFERSON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705122	WASHINGTON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705122	WASHINGTON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705122	WASHINGTON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705122	WASHINGTON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705122	WASHINGTON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705103	DUNBAR	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705106	GERMAN	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705109	LOWER TYRONE	FRACED	MARCELLUS - VERTICAL
INDIANA	3706322	WEST WHEATFIELD	PRODUCING	MARCELLUS - VERTICAL
INDIANA	3706322	WEST WHEATFIELD	PRODUCING	MARCELLUS - HORIZONTAL
GREENE	3705919	GREENE	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705110	LUZERNE	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705122	WASHINGTON	PRODUCING	MARCELLUS - VERTICAL



0 37129274970000	20081020	40.2279800	-79.704430	926	100941
0 37051242060000	20090725	40.0079500	-79.805890	926	100939
0 37051239900000	20080801	39.9985400	-79.807410	926	100941
0 37059246200000	20080702	39.7218600	-79.961950	926	100942
0 37129281130000	20100316	40.1287301	-79.778033	926	100938
0 37059247010000	20080902	39.9340100	-80.029810	926	100941
0 37129268700000	20080403	40.2279300	-79.712990	926	100942
0 37-083-53293	20080110			926	100944
0 37129272770000	20080530	40.2026200	-79.741550	926	100941
0 37051237270000	20080403	39.9719600	-79.654790	926	100942
0 37059243840000	20071126	39.7264200	-79.990620	926	100944
0 37059243850000	20070927	39.7243500	-79.987790	926	100944
0 37059243860000	20071012	39.7259300	-79.997460	926	100944
0 37-059-24387	20080409	39.723850	-79.994620	926	100942
0 37059244580000	20071114	39.7328600	-80.002450	926	100944
0 37059244920000	20080201	39.7271500	-79.981280	926	100942
0 37059244800000	20080303	39.7219800	-79.981310	926	100942
0 37059246420000	20080523	39.7337200	-79.987650	926	100942
0 37129279880000	20090913	40.1849600	-79.726740	926	100939
0 37129279890000	20091224	40.1792500	-79.722950	926	100938
0 37059249040000	20090517	39.8700000	-79.951710	926	100940
0 37063366270000	20100914	40.4335240	-79.070870	926	100938
0 37-051-24266	20100607			926	100938
0 37059243230000	20070913	39.7268000	-80.015650	926	100944
0 37059253620000	20100416	39.9289940	-80.020496	926	100938
0 37059248280000	20080919	39.9270000	-80.009620	926	100941
0 37059248260000	20080929	39.9334400	-80.004270	926	100941
0 37059248270000	20090131	39.9293900	-80.005040	926	100941
0 37051239840000	20081122	40.0959100	-79.806980	926	100941
0 37051241940000	20090801	40.0914600	-79.811360	926	100939
0 37051234520100	20070302	40.1155000	-79.795960	926	100945
0 37051235730000	20080107	40.1157200	-79.799610	926	100942
0 37051239400000	20080728	40.1115700	-79.795510	926	100941
0 37129273940000	20080711	40.1824400	-79.743020	926	100941
0 37051237540000	20080327	40.0094480	-79.628728	926	100942
0 37059245540000	20090221	39.8793000	-79.970320	926	100940
0 37059246490000	20090418	39.8744800	-79.969960	926	100940
0 37059251140000	20090607	39.8731500	-79.965420	926	100940
0 37129275660000	20090404	40.1771100	-79.738000	926	100940
0 37129275670000	20090410	40.1800000	-79.738080	926	100940
0 37051239600000	20080630	39.9162400	-79.868720	926	100941
0 37051242520000	0	40.0707700	-79.628110	926	100938
0 37063367370000	20100807	40.4454320	-79.077528	926	100938
0 37-063-36738	20100803			926	100938
0 37059242290000	20070808	39.8021200	-80.005140	926	100944
0 37051241250000	20090605	39.9732100	-79.992780	926	100940
0 37051242310000	20090823	40.0825800	-79.834670	926	100939



24823	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25026	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
21626	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
23184	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
25235	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24295	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
25304	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
23700	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
23741	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37125
24463	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
23650	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
24756	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
24895	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
25996	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25880	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25881	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
22850	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
23165	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
23166	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25680	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25681	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25682	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
26016	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
26017	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
26474	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
26475	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
26476	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
22423	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
23467	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
25759	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
25760	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
23852	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24557	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
24152	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24153	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24154	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
22847	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
25887	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
23981	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24327	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
26441	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
26442	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
26478	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24430	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
20773	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25389	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
24047	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059

FAYETTE	3705110	LUZERNE	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705122	WASHINGTON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705119	SPRINGHILL	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712529	ROBINSON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705119	SPRINGHILL	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712906	SEWICKLEY	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712906	SEWICKLEY	PRODUCING	MARCELLUS - VERTICAL
WASHINGTON	3712513	DEEMSTON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712906	SEWICKLEY	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712906	SEWICKLEY	PRODUCING	MARCELLUS - HORIZONTAL
WESTMORELAND	3712906	SEWICKLEY	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705104	FRANKLIN	FRACED	MARCELLUS - VERTICAL
FAYETTE	3705124	BROWNSVILLE	FRACED	MARCELLUS - VERTICAL
FAYETTE	3705124	BROWNSVILLE	FRACED	MARCELLUS - HORIZONTAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705115	REDSTONE	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705115	REDSTONE	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705115	REDSTONE	SPUD	MARCELLUS - HORIZONTAL
FAYETTE	3705115	REDSTONE	SPUD	MARCELLUS - HORIZONTAL
FAYETTE	3705115	REDSTONE	SPUD	MARCELLUS - HORIZONTAL
FAYETTE	3705115	REDSTONE	SPUD	MARCELLUS - HORIZONTAL
FAYETTE	3705115	REDSTONE	SPUD	MARCELLUS - HORIZONTAL
FAYETTE	3705115	REDSTONE	SPUD	MARCELLUS - HORIZONTAL
FAYETTE	3705115	REDSTONE	TOTAL DEPTH	MARCELLUS - HORIZONTAL
FAYETTE	3705115	REDSTONE	SPUD	MARCELLUS - HORIZONTAL
FAYETTE	3705115	REDSTONE	SPUD	MARCELLUS - HORIZONTAL
WESTMORELAND	3712907	SALEM	SHUT-IN	MARCELLUS - VERTICAL
WESTMORELAND	3712908	ROSTRAVER	FRACED	MARCELLUS - VERTICAL
WESTMORELAND	3712908	ROSTRAVER	FRACED	MARCELLUS - HORIZONTAL
WESTMORELAND	3712908	ROSTRAVER	FRACED	MARCELLUS - HORIZONTAL
FAYETTE	3705127	HENRY CLAY	SHUT-IN	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705909	JEFFERSON	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705909	JEFFERSON	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705909	JEFFERSON	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705104	FRANKLIN	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705115	REDSTONE	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705106	GERMAN	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705111	MENALLEN	SPUD	MARCELLUS - HORIZONTAL
FAYETTE	3705111	MENALLEN	SPUD	MARCELLUS - HORIZONTAL
FAYETTE	3705111	MENALLEN	SPUD	MARCELLUS - HORIZONTAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705112	NICHOLSON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712906	SEWICKLEY	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL

0 37051241240000	20090814	39.9760300	-79.997020	926	100939
0 37-051-24249	20100331	40.085971	-79.836713	926	100938
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0 37059253140000	20091221	39.8978100	-80.029120	926	100938
0 37129280840000	20100322	40.2844428	-79.702157	926	100938
0 37129274310000	20080627	40.2378100	-79.747230	926	100941
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0 37129279820000	20100126	40.2297100	-79.735340	926	100939
0 37129279830000	20100127	40.2297100	-79.735380	926	100939
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0 37051243430000	0	+39.954358	-79.849431	926	100918
0 37051243420000	0	+39.954400	-79.849431	926	100918
0 37051243410000	0	+39.954442	-79.849433	926	100918
0 37051243400000	0	+39.954275	-79.849428	926	100918
0 37051243880000	0	+39.954483	-79.849433	926	100918
0 37051243890000	0	+39.954236	-79.849425	926	100918
0 37051243900000	0	+39.954194	-79.849425	926	100918
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0 37059251620000	20100209	39.9445340	-80.031422	926	100938
0 37059243940000	20080531	39.9064000	-79.945500	926	100942
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0 37051244170000	0			926	100918
0 37051244180000	0			926	100918
0 37059251610000	20091227	39.8684900	-79.993180	926	100938
0 37051234640000	20070630	39.7815100	-79.860390	926	100944
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0 37059251550000	20090719	39.9280000	-79.962550	926	100939



23618	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23359	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23528	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23530	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
22270	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
23673	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24739	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
24740	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37059
26048	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
24410	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
23267	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
25247	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
24177	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37129
24507	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051
22153	XXX-REDACTED-XXX	37 PA	PENNSYLVANIA	37051

GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705903	CUMBERLAND	PRODUCING	MARCELLUS - VERTICAL
GREENE	3705909	JEFFERSON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - HORIZONTAL
FAYETTE	3705119	SPRINGHILL	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705112	NICHOLSON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705112	NICHOLSON	PRODUCING	MARCELLUS - VERTICAL
WESTMORELAND	3712905	SOUTH HUNTINGDON	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705113	NORTH UNION	PRODUCING	MARCELLUS - VERTICAL
FAYETTE	3705119	SPRINGHILL	PRODUCING	MARCELLUS - VERTICAL

0 37059245580000	20080503	39.8947900	-80.000300	926	100942
0 37059248200000	20090316	39.8912400	-80.005630	926	100940
0 37059246440000	20090227	39.9098800	-80.015230	926	100940
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0 37059250350000	20090614	39.9193500	-80.007850	926	100940
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0 37051239890000	20080827	39.8462900	-79.857840	926	100941
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0 37129275680000	20090629	40.1842200	-79.736580	926	100940
0 37051242000000	20090803	39.9536400	-79.686290	926	100939
0 37051240520000	20090323	39.7478200	-79.878390	926	100940

## **Exhibit 2A**





**Atlas Energy, L.P.**

March 11, 2011

Dear Sir/Madam,

Enclosed you will find Atlas Resources, LLC's 26R reports for 2010. Thank you for the granted submittal extension and also for agreeing upon the format used. Production brine and flow back analysis have previously been provided to the DEP and are still valid for the purpose of this report. For Clarion County brine please reference the Fayette County brine analysis. For Indiana County brine and flow back water please reference Westmoreland County brine and flow back analysis. For the counties of Washington, Westmoreland, Fayette and Greene please reference the appropriate analysis for waste generated in that county. If you have any questions or problems, please contact me at (412) 865-3167. Thank you.

Sincerely,

Christine Walton  
EHS Director  
Atlas Energy, LP  
PO Box 611  
Coraopolis, PA 15108

## **Exhibit 2B**

DEPARTMENT OF ENVIRONMENTAL PROTECTION

FORM 26R

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 26R, reference the item number and identify the date prepared. The date on attached sheets needs to match the date noted below.						DEP USE ONLY Date Received & General Notes	
General Reference 287.54							
Date Prepared/Revised							
<b>SECTION A: CLIENT (GENERATOR OF THE WASTE) INFORMATION</b>							
Company Name Atlas Resources, LLC							
If a Subsidiary, Name of Parent Company						EPA Generator ID#	
Company Mailing Address Line 1 800 Mountain View Drive				Company Mailing Address Line 2			
Company Address Last Line - City Smithfield				State PA	Zip+4 15478+8902	Phone 724-564-2360	Ext 137
Company Contact Last Name Butchko		First Name Jenny		MI L		Suffix	
Municipality Georges				County Fayette			
Contact Phone 724-564-2360	Ext 137	Contact Email Address jbutchko@atlasenergy.com					
Is the waste generated at the Company Mailing Address (noted above)?						<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If 'No', describe location of waste generation and storage. See attachment							
Municipality Georges	County Fayette		State PA				
<b>SECTION B: WASTE DESCRIPTION</b>							
Residual Waste Code	Residual Waste Code Description	Amount	Unit of Measure		Time Frame		
802	Brine	See attachment	<input type="checkbox"/> cu yd	<input checked="" type="checkbox"/> gal	2010		
			<input type="checkbox"/> lb	<input type="checkbox"/> ton	<input checked="" type="checkbox"/> One Time		
<b>1. GENERAL PROPERTIES</b>							
a.	pH Range	n/a	to	n/a	(based on analyses or knowledge)		
b.	Physical State	<input checked="" type="checkbox"/> Liquid Waste (EPA Method 9095) <input type="checkbox"/> Solid (EPA Method 9095) <input type="checkbox"/> Gas (ambient temperature & pressure)					
c.	Physical Appearance	Color	Clear	Odor	None		
Number of Solid or Liquid Phases of Separation _____							
Describe each phase of separation _____							
<b>* 2. CHEMICAL ANALYSIS ATTACHMENTS</b>							
a.	The results of a detailed chemical characterization of the waste, as described in the instructions, is attached.					<input type="checkbox"/> Yes	<input type="checkbox"/> No
b.	A detailed description of the waste sampling method is attached.					<input type="checkbox"/> Yes	<input type="checkbox"/> No
c.	The quality assurance/quality control procedures employed by the laboratory(ies) is attached.					<input type="checkbox"/> Yes	<input type="checkbox"/> No
d.	The results of the hazardous waste determination is attached.					<input type="checkbox"/> Yes	<input type="checkbox"/> No
e.	If applicable, a detailed explanation supporting use of generator knowledge in lieu of actual chemical analysis is attached.					<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A

3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS																							
a.	A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																				
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No																				
c.	If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A																				
<b>SECTION C. MANAGEMENT OF RESIDUAL WASTE</b>																							
<b>1. PROCESSING OR DISPOSAL FACILITY(IES)</b>																							
The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.																							
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PAR0000291																						
b.	<table border="0"> <tr> <td>Facility Name</td> <td colspan="3">Advanced Waste Services</td> </tr> <tr> <td>Address Line 1</td> <td colspan="3">1001 Sampson Street</td> </tr> <tr> <td>Address Line 1</td> <td colspan="3"></td> </tr> <tr> <td>Address City State ZIP</td> <td>New Castle</td> <td>PA</td> <td>16101</td> </tr> <tr> <td>Municipality</td> <td>City of New Castle</td> <td>County</td> <td>Lawrence</td> </tr> </table>			Facility Name	Advanced Waste Services			Address Line 1	1001 Sampson Street			Address Line 1				Address City State ZIP	New Castle	PA	16101	Municipality	City of New Castle	County	Lawrence
Facility Name	Advanced Waste Services																						
Address Line 1	1001 Sampson Street																						
Address Line 1																							
Address City State ZIP	New Castle	PA	16101																				
Municipality	City of New Castle	County	Lawrence																				
c.	<table border="0"> <tr> <td>Facility Contact Name</td> <td colspan="3">Anthony Cialella</td> </tr> <tr> <td>Title</td> <td colspan="3">General Manager</td> </tr> <tr> <td>Phone</td> <td>724-657-8777</td> <td>Email Address</td> <td>avialella@advancedwasteservices.com</td> </tr> </table>			Facility Contact Name	Anthony Cialella			Title	General Manager			Phone	724-657-8777	Email Address	avialella@advancedwasteservices.com								
Facility Contact Name	Anthony Cialella																						
Title	General Manager																						
Phone	724-657-8777	Email Address	avialella@advancedwasteservices.com																				
d.	Volume of waste shipped to processing or disposal facility in the previous year. 10366790 <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)																						
a.	Solid waste permit number(s) for processing or disposal facility being utilized. WVR 000521948																						
b.	<table border="0"> <tr> <td>Facility Name</td> <td colspan="3">AOP Clearwater LLC</td> </tr> <tr> <td>Address Line 1</td> <td colspan="3">168 AFR Drive</td> </tr> <tr> <td>Address Line 1</td> <td colspan="3"></td> </tr> <tr> <td>Address City State ZIP</td> <td>Fairmont</td> <td>WV</td> <td>26554</td> </tr> <tr> <td>Municipality</td> <td></td> <td>County</td> <td>Marion</td> </tr> </table>			Facility Name	AOP Clearwater LLC			Address Line 1	168 AFR Drive			Address Line 1				Address City State ZIP	Fairmont	WV	26554	Municipality		County	Marion
Facility Name	AOP Clearwater LLC																						
Address Line 1	168 AFR Drive																						
Address Line 1																							
Address City State ZIP	Fairmont	WV	26554																				
Municipality		County	Marion																				
c.	<table border="0"> <tr> <td>Facility Contact Name</td> <td colspan="3">Bob Gerst</td> </tr> <tr> <td>Title</td> <td colspan="3">State Manager</td> </tr> <tr> <td>Phone</td> <td>304-665-2461</td> <td>Email Address</td> <td>bgerst@wvog'aop.com</td> </tr> </table>			Facility Contact Name	Bob Gerst			Title	State Manager			Phone	304-665-2461	Email Address	bgerst@wvog'aop.com								
Facility Contact Name	Bob Gerst																						
Title	State Manager																						
Phone	304-665-2461	Email Address	bgerst@wvog'aop.com																				
d.	Volume of waste shipped to processing or disposal facility in the previous year. 3167766 <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)																						
<b>2. BENEFICIAL USE</b>																							
a.	Has the waste been approved for beneficial use? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", list the general permit number or approval number.																						
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)																						

## 3. PROCESS DESCRIPTION &amp; SCHEMATIC ATTACHMENTS

- a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☒ Yes ☐ No
- b. A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☐ Yes ☐ No
- c. If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached. ☐ Yes ☐ No ☒ N/A

## SECTION C: MANAGEMENT OF RESIDUAL WASTE

## 1. PROCESSING OR DISPOSAL FACILITY(IES)

The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.

- a. Solid waste permit number(s) for processing or disposal facility being utilized:  
253723
- b. Facility Name: Appalachian Waste Services, LLC  
Address Line 1: 195 Enterprise Lane  
Address Line 1: \_\_\_\_\_  
Address City State ZIP: Connesville PA 15425  
Municipality: Masontown County: Fayette
- c. Facility Contact Name: George Milne  
Title: Supervisor  
Phone: 724-583-2081 Email Address: georgem@shallenbergerconstruction.com

- d. Volume of waste shipped to processing or disposal facility in the previous year.  
263004 ☐ cu yd ☒ gal ☐ lb ☐ ton (check one)

- a. Solid waste permit number(s) for processing or disposal facility being utilized:  
2038
- b. Facility Name: D & L Energy "Parabeck #2 Injection Well"  
Address Line 1: 2761 Salt spring Rd RT 6  
Address Line 1: \_\_\_\_\_  
Address City State ZIP: Youngstown OH 44085  
Municipality: City of Youngstown County: \_\_\_\_\_
- c. Facility Contact Name: Kelly  
Title: Land Dept.  
Phone: 330-792-9524 Email Address: \_\_\_\_\_
- d. Volume of waste shipped to processing or disposal facility in the previous year.  
12180 ☐ cu yd ☒ gal ☐ lb ☐ ton (check one)

## 2. BENEFICIAL USE

- a. Has the waste been approved for beneficial use? ☐ Yes ☐ No  
If "Yes", list the general permit number or approval number.
- b. Volume of waste beneficially used in the previous year.  
☐ cu yd ☐ gal ☐ lb ☐ ton (check one)

3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS			
a.	A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No
c.	If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
SECTION C. MANAGEMENT OF RESIDUAL WASTE			
1. PROCESSING OR DISPOSAL FACILITY(IES)			
The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA0101508		
b.	Facility Name	PA Brine Trt- Franklin Plt	
	Address Line 1	5148 US 322	
	Address Line 1		
	Address City State ZIP	Franklin PA 16323	
	Municipality	Sandy creek County Venango	
c.	Facility Contact Name	Elton DeLong	
	Title	Operations Manager	
	Phone	814-437-3593	Email Address sparky@pabriner.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. 1130220 <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
a.	Solid waste permit number(s) for processing or disposal facility being utilized. SWIW #5 34-121-2-3995		
b.	Facility Name	Hunters	
	Address Line 1	P.O. Box 430	
	Address Line 1		
	Address City State ZIP	Reno OH 45773	
	Municipality	Jackson County Noble	
c.	Facility Contact Name	Kirk Trosclair	
	Title	Senior VP of Equipment	
	Phone	740-379-2940 X160	Email Address ktrosclairmagnumhunterresources.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. 278922 <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
2. BENEFICIAL USE			
a.	Has the waste been approved for beneficial use? If "Yes", list the general permit number or approval number.		<input type="checkbox"/> Yes <input type="checkbox"/> No
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		



3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS			
a.	A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No
c.	If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
SECTION C. MANAGEMENT OF RESIDUAL WASTE			
1. PROCESSING OR DISPOSAL FACILITY(IES)			
The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA 0095273		
b.	Facility Name	PA Brine Trt- Josephine Plt	
	Address Line 1	P.O. Box 296	
	Address Line 1	Bells Mill Rd	
	Address City State ZIP	Josephine PA 15750	
	Municipality	County	
c.	Facility Contact Name	Elton DeLong	
	Title	operations Manager	
	Phone	814-437-3593	Email Address sparky@pabriner.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. 18071802 <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
a.	Solid waste permit number(s) for processing or disposal facility being utilized. 748163		
b.	Facility Name	Patriot	
	Address Line 1	7716 Depot Rd Unit #1	
	Address Line 1		
	Address City State ZIP	Lisbon OH 44432	
	Municipality	City of Warren	County Trumbull
c.	Facility Contact Name	Jeff Faloba	
	Title	CEO	
	Phone	330-222-1274	Email Address jefffaloba@yahoo.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. 10710 <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
2. BENEFICIAL USE			
a.	Has the waste been approved for beneficial use? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", list the general permit number or approval number.		
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		

## 3. PROCESS DESCRIPTION &amp; SCHEMATIC ATTACHMENTS

- a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☒ Yes ☐ No
- b. A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☐ Yes ☐ No
- c. If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached. ☐ Yes ☐ No ☒ N/A

## SECTION C: MANAGEMENT OF RESIDUAL WASTE

## 1. PROCESSING OR DISPOSAL FACILITY(IES)

The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.

- a. Solid waste permit number(s) for processing or disposal facility being utilized.  
PA 0091472.
- b. Facility Name Tunnelton Liquids Company  
Address Line 1 P.O. Box 667  
Address Line 1 \_\_\_\_\_  
Address City State ZIP Clarion PA 16214  
Municipality Clarion Borough County Clarion
- c. Facility Contact Name Paula Wolbort  
Title Accountant  
Phone 814-226-5016 Email Address pwolbort@uschoice.net
- d. Volume of waste shipped to processing or disposal facility in the previous year.  
485562 ☐ cu yd ☒ gal ☐ lb ☐ ton (check one)
- a. Solid waste permit number(s) for processing or disposal facility being utilized.  
101532
- b. Facility Name Weavertown Env. Group  
Address Line 1 3866 Millers Run Rd  
Address Line 1 \_\_\_\_\_  
Address City State ZIP Cecil PA 15057  
Municipality Cecil County Washington
- c. Facility Contact Name Eric Meduho  
Title Facility Manager  
Phone 724-746-4850 Email Address emeduho@weavertown.com
- d. Volume of waste shipped to processing or disposal facility in the previous year.  
3780 ☐ cu yd. ☒ gal ☐ lb ☐ ton (check one)

## 2. BENEFICIAL USE

- a. Has the waste been approved for beneficial use? ☐ Yes ☐ No  
If "Yes", list the general permit number or approval number.
- b. Volume of waste beneficially used in the previous year.  
☐ cu yd ☐ gal ☐ lb ☐ ton (check one)



**3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS**

- a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☒ Yes ☐ No
- b. A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☐ Yes ☐ No
- c. If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached. ☐ Yes ☐ No ☒ N/A

**SECTION C. MANAGEMENT OF RESIDUAL WASTE****1. PROCESSING OR DISPOSAL FACILITY(IES)**

The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.

- a. Solid waste permit number(s) for processing or disposal facility being utilized.  
WV 3416729395
- b. Facility Name West Virginia Oil Gathering  
Address Line 1 157 Lower Eureka Rd  
Address Line 1 \_\_\_\_\_  
Address City State ZIP Saint Marys WV 26170t  
Municipality \_\_\_\_\_ County Pleasant
- c. Facility Contact Name Bob Gerst  
Title State Manager  
Phone 304-665-2461 Email Address bgerst@wvog'aop.com
- d. Volume of waste shipped to processing or disposal facility in the previous year.  
6974058 ☐ cu yd ☒ gal ☐ lb ☐ ton (check one)
- a. Solid waste permit number(s) for processing or disposal facility being utilized.
- b. Facility Name \_\_\_\_\_  
Address Line 1 \_\_\_\_\_  
Address Line 1 \_\_\_\_\_  
Address City State ZIP \_\_\_\_\_  
Municipality \_\_\_\_\_ County \_\_\_\_\_
- c. Facility Contact Name \_\_\_\_\_  
Title \_\_\_\_\_  
Phone \_\_\_\_\_ Email Address \_\_\_\_\_
- d. Volume of waste shipped to processing or disposal facility in the previous year.  
☐ cu yd ☒ gal ☐ lb ☐ ton (check one)

**2. BENEFICIAL USE**

- a. Has the waste been approved for beneficial use? ☐ Yes ☐ No  
If "Yes", list the general permit number or approval number.
- b. Volume of waste beneficially used in the previous year:  
☐ cu yd ☐ gal ☐ lb ☐ ton (check one)

## SECTION D - CERTIFICATION

I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment.

Check the following, if applicable:

- ☐ I certify the information required in Section B-1, General Properties was supplied to the Department for the year \_\_\_\_\_ and has not changed.

Form Submitted:

☐ Form 26R

☐ Other (specify) \_\_\_\_\_

Date Submitted: \_\_\_\_\_

- ☐ I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year \_\_\_\_\_ and has not changed.

Form Submitted:

☐ Form 26R

☐ Other (specify) \_\_\_\_\_

Date Submitted: \_\_\_\_\_

- ☐ I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year \_\_\_\_\_ and has not changed.

Form Submitted:

☐ Form 26R

☐ Other (specify) \_\_\_\_\_

Date Submitted: \_\_\_\_\_

Name of Responsible Official

Title

*Eric B. Drueten*

Signature

Date

*3/11/11*

### 3. Process Description & Schematic Attachments

a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.

- Brine – Water that has been generated during the well production process.

Waste Type	Waste ID	Waste Name	Waste Code	Waste Location	Waste County	Waste Description	Waste Quantity
802	23707	#10	37-129-27488	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	2100
						Total Waste	2100
802	23938	UT #3	37-129-28012	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	22638
						Total Waste	22638
802	24301	#7	37-051-23983	Washington	Fayette	ADVANCED WASTE SERVICES	3360
802	24301	#8	37-051-23984	Washington	Fayette	FRANKLIN	16800
802	24301	#9	37-051-23985	Washington	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	135122
802	24301	#10	37-051-23986	Washington	Fayette	TUNNELTON LIQUIDS COMPANY	18480
						Total Waste	153762
802	22868	#16	37-051-24046	German	Fayette	WEST VIRGINIA OIL GATHERING	840
						Total Waste	840
802	22870	#18	37-051-24044	German	Fayette	WEST VIRGINIA OIL GATHERING	2982
						Total Waste	2982
802	23676	#10	37-059-24830	Cumberland	Greene	ADVANCED WASTE SERVICES	109830
802	23676	#10	37-059-24830	Cumberland	Greene	AOP CLEARWATER LLC	61824
802	23676	#10	37-059-24830	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	3570
802	23676	#10	37-059-24830	Cumberland	Greene	FRANKLIN	4620
802	23676	#10	37-059-24830	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	79506
802	23676	#10	37-059-24830	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	14592
						Total Waste	273882
802	23675	#9	37-059-24829	Cumberland	Greene	ADVANCED WASTE SERVICES	64050
802	23675	#9	37-059-24829	Cumberland	Greene	AOP CLEARWATER LLC	52374
802	23675	#9	37-059-24829	Cumberland	Greene	FRANKLIN	4200
802	23675	#9	37-059-24829	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	70470
802	23675	#9	37-059-24829	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	27552
						Total Waste	218652
802	22705	#11A	37-059-24428	Cumberland	Greene	ADVANCED WASTE SERVICES	77154
802	22705	#11A	37-059-24428	Cumberland	Greene	AOP CLEARWATER LLC	104328
802	22705	#11A	37-059-24428	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	2520
802	22705	#11A	37-059-24428	Cumberland	Greene	FRANKLIN	3570
802	22705	#11A	37-059-24428	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	7980
802	22705	#11A	37-059-24428	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	132258
						Total Waste	327810
802	22818	#29	37-059-24468	Monongahela	Greene	ADVANCED WASTE SERVICES	111594
802	22818	#29	37-059-24468	Monongahela	Greene	AOP CLEARWATER LLC	65016
802	22818	#29	37-059-24468	Monongahela	Greene	APPALACHIAN WATER SERVICES, LLC	4200
802	22818	#29	37-059-24468	Monongahela	Greene	WEST VIRGINIA OIL GATHERING	56406
						Total Waste	237216
802	22974	#30	37-059-24476	Monongahela	Greene	ADVANCED WASTE SERVICES	105420
802	22974	#30	37-059-24476	Monongahela	Greene	AOP CLEARWATER LLC	41058
802	22974	#30	37-059-24476	Monongahela	Greene	APPALACHIAN WATER SERVICES, LLC	6930
802	22974	#30	37-059-24476	Monongahela	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	18060
802	22974	#30	37-059-24476	Monongahela	Greene	WEST VIRGINIA OIL GATHERING	63882
						Total Waste	236250
802	22785	#33	37-059-24612	Monongahela	Greene	ADVANCED WASTE SERVICES	59808
802	22785	#33	37-059-24612	Monongahela	Greene	AOP CLEARWATER LLC	31248
802	22785	#33	37-059-24612	Monongahela	Greene	APPALACHIAN WATER SERVICES, LLC	3150
802	22785	#33	37-059-24612	Monongahela	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	26040
802	22785	#33	37-059-24612	Monongahela	Greene	WEST VIRGINIA OIL GATHERING	34104
						Total Waste	154350
802	24929	#45H	37-059-25271	Greene	Greene	ADVANCED WASTE SERVICES	73122
802	24929	#45H	37-059-25271	Greene	Greene	FRANKLIN	4452
802	24929	#45H	37-059-25271	Greene	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	89922
802	24929	#45H	37-059-25271	Greene	Greene	WEST VIRGINIA OIL GATHERING	10710
						Total Waste	178106

Waste Type	Waste ID	Waste Name	Phone	Township	County	Company	Volume (GAL)
802	24930	#46H	37-059-25270	Greene	Greene	ADVANCED WASTE SERVICES	21290
802	24930	#46H	37-059-25270	Greene	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	22638
802	24930	#46H	37-059-25270	Greene	Greene	WEST VIRGINIA OIL GATHERING	7728
						Total Waste	51656
802	25037	#53	37-059-25244	Greene	Greene	ADVANCED WASTE SERVICES	13802
802	25037	#53	37-059-25244	Greene	Greene	FRANKLIN	9324
802	25037	#53	37-059-25244	Greene	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	25158
802	25037	#53	37-059-25244	Greene	Greene	WEST VIRGINIA OIL GATHERING	3520
						Total Waste	48804
802	25038	#54H	37-059-25272	Greene	Greene	ADVANCED WASTE SERVICES	15540
802	25038	#54H	37-059-25272	Greene	Greene	FRANKLIN	4746
802	25038	#54H	37-059-25272	Greene	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	18648
802	25038	#54H	37-059-25272	Greene	Greene	WEST VIRGINIA OIL GATHERING	2940
						Total Waste	41874
802	22701	#6	37-059-24424	Cumberland	Greene	ADVANCED WASTE SERVICES	147714
802	22701	#6	37-059-24424	Cumberland	Greene	AOP CLEARWATER LLC	116802
802	22701	#6	37-059-24424	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	4830
802	22701	#6	37-059-24424	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	42042
802	22701	#6	37-059-24424	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	57246
						Total Waste	368634
802	21729	#8	37-051-24189	Washington	Fayette	ADVANCED WASTE SERVICES	22260
802	21729	#8	37-051-24189	Washington	Fayette	FRANKLIN	30114
802	21729	#8	37-051-24189	Washington	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	43532
802	21729	#8	37-051-24189	Washington	Fayette	TUNNELTON LIQUIDS COMPANY	44520
						Total Waste	510426
802	24075	#13	37-051-23976	Washington	Fayette	ADVANCED WASTE SERVICES	4200
802	24075	#13	37-051-23978	Washington	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	8316
						Total Waste	12516
802	24157	#14	37-051-23975	Washington	Fayette	FRANKLIN	13230
802	24157	#14	37-051-23975	Washington	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	164094
802	24157	#14	37-051-23975	Washington	Fayette	TUNNELTON LIQUIDS COMPANY	17178
						Total Waste	194502
802	24302	#15	37-051-23985	Washington	Fayette	ADVANCED WASTE SERVICES	13860
802	24302	#15	37-051-23985	Washington	Fayette	FRANKLIN	50526
802	24302	#15	37-051-23985	Washington	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	310212
802	24302	#15	37-051-23985	Washington	Fayette	TUNNELTON LIQUIDS COMPANY	20580
						Total Waste	395178
802	25213	#19A	37-129-27943	Salem	Westmoreland	ADVANCED WASTE SERVICES	22554
802	25213	#19A	37-129-27943	Salem	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	179592
802	25213	#19A	37-129-27943	Salem	Westmoreland	TUNNELTON LIQUIDS COMPANY	2520
						Total Waste	204666
802	25583	Unit #11	37-059-25223	Cumberland	Greene	ADVANCED WASTE SERVICES	147840
802	25583	Unit #11	37-059-25223	Cumberland	Greene	FRANKLIN	25872
802	25583	Unit #11	37-059-25223	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	238812
802	25583	Unit #11	37-059-25223	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	12726
						Total Waste	425250
802	25584	Unit #12H	37-059-25227	Cumberland	Greene	ADVANCED WASTE SERVICES	26670
802	25584	Unit #12H	37-059-25227	Cumberland	Greene	FRANKLIN	4998
802	25584	Unit #12H	37-059-25227	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	30744
						Total Waste	62412
802	24079	#0	37-051-24080	German	Fayette	ADVANCED WASTE SERVICES	78414
802	24079	#0	37-051-24080	German	Fayette	AOP CLEARWATER, LLC	66318
802	24079	#0	37-051-24080	German	Fayette	HUNTERS	4200
802	24079	#0	37-051-24080	German	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	44730
802	24079	#0	37-051-24080	German	Fayette	WEST VIRGINIA OIL GATHERING	8694



Waste Type	Waste ID	Well Name	Permit	Township	County	Business Name	Total Gallons
						Total Waste	202356
802	23982		37-051-23968	Redstone	Fayette	ADVANCED WASTE SERVICES	21000
802	23982		37-051-23968	Redstone	Fayette	AOP CLEARWATER LLC	30996
802	23982		37-051-23968	Redstone	Fayette	WEST VIRGINIA OIL GATHERING	8484
						Total Waste	60480
802	22831		37-051-24220	Dunbar	Fayette	ADVANCED WASTE SERVICES	8276
802	22831		37-051-24220	Dunbar	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	228942
802	22831		37-051-24220	Dunbar	Fayette	WEST VIRGINIA OIL GATHERING	7518
						Total Waste	244734
802	21561		37-059-24335	Dunkard	Greene	ADVANCED WASTE SERVICES	56490
802	21561		37-059-24335	Dunkard	Greene	AOP CLEARWATER LLC	54348
802	21561		37-059-24335	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	14070
802	21561		37-059-24335	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	21336
						Total Waste	146244
802	26018	UT #6	37-059-25385	Greene	Greene	ADVANCED WASTE SERVICES	15624
802	26018	UT #6	37-059-25385	Greene	Greene	FRANKLIN	20748
802	26018	UT #6	37-059-25385	Greene	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	29316
						Total Waste	65688
802	24408		37-051-24187	Redstone	Fayette	ADVANCED WASTE SERVICES	149688
802	24408		37-051-24187	Redstone	Fayette	AOP CLEARWATER LLC	20622
802	24408		37-051-24187	Redstone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	102270
802	24408		37-051-24187	Redstone	Fayette	WEST VIRGINIA OIL GATHERING	44982
						Total Waste	317562
802	21535	Consol/USX #13	37-059-24489	Cumberland	Greene	ADVANCED WASTE SERVICES	10290
802	21535	Consol/USX #13	37-059-24489	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	4494
						Total Waste	14784
802	23360	Consol/USX #53H	37-059-24919	Cumberland	Greene	ADVANCED WASTE SERVICES	14070
802	23360	Consol/USX #53H	37-059-24919	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	4484
802	23360	Consol/USX #53H	37-059-24919	Cumberland	Greene	FRANKLIN	4020
802	23360	Consol/USX #53H	37-059-24919	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	15114
802	23360	Consol/USX #53H	37-059-24919	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	3150
						Total Waste	41748
802	23432	Consol/USX #59	37-059-24903	Cumberland	Greene	ADVANCED WASTE SERVICES	60150
802	23432	Consol/USX #59	37-059-24903	Cumberland	Greene	AOP CLEARWATER LLC	42546
802	23432	Consol/USX #59	37-059-24903	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	7770
802	23432	Consol/USX #59	37-059-24903	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	67830
802	23432	Consol/USX #59	37-059-24903	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	30072
						Total Waste	214368
802	23614	Consol/USX #66	37-059-25137	Cumberland	Greene	ADVANCED WASTE SERVICES	68922
802	23614	Consol/USX #66	37-059-25137	Cumberland	Greene	AOP CLEARWATER LLC	40488
802	23614	Consol/USX #66	37-059-25137	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	2940
802	23614	Consol/USX #66	37-059-25137	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	60228
802	23614	Consol/USX #66	37-059-25137	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	31038
						Total Waste	203616
802	25857	Consol/USX #90	37-059-25334	Monongahela	Greene	ADVANCED WASTE SERVICES	74130
802	25857	Consol/USX #90	37-059-25334	Monongahela	Greene	FRANKLIN	21504
802	25857	Consol/USX #90	37-059-25334	Monongahela	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	380646
802	25857	Consol/USX #90	37-059-25334	Monongahela	Greene	WEST VIRGINIA OIL GATHERING	4494
						Total Waste	480774
802	24893		37-125-23392	Hopewell	Washington	HUNTERS	26400
802	24893		37-125-23392	Hopewell	Washington	WEAVER TOWN EVH GROUP	3780
802	24893		37-125-23392	Hopewell	Washington	WEST VIRGINIA OIL GATHERING	432348
						Total Waste	462588
802	24894		37-125-23384	Hopewell	Washington	HUNTERS	4662
802	24894		37-125-23384	Hopewell	Washington	WEST VIRGINIA OIL GATHERING	137172

ESR	Waste	Waste Name	Permit #	Relationship	County	Disposal Method	Total Volume
						Total Waste	141834
802	24860	#12H	37-125-23393	Hopewell	Washington	HUNTERS	14616
802	24860	#12H	37-125-23393	Hopewell	Washington	WEST VIRGINIA OIL GATHERING	295050
						Total Waste	309666
802	24861	#14	37-125-23385	Hopewell	Washington	HUNTERS	1050
802	24861	#14	37-125-23385	Hopewell	Washington	WEST VIRGINIA OIL GATHERING	90216
						Total Waste	91266
802	24862	#15	37-125-23394	Hopewell	Washington	HUNTERS	4586
802	24862	#15	37-125-23394	Hopewell	Washington	WEST VIRGINIA OIL GATHERING	38220
						Total Waste	42756
802	25005	#16	37-125-23395	Hopewell	Washington	HUNTERS	7602
802	25005	#16	37-125-23395	Hopewell	Washington	WEST VIRGINIA OIL GATHERING	198534
						Total Waste	206136
802	24863	#17	37-125-23386	Hopewell	Washington	HUNTERS	84
802	24863	#17	37-125-23386	Hopewell	Washington	WEST VIRGINIA OIL GATHERING	90762
						Total Waste	90846
802	23300	#40	37-125-23161	Cross Creek	Washington	HUNTERS	2220
802	23300	#40	37-125-23161	Cross Creek	Washington	WEST VIRGINIA OIL GATHERING	28350
						Total Waste	30576
802	23371	#41	37-125-23537	Cross Creek	Washington	HUNTERS	42
802	23371	#41	37-125-23537	Cross Creek	Washington	WEST VIRGINIA OIL GATHERING	57582
						Total Waste	57624
802	23221	#46	37-125-22957	Cross Creek	Washington	WEST VIRGINIA OIL GATHERING	9660
						Total Waste	9660
802	23222	#47H	37-125-23271	Cross Creek	Washington	HUNTERS	7728
802	23222	#47H	37-125-23271	Cross Creek	Washington	WEST VIRGINIA OIL GATHERING	246330
						Total Waste	254058
802	23223	#48H	37-125-23429	Cross Creek	Washington	HUNTERS	9492
802	23223	#48H	37-125-23429	Cross Creek	Washington	WEST VIRGINIA OIL GATHERING	78456
						Total Waste	87948
802	23225	#50	37-125-23070	Cross Creek	Washington	WEST VIRGINIA OIL GATHERING	36477
						Total Waste	36477
802	23226	#51	37-125-22960	Cross Creek	Washington	HUNTERS	2520
802	23226	#51	37-125-22960	Cross Creek	Washington	WEST VIRGINIA OIL GATHERING	100191
						Total Waste	102711
802	23228	#53	37-125-22961	Cross Creek	Washington	HUNTERS	1470
802	23228	#53	37-125-22961	Cross Creek	Washington	WEST VIRGINIA OIL GATHERING	8316
						Total Waste	9786
802	24611	#66	37-059-26137	Independence	Washington	WEST VIRGINIA OIL GATHERING	4368
						Total Waste	4368
802	24857	#6H	37-125-23390	Hopewell	Washington	HUNTERS	7350
802	24857	#6H	37-125-23390	Hopewell	Washington	WEST VIRGINIA OIL GATHERING	97650
						Total Waste	105000
802	25119	#75	37-125-23378	Cross Creek	Washington	HUNTERS	1260
802	25119	#75	37-125-23378	Cross Creek	Washington	WEST VIRGINIA OIL GATHERING	146580
						Total Waste	147840

County	Waste	Waste	County	County	County	County	County
Type	Waste	Waste	County	County	County	County	County
802	25166	#76	37-125-23515	Hopewell	Washington	HUNTERS	2013
802	25166	#76	37-125-23515	Hopewell	Washington	WEST VIRGINIA OIL GATHERING	18522
						Total Waste	20538
802	24690	#4	37-051-24152	Redstone	Fayette	ADVANCED WASTE SERVICES	13550
802	24690	#4	37-051-24152	Redstone	Fayette	AOP CLEARWATER LLC	4596
802	24690	#4	37-051-24152	Redstone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	165816
802	24690	#4	37-051-24152	Redstone	Fayette	TUNNELTON LIQUIDS COMPANY	9660
802	24690	#4	37-051-24152	Redstone	Fayette	WEST VIRGINIA OIL GATHERING	4872
						Total Waste	196434
802	24691	#5	37-051-24153	Redstone	Fayette	ADVANCED WASTE SERVICES	78592
802	24691	#5	37-051-24153	Redstone	Fayette	FRANKLIN	10380
802	24691	#5	37-051-24153	Redstone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	395270
802	24691	#5	37-051-24153	Redstone	Fayette	WEST VIRGINIA OIL GATHERING	34116
						Total Waste	524328
802	23942	#11	37-129-27280	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	9240
						Total Waste	9240
802	23943	#12	37-129-27281	S Huntingdon	Westmoreland	FRANKLIN	18018
802	23943	#12	37-129-27281	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	75600
						Total Waste	93618
802	23944	#13	37-129-27282	S Huntingdon	Westmoreland	ADVANCED WASTE SERVICES	9240
802	23944	#13	37-129-27282	S Huntingdon	Westmoreland	FRANKLIN	23714
802	23944	#13	37-129-27282	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	128856
802	23944	#13	37-129-27282	S Huntingdon	Westmoreland	TUNNELTON LIQUIDS COMPANY	18480
						Total Waste	178290
802	25079	UT #1	37-125-23779	Deemston	Washington	ADVANCED WASTE SERVICES	95406
802	25079	UT #1	37-125-23779	Deemston	Washington	APPALACHIAN WATER SERVICES, LLC	4200
802	25079	UT #1	37-125-23779	Deemston	Washington	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	93870
802	25079	UT #1	37-125-23779	Deemston	Washington	TUNNELTON LIQUIDS COMPANY	18480
802	25079	UT #1	37-125-23779	Deemston	Washington	WEST VIRGINIA OIL GATHERING	57162
						Total Waste	252546
802	22905	#2	37-129-27165	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	2394
						Total Waste	2394
802	23639	Fairbank Rod & Gun Club #3	37-051-24238	Menallen	Fayette	ADVANCED WASTE SERVICES	10478
802	23639	Fairbank Rod & Gun Club #3	37-051-24238	Menallen	Fayette	FRANKLIN	21210
802	23639	Fairbank Rod & Gun Club #3	37-051-24238	Menallen	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	254730
802	23639	Fairbank Rod & Gun Club #3	37-051-24238	Menallen	Fayette	WEST VIRGINIA OIL GATHERING	3444
						Total Waste	386862
802	23642	Fairbank Rod & Gun Club #6	37-051-24239	Menallen	Fayette	ADVANCED WASTE SERVICES	191250
802	23642	Fairbank Rod & Gun Club #6	37-051-24239	Menallen	Fayette	D & L Energy Inc.	7980
802	23642	Fairbank Rod & Gun Club #6	37-051-24239	Menallen	Fayette	FRANKLIN	27678
802	23642	Fairbank Rod & Gun Club #6	37-051-24239	Menallen	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	398370
802	23642	Fairbank Rod & Gun Club #6	37-051-24239	Menallen	Fayette	PATRIOT	3570
802	23642	Fairbank Rod & Gun Club #6	37-051-24239	Menallen	Fayette	WEST VIRGINIA OIL GATHERING	12978
						Total Waste	583026
802	25665	Unit #5H	37-051-24305	Redstone	Fayette	ADVANCED WASTE SERVICES	4284
802	25665	Unit #5H	37-051-24305	Redstone	Fayette	FRANKLIN	8064
						Total Waste	12348
802	25666	Unit #6H	37-051-24306	Redstone	Fayette	ADVANCED WASTE SERVICES	15876
802	25666	Unit #6H	37-051-24306	Redstone	Fayette	FRANKLIN	12054
802	25666	Unit #6H	37-051-24306	Redstone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	12642
						Total Waste	40572
802	25827	Fayette Muggle Club Unit #6H	37-051-24310	Washington	Fayette	ADVANCED WASTE SERVICES	21642

Waste Type	Waste ID	Waste Name	Waste No.	County	County	Disposal Point	Total Quantity
802	25877	Fayette Beagle Club Unit #6H	37-051-24310	Washington	Fayette	FRANKLIN	4242
802	25827	Fayette Beagle Club Unit #6H	37-051-24310	Washington	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	4200
802	25827	Fayette Beagle Club Unit #6H	37-051-24310	Washington	Fayette	WEST VIRGINIA OIL GATHERING	8358
						Total Waste	38220
802	25267	[REDACTED] UT #44	37-051-24267	Springhill	Fayette	ADVANCED WASTE SERVICES	57414
802	25267	[REDACTED] UT #44	37-051-24267	Springhill	Fayette	AOP CLEARWATER LLC	21126
802	25267	[REDACTED] UT #44	37-051-24267	Springhill	Fayette	APPALACHIAN WATER SERVICES, LLC	10920
802	25267	[REDACTED] UT #44	37-051-24267	Springhill	Fayette	FRANKLIN	17010
802	25267	[REDACTED] UT #44	37-051-24267	Springhill	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	388542
802	25267	[REDACTED] UT #44	37-051-24267	Springhill	Fayette	WEST VIRGINIA OIL GATHERING	8736
						Total Waste	505748
802	26129	[REDACTED] Unit #13H	37-051-24375	Dunbar	Fayette	WEST VIRGINIA OIL GATHERING	168
						Total Waste	168
802	25870	[REDACTED] #7	37-051-24262	Nicholson	Fayette	ADVANCED WASTE SERVICES	120736
802	25870	[REDACTED] #7	37-051-24262	Nicholson	Fayette	AOP CLEARWATER LLC	32634
802	25870	[REDACTED] #7	37-051-24262	Nicholson	Fayette	APPALACHIAN WATER SERVICES, LLC	7770
802	25870	[REDACTED] #7	37-051-24262	Nicholson	Fayette	D & L Energy Inc.	4200
802	25870	[REDACTED] #7	37-051-24262	Nicholson	Fayette	FRANKLIN	4200
802	25870	[REDACTED] #7	37-051-24262	Nicholson	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	140028
802	25870	[REDACTED] #7	37-051-24262	Nicholson	Fayette	WEST VIRGINIA OIL GATHERING	22260
						Total Waste	331828
802	25915	[REDACTED] Unit #2H	37-129-28295	Rostraver	Westmoreland	ADVANCED WASTE SERVICES	53970
						Total Waste	53970
802	21956	[REDACTED] UT #11	37-129-26882	Sewickley	Westmoreland	FRANKLIN	4200
802	21956	[REDACTED] UT #11	37-129-26882	Sewickley	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	135240
802	21956	[REDACTED] UT #11	37-129-26882	Sewickley	Westmoreland	TUNNELTON LIQUIDS COMPANY	19530
						Total Waste	158970
802	25727	Game Lands #2	37-059-25338	Dunkard	Greene	ADVANCED WASTE SERVICES	41748
802	25727	Game Lands #2	37-059-25338	Dunkard	Greene	FRANKLIN	2058
802	25727	Game Lands #2	37-059-25338	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	123732
802	25727	Game Lands #2	37-059-25338	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	7392
						Total Waste	174930
802	25726	Game Lands UT #1	37-059-25337	Dunkard	Greene	ADVANCED WASTE SERVICES	76230
802	25726	Game Lands UT #1	37-059-25337	Dunkard	Greene	FRANKLIN	4578
802	25726	Game Lands UT #1	37-059-25337	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	115542
						Total Waste	196350
802	25777	Game Lands UT #3H	37-059-25339	Dunkard	Greene	ADVANCED WASTE SERVICES	99330
802	25777	Game Lands UT #3H	37-059-25339	Dunkard	Greene	FRANKLIN	7812
802	25777	Game Lands UT #3H	37-059-25339	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	196476
802	25777	Game Lands UT #3H	37-059-25339	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	4326
						Total Waste	307944
802	25778	Game Lands UT #4H	37-059-25340	Dunkard	Greene	ADVANCED WASTE SERVICES	13440
802	25778	Game Lands UT #4H	37-059-25340	Dunkard	Greene	FRANKLIN	2940
802	25778	Game Lands UT #4H	37-059-25340	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	49140
802	25778	Game Lands UT #4H	37-059-25340	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	3570
						Total Waste	69090
802	24046	[REDACTED] #11	37-059-24650	Cumberland	Greene	ADVANCED WASTE SERVICES	22680
802	24046	[REDACTED] #11	37-059-24650	Cumberland	Greene	AOP CLEARWATER LLC	15876
802	24046	[REDACTED] #11	37-059-24650	Cumberland	Greene	FRANKLIN	2310
802	24046	[REDACTED] #11	37-059-24650	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	80892
802	24046	[REDACTED] #11	37-059-24650	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	19992
						Total Waste	141750
802	25145	[REDACTED] #10	37-051-24212	Nicholson	Fayette	ADVANCED WASTE SERVICES	162960
802	25145	[REDACTED] #10	37-051-24212	Nicholson	Fayette	AOP CLEARWATER LLC	11886
802	25145	[REDACTED] #10	37-051-24212	Nicholson	Fayette	FRANKLIN	3570
802	25145	[REDACTED] #10	37-051-24212	Nicholson	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	85680



WVABP	WVABP	WVABP	WVABP	WVABP	WVABP	WVABP	WVABP	WVABP
Type	WVABP	WVABP	WVABP	WVABP	WVABP	WVABP	WVABP	WVABP
802	25145	#10	37-051-24212	Nicholson	Fayette	WEST VIRGINIA OIL GATHERING	11592	
						Total Waste	275698	
802	22970	#4	37-059-2442	Monongahela	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	4620	
802	22970	#4	37-059-2442	Monongahela	Greene	WEST VIRGINIA OIL GATHERING	3906	
						Total Waste	8526	
802	24496	#23	37-129-27509	Sewickley	Westmoreland	ADVANCED WASTE SERVICES	7980	
802	24496	#23	37-129-27509	Sewickley	Westmoreland	APPALACHIAN WATER SERVICES, LLC	4620	
802	24496	#23	37-129-27509	Sewickley	Westmoreland	FRANKLIN	22974	
802	24496	#23	37-129-27509	Sewickley	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	138558	
802	24496	#23	37-129-27509	Sewickley	Westmoreland	TUNNELTON LIQUIDS COMPANY	10374	
						Total Waste	184508	
802	23362	#7	37-059-24559	Cumberland	Greene	ADVANCED WASTE SERVICES	2310	
802	23362	#7	37-059-24559	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	7644	
						Total Waste	9954	
802	23617	#8	37-059-25160	Cumberland	Greene	ADVANCED WASTE SERVICES	186354	
802	23617	#8	37-059-25160	Cumberland	Greene	AOP CLEARWATER LLC	94080	
802	23617	#8	37-059-25160	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	4200	
802	23617	#8	37-059-25160	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	22260	
802	23617	#8	37-059-25160	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	48720	
						Total Waste	355614	
802	24078	UT #3	37-051-24023	German	Fayette	ADVANCED WASTE SERVICES	37170	
802	24078	UT #3	37-051-24023	German	Fayette	AOP CLEARWATER LLC	28686	
802	24078	UT #3	37-051-24023	German	Fayette	APPALACHIAN WATER SERVICES, LLC	4890	
802	24078	UT #3	37-051-24023	German	Fayette	WEST VIRGINIA OIL GATHERING	13020	
						Total Waste	83706	
802	25282	UT #1	37-125-23806	West Bethlehem	Washington	ADVANCED WASTE SERVICES	121506	
802	25282	UT #1	37-125-23806	West Bethlehem	Washington	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	38220	
802	25282	UT #1	37-125-23806	West Bethlehem	Washington	TUNNELTON LIQUIDS COMPANY	4620	
802	25282	UT #1	37-125-23806	West Bethlehem	Washington	WEST VIRGINIA OIL GATHERING	24192	
						Total Waste	186538	
802	25528	UT #2	37-125-23775	West Bethlehem	Washington	ADVANCED WASTE SERVICES	295134	
802	25528	UT #2	37-125-23775	West Bethlehem	Washington	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	119532	
802	25528	UT #2	37-125-23775	West Bethlehem	Washington	WEST VIRGINIA OIL GATHERING	31416	
						Total Waste	446082	
802	23672	#8	37-059-25284	Cumberland	Greene	ADVANCED WASTE SERVICES	105336	
802	23672	#8	37-059-25284	Cumberland	Greene	AOP CLEARWATER LLC	26208	
802	23672	#8	37-059-25284	Cumberland	Greene	FRANKLIN	10920	
802	23672	#8	37-059-25284	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	95256	
802	23672	#8	37-059-25284	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	28392	
						Total Waste	266112	
802	21969	#6	37-059-24036	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	4830	
						Total Waste	4930	
802	25060	#8	37-059-25341	Cumberland	Greene	ADVANCED WASTE SERVICES	176736	
802	25060	#8	37-059-25341	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	81858	
802	25060	#8	37-059-25341	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	15246	
						Total Waste	273840	
802	25061	#9H	37-059-25342	Cumberland	Greene	ADVANCED WASTE SERVICES	94584	
802	25061	#9H	37-059-25342	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	8694	
						Total Waste	109279	
802	23338	#5	37-059-24473	Dunkard	Greene	ADVANCED WASTE SERVICES	45780	
802	23338	#5	37-059-24473	Dunkard	Greene	AOP CLEARWATER LLC	42630	
802	23338	#5	37-059-24473	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	6300	
802	23338	#5	37-059-24473	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	10122	
						Total Waste	104832	



Volume	Type	Wells	Well Name	Permit No.	Location	County	Disposal Point	Total Volume
802	23339	[REDACTED]	UT #6	37-059-24484	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	1680
							Total Waste	1680
802	24695	[REDACTED]	#8	37-051-24154	Jefferson	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	27720
							Total Waste	27720
802	24492	[REDACTED]	#15	37-051-24059	German	Fayette	ADVANCED WASTE SERVICES	53760
802	24492	[REDACTED]	#15	37-051-24053	German	Fayette	AOP CLEARWATER LLC	3090
802	24492	[REDACTED]	#15	37-051-24053	German	Fayette	HUNTERS	2100
802	24492	[REDACTED]	#15	37-051-24053	German	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	98154
802	24492	[REDACTED]	#15	37-051-24053	German	Fayette	WEST VIRGINIA OIL GATHERING	8526
							Total Waste	166530
802	24493	[REDACTED]	#16	37-051-24054	German	Fayette	ADVANCED WASTE SERVICES	60060
802	24493	[REDACTED]	#16	37-051-24054	German	Fayette	AOP CLEARWATER LLC	11928
802	24493	[REDACTED]	#16	37-051-24054	German	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	27342
802	24493	[REDACTED]	#16	37-051-24054	German	Fayette	WEST VIRGINIA OIL GATHERING	14658
							Total Waste	113988
802	24494	[REDACTED]	#17	37-051-24055	German	Fayette	ADVANCED WASTE SERVICES	59808
802	24494	[REDACTED]	#17	37-051-24055	German	Fayette	AOP CLEARWATER LLC	36750
802	24494	[REDACTED]	#17	37-051-24055	German	Fayette	APPALACHIAN WATER SERVICES, LLC	10290
802	24494	[REDACTED]	#17	37-051-24055	German	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	41202
802	24494	[REDACTED]	#17	37-051-24055	German	Fayette	WEST VIRGINIA OIL GATHERING	14448
							Total Waste	162498
802	24035	[REDACTED]	#7	37-051-24155	Jefferson	Fayette	ADVANCED WASTE SERVICES	2730
802	24035	[REDACTED]	#7	37-051-24155	Jefferson	Fayette	FRANKLIN	12180
802	24035	[REDACTED]	#7	37-051-24155	Jefferson	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	263340
802	24035	[REDACTED]	#7	37-051-24155	Jefferson	Fayette	TUNNELTON LIQUIDS COMPANY	4620
							Total Waste	282870
802	24695	[REDACTED]	#8	37-051-24154	Jefferson	Fayette	ADVANCED WASTE SERVICES	10080
802	24695	[REDACTED]	#8	37-051-24154	Jefferson	Fayette	FRANKLIN	36078
802	24695	[REDACTED]	#8	37-051-24154	Jefferson	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	378378
802	24695	[REDACTED]	#8	37-051-24154	Jefferson	Fayette	TUNNELTON LIQUIDS COMPANY	9240
							Total Waste	433776
802	22968	[REDACTED]	#13	37-129-26958	S Huntington	Westmoreland	FRANKLIN	4620
802	22968	[REDACTED]	#13	37-129-26958	S Huntington	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	108780
802	22968	[REDACTED]	#13	37-129-26958	S Huntington	Westmoreland	TUNNELTON LIQUIDS COMPANY	4620
							Total Waste	118020
802	23647	[REDACTED]	#14	37-129-27200	S Huntington	Westmoreland	FRANKLIN	9240
802	23647	[REDACTED]	#14	37-129-27200	S Huntington	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	77280
802	23647	[REDACTED]	#14	37-129-27200	S Huntington	Westmoreland	TUNNELTON LIQUIDS COMPANY	4620
							Total Waste	91140
802	22460	[REDACTED]	UT #11	37-129-26836	S Huntington	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	13146
							Total Waste	13146
802	22462	[REDACTED]	UT #13	37-129-26838	S Huntington	Westmoreland	FRANKLIN	4620
802	22462	[REDACTED]	UT #13	37-129-26838	S Huntington	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	5460
802	22462	[REDACTED]	UT #13	37-129-26838	S Huntington	Westmoreland	TUNNELTON LIQUIDS COMPANY	1554
							Total Waste	11634
802	24360	[REDACTED]	#24	37-129-27503	S Huntington	Westmoreland	FRANKLIN	9240
802	24360	[REDACTED]	#24	37-129-27503	S Huntington	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	306474
802	24360	[REDACTED]	#24	37-129-27503	S Huntington	Westmoreland	TUNNELTON LIQUIDS COMPANY	1848

Waste Type	Waste ID	Waste Name	Phone #	Township	County	Service Point	Total Gallons
802	24311	Jackson Farms Unit #32H	37-051-24234	Redstone	Fayette	ADVANCED WASTE SERVICES	69210
802	24311	Jackson Farms Unit #32H	37-051-24234	Redstone	Fayette	FRANKLIN	4620
802	24311	Jackson Farms Unit #32H	37-051-24234	Redstone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	33978
						Total Waste	101808
802	24312	Jackson Farms Unit #33	37-051-24233	Redstone	Fayette	ADVANCED WASTE SERVICES	80052
802	24312	Jackson Farms Unit #33	37-051-24233	Redstone	Fayette	FRANKLIN	30786
802	24312	Jackson Farms Unit #33	37-051-24233	Redstone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	155694
						Total Waste	266532
802	24994	Jackson Farms Unit #36H	37-051-24228	Redstone	Fayette	ADVANCED WASTE SERVICES	40614
802	24994	Jackson Farms Unit #36H	37-051-24228	Redstone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	18690
802	24994	Jackson Farms Unit #36H	37-051-24228	Redstone	Fayette	WEST VIRGINIA OIL GATHERING	1470
						Total Waste	60774
802	24308	Jackson Farms UT #29	37-051-24227	Redstone	Fayette	ADVANCED WASTE SERVICES	171360
802	24308	Jackson Farms UT #29	37-051-24227	Redstone	Fayette	AOP CLEARWATER LLC	25746
802	24308	Jackson Farms UT #29	37-051-24227	Redstone	Fayette	APPALACHIAN WATER SERVICES, LLC	7350
802	24308	Jackson Farms UT #29	37-051-24227	Redstone	Fayette	FRANKLIN	12180
802	24308	Jackson Farms UT #29	37-051-24227	Redstone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	335538
802	24308	Jackson Farms UT #29	37-051-24227	Redstone	Fayette	WEST VIRGINIA OIL GATHERING	70392
						Total Waste	622566
802	23526	#6	37-059-24851	Cumberland	Greene	ADVANCED WASTE SERVICES	36372
802	23526	#6	37-059-24851	Cumberland	Greene	FRANKLIN	9618
802	23526	#6	37-059-24851	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	76314
802	23526	#6	37-059-24851	Cumberland	Greene	PATRIOT	3570
802	23526	#6	37-059-24851	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	19488
						Total Waste	145362
802	24204	#7	37-059-24796	Cumberland	Greene	ADVANCED WASTE SERVICES	46326
802	24204	#7	37-059-24796	Cumberland	Greene	AOP CLEARWATER LLC	3906
802	24204	#7	37-059-24796	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	86982
802	24204	#7	37-059-24796	Cumberland	Greene	PATRIOT	3570
802	24204	#7	37-059-24796	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	30492
						Total Waste	171276
802	23240	#1A	37-059-25225	Dunkard	Greene	ADVANCED WASTE SERVICES	296940
802	23240	#1A	37-059-25225	Dunkard	Greene	AOP CLEARWATER LLC	6762
802	23240	#1A	37-059-25225	Dunkard	Greene	APPALACHIAN WATER SERVICES, LLC	6300
802	23240	#1A	37-059-25225	Dunkard	Greene	FRANKLIN	7770
802	23240	#1A	37-059-25225	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	122346
802	23240	#1A	37-059-25225	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	60050
						Total Waste	504168
802	23241	#2	37-059-25226	Dunkard	Greene	ADVANCED WASTE SERVICES	115164
802	23241	#2	37-059-25226	Dunkard	Greene	AOP CLEARWATER LLC	49050
802	23241	#2	37-059-25226	Dunkard	Greene	APPALACHIAN WATER SERVICES, LLC	9030
802	23241	#2	37-059-25226	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	15288
802	23241	#2	37-059-25226	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	28854
						Total Waste	211386
802	24972	#15	37-059-25032	Dunkard	Greene	ADVANCED WASTE SERVICES	16800
802	24972	#15	37-059-25032	Dunkard	Greene	AOP CLEARWATER LLC	37674
802	24972	#15	37-059-25032	Dunkard	Greene	FRANKLIN	4410
802	24972	#15	37-059-25032	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	20370
802	24972	#15	37-059-25032	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	3864
						Total Waste	83118
802	24973	#16	37-059-25031	Dunkard	Greene	ADVANCED WASTE SERVICES	29400
802	24973	#16	37-059-25031	Dunkard	Greene	AOP CLEARWATER LLC	30534
802	24973	#16	37-059-25031	Dunkard	Greene	FRANKLIN	440
802	24973	#16	37-059-25031	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	46368
802	24973	#16	37-059-25031	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	4368
						Total Waste	111510
802	24974	#17	37-059-25245	Dunkard	Greene	ADVANCED WASTE SERVICES	3150

Waste Type	Waste ID	Waste Name	Waste No.	Location	County	Waste Description	Quantity
802	24974	#17	37-059-25245	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	3570
802	24974	#17	37-059-25245	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	1512
						Total Waste	8232
802	24978	#21H	37-059-25248	Dunkard	Greene	ADVANCED WASTE SERVICES	83516
802	24978	#21H	37-059-25248	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	31668
802	24978	#21H	37-059-25248	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	10710
						Total Waste	75894
802	24979	#22H	37-059-25249	Dunkard	Greene	ADVANCED WASTE SERVICES	25830
802	24979	#22H	37-059-25249	Dunkard	Greene	FRANKLIN	3360
802	24979	#22H	37-059-25249	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	36120
802	24979	#22H	37-059-25249	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	10332
						Total Waste	75642
802	23078	#1	37-051-24195	German	Fayette	ADVANCED WASTE SERVICES	82740
802	23078	#1	37-051-24195	German	Fayette	AOP CLEARWATER LLC	55734
802	23078	#1	37-051-24195	German	Fayette	APPALACHIAN WATER SERVICES, LLC	3360
802	23078	#1	37-051-24195	German	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	63126
802	23078	#1	37-051-24195	German	Fayette	WEST VIRGINIA OIL GATHERING	15792
						Total Waste	220752
802	25106	#4H	37-129-27964	Salem	Westmoreland	ADVANCED WASTE SERVICES	13928
802	25106	#4H	37-129-27964	Salem	Westmoreland	FRANKLIN	9038
802	25106	#4H	37-129-27964	Salem	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	219324
						Total Waste	240870
802	25107	#5	37-129-27942	Salem	Westmoreland	FRANKLIN	4620
802	25107	#5	37-129-27942	Salem	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	26166
						Total Waste	30786
802	23865	#9	37-059-24905	Cumberland	Greene	ADVANCED WASTE SERVICES	82950
802	23865	#9	37-059-24905	Cumberland	Greene	AOP CLEARWATER LLC	64596
802	23865	#9	37-059-24905	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	10500
802	23865	#9	37-059-24905	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	84462
802	23865	#9	37-059-24905	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	15582
						Total Waste	258090
802	23925	#9	37-051-23961	Redstone	Fayette	ADVANCED WASTE SERVICES	51240
802	23925	#9	37-051-23961	Redstone	Fayette	AOP CLEARWATER LLC	41034
802	23925	#9	37-051-23961	Redstone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	16968
802	23925	#9	37-051-23961	Redstone	Fayette	WEST VIRGINIA OIL GATHERING	27342
						Total Waste	136584
802	25673	Unit #2H	37-051-24261	German	Fayette	ADVANCED WASTE SERVICES	41160
802	25673	Unit #2H	37-051-24261	German	Fayette	AOP CLEARWATER LLC	20538
802	25673	Unit #2H	37-051-24261	German	Fayette	APPALACHIAN WATER SERVICES, LLC	2520
802	25673	Unit #2H	37-051-24261	German	Fayette	FRANKLIN	9240
802	25673	Unit #2H	37-051-24261	German	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	73836
802	25673	Unit #2H	37-051-24261	German	Fayette	WEST VIRGINIA OIL GATHERING	18942
						Total Waste	166236
802	25674	Unit #3	37-051-24258	German	Fayette	ADVANCED WASTE SERVICES	105198
802	25674	Unit #3	37-051-24258	German	Fayette	AOP CLEARWATER LLC	49854
802	25674	Unit #3	37-051-24258	German	Fayette	APPALACHIAN WATER SERVICES, LLC	12390
802	25674	Unit #3	37-051-24258	German	Fayette	FRANKLIN	18858
802	25674	Unit #3	37-051-24258	German	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	85848
802	25674	Unit #3	37-051-24258	German	Fayette	WEST VIRGINIA OIL GATHERING	42924
						Total Waste	315672
802	25675	Unit #4H	37-051-24259	German	Fayette	ADVANCED WASTE SERVICES	39440
802	25675	Unit #4H	37-051-24259	German	Fayette	AOP CLEARWATER LLC	25536
802	25675	Unit #4H	37-051-24259	German	Fayette	FRANKLIN	3570
802	25675	Unit #4H	37-051-24259	German	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	31584
802	25675	Unit #4H	37-051-24259	German	Fayette	WEST VIRGINIA OIL GATHERING	18858
						Total Waste	119028



Waste Type	Well ID	Well Name	Unit #	Location	County	Disposal Facility	Total Gallons
802	24269	#6	37-129-27504	S Huntingdon	Westmoreland	ADVANCED WASTE SERVICES	9240
802	24269	#6	37-129-27504	S Huntingdon	Westmoreland	FRANKLIN	4670
802	24269	#6	37-129-27504	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	162792
802	24269	#6	37-129-27504	S Huntingdon	Westmoreland	TUNNELTON LIQUIDS COMPANY	18270
						Total Waste	194922
802	23106	#2	37-051-23718	German	Fayette	ADVANCED WASTE SERVICES	34230
802	23106	#2	37-051-23718	German	Fayette	AOP CLEARWATER LLC	11694
802	23106	#2	37-051-23718	German	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	26250
802	23106	#2	37-051-23718	German	Fayette	WEST VIRGINIA OIL GATHERING	9744
						Total Waste	81658
802	24043	#21	37-059-25159	Monongahela	Greene	ADVANCED WASTE SERVICES	143628
802	24043	#21	37-059-25159	Monongahela	Greene	AOP CLEARWATER LLC	2394
802	24043	#21	37-059-25159	Monongahela	Greene	APPALACHIAN WATER SERVICES, LLC	10710
802	24043	#21	37-059-25159	Monongahela	Greene	FRANKLIN	25325
802	24043	#21	37-059-25159	Monongahela	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	291648
802	24043	#21	37-059-25159	Monongahela	Greene	WEST VIRGINIA OIL GATHERING	36792
						Total Waste	510496
802	24254	Unit #24	37-051-24226	German	Fayette	ADVANCED WASTE SERVICES	64092
802	24254	Unit #24	37-051-24226	German	Fayette	AOP CLEARWATER LLC	68670
802	24254	Unit #24	37-051-24226	German	Fayette	APPALACHIAN WATER SERVICES, LLC	4410
802	24254	Unit #24	37-051-24226	German	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	74004
802	24254	Unit #24	37-051-24226	German	Fayette	WEST VIRGINIA OIL GATHERING	14028
						Total Waste	225704
802	25616	Unit #34H	37-051-24225	German	Fayette	ADVANCED WASTE SERVICES	9030
802	25616	Unit #34H	37-051-24225	German	Fayette	AOP CLEARWATER LLC	4872
802	25616	Unit #34H	37-051-24225	German	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	18984
802	25616	Unit #34H	37-051-24225	German	Fayette	WEST VIRGINIA OIL GATHERING	2436
						Total Waste	35922
802	25605	UT #33	37-059-25185	Monongahela	Greene	ADVANCED WASTE SERVICES	119700
802	25605	UT #33	37-059-25185	Monongahela	Greene	FRANKLIN	9114
802	25605	UT #33	37-059-25185	Monongahela	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	312480
802	25605	UT #33	37-059-25185	Monongahela	Greene	WEST VIRGINIA OIL GATHERING	25074
						Total Waste	466368
802	24937	#13	37-051-24210	Nicholson	Fayette	ADVANCED WASTE SERVICES	546462
802	24937	#13	37-051-24210	Nicholson	Fayette	AOP CLEARWATER LLC	254772
802	24937	#13	37-051-24210	Nicholson	Fayette	APPALACHIAN WATER SERVICES, LLC	8400
802	24937	#13	37-051-24210	Nicholson	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	100170
802	24937	#13	37-051-24210	Nicholson	Fayette	WEST VIRGINIA OIL GATHERING	132552
						Total Waste	1042356
802	24077	#3	37-051-24058	German	Fayette	ADVANCED WASTE SERVICES	43050
802	24077	#3	37-051-24058	German	Fayette	AOP CLEARWATER LLC	60904
802	24077	#3	37-051-24058	German	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	36414
802	24077	#3	37-051-24058	German	Fayette	WEST VIRGINIA OIL GATHERING	45108
						Total Waste	194376
802	23652	#16	37-129-27506	Sewickley	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	8400
						Total Waste	8400
802	23653	#17	37-129-27507	Sewickley	Westmoreland	ADVANCED WASTE SERVICES	4020
802	23653	#17	37-129-27507	Sewickley	Westmoreland	FRANKLIN	9240
802	23653	#17	37-129-27507	Sewickley	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	146580
802	23653	#17	37-129-27507	Sewickley	Westmoreland	TUNNELTON LIQUIDS COMPANY	4620
						Total Waste	169060
802	24224	#15	37-129-27432	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	10920
						Total Waste	10920
802	24189	#6	37-129-27497	Sewickley	Westmoreland	FRANKLIN	12978
802	24189	#6	37-129-27497	Sewickley	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	141792
802	24189	#6	37-129-27497	Sewickley	Westmoreland	TUNNELTON LIQUIDS COMPANY	17220

Waste ID	Waste Type	Waste Name	Batch ID	Township	County	Disposal Unit	On-ES Amount
						Total Waste	171990
802	24838	#11	37-051-24208	Redstone	Fayette	ADVANCED WASTE SERVICES	25200
802	24838	#11	37-051-24208	Redstone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	166634
802	24838	#11	37-051-24208	Redstone	Fayette	TUNNELTON LIQUIDS COMPANY	10080
802	24838	#11	37-051-24208	Redstone	Fayette	WEST VIRGINIA OIL GATHERING	20916
						Total Waste	222810
802	20438	#6	37-051-23990	Redstone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	3570
802	20438	#6	37-051-23990	Redstone	Fayette	WEST VIRGINIA OIL GATHERING	4074
						Total Waste	7644
802	23391	#28	37-059-24620	Dunkard	Greene	ADVANCED WASTE SERVICES	4200
						Total Waste	4200
802	25758	Unit #9	37-129-28113	Rostraver	Westmoreland	ADVANCED WASTE SERVICES	48216
802	25758	Unit #9	37-129-28113	Rostraver	Westmoreland	FRANKLIN	47250
802	25758	Unit #9	37-129-28113	Rostraver	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	343854
802	25758	Unit #9	37-129-28113	Rostraver	Westmoreland	TUNNELTON LIQUIDS COMPANY	30996
						Total Waste	470316
802	24155	#7	37-059-24701	Jefferson	Greene	WEST VIRGINIA OIL GATHERING	3402
						Total Waste	3402
802	22699	#4	37-129-28870	Sewickley	Westmoreland	FRANKLIN	8400
802	22699	#4	37-129-28870	Sewickley	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	27804
						Total Waste	36204
802	23934	UT #13	37-129-27277	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	3150
						Total Waste	3150
802	23122		37-051-23727	Dunbar	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	2100
						Total Waste	2100
802	23273	#29A	37-059-24384	Dunkard	Greene	ADVANCED WASTE SERVICES	1890
						Total Waste	1890
802	23274	#30	37-059-24385	Dunkard	Greene	ADVANCED WASTE SERVICES	27090
802	23274	#30	37-059-24385	Dunkard	Greene	AOP CLEARWATER LLC	4032
802	23274	#30	37-059-24385	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	14700
802	23274	#30	37-059-24385	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	13440
						Total Waste	59262
802	23275	#31	37-059-24386	Dunkard	Greene	ADVANCED WASTE SERVICES	25200
802	23275	#31	37-059-24386	Dunkard	Greene	AOP CLEARWATER LLC	20160
802	23275	#31	37-059-24386	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	18690
802	23275	#31	37-059-24386	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	9198
						Total Waste	73248
802	23276	#32A	37-059-24387	Dunkard	Greene	ADVANCED WASTE SERVICES	15540
802	23276	#32A	37-059-24387	Dunkard	Greene	AOP CLEARWATER LLC	11508
802	23276	#32A	37-059-24387	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	1050
802	23276	#32A	37-059-24387	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	4536
						Total Waste	32634
802	23306	#33	37-059-24458	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	3528
						Total Waste	3528
802	23308	#35	37-059-24492	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	3192
						Total Waste	3192
802	23309	#36	37-059-24480	Dunkard	Greene	ADVANCED WASTE SERVICES	13230
802	23309	#36	37-059-24480	Dunkard	Greene	AOP CLEARWATER LLC	7476



Waste Type	Waste ID	Waste Name	Phone	Location	County	Disposal Site	Volume (Gals)
802	23309	#36	37-059-24480	Dunkard	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	4200
802	23309	#36	37-059-24480	Dunkard	Greene	WEST VIRGINIA OIL GATHERING	11298
						Total Waste	36204
802	23310	#37	37-059-24042	Dunkard	Greene	AOP CLEARWATER LLC	3990
						Total Waste	3990
802	25650	#1	37-129-27988	S Huntingdon	Westmoreland	ADVANCED WASTE SERVICES	4410
802	25650	#1	37-129-27988	S Huntingdon	Westmoreland	FRANKLIN	13314
802	25650	#1	37-129-27988	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	168084
802	25650	#1	37-129-27988	S Huntingdon	Westmoreland	TUNNELTON LIQUIDS COMPANY	11760
						Total Waste	197568
802	25651	#2	37-129-27989	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	8190
						Total Waste	8190
802	21795	#4	37-059-24904	Cumberland	Greene	ADVANCED WASTE SERVICES	85428
802	21795	#4	37-059-24904	Cumberland	Greene	AOP CLEARWATER LLC	83790
802	21795	#4	37-059-24904	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	4200
802	21795	#4	37-059-24904	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	78288
802	21795	#4	37-059-24904	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	51828
						Total Waste	303534
802	25769	#4	37-051-24266	Springhill	Fayette	ADVANCED WASTE SERVICES	56238
802	25769	#4	37-051-24266	Springhill	Fayette	FRANKLIN	5040
802	25769	#4	37-051-24266	Springhill	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	264084
802	25769	#4	37-051-24266	Springhill	Fayette	WEST VIRGINIA OIL GATHERING	7308
						Total Waste	338270
802	25853	#20	37-059-25362	Jefferson	Greene	ADVANCED WASTE SERVICES	56364
802	25853	#20	37-059-25362	Jefferson	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	124236
802	25853	#20	37-059-25362	Jefferson	Greene	WEST VIRGINIA OIL GATHERING	4788
						Total Waste	185388
802	24045	#10	37-059-24828	Jefferson	Greene	ADVANCED WASTE SERVICES	18060
802	24045	#10	37-059-24828	Jefferson	Greene	AOP CLEARWATER LLC	27048
802	24045	#10	37-059-24828	Jefferson	Greene	APPALACHIAN WATER SERVICES, LLC	4200
802	24045	#10	37-059-24828	Jefferson	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	23772
802	24045	#10	37-059-24828	Jefferson	Greene	WEST VIRGINIA OIL GATHERING	10568
						Total Waste	83748
802	22816	#8	37-059-24826	Jefferson	Greene	ADVANCED WASTE SERVICES	61488
802	22816	#8	37-059-24826	Jefferson	Greene	AOP CLEARWATER LLC	16926
802	22816	#8	37-059-24826	Jefferson	Greene	APPALACHIAN WATER SERVICES, LLC	4200
802	22816	#8	37-059-24826	Jefferson	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	31458
						Total Waste	114072
802	24040	#9	37-059-24827	Jefferson	Greene	ADVANCED WASTE SERVICES	79374
802	24040	#9	37-059-24827	Jefferson	Greene	AOP CLEARWATER LLC	44814
802	24040	#9	37-059-24827	Jefferson	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	25284
802	24040	#9	37-059-24827	Jefferson	Greene	WEST VIRGINIA OIL GATHERING	14112
						Total Waste	157584
802	25924	National Mines Corp. #26H	37-051-24365	Luzerne	Fayette	ADVANCED WASTE SERVICES	22890
802	25924	National Mines Corp. #26H	37-051-24365	Luzerne	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	4200
802	25924	National Mines Corp. #26H	37-051-24365	Luzerne	Fayette	WEST VIRGINIA OIL GATHERING	2562
						Total Waste	29652
802	23979	#8	37-051-23984	Washington	Fayette	FRANKLIN	13860
802	23979	#8	37-051-23984	Washington	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	312648
802	23979	#8	37-051-23984	Washington	Fayette	TUNNELTON LIQUIDS COMPANY	9240
						Total Waste	335748
802	24036	#9	37-051-24194	Washington	Fayette	ADVANCED WASTE SERVICES	3570
802	24036	#9	37-051-24194	Washington	Fayette	FRANKLIN	17052
802	24036	#9	37-051-24194	Washington	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	303196

Waste Type	Well ID	Well Name	Permit #	Location	County	Disposal Point	Total Volume
						Total Waste	328818
802	21230	#28	37-051-23452	Washington	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	2910
						Total Waste	2910
802	21231	#33	37-051-23573	Washington	Fayette	ADVANCED WASTE SERVICES	4200
802	21231	#33	37-051-23573	Washington	Fayette	FRANKLIN	4620
802	21231	#33	37-051-23573	Washington	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	182196
802	21231	#33	37-051-23573	Washington	Fayette	TUNNELTON LIQUIDS COMPANY	27090
						Total Waste	218106
802	23887	#36	37-051-23940	Washington	Fayette	ADVANCED WASTE SERVICES	4200
802	23887	#36	37-051-23940	Washington	Fayette	AOP CLEARWATER LLC	4494
802	23887	#36	37-051-23940	Washington	Fayette	FRANKLIN	12180
802	23887	#36	37-051-23940	Washington	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	105008
802	23887	#36	37-051-23940	Washington	Fayette	TUNNELTON LIQUIDS COMPANY	10920
						Total Waste	137802
802	24173	#4	37-129-27394	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	7140
						Total Waste	7140
802	22837	#2	37-051-23734	Dunbar	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	1932
						Total Waste	1932
802	23382	#7	37-059-24554	Cumberland	Greene	ADVANCED WASTE SERVICES	391356
802	23382	#7	37-059-24554	Cumberland	Greene	AOP CLEARWATER LLC	136584
802	23382	#7	37-059-24554	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	4830
802	23382	#7	37-059-24554	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	29400
802	23382	#7	37-059-24554	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	41202
						Total Waste	603972
802	23383	#8	37-059-24649	Cumberland	Greene	ADVANCED WASTE SERVICES	336230
802	23383	#8	37-059-24649	Cumberland	Greene	AOP CLEARWATER LLC	83622
802	23383	#8	37-059-24649	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	4830
802	23383	#8	37-059-24649	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	35994
802	23383	#8	37-059-24649	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	37086
						Total Waste	397782
802	23384	#9	37-059-25114	Cumberland	Greene	ADVANCED WASTE SERVICES	297686
802	23384	#9	37-059-25114	Cumberland	Greene	AOP CLEARWATER LLC	127376
802	23384	#9	37-059-25114	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	18230
802	23384	#9	37-059-25114	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	30282
802	23384	#9	37-059-25114	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	43764
						Total Waste	512148
802	24174	#20	37-129-27566	S Huntingdon	Westmoreland	ADVANCED WASTE SERVICES	4830
802	24174	#20	37-129-27566	S Huntingdon	Westmoreland	FRANKLIN	20916
802	24174	#20	37-129-27566	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	288624
802	24174	#20	37-129-27566	S Huntingdon	Westmoreland	TUNNELTON LIQUIDS COMPANY	32340
						Total Waste	346710
802	24175	#21	37-129-27567	S Huntingdon	Westmoreland	ADVANCED WASTE SERVICES	4620
802	24175	#21	37-129-27567	S Huntingdon	Westmoreland	APPALACHIAN WATER SERVICES, LLC	4620
802	24175	#21	37-129-27567	S Huntingdon	Westmoreland	FRANKLIN	12180
802	24175	#21	37-129-27567	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	266532
802	24175	#21	37-129-27567	S Huntingdon	Westmoreland	TUNNELTON LIQUIDS COMPANY	25410
						Total Waste	313362
802	24083		37-051-23960	German	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	3486
						Total Waste	3486
802	24834	#1	37-051-24252	Lower Tyrone	Fayette	ADVANCED WASTE SERVICES	3570
802	24834	#1	37-051-24252	Lower Tyrone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	16800
						Total Waste	20370

Waste ID	Waste No	Well Name	Permit No	Township	County	Disposal Point	Total Gallons
802	25197	Unit #3H	37-051-24257	Lower Tyrone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	12550
802	25197	Unit #3H	37-051-24257	Lower Tyrone	Fayette	WEST VIRGINIA OIL GATHERING	27090
						Total Waste	39640
802	22132	Unit #1	37-059-24229	Greene	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	27930
802	22132	Unit #1	37-059-24229	Greene	Greene	WEST VIRGINIA OIL GATHERING	25074
						Total Waste	53004
802	24824	Unit #27	37-051-24125	Luzerne	Fayette	ADVANCED WASTE SERVICES	85302
802	24824	Unit #27	37-051-24125	Luzerne	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	31920
802	24824	Unit #27	37-051-24125	Luzerne	Fayette	WEST VIRGINIA OIL GATHERING	16044
						Total Waste	133266
802	25027	Unit #30	37-051-24231	Washington	Fayette	ADVANCED WASTE SERVICES	24150
802	25027	Unit #30	37-051-24231	Washington	Fayette	FRANKLIN	12264
802	25027	Unit #30	37-051-24231	Washington	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	301980
802	25027	Unit #30	37-051-24231	Washington	Fayette	TUNNELTON LIQUIDS COMPANY	4620
						Total Waste	343014
802	24823	Unit #26	37-051-24124	Luzerne	Fayette	ADVANCED WASTE SERVICES	112434
802	24823	Unit #26	37-051-24124	Luzerne	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	40110
802	24823	Unit #26	37-051-24124	Luzerne	Fayette	WEST VIRGINIA OIL GATHERING	26082
						Total Waste	178626
802	25026	Unit #29	37-051-24249	Washington	Fayette	ADVANCED WASTE SERVICES	171906
802	25026	Unit #29	37-051-24249	Washington	Fayette	APPALACHIAN WATER SERVICES, LLC	8400
802	25026	Unit #29	37-051-24249	Washington	Fayette	FRANKLIN	29652
802	25026	Unit #29	37-051-24249	Washington	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	260736
802	25026	Unit #29	37-051-24249	Washington	Fayette	TUNNELTON LIQUIDS COMPANY	27552
802	25026	Unit #29	37-051-24249	Washington	Fayette	WEST VIRGINIA OIL GATHERING	11508
						Total Waste	509754
802	21626	Rich Farm #7	37-051-23451	Springhill	Fayette	WEST VIRGINIA OIL GATHERING	2562
						Total Waste	2562
802	23183	Unit #16H	37-125-23339	Robinson	Washington	HUNTERS	121758
802	23183	Unit #16H	37-125-23339	Robinson	Washington	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	5670
802	23183	Unit #16H	37-125-23339	Robinson	Washington	WEST VIRGINIA OIL GATHERING	1015602
						Total Waste	1143030
802	23184	Unit #17	37-125-22816	Robinson	Washington	HUNTERS	5250
802	23184	Unit #17	37-125-22816	Robinson	Washington	WEST VIRGINIA OIL GATHERING	89082
						Total Waste	94332
802	24920	Unit #19H	37-125-23334	Robinson	Washington	HUNTERS	49140
802	24920	Unit #19H	37-125-23334	Robinson	Washington	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	1890
802	24920	Unit #19H	37-125-23334	Robinson	Washington	WEST VIRGINIA OIL GATHERING	614541
						Total Waste	665574
802	25235	Unit #29	37-051-24208	Springhill	Fayette	ADVANCED WASTE SERVICES	30534
802	25235	Unit #29	37-051-24208	Springhill	Fayette	AOP CLEARWATER LLC	24738
802	25235	Unit #29	37-051-24208	Springhill	Fayette	APPALACHIAN WATER SERVICES, LLC	9030
802	25235	Unit #29	37-051-24208	Springhill	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	161490
802	25235	Unit #29	37-051-24208	Springhill	Fayette	WEST VIRGINIA OIL GATHERING	12054
						Total Waste	237846
802	24295	Unit #18	37-059-25314	Cumberland	Greene	ADVANCED WASTE SERVICES	158718
802	24295	Unit #18	37-059-25314	Cumberland	Greene	FRANKLIN	21550
802	24295	Unit #18	37-059-25314	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	122976
802	24295	Unit #18	37-059-25314	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	21126
						Total Waste	324450
802	25304	Unit #8	37-129-28084	Sewickley	Westmoreland	ADVANCED WASTE SERVICES	24528
802	25304	Unit #8	37-129-28084	Sewickley	Westmoreland	FRANKLIN	61320
802	25304	Unit #8	37-129-28084	Sewickley	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	514962
802	25304	Unit #8	37-129-28084	Sewickley	Westmoreland	TUNNELTON LIQUIDS COMPANY	4620

Waste ID	Well ID	Well Name	Permit #	Township	County	Disposal Site	Total Volume
802	23304	UT #8	37-129-28084	Sewickley	Westmoreland	WEST VIRGINIA OIL GATHERING	4914
						Total Waste	610344
802	23651	#7	37-129-27501	Sewickley	Westmoreland	ADVANCED WASTE SERVICES	4620
802	23651	#7	37-129-27501	Sewickley	Westmoreland	FRANKLIN	13550
802	23651	#7	37-129-27501	Sewickley	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	116550
802	23651	#7	37-129-27501	Sewickley	Westmoreland	TUNNELTON LIQUIDS COMPANY	4620
						Total Waste	137340
802	23700	#8	37-129-27431	Sewickley	Westmoreland	ADVANCED WASTE SERVICES	4620
802	23700	#8	37-129-27431	Sewickley	Westmoreland	FRANKLIN	19824
802	23700	#8	37-129-27431	Sewickley	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	120948
802	23700	#8	37-129-27431	Sewickley	Westmoreland	TUNNELTON LIQUIDS COMPANY	4620
						Total Waste	159012
802	23741	UT #4	37-125-23711	Deerston	Washington	ADVANCED WASTE SERVICES	157752
802	23741	UT #4	37-125-23711	Deerston	Washington	FRANKLIN	4620
802	23741	UT #4	37-125-23711	Deerston	Washington	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	118440
802	23741	UT #4	37-125-23711	Deerston	Washington	WEST VIRGINIA OIL GATHERING	37338
						Total Waste	318150
802	23650	#3	37-129-27316	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	4620
						Total Waste	4620
802	24756	Unit #7H	37-129-27982	Sewickley	Westmoreland	ADVANCED WASTE SERVICES	4652
802	24756	Unit #7H	37-129-27982	Sewickley	Westmoreland	FRANKLIN	4284
802	24756	Unit #7H	37-129-27982	Sewickley	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	143136
						Total Waste	152082
802	24895	Unit #8	37-129-27983	Sewickley	Westmoreland	ADVANCED WASTE SERVICES	4830
802	24895	Unit #8	37-129-27983	Sewickley	Westmoreland	FRANKLIN	2310
802	24895	Unit #8	37-129-27983	Sewickley	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	72282
						Total Waste	79422
802	22850	#2A	37-129-27331	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	4200
						Total Waste	4200
802	23165	#22	37-051-23687	Redstone	Fayette	ADVANCED WASTE SERVICES	22722
802	23165	#22	37-051-23687	Redstone	Fayette	AOP CLEARWATER LLC	17480
802	23165	#22	37-051-23687	Redstone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	4830
802	23165	#22	37-051-23687	Redstone	Fayette	WEST VIRGINIA OIL GATHERING	4158
						Total Waste	49140
802	23166	#23	37-051-23688	Redstone	Fayette	ADVANCED WASTE SERVICES	45570
802	23166	#23	37-051-23688	Redstone	Fayette	AOP CLEARWATER LLC	4746
802	23166	#23	37-051-23688	Redstone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	4200
802	23166	#23	37-051-23688	Redstone	Fayette	WEST VIRGINIA OIL GATHERING	44520
						Total Waste	99036
802	23926	UT #24	37-051-24062	Redstone	Fayette	ADVANCED WASTE SERVICES	67620
802	23926	UT #24	37-051-24062	Redstone	Fayette	AOP CLEARWATER LLC	43008
802	23926	UT #24	37-051-24062	Redstone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	15330
802	23926	UT #24	37-051-24062	Redstone	Fayette	WEST VIRGINIA OIL GATHERING	20936
						Total Waste	146874
802	22423	#21	37-129-27508	Salem	Westmoreland	FRANKLIN	3150
802	22423	#21	37-129-27508	Salem	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	2100
						Total Waste	5250
802	23852	W #1	37-051-24098	Henry Clay	Fayette	ADVANCED WASTE SERVICES	39690
802	23852	W #1	37-051-24098	Henry Clay	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	2100
802	23852	W #1	37-051-24098	Henry Clay	Fayette	WEST VIRGINIA OIL GATHERING	18690
						Total Waste	60480
802	24557	#5	37-129-28008	S Huntingdon	Westmoreland	ADVANCED WASTE SERVICES	36839



Well Type	Well ID	Well Name	Port of Call	Port of Origin	Quantity	Disposal Point	Total Volume
802	24557		37-129-28008	S Huntingdon	Westmoreland	FRANKLIN	30954
802	24557		37-129-28008	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	980328
802	24557		37-129-28008	S Huntingdon	Westmoreland	WEST VIRGINIA OIL GATHERING	4704
						Total Waste	132810
802	24152		37-059-24693	Jefferson	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	4200
						Total Waste	4200
802	24153		37-059-24694	Jefferson	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	11550
						Total Waste	11550
802	24154		37-059-25162	Jefferson	Greene	ADVANCED WASTE SERVICES	60398
807	24154		37-059-25162	Jefferson	Greene	FRANKLIN	12180
802	24154		37-059-25162	Jefferson	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	217228
802	24154		37-059-25162	Jefferson	Greene	WEST VIRGINIA OIL GATHERING	15456
						Total Waste	305760
802	22847		37-059-24394	Cumberland	Greene	ADVANCED WASTE SERVICES	24570
802	22847		37-059-24394	Cumberland	Greene	AOP CLEARWATER LLC	28854
802	22847		37-059-24394	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	4200
802	22847		37-059-24394	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	4200
802	22847		37-059-24394	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	16044
						Total Waste	77868
802	25887		37-051-24284	Franklin	Fayette	ADVANCED WASTE SERVICES	8064
802	25887		37-051-24284	Franklin	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	8568
						Total Waste	16632
802	23981	#5	37-051-23926	Redstone	Fayette	ADVANCED WASTE SERVICES	6300
802	23981	#5	37-051-23926	Redstone	Fayette	HUNTERS	3360
802	23981	#5	37-051-23926	Redstone	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	170520
802	23981	#5	37-051-23926	Redstone	Fayette	TUNNELTON LIQUIDS COMPANY	23100
802	23981	#5	37-051-23926	Redstone	Fayette	WEST VIRGINIA OIL GATHERING	4746
						Total Waste	203026
802	24327	#3	37-051-24009	German	Fayette	ADVANCED WASTE SERVICES	111132
802	24327	#3	37-051-24009	German	Fayette	AOP CLEARWATER LLC	63798
802	24327	#3	37-051-24009	German	Fayette	APPALACHIAN WATER SERVICES, LLC	4200
802	24327	#3	37-051-24009	German	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	28140
802	24327	#3	37-051-24009	German	Fayette	WEST VIRGINIA OIL GATHERING	35616
						Total Waste	242886
802	24430	#2	37-059-25161	Cumberland	Greene	ADVANCED WASTE SERVICES	114576
802	24430	#2	37-059-25161	Cumberland	Greene	FRANKLIN	24864
802	24430	#2	37-059-25161	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	444780
802	24430	#2	37-059-25161	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	8316
						Total Waste	592536
802	25389	#1	37-129-28123	Sewickley	Westmoreland	ADVANCED WASTE SERVICES	17640
802	25389	#1	37-129-28123	Sewickley	Westmoreland	FRANKLIN	13860
802	25389	#1	37-129-28123	Sewickley	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	15918
						Total Waste	47418
802	24047	#3	37-059-25155	Cumberland	Greene	ADVANCED WASTE SERVICES	78876
802	24047	#3	37-059-25155	Cumberland	Greene	AOP CLEARWATER LLC	26124
802	24047	#3	37-059-25155	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	3570
802	24047	#3	37-059-25155	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	49644
802	24047	#3	37-059-25155	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	40614
						Total Waste	198828
802	23359	#9	37-059-24820	Cumberland	Greene	ADVANCED WASTE SERVICES	189882
802	23359	#9	37-059-24820	Cumberland	Greene	AOP CLEARWATER LLC	80766
802	23359	#9	37-059-24820	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	4830
802	23359	#9	37-059-24820	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	33978
802	23359	#9	37-059-24820	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	51282
						Total Waste	360738



WASH TYPE	WELLID	WELLNAME	PERMIT	LOWWATER	STATUS	Disposal Point	TRANSFERS
802	205345		Motor Station	Deerston	Washington	ADVANCED WASTE SERVICES	1470
802	205345		Motor Station	Deerston	Washington	PA BRINE TRT - JOSEPHINE PLT -INDIANA CO	840
802	205345		Motor Station	Deerston	Washington	WEST VIRGINIA OIL GATHERING	1344
						Total Waste	3654
802	23528	#16	37-059-24844	Cumberland	Greene	ADVANCED WASTE SERVICES	99204
802	23528	#16	37-059-24844	Cumberland	Greene	AOP CLEARWATER LLC	65394
802	23528	#16	37-059-24844	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT -INDIANA CO	25242
802	23528	#16	37-059-24844	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	43596
						Total Waste	233436
802	23530	#18	37-059-24708	Cumberland	Greene	ADVANCED WASTE SERVICES	39648
802	23530	#18	37-059-24708	Cumberland	Greene	AOP CLEARWATER LLC	47376
802	23530	#18	37-059-24708	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	4200
802	23530	#18	37-059-24708	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT -INDIANA CO	26250
802	23530	#18	37-059-24708	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	45738
						Total Waste	163212
802	22270	#19A	37-059-24709	Cumberland	Greene	ADVANCED WASTE SERVICES	54894
802	22270	#19A	37-059-24709	Cumberland	Greene	AOP CLEARWATER LLC	38724
802	22270	#19A	37-059-24709	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT -INDIANA CO	29904
802	22270	#19A	37-059-24709	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	27510
						Total Waste	151032
802	23673	#20	37-059-24845	Cumberland	Greene	ADVANCED WASTE SERVICES	67158
802	23673	#20	37-059-24845	Cumberland	Greene	AOP CLEARWATER LLC	39396
802	23673	#20	37-059-24845	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT -INDIANA CO	23226
802	23673	#20	37-059-24845	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	23478
						Total Waste	153258
802	24739	#23	37-059-25035	Cumberland	Greene	ADVANCED WASTE SERVICES	82824
802	24739	#23	37-059-25035	Cumberland	Greene	AOP CLEARWATER LLC	31902
802	24739	#23	37-059-25035	Cumberland	Greene	APPALACHIAN WATER SERVICES, LLC	3990
802	24739	#23	37-059-25035	Cumberland	Greene	PA BRINE TRT - JOSEPHINE PLT -INDIANA CO	17640
802	24739	#23	37-059-25035	Cumberland	Greene	WEST VIRGINIA OIL GATHERING	43050
						Total Waste	179466
802	24740	#24	37-059-24998	Jefferson	Greene	ADVANCED WASTE SERVICES	117474
802	24740	#24	37-059-24998	Jefferson	Greene	AOP CLEARWATER LLC	53676
802	24740	#24	37-059-24998	Jefferson	Greene	APPALACHIAN WATER SERVICES, LLC	3990
802	24740	#24	37-059-24998	Jefferson	Greene	PA BRINE TRT - JOSEPHINE PLT -INDIANA CO	28644
802	24740	#24	37-059-24998	Jefferson	Greene	WEST VIRGINIA OIL GATHERING	36624
						Total Waste	240408
802	26048	Unit #20H	37-129-28264	S Huntington	Westmoreland	ADVANCED WASTE SERVICES	3276
802	26048	Unit #20H	37-129-28264	S Huntington	Westmoreland	FRANKLIN	4494
802	26048	Unit #20H	37-129-28264	S Huntington	Westmoreland	PA BRINE TRT - JOSEPHINE PLT -INDIANA CO	8484
802	26048	Unit #20H	37-129-28264	S Huntington	Westmoreland	WEST VIRGINIA OIL GATHERING	3738
						Total Waste	19992
802	24410	#27	37-051-24247	Springhill	Fayette	ADVANCED WASTE SERVICES	73290
802	24410	#27	37-051-24247	Springhill	Fayette	AOP CLEARWATER LLC	31248
802	24410	#27	37-051-24247	Springhill	Fayette	FRANKLIN	13020
802	24410	#27	37-051-24247	Springhill	Fayette	PA BRINE TRT - JOSEPHINE PLT -INDIANA CO	154308
802	24410	#27	37-051-24247	Springhill	Fayette	WEST VIRGINIA OIL GATHERING	15330
						Total Waste	287196
802	25855	#5H	37-125-23962	Deerston	Washington	ADVANCED WASTE SERVICES	12852
802	25855	#5H	37-125-23962	Deerston	Washington	PA BRINE TRT - JOSEPHINE PLT -INDIANA CO	6426
802	25855	#5H	37-125-23962	Deerston	Washington	WEST VIRGINIA OIL GATHERING	4872
						Total Waste	24150
802	23267	#3	37-051-23989	Nicholson	Fayette	ADVANCED WASTE SERVICES	103962
802	23267	#3	37-051-23989	Nicholson	Fayette	APPALACHIAN WATER SERVICES, LLC	7560
802	23267	#3	37-051-23989	Nicholson	Fayette	FRANKLIN	4620
802	23267	#3	37-051-23989	Nicholson	Fayette	PA BRINE TRT - JOSEPHINE PLT -INDIANA CO	142800
802	23267	#3	37-051-23989	Nicholson	Fayette	WEST VIRGINIA OIL GATHERING	61530

Waste Type	Waste ID	Waste Name	Part #	Manufacturer	County	Disposal Point	Total Gallons
						Total Waste	319872
802	25247	Unit #4	37-051-24216	Nicholson	Fayette	ADVANCED WASTE SERVICES	207648
802	25247	Unit #4	37-051-24216	Nicholson	Fayette	ADP CLEARWATER LLC	71316
802	25247	Unit #4	37-051-24216	Nicholson	Fayette	APPALACHIAN WATER SERVICES, LLC	6720
802	25247	Unit #4	37-051-24216	Nicholson	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	101682
802	25247	Unit #4	37-051-24216	Nicholson	Fayette	WEST VIRGINIA OIL GATHERING	67614
						Total Waste	448980
802	24177	#3	37-129-27568	S Huntingdon	Westmoreland	ADVANCED WASTE SERVICES	4200
802	24177	#3	37-129-27568	S Huntingdon	Westmoreland	FRANKLIN	12810
802	24177	#3	37-129-27568	S Huntingdon	Westmoreland	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	125706
802	24177	#3	37-129-27568	S Huntingdon	Westmoreland	TUNNELTON LIQUIDS COMPANY	7560
						Total Waste	150276
802	24507	Unit #1	37-051-24200	North Union	Fayette	ADVANCED WASTE SERVICES	11760
802	24507	Unit #1	37-051-24200	North Union	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	503244
						Total Waste	515004
802	22153	Unit #2	37-051-24052	Springhill	Fayette	ADVANCED WASTE SERVICES	42966
802	22153	Unit #2	37-051-24052	Springhill	Fayette	ADP CLEARWATER LLC	51282
802	22153	Unit #2	37-051-24052	Springhill	Fayette	PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	483174
802	22153	Unit #2	37-051-24052	Springhill	Fayette	WEST VIRGINIA OIL GATHERING	44394
						Total Waste	186816
						ADVANCED WASTE SERVICES	10366790
						ADP CLEARWATER LLC	3167766
						APPALACHIAN WATER SERVICES, LLC	263004
						D & L Energy Inc.	12180
						FRANKLIN	1130220
						HUNTERS	278922
						PA BRINE TRT - JOSEPHINE PLT - INDIANA CO	18071802
						PATRUOT	10710
						TUNNELTON LIQUIDS COMPANY	485562
						WEAVER TOWN EYN GROUP	3790
						WEST VIRGINIA OIL GATHERING	6974058
						Facilities Grand Total	40764794

## **Exhibit 2C**



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WASTE MANAGEMENT

**FORM 26R**  
**CHEMICAL ANALYSIS OF RESIDUAL WASTE**  
**ANNUAL REPORT BY THE GENERATOR**

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 26R, reference the item number and identify the date prepared. The date on attached sheets needs to match the date noted below.					<b>DEP USE ONLY</b> Date Received & General Notes	
General Reference 287.54						
Date Prepared/Revised						
SECTION A - CLIENT/GENERATOR OF THE WASTE INFORMATION						
Company Name Atlas Resources, LLC						
If a Subsidiary, Name of Parent Company					EPA Generator ID#	
Company Mailing Address Line 1 800 Mountain View Drive			Company Mailing Address Line 2			
Company Address Last Line - City Smithfield			State PA	Zip+4 15478+8902	Phone 724-564-2360	Ext 137
Company Contact Last Name Butchko		First Name Jenny	MI L		Suffix	
Municipality Georges			County Fayette			
Contact Phone 724-564-2360		Ext 137	Contact Email Address jbutchko@atlasenergy.com			
Is the waste generated at the Company Mailing Address (noted above)?						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If 'No', describe location of waste generation and storage. See attachment						
Municipality Georges		County Fayette		State PA		
SECTION B - WASTE DESCRIPTION						
Residual Waste Code 804	Residual Waste Code Description Frac Fluids		Amount See attachment	Unit of Measure <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton		Time Frame 2010  <input type="checkbox"/> One Time
1. GENERAL PROPERTIES						
a. pH Range    n/a    to    n/a    (based on analyses or knowledge)						
b. Physical State <input checked="" type="checkbox"/> Liquid Waste (EPA Method 9095) <input type="checkbox"/> Solid (EPA Method 9095) <input type="checkbox"/> Gas (ambient temperature & pressure)						
c. Physical Appearance    Color    Clear    Odor    None Number of Solid or Liquid Phases of Separation Describe each phase of separation.						
* 2. CHEMICAL ANALYSIS ATTACHMENTS						
a. The results of a detailed chemical characterization of the waste, as described in the instructions, is attached.						<input type="checkbox"/> Yes <input type="checkbox"/> No
b. A detailed description of the waste sampling method is attached.						<input type="checkbox"/> Yes <input type="checkbox"/> No
c. The quality assurance/quality control procedures employed by the laboratory(ies) is attached.						<input type="checkbox"/> Yes <input type="checkbox"/> No
d. The results of the hazardous waste determination is attached.						<input type="checkbox"/> Yes <input type="checkbox"/> No
e. If applicable, a detailed explanation supporting use of generator knowledge in lieu of actual chemical analysis is attached.						<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

\* Characterization is on file at the DEP that refers to the county in which the stream was generated.

## 3. PROCESS DESCRIPTION &amp; SCHEMATIC ATTACHMENTS

- a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☒ Yes ☐ No *See Attachment*
- b. A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☐ Yes ☒ No
- c. If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached. ☐ Yes ☐ No ☒ N/A

## SECTION C. MANAGEMENT OF RESIDUAL WASTE

## 1. PROCESSING OR DISPOSAL FACILITY(IES)

The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.

- a. Solid waste permit number(s) for processing or disposal facility being utilized.  
PAR0000291
- b. Facility Name Advanced Waste Services  
Address Line 1 1001 Sampson Street  
Address Line 1 \_\_\_\_\_  
Address City State ZIP New Castle PA 16101  
Municipality City of New Castle County Lawrence
- c. Facility Contact Name Anthony Cialella  
Title General Manager  
Phone 724-657-8777 Email Address avialella@advancedwasteservices.com
- d. Volume of waste shipped to processing or disposal facility in the previous year.  
☐ cu yd ☒ gal ☐ lb ☐ ton (check one)
- a. Solid waste permit number(s) for processing or disposal facility being utilized.  
253723
- b. Facility Name Appalachian Water Services, LLC  
Address Line 1 195 Enterprise Lane  
Address Line 1 \_\_\_\_\_  
Address City State ZIP Connellsville PA 15425  
Municipality Masontown County Fayette
- c. Facility Contact Name George Milne  
Title Supervisor  
Phone 724-583-2081 Email Address georgem@shallenbergerconstruction.com
- d. Volume of waste shipped to processing or disposal facility in the previous year.  
☐ cu yd ☒ gal ☐ lb ☐ ton (check one)

## 2. BENEFICIAL USE

- a. Has the waste been approved for beneficial use? ☐ Yes ☐ No  
If "Yes", list the general permit number or approval number.
- b. Volume of waste beneficially used in the previous year.  
☐ cu yd ☐ gal ☐ lb ☐ ton (check one)



## 3. PROCESS DESCRIPTION &amp; SCHEMATIC ATTACHMENTS

- a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☒ Yes ☐ No
- b. A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☐ Yes ☐ No
- c. If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached. ☐ Yes ☐ No ☒ N/A

## SECTION C: MANAGEMENT OF RESIDUAL WASTE

## 1. PROCESSING OR DISPOSAL FACILITY(IES)

The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.

- a. Solid waste permit number(s) for processing or disposal facility being utilized.  
3262

b. Facility Name Clinton SWIW #2  
Address Line 1 P.O. Box 367  
Address Line 1  
Address City State ZIP Garretttsville OH 44231  
Municipality Freedom County Portage

c. Facility Contact Name Dave Ballentine  
Title President  
Phone 330-221-6681 Email Address davjball@yahoo.com

- d. Volume of waste shipped to processing or disposal facility in the previous year.  
☐ cu yd ☒ gal ☐ lb ☐ ton (check one)

- a. Solid waste permit number(s) for processing or disposal facility being utilized.  
PA0101508

b. Facility Name Franklin  
Address Line 1 5148 US 322  
Address Line 1  
Address City State ZIP Franklin PA 16323  
Municipality Sandycreek County Venango

c. Facility Contact Name Elton DeLong  
Title Operations Manager  
Phone 814-437-3593 Email Address sparky@pabriner.com

- d. Volume of waste shipped to processing or disposal facility in the previous year.  
☐ cu yd ☒ gal ☐ lb ☐ ton (check one)

## 2. BENEFICIAL USE

- a. Has the waste been approved for beneficial use? ☐ Yes ☐ No

If "Yes", list the general permit number or approval number.

- b. Volume of waste beneficially used in the previous year.  
☐ cu yd ☐ gal ☐ lb ☐ ton (check one)

3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS			
a.	A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No
c.	If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
SECTION C: MANAGEMENT OF RESIDUAL WASTE			
1. PROCESSING OR DISPOSAL FACILITY(IES)			
The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA0095443		
b.	Facility Name	Hart Resource Tech Pit	
	Address Line 1	P.O. Box 232 TR 110 West	
	Address Line 1		
	Address City State ZIP	Creekside PA 15732	
	Municipality	Washington County	Indiana
c.	Facility Contact Name	Becky Snyder	
	Title	Operations Manager	
	Phone	724-349-8600	Email Address hart8600@comcast.net
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
a.	Solid waste permit number(s) for processing or disposal facility being utilized. SWIW #5 34-121-2-3995		
b.	Facility Name	Hunters	
	Address Line 1	P.O. Box 430	
	Address Line 1		
	Address City State ZIP	Reno OH 45773	
	Municipality	Jackson County	Noble
c.	Facility Contact Name	Kirk Trosclair	
	Title	Senior VP of Equipment	
	Phone	740-374-2940 x 160	Email Address ktrosclair@magnumhunterresources.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
2. BENEFICIAL USE			
a.	Has the waste been approved for beneficial use? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", list the general permit number or approval number.		
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		

## 3. PROCESS DESCRIPTION &amp; SCHEMATIC ATTACHMENTS

- a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☒ Yes ☐ No
- b. A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☐ Yes ☐ No
- c. If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached. ☐ Yes ☐ No ☒ N/A

## SECTION C. MANAGEMENT OF RESIDUAL WASTE

## 1. PROCESSING OR DISPOSAL FACILITY (IES)

The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.

a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA0095273			
b.	Facility Name	PA Brine Trt-Josephine Plt		
	Address Line 1	5148 US 322		
	Address Line 1			
	Address City State ZIP	Franklin	PA	16323
	Municipality	Sandycreek	County	Venango
c.	Facility Contact Name	Elton DeLong		
	Title	Operations Manager		
	Phone	814-437-3593	Email Address	spaeky@pabriner.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. 101674			
b.	Facility Name	McCutcheon Enterprises, Inc.		
	Address Line 1	250 Park Road		
	Address Line 1			
	Address City State ZIP	Apollo	PA	15613
	Municipality	Alleghney	County	Westmoreland
c.	Facility Contact Name	Mack Flood		
	Title	Business Development Engineer		
	Phone	724-568-3623	Email Address	mackf@completewastemgmt.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)			
2. BENEFICIAL USE				
a.	Has the waste been approved for beneficial use? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", list the general permit number or approval number.			
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)			

3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS			
a.	A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No
c.	If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
SECTION C: MANAGEMENT OF RESIDUAL WASTE			
1. PROCESSING OR DISPOSAL FACILITY(IES)			
The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. 4355		
b.	Facility Name	Miller & Co. #3	
	Address Line 1	P.O. Box 367	
	Address Line 1		
	Address City State ZIP	Garrettsville OH 44231	
	Municipality	Freedom	County Portage
c.	Facility Contact Name	Dave Ballentine	
	Title	President	
	Phone	330-221-6681	Email Address davjball@yahoo.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
a.	Solid waste permit number(s) for processing or disposal facility being utilized. 748163		
b.	Facility Name	Patriot Water Treatment, LLC	
	Address Line 1	7716 Depot Road Unit #1	
	Address Line 1		
	Address City State ZIP	Lisbon OH 44432	
	Municipality	City of Warren	County Warren
c.	Facility Contact Name	Jeff Faloba	
	Title	CEO	
	Phone	330-222-1274	Email Address jefffaloba@yahoo.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
2. BENEFICIAL USE			
a.	Has the waste been approved for beneficial use?		<input type="checkbox"/> Yes <input type="checkbox"/> No
	If "Yes", list the general permit number or approval number.		
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		

3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS			
a.	A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No
c.	If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
SECTION C. MANAGEMENT OF RESIDUAL WASTE			
1. PROCESSING OR DISPOSAL FACILITY(IES)			
The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA0091472		
b.	Facility Name	Tunnelton Liquids Company	
	Address Line 1	P.O. Box 667	
	Address Line 1		
	Address City State ZIP	Clarion PA	16214
	Municipality	Clarion Borough	County Clarion
c.	Facility Contact Name	Paula Wolbort	
	Title	Accountant	
	Phone	814-226-5016	Email Address pwolbort@usachoice.net
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA0102784		
b.	Facility Name	Waste Treatment Corporation	
	Address Line 1	341 West Harmer Street	
	Address Line 1		
	Address City State ZIP	Warren PA	16365
	Municipality	City of Warren	County Warren
c.	Facility Contact Name	Eric Johnson	
	Title	Plant Supervisor	
	Phone	724-228-9674	Email Address accounting@waste-treatment.net
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
2. BENEFICIAL USE			
a.	Has the waste been approved for beneficial use? If "Yes", list the general permit number or approval number.		<input type="checkbox"/> Yes <input type="checkbox"/> No
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		



## 3. PROCESS DESCRIPTION &amp; SCHEMATIC ATTACHMENTS

- a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☒ Yes ☐ No
- b. A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☐ Yes ☒ No
- c. If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached. ☐ Yes ☐ No ☒ N/A

## SECTION C. MANAGEMENT OF RESIDUAL WASTE

## 1. PROCESSING OR DISPOSAL FACILITY(IES)

The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.

- a. Solid waste permit number(s) for processing or disposal facility being utilized.  
WV3416729395
- b. Facility Name West Virginia Oil Gathering  
Address Line 1 157 Lower Eureka Road  
Address Line 1 \_\_\_\_\_  
Address City State ZIP Saint Mary's WV 26170  
Municipality \_\_\_\_\_ County Pleasant
- c. Facility Contact Name Bob Gerst  
Title State Manager  
Phone 304-665-2461 Email Address bgerst@wvogaop.com
- d. Volume of waste shipped to processing or disposal facility in the previous year.  
☐ cu yd ☒ gal ☐ lb ☐ ton (check one)
- a. Solid waste permit number(s) for processing or disposal facility being utilized.
- b. Facility Name \_\_\_\_\_  
Address Line 1 \_\_\_\_\_  
Address Line 1 \_\_\_\_\_  
Address City State ZIP \_\_\_\_\_  
Municipality \_\_\_\_\_ County \_\_\_\_\_
- c. Facility Contact Name \_\_\_\_\_  
Title \_\_\_\_\_  
Phone \_\_\_\_\_ Email Address \_\_\_\_\_
- d. Volume of waste shipped to processing or disposal facility in the previous year.  
☐ cu yd ☒ gal ☐ lb ☐ ton (check one)

## 2. BENEFICIAL USE

- a. Has the waste been approved for beneficial use? ☐ Yes ☐ No  
If "Yes", list the general permit number or approval number.
- b. Volume of waste beneficially used in the previous year.  
☐ cu yd ☐ gal ☐ lb ☐ ton (check one)

## SECTION D - CERTIFICATION

I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment.

Check the following, if applicable:

- ☐ I certify the information required in Section B-1, General Properties was supplied to the Department for the year \_\_\_\_\_ and has not changed.

Form Submitted:

☐ Form 26R

☐ Other (specify) \_\_\_\_\_

Date Submitted: \_\_\_\_\_

- ☐ I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year \_\_\_\_\_ and has not changed.

Form Submitted:

☐ Form 26R

☐ Other (specify) \_\_\_\_\_

Date Submitted: \_\_\_\_\_

- ☐ I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year \_\_\_\_\_ and has not changed.

Form Submitted:

☐ Form 26R

☐ Other (specify) \_\_\_\_\_

Date Submitted: \_\_\_\_\_

Name of Responsible Official

*Christine Walton*

Title

*ETS Director*

Signature

*Christine Walton*

Date

*3/11/11*

### 3. Process Description & Schematic Attachments

- a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.
  - Frac fluids – Water that has been generated during the completion process.

WASTE TYPE	WELL ID	WELL NAME	PERMIT #	TOWNSHIP	COUNTY	DISPOSAL POINT	TOTAL GALLONS
804	23938	[REDACTED] #3	37-129-28012	S. Huntingdon	Westmoreland	Advanced Waste Services	213654
804	23938	[REDACTED] #3	37-129-28012	S. Huntingdon	Westmoreland	Franklin	209790
804	23938	[REDACTED] #3	37-129-28012	S. Huntingdon	Westmoreland	PA Brine Trt-Josephine Plt	9870
804	23938	[REDACTED] #3	37-129-28012	S. Huntingdon	Westmoreland	McCutcheon Enterprises, Inc.	1060227
804	23938	[REDACTED] #3	37-129-28012	S. Huntingdon	Westmoreland	Tunnelton Liquids Company	176610
						TOTAL WASTE	1670151
804	25901	[REDACTED] #8H	37-125-23950	Amwell	Washington	Advanced Waste Services	94920
804	25901	[REDACTED] #8H	37-125-23950	Amwell	Washington	Appalachian Water Services, LLC	136290
804	25901	[REDACTED] #8H	37-125-23950	Amwell	Washington	PA Brine Trt-Josephine Plt	25620
804	25901	[REDACTED] #8H	37-125-23950	Amwell	Washington	Tunnelton Liquids Company	170394
						TOTAL WASTE	427224
804	25958	[REDACTED] #9H	37-125-23951	Amwell	Washington	Appalachian Water Services, LLC	413448
804	25958	[REDACTED] #9H	37-125-23951	Amwell	Washington	PA Brine Trt-Josephine Plt	19530
804	25958	[REDACTED] #9H	37-125-23951	Amwell	Washington	Tunnelton Liquids Company	28770
						TOTAL WASTE	461748
804	24403	[REDACTED] 25	37-051-24272	Nicholson	Fayette	Advanced Waste Services	213318
804	24403	[REDACTED] 25	37-051-24272	Nicholson	Fayette	Clinton #2	26250
804	24403	[REDACTED] 25	37-051-24272	Nicholson	Fayette	Franklin	149310
804	24403	[REDACTED] 25	37-051-24272	Nicholson	Fayette	McCutcheon Enterprises, Inc.	334698
804	24403	[REDACTED] 25	37-051-24272	Nicholson	Fayette	Miller & Co #3	115500
804	24403	[REDACTED] 25	37-051-24272	Nicholson	Fayette	Tunnelton Liquids Company	79170
						TOTAL WASTE	918246
804	24929	[REDACTED] #45H	37-059-25271	Greene	Greene	Advanced Waste Services	175350
804	24929	[REDACTED] #45H	37-059-25271	Greene	Greene	Appalachian Water Services, LLC	931140
804	24929	[REDACTED] #45H	37-059-25271	Greene	Greene	Franklin	9240
804	24929	[REDACTED] #45H	37-059-25271	Greene	Greene	Tunnelton Liquids Company	9240
						TOTAL WASTE	1124970
804	24930	[REDACTED] #46H	37-059-25270	Greene	Greene	Appalachian Water Services, LLC	505890
						Franklin	13860
						TOTAL WASTE	519750
804	25037	[REDACTED] #53	37-059-25244	Greene	Greene	Advanced Waste Services	2310

804	25037	[REDACTED]	#53	37-059-25244	Greene	Greene	Appalachian Water Services, LLC	478128
804	25037	[REDACTED]	#53	37-059-25244	Greene	Greene	PA Brine Trt-Josephine Plt	25200
804	25037	[REDACTED]	#53	37-059-25244	Greene	Greene	Tunnelton Liquids Company	14595
							TOTAL WASTE	520233
804	25038	[REDACTED]	#54H	37-059-25272	Greene	Greene	Advanced Waste Services	183918
804	25038	[REDACTED]	#54H	37-059-25272	Greene	Greene	Appalachian Water Services, LLC	597996
804	25038	[REDACTED]	#54H	37-059-25272	Greene	Greene	Franklin	13860
804	25038	[REDACTED]	#54H	37-059-25272	Greene	Greene	PA Brine Trt-Josephine Plt	15078
							TOTAL WASTE	810852
804	21729	[REDACTED]	#8	37-051-24189	Washington	Fayette	Advanced Waste Services	28686
							TOTAL WASTE	28686
804	25668	[REDACTED]	Unit #5H	37-051-24311	Redstone	Fayette	Advanced Waste Services	50400
804	25668	[REDACTED]	Unit #5H	37-051-24311	Redstone	Fayette	Appalachian Water Services, LLC	336084
							TOTAL WASTE	386484
804	25670	[REDACTED]	Unit #7H	37-051-24313	Redstone	Fayette	Advanced Waste Services	34860
804	25670	[REDACTED]	Unit #7H	37-051-24313	Redstone	Fayette	Appalachian Water Services, LLC	257418
							TOTAL WASTE	292278
804	25583	[REDACTED]	#11	37-059-25223	Cumberland	Greene	Franklin	24990
804	25583	[REDACTED]	#11	37-059-25223	Cumberland	Greene	PA Brine Trt-Josephine Plt	20790
804	25583	[REDACTED]	#11	37-059-25223	Cumberland	Greene	McCutcheon Enterprises, Inc.	17640
804	25583	[REDACTED]	#11	37-059-25223	Cumberland	Greene	Tunnelton Liquids Company	2520
							TOTAL WASTE	65940
804	25584	[REDACTED]	12H	37-059-25227	Cumberland	Greene	Advanced Waste Services	7140
804	25584	[REDACTED]	12H	37-059-25227	Cumberland	Greene	Franklin	9660
804	25584	[REDACTED]	12H	37-059-25227	Cumberland	Greene	PA Brine Trt-Josephine Plt	23940
804	25584	[REDACTED]	12H	37-059-25227	Cumberland	Greene	Tunnelton Liquids Company	8820
							TOTAL WASTE	49560
804	22831	[REDACTED]	14	37-051-24220	Dunbar	Fayette	Advanced Waste Services	189861
804	22831	[REDACTED]	14	37-051-24220	Dunbar	Fayette	Appalachian Water Services, LLC	528738
804	22831	[REDACTED]	14	37-051-24220	Dunbar	Fayette	Franklin	157290
804	22831	[REDACTED]	14	37-051-24220	Dunbar	Fayette	PA Brine Trt-Josephine Plt	19530



804	22831	#14	37-051-24220	Dunbar	Fayette	Tunnelton Liquids Company	67830
						TOTAL WASTE	963249
804	26018	#6	37-059-25385	Greene	Greene	Advanced Waste Services	226590
804	26018	#6	37-059-25385	Greene	Greene	Appalachian Water Services, LLC	1286418
804	26018	#6	37-059-25385	Greene	Greene	Franklin	51240
804	26018	#6	37-059-25385	Greene	Greene	PA Brine Trt-Josephine Plt	54390
804	26018	#6	37-059-25385	Greene	Greene	Tunnelton Liquids Company	45150
804	26018	#6	37-059-25385	Greene	Greene	West Virginia Oil Gathering	3780
						TOTAL WASTE	1667568
804	22794	Consol/USX #30	37-059-25274	Monongahela	Greene	Advanced Waste Services	74508
804	22794	Consol/USX #30	37-059-25274	Monongahela	Greene	Appalachian Water Services, LLC	961170
804	22794	Consol/USX #30	37-059-25274	Monongahela	Greene	Tunnelton Liquids Company	22260
						TOTAL WASTE	1057938
804	25857	Consol/USX #90	37-059-25334	Monongahela	Greene	Advanced Waste Services	255108
804	25857	Consol/USX #90	37-059-25334	Monongahela	Greene	Appalachian Water Services, LLC	715806
804	25857	Consol/USX #90	37-059-25334	Monongahela	Greene	Clinton #2	4410
804	25857	Consol/USX #90	37-059-25334	Monongahela	Greene	Franklin	184800
804	25857	Consol/USX #90	37-059-25334	Monongahela	Greene	McCutcheon Enterprises, Inc.	128226
804	25857	Consol/USX #90	37-059-25334	Monongahela	Greene	Miller & Co #3	21210
804	25857	Consol/USX #90	37-059-25334	Monongahela	Greene	Tunnelton Liquids Company	43260
						TOTAL WASTE	1352820
804	24893	#10H	37-125-23392	Hopewell	Washington	Advanced Waste Services	750750
804	24893	#10H	37-125-23392	Hopewell	Washington	Franklin	6510
804	24893	#10H	37-125-23392	Hopewell	Washington	Miller & Co #3	4200
804	24893	#10H	37-125-23392	Hopewell	Washington	West Virginia Oil Gathering	84924
						TOTAL WASTE	846384
804	24860	#12H	37-125-23393	Hopewell	Washington	Advanced Waste Services	532140
804	24860	#12H	37-125-23393	Hopewell	Washington	Appalachian Water Services, LLC	73248
804	24860	#12H	37-125-23393	Hopewell	Washington	Franklin	4620
804	24860	#12H	37-125-23393	Hopewell	Washington	Miller & Co #3	63840
804	24860	#12H	37-125-23393	Hopewell	Washington	Tunnelton Liquids Company	4620
804	24860	#12H	37-125-23393	Hopewell	Washington	West Virginia Oil Gathering	126882
						TOTAL WASTE	805350

804	24861	[REDACTED]	14	37-125-23385	Hopewell	Washington	Advanced Waste Services	197190
804	24861	[REDACTED]	14	37-125-23385	Hopewell	Washington	Franklin	28140
804	24861	[REDACTED]	14	37-125-23385	Hopewell	Washington	Miller & Co #3	4410
804	24861	[REDACTED]	14	37-125-23385	Hopewell	Washington	Patriot Water Treatment, LLC	94080
804	24861	[REDACTED]	14	37-125-23385	Hopewell	Washington	West Virginia Oil Gathering	60564
							TOTAL WASTE	384384
804	25005	[REDACTED]	#16	37-125-23395	Hopewell	Washington	Advanced Waste Services	516810
							TOTAL WASTE	516810
804	24863	[REDACTED]	7	37-125-23386	Hopewell	Washington	Advanced Waste Services	297570
804	24863	[REDACTED]	7	37-125-23386	Hopewell	Washington	Clinton #2	4410
804	24863	[REDACTED]	7	37-125-23386	Hopewell	Washington	Franklin	41790
804	24863	[REDACTED]	7	37-125-23386	Hopewell	Washington	Miller & Co #3	17010
804	24863	[REDACTED]	7	37-125-23386	Hopewell	Washington	Patriot Water Treatment, LLC	265860
804	24863	[REDACTED]	7	37-125-23386	Hopewell	Washington	West Virginia Oil Gathering	39018
							TOTAL WASTE	665658
804	23300	[REDACTED]	40	37-125-23161	Cross Creek	Washington	Advanced Waste Services	80745
804	23300	[REDACTED]	40	37-125-23161	Cross Creek	Washington	Appalachian Water Services, LLC	377538
804	23300	[REDACTED]	40	37-125-23161	Cross Creek	Washington	West Virginia Oil Gathering	82740
							TOTAL WASTE	541023
804	23371	[REDACTED]	41	37-125-23537	Cross Creek	Washington	Appalachian Water Services, LLC	169302
804	23371	[REDACTED]	41	37-125-23537	Cross Creek	Washington	Franklin	7770
804	23371	[REDACTED]	41	37-125-23537	Cross Creek	Washington	West Virginia Oil Gathering	33432
							TOTAL WASTE	210504
804	23222	[REDACTED]	#47H	37-125-23271	Cross Creek	Washington	Advanced Waste Services	664209
804	23222	[REDACTED]	#47H	37-125-23271	Cross Creek	Washington	Appalachian Water Services, LLC	28770
804	23222	[REDACTED]	#47H	37-125-23271	Cross Creek	Washington	Franklin	47880
804	23222	[REDACTED]	#47H	37-125-23271	Cross Creek	Washington	Patriot Water Treatment, LLC	154560
804	23222	[REDACTED]	#47H	37-125-23271	Cross Creek	Washington	West Virginia Oil Gathering	23814
							TOTAL WASTE	919233
804	23223	[REDACTED]	#48	37-125-23429	Cross Creek	Washington	Advanced Waste Services	367164
804	23223	[REDACTED]	#48	37-125-23429	Cross Creek	Washington	Franklin	56910
804	23223	[REDACTED]	#48	37-125-23429	Cross Creek	Washington	West Virginia Oil Gathering	285726
							TOTAL WASTE	709800

804	24857	6	37-125-23390	Hopewell	Washington	Advanced Waste Services	360570
804	24857	6	37-125-23390	Hopewell	Washington	Clinton #2	4410
804	24857	6	37-125-23390	Hopewell	Washington	Miller & Co #3	17010
804	24857	6	37-125-23390	Hopewell	Washington	West Virginia Oil Gathering	54302
						TOTAL WASTE	446292
804	25119	75	37-125-23376	Cross Creek	Washington	West Virginia Oil Gathering	7014
						TOTAL WASTE	7014
804	24859	#9	37-125-23383	Hopewell	Washington	Advanced Waste Services	36750
						TOTAL WASTE	36750
804	24691	#5	37-051-24153	Redstone	Fayette	Advanced Waste Services	56280
						TOTAL WASTE	56280
804	25079	#1	37-125-23779	Deemston	Washington	Advanced Waste Services	655830
804	25079	#1	37-125-23779	Deemston	Washington	Appalachian Water Services, LLC	317352
804	25079	#1	37-125-23779	Deemston	Washington	Franklin	59010
804	25079	#1	37-125-23779	Deemston	Washington	PA Brine Trt-Josephine Plt	7980
804	25079	#1	37-125-23779	Deemston	Washington	McCutcheon Enterprises, Inc.	518910
804	25079	#1	37-125-23779	Deemston	Washington	Tunnelton Liquids Company	100380
804	25079	#1	37-125-23779	Deemston	Washington	Waste Treatment Corporation	23940
						TOTAL WASTE	1683402
804	25745	hit #4H	37-125-24185	Deemston	Washington	Advanced Waste Services	114660
804	25745	hit #4H	37-125-24185	Deemston	Washington	Appalachian Water Services, LLC	564354
804	25745	hit #4H	37-125-24185	Deemston	Washington	Tunnelton Liquids Company	34860
						TOTAL WASTE	713874
804	25715	11H	37-129-28404	S. Huntingdon	Westmoreland	Advanced Waste Services	140910
804	25715	11H	37-129-28404	S. Huntingdon	Westmoreland	Appalachian Water Services, LLC	141246
804	25715	11H	37-129-28404	S. Huntingdon	Westmoreland	Franklin	16380
804	25715	11H	37-129-28404	S. Huntingdon	Westmoreland	PA Brine Trt-Josephine Plt	5040
804	25715	11H	37-129-28404	S. Huntingdon	Westmoreland	Tunnelton Liquids Company	129150
						TOTAL WASTE	432726

804	25716	[REDACTED] #12H	37-129-28403	S. Huntingdon	Westmoreland	Advanced Waste Services	168000
804	25716	[REDACTED] #12H	37-129-28403	S. Huntingdon	Westmoreland	Appalachian Water Services, LLC	144480
804	25716	[REDACTED] #12H	37-129-28403	S. Huntingdon	Westmoreland	PA Brine Trt-Josephine Plt	35910
804	25716	[REDACTED] #12H	37-129-28403	S. Huntingdon	Westmoreland	Tunnelton Liquids Company	21420
						TOTAL WASTE	369810
804	23639	Fairbanks Rod & Gun Club #3	37-051-24238	Menallen	Fayette	Advanced Waste Services	10080
804	23639	Fairbanks Rod & Gun Club #3	37-051-24238	Menallen	Fayette	Appalachian Water Services, LLC	1607802
804	23639	Fairbanks Rod & Gun Club #3	37-051-24238	Menallen	Fayette	Franklin	17220
804	23639	Fairbanks Rod & Gun Club #3	37-051-24238	Menallen	Fayette	PA Brine Trt-Josephine Plt	4620
804	23639	Fairbanks Rod & Gun Club #3	37-051-24238	Menallen	Fayette	Tunnelton Liquids Company	4200
						TOTAL WASTE	1643922
804	23642	Fairbanks Rod & Gun Club #6	37-051-24239	Menallen	Fayette	Advanced Waste Services	538650
804	23642	Fairbanks Rod & Gun Club #6	37-051-24239	Menallen	Fayette	Clinton #2	4410
804	23642	Fairbanks Rod & Gun Club #6	37-051-24239	Menallen	Fayette	Franklin	363678
804	23642	Fairbanks Rod & Gun Club #6	37-051-24239	Menallen	Fayette	PA Brine Trt-Josephine Plt	86436
804	23642	Fairbanks Rod & Gun Club #6	37-051-24239	Menallen	Fayette	Miller & Co #3	34020
804	23642	Fairbanks Rod & Gun Club #6	37-051-24239	Menallen	Fayette	Tunnelton Liquids Company	54264
						TOTAL WASTE	1081458
804	25665	[REDACTED] Unit #5H	37-051-24305	Redstone	Fayette	Advanced Waste Services	23520
804	25665	[REDACTED] Unit #5H	37-051-24305	Redstone	Fayette	Appalachian Water Services, LLC	675444
804	25665	[REDACTED] Unit #5H	37-051-24305	Redstone	Fayette	Franklin	38430
804	25665	[REDACTED] Unit #5H	37-051-24305	Redstone	Fayette	Tunnelton Liquids Company	38640
						TOTAL WASTE	776034
804	25666	[REDACTED] Unit #6H	37-051-24306	Redstone	Fayette	Advanced Waste Services	24990
804	25666	[REDACTED] Unit #6H	37-051-24306	Redstone	Fayette	Appalachian Water Services, LLC	444360
804	25666	[REDACTED] Unit #6H	37-051-24306	Redstone	Fayette	PA Brine Trt-Josephine Plt	9450
804	25666	[REDACTED] Unit #6H	37-051-24306	Redstone	Fayette	Tunnelton Liquids Company	14280
						TOTAL WASTE	493080
804	25826	Fayette Beagle Club Unit #5H	37-051-24309	Washington	Fayette	Advanced Waste Services	2310
804	25826	Fayette Beagle Club Unit #5H	37-051-24309	Washington	Fayette	Appalachian Water Services, LLC	36540
804	25826	Fayette Beagle Club Unit #5H	37-051-24309	Washington	Fayette	Tunnelton Liquids Company	9555
						TOTAL WASTE	48405
804	25827	Fayette Beagle Club Unit #6H	37-051-24310	Washington	Fayette	Advanced Waste Services	2310



804	25827	Fayette Beagle Club Unit #6H	37-051-24310	Washington	Fayette	Appalachian Water Services, LLC	36540
804	25827	Fayette Beagle Club Unit #6H	37-051-24310	Washington	Fayette	Tunnelton Liquids Company	9555
						TOTAL WASTE	48405
804	25267	[REDACTED] #44	37-051-24267	Springhill	Fayette	Advanced Waste Services	60270
804	25267	[REDACTED] #44	37-051-24267	Springhill	Fayette	PA Brine Trt-Josephine Plt	28350
804	25267	[REDACTED] #44	37-051-24267	Springhill	Fayette	McCutcheon Enterprises, Inc.	437094
804	25267	[REDACTED] #44	37-051-24267	Springhill	Fayette	Miller & Co #3	12810
804	25267	[REDACTED] #44	37-051-24267	Springhill	Fayette	Tunnelton Liquids Company	9660
						TOTAL WASTE	548184
804	25870	[REDACTED] #7	37-051-24262	Nicholson	Fayette	Advanced Waste Services	245196
804	25870	[REDACTED] #7	37-051-24262	Nicholson	Fayette	Franklin	120960
804	25870	[REDACTED] #7	37-051-24262	Nicholson	Fayette	PA Brine Trt-Josephine Plt	13440
804	25870	[REDACTED] #7	37-051-24262	Nicholson	Fayette	McCutcheon Enterprises, Inc.	376404
804	25870	[REDACTED] #7	37-051-24262	Nicholson	Fayette	Tunnelton Liquids Company	50820
804	25870	[REDACTED] #7	37-051-24262	Nicholson	Fayette	Waste Treatment Corporation	9870
804	25870	[REDACTED] #7	37-051-24262	Nicholson	Fayette	West Virginia Oil Gathering	4704
						TOTAL WASTE	821394
804	25915	[REDACTED] Unit #2H	37-129-28295	Rostraver	Westmoreland	Advanced Waste Services	11130
804	25915	[REDACTED] Unit #2H	37-129-28295	Rostraver	Westmoreland	Appalachian Water Services, LLC	475398
804	25915	[REDACTED] Unit #2H	37-129-28295	Rostraver	Westmoreland	Tunnelton Liquids Company	9030
						TOTAL WASTE	495558
804	25778	Game Lands #4H	37-059-25340	Dunkard	Greene	Advanced Waste Services	179340
804	25778	Game Lands #4H	37-059-25340	Dunkard	Greene	Franklin	64680
						TOTAL WASTE	244020
804	25726	Game Lands Unit #1	37-059-25337	Dunkard	Greene	Advanced Waste Services	89796
804	25726	Game Lands Unit #1	37-059-25337	Dunkard	Greene	Appalachian Water Services, LLC	961002
804	25726	Game Lands Unit #1	37-059-25337	Dunkard	Greene	PA Brine Trt-Josephine Plt	4830
804	25726	Game Lands Unit #1	37-059-25337	Dunkard	Greene	Tunnelton Liquids Company	10290
						TOTAL WASTE	1065918
804	25727	Game Lands Unit #2H	37-059-25338	Dunkard	Greene	Advanced Waste Services	95130
804	25727	Game Lands Unit #2H	37-059-25338	Dunkard	Greene	Appalachian Water Services, LLC	285390
804	25727	Game Lands Unit #2H	37-059-25338	Dunkard	Greene	Franklin	51870
804	25727	Game Lands Unit #2H	37-059-25338	Dunkard	Greene	PA Brine Trt-Josephine Plt	4200



804	25727	Game Lands Unit #2H	37-059-25338	Dunkard	Greene	Tunnelton Liquids Company	19110
						TOTAL WASTE	455700
804	25777	Game Lands Unit #3H	37-059-25339	Dunkard	Greene	Advanced Waste Services	206598
804	25777	Game Lands Unit #3H	37-059-25339	Dunkard	Greene	Appalachian Water Services, LLC	449316
804	25777	Game Lands Unit #3H	37-059-25339	Dunkard	Greene	PA Brine Trt-Josephine Plt	23058
804	25777	Game Lands Unit #3H	37-059-25339	Dunkard	Greene	Tunnelton Liquids Company	38850
						TOTAL WASTE	717822
804	25145	[REDACTED] 10	37-051-24212	Nicholson	Fayette	Advanced Waste Services	251496
804	25145	[REDACTED] 10	37-051-24212	Nicholson	Fayette	Franklin	53340
804	25145	[REDACTED] 10	37-051-24212	Nicholson	Fayette	PA Brine Trt-Josephine Plt	8820
804	25145	[REDACTED] 10	37-051-24212	Nicholson	Fayette	McCutcheon Enterprises, Inc.	550536
804	25145	[REDACTED] 10	37-051-24212	Nicholson	Fayette	Miller & Co #3	34020
804	25145	[REDACTED] 10	37-051-24212	Nicholson	Fayette	Tunnelton Liquids Company	36750
						TOTAL WASTE	934962
804	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	Advanced Waste Services	339318
804	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	Franklin	139482
804	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	PA Brine Trt-Josephine Plt	99792
804	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	McCutcheon Enterprises, Inc.	391650
804	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	Tunnelton Liquids Company	343224
804	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	West Virginia Oil Gathering	4746
						TOTAL WASTE	1318212
804	25282	[REDACTED] #1	37-125-23806	W. Bethlehem	Washington	Advanced Waste Services	500640
804	25282	[REDACTED] #1	37-125-23806	W. Bethlehem	Washington	Franklin	10500
804	25282	[REDACTED] #1	37-125-23806	W. Bethlehem	Washington	Tunnelton Liquids Company	20790
						TOTAL WASTE	531930
804	25884	[REDACTED] 11	37-059-25373	Greene	Greene	Advanced Waste Services	181314
804	25884	[REDACTED] 11	37-059-25373	Greene	Greene	Appalachian Water Services, LLC	129570
804	25884	[REDACTED] 11	37-059-25373	Greene	Greene	Franklin	266070
804	25884	[REDACTED] 11	37-059-25373	Greene	Greene	PA Brine Trt-Josephine Plt	21000
804	25884	[REDACTED] 11	37-059-25373	Greene	Greene	McCutcheon Enterprises, Inc.	473172
804	25884	[REDACTED] 11	37-059-25373	Greene	Greene	Tunnelton Liquids Company	16590
804	25884	[REDACTED] 11	37-059-25373	Greene	Greene	West Virginia Oil Gathering	2478
						TOTAL WASTE	1090194

804	25060	[REDACTED] Unit #8	37-059-25341	Cumberland	Greene	Advanced Waste Services	76398
804	25060	[REDACTED] Unit #8	37-059-25341	Cumberland	Greene	Appalachian Water Services, LLC	410340
804	25060	[REDACTED] Unit #8	37-059-25341	Cumberland	Greene	Franklin	21420
804	25060	[REDACTED] Unit #8	37-059-25341	Cumberland	Greene	PA Brine Trt-Josephine Plt	4200
804	25060	[REDACTED] Unit #8	37-059-25341	Cumberland	Greene	McCutcheon Enterprises, Inc.	148680
804	25060	[REDACTED] Unit #8	37-059-25341	Cumberland	Greene	Tunnelton Liquids Company	14700
						TOTAL WASTE	675738
804	25061	[REDACTED] Unit #9H	37-059-25342	Cumberland	Greene	Advanced Waste Services	59640
804	25061	[REDACTED] Unit #9H	37-059-25342	Cumberland	Greene	Appalachian Water Services, LLC	202440
804	25061	[REDACTED] Unit #9H	37-059-25342	Cumberland	Greene	Franklin	46620
804	25061	[REDACTED] Unit #9H	37-059-25342	Cumberland	Greene	McCutcheon Enterprises, Inc.	24780
804	25061	[REDACTED] Unit #9H	37-059-25342	Cumberland	Greene	Tunnelton Liquids Company	23730
						TOTAL WASTE	357210
804	30418	[REDACTED] #2	37-063-36374	W. Wheatfield	Indiana	Advanced Waste Services	514584
804	30418	[REDACTED] #2	37-063-36374	W. Wheatfield	Indiana	Franklin	181020
804	30418	[REDACTED] #2	37-063-36374	W. Wheatfield	Indiana	Hart Resource Tech Plt	58170
804	30418	[REDACTED] #2	37-063-36374	W. Wheatfield	Indiana	PA Brine Trt-Josephine Plt	50948
804	30418	[REDACTED] #2	37-063-36374	W. Wheatfield	Indiana	Tunnelton Liquids Company	552266
						TOTAL WASTE	1356988
804	24308	Jackson Farms #29	37-051-24227	Redstone	Fayette	Advanced Waste Services	83580
804	24308	Jackson Farms #29	37-051-24227	Redstone	Fayette	Tunnelton Liquids Company	4830
						TOTAL WASTE	88410
804	24309	Jackson Farms #30	37-051-24229	Redstone	Fayette	Advanced Waste Services	16800
						TOTAL WASTE	16800
804	24494	Jackson Farms #36H	37-051-24228	Redstone	Fayette	Tunnelton Liquids Company	9240
						TOTAL WASTE	9240
804	24310	Jackson Farms Unit #31H	37-051-24235	Redstone	Fayette	Advanced Waste Services	164430
804	24310	Jackson Farms Unit #31H	37-051-24235	Redstone	Fayette	Appalachian Water Services, LLC	284130
804	24310	Jackson Farms Unit #31H	37-051-24235	Redstone	Fayette	Franklin	177030
804	24310	Jackson Farms Unit #31H	37-051-24235	Redstone	Fayette	PA Brine Trt-Josephine Plt	9870
804	24310	Jackson Farms Unit #31H	37-051-24235	Redstone	Fayette	McCutcheon Enterprises, Inc.	15120
804	24310	Jackson Farms Unit #31H	37-051-24235	Redstone	Fayette	Tunnelton Liquids Company	101640
804	24310	Jackson Farms Unit #31H	37-051-24235	Redstone	Fayette	West Virginia Oil Gathering	10878

						TOTAL WASTE	763098
804	24311	Jackson Farms Unit #32H	37-051-24234	Redstone	Fayette	Advanced Waste Services	178500
804	24311	Jackson Farms Unit #32H	37-051-24234	Redstone	Fayette	Appalachian Water Services, LLC	54180
804	24311	Jackson Farms Unit #32H	37-051-24234	Redstone	Fayette	PA Brine Trt-Josephine Plt	32970
804	24311	Jackson Farms Unit #32H	37-051-24234	Redstone	Fayette	Tunnelton Liquids Company	20160
						TOTAL WASTE	285810
804	24312	Jackson Farms Unit #33H	37-051-24233	Redstone	Fayette	Advanced Waste Services	59535
804	24312	Jackson Farms Unit #33H	37-051-24233	Redstone	Fayette	Appalachian Water Services, LLC	79170
804	24312	Jackson Farms Unit #33H	37-051-24233	Redstone	Fayette	Franklin	73920
804	24312	Jackson Farms Unit #33H	37-051-24233	Redstone	Fayette	PA Brine Trt-Josephine Plt	54180
804	24312	Jackson Farms Unit #33H	37-051-24233	Redstone	Fayette	Tunnelton Liquids Company	82110
						TOTAL WASTE	348915
804	24995	Jackson Farms Unit #37H	37-051-24369	Redstone	Fayette	Appalachian Water Services, LLC	5796
804	24995	Jackson Farms Unit #37H	37-051-24369	Redstone	Fayette	Tunnelton Liquids Company	1512
						TOTAL WASTE	7308
804	24996	Jackson Farms Unit #38H	37-051-24373	Redstone	Fayette	Appalachian Water Services, LLC	5880
804	24996	Jackson Farms Unit #38H	37-051-24373	Redstone	Fayette	Tunnelton Liquids Company	1554
						TOTAL WASTE	7434
804	24997	Jackson Farms Unit #39H	37-051-24372	Redstone	Fayette	Appalachian Water Services, LLC	5964
804	24997	Jackson Farms Unit #39H	37-051-24372	Redstone	Fayette	Tunnelton Liquids Company	1554
						TOTAL WASTE	7518
804	25925	#5	37-129-28252	Sewickley	Westmoreland	Advanced Waste Services	180180
804	25925	#5	37-129-28252	Sewickley	Westmoreland	Appalachian Water Services, LLC	245070
804	25925	#5	37-129-28252	Sewickley	Westmoreland	Franklin	14700
804	25925	#5	37-129-28252	Sewickley	Westmoreland	PA Brine Trt-Josephine Plt	18900
804	25925	#5	37-129-28252	Sewickley	Westmoreland	Tunnelton Liquids Company	458850
						TOTAL WASTE	
804	23240	#1	37-059-25225	Dunkard	Greene	Advanced Waste Services	728868
804	23240	#1	37-059-25225	Dunkard	Greene	Clinton #2	4410
804	23240	#1	37-059-25225	Dunkard	Greene	Franklin	45360
804	23240	#1	37-059-25225	Dunkard	Greene	PA Brine Trt-Josephine Plt	70014

804	23240	#1	37-059-25225	Dunkard	Greene	McCutcheon Enterprises, Inc.	113232
804	23240	#1	37-059-25225	Dunkard	Greene	Miller & Co #3	17010
804	23240	#1	37-059-25225	Dunkard	Greene	Tunnelton Liquids Company	45780
						TOTAL WASTE	1024674
804	23241	#2	37-059-25226	Dunkard	Greene	Advanced Waste Services	4914
804	23241	#2	37-059-25226	Dunkard	Greene	McCutcheon Enterprises, Inc.	45780
804	23241	#2	37-059-25226	Dunkard	Greene	Tunnelton Liquids Company	22680
						TOTAL WASTE	73374
804	24974	#17	37-059-25245	Dunkard	Greene	Advanced Waste Services	153132
804	24974	#17	37-059-25245	Dunkard	Greene	Appalachian Water Services, LLC	652260
804	24974	#17	37-059-25245	Dunkard	Greene	Franklin	166950
804	24974	#17	37-059-25245	Dunkard	Greene	PA Brine Trt-Josephine Plt	13650
804	24974	#17	37-059-25245	Dunkard	Greene	McCutcheon Enterprises, Inc.	248304
804	24974	#17	37-059-25245	Dunkard	Greene	Tunnelton Liquids Company	92610
						TOTAL WASTE	1326906
804	24978	#21H	37-059-25248	Dunkard	Greene	Advanced Waste Services	33180
804	24978	#21H	37-059-25248	Dunkard	Greene	Appalachian Water Services, LLC	32970
804	24978	#21H	37-059-25248	Dunkard	Greene	Franklin	64680
804	24978	#21H	37-059-25248	Dunkard	Greene	PA Brine Trt-Josephine Plt	9870
804	24978	#21H	37-059-25248	Dunkard	Greene	McCutcheon Enterprises, Inc.	306390
804	24978	#21H	37-059-25248	Dunkard	Greene	Tunnelton Liquids Company	5040
						TOTAL WASTE	452130
804	24979	#22H	37-059-25249	Dunkard	Greene	Advanced Waste Services	14490
804	24979	#22H	37-059-25249	Dunkard	Greene	Appalachian Water Services, LLC	14490
804	24979	#22H	37-059-25249	Dunkard	Greene	Franklin	41160
804	24979	#22H	37-059-25249	Dunkard	Greene	McCutcheon Enterprises, Inc.	51030
						TOTAL WASTE	121170
804	25106	#4H	37-129-27964	Salem	Westmoreland	Advanced Waste Services	95970
804	25106	#4H	37-129-27964	Salem	Westmoreland	Appalachian Water Services, LLC	4200
804	25106	#4H	37-129-27964	Salem	Westmoreland	Franklin	122220
804	25106	#4H	37-129-27964	Salem	Westmoreland	PA Brine Trt-Josephine Plt	5040
804	25106	#4H	37-129-27964	Salem	Westmoreland	McCutcheon Enterprises, Inc.	28770
804	25106	#4H	37-129-27964	Salem	Westmoreland	Tunnelton Liquids Company	258510
						TOTAL WASTE	514710



804	25107	[REDACTED]	#5	37-129-27942	Salem	Westmoreland	Advanced Waste Services	88830
804	25107	[REDACTED]	#5	37-129-27942	Salem	Westmoreland	Tunnelton Liquids Company	18480
							TOTAL WASTE	107310
804	25673	[REDACTED]	Unit #2H	37-051-24261	German	Fayette	Advanced Waste Services	164010
804	25673	[REDACTED]	Unit #2H	37-051-24261	German	Fayette	Appalachian Water Services, LLC	752892
804	25673	[REDACTED]	Unit #2H	37-051-24261	German	Fayette	Franklin	92610
804	25673	[REDACTED]	Unit #2H	37-051-24261	German	Fayette	PA Brine Trt-Josephine Plt	12180
804	25673	[REDACTED]	Unit #2H	37-051-24261	German	Fayette	McCutcheon Enterprises, Inc.	33600
804	25673	[REDACTED]	Unit #2H	37-051-24261	German	Fayette	Tunnelton Liquids Company	34650
							TOTAL WASTE	1089942
804	25674	[REDACTED]	Unit #3H	37-051-24258	German	Fayette	Advanced Waste Services	88368
804	25674	[REDACTED]	Unit #3H	37-051-24258	German	Fayette	Appalachian Water Services, LLC	191520
804	25674	[REDACTED]	Unit #3H	37-051-24258	German	Fayette	Franklin	83916
804	25674	[REDACTED]	Unit #3H	37-051-24258	German	Fayette	PA Brine Trt-Josephine Plt	38430
804	25674	[REDACTED]	Unit #3H	37-051-24258	German	Fayette	McCutcheon Enterprises, Inc.	13440
							TOTAL WASTE	415674
804	25675	[REDACTED]	Unit #4H	37-051-24259	German	Fayette	Advanced Waste Services	145320
804	25675	[REDACTED]	Unit #4H	37-051-24259	German	Fayette	Appalachian Water Services, LLC	275730
804	25675	[REDACTED]	Unit #4H	37-051-24259	German	Fayette	Franklin	108150
804	25675	[REDACTED]	Unit #4H	37-051-24259	German	Fayette	PA Brine Trt-Josephine Plt	4830
804	25675	[REDACTED]	Unit #4H	37-051-24259	German	Fayette	Tunnelton Liquids Company	24570
							TOTAL WASTE	558600
804	24043	[REDACTED]	#21	37-059-25159	Monongahela	Greene	Advanced Waste Services	49350
804	24043	[REDACTED]	#21	37-059-25159	Monongahela	Greene	Appalachian Water Services, LLC	965118
804	24043	[REDACTED]	#21	37-059-25159	Monongahela	Greene	Franklin	42000
804	24043	[REDACTED]	#21	37-059-25159	Monongahela	Greene	McCutcheon Enterprises, Inc.	18900
							TOTAL WASTE	1075368
804	24254	[REDACTED]	Unit #24	37-051-24226	German	Fayette	Advanced Waste Services	24990
							TOTAL WASTE	24990
804	25605	[REDACTED]	33	37-059-25185	Monongahela	Greene	Advanced Waste Services	63840
804	25605	[REDACTED]	33	37-059-25185	Monongahela	Greene	Appalachian Water Services, LLC	672966
804	25605	[REDACTED]	33	37-059-25185	Monongahela	Greene	Franklin	148680



804	25605	[REDACTED]	#33	37-059-25185	Monongahela	Greene	PA Brine Trt-Josephine Plt	9030
804	25605	[REDACTED]	#33	37-059-25185	Monongahela	Greene	McCutcheon Enterprises, Inc.	122934
804	25605	[REDACTED]	#33	37-059-25185	Monongahela	Greene	Tunnelton Liquids Company	45150
							TOTAL WASTE	1062600
804	25616	[REDACTED]	Unit #34H	37-051-24225	German	Fayette	Tunnelton Liquids Company	10080
							TOTAL WASTE	10080
804	25758	[REDACTED]	#9	37-129-28113	Rostraver	Westmoreland	Advanced Waste Services	472710
804	25758	[REDACTED]	#9	37-129-28113	Rostraver	Westmoreland	Appalachian Water Services, LLC	413322
804	25758	[REDACTED]	#9	37-129-28113	Rostraver	Westmoreland	Clinton #2	4410
804	25758	[REDACTED]	#9	37-129-28113	Rostraver	Westmoreland	Franklin	620340
804	25758	[REDACTED]	#9	37-129-28113	Rostraver	Westmoreland	PA Brine Trt-Josephine Plt	18900
804	25758	[REDACTED]	#9	37-129-28113	Rostraver	Westmoreland	McCutcheon Enterprises, Inc.	63840
804	25758	[REDACTED]	#9	37-129-28113	Rostraver	Westmoreland	Miller & Co #3	55020
804	25758	[REDACTED]	#9	37-129-28113	Rostraver	Westmoreland	Tunnelton Liquids Company	411474
							TOTAL WASTE	2060016
804	25651	[REDACTED]	#2	37-129-27989	S. Huntingdon	Westmoreland	Advanced Waste Services	197484
804	25651	[REDACTED]	#2	37-129-27989	S. Huntingdon	Westmoreland	Franklin	4830
804	25651	[REDACTED]	#2	37-129-27989	S. Huntingdon	Westmoreland	PA Brine Trt-Josephine Plt	165648
804	25651	[REDACTED]	#2	37-129-27989	S. Huntingdon	Westmoreland	McCutcheon Enterprises, Inc.	426426
							TOTAL WASTE	794388
804	30425	[REDACTED]	Unit #1	37-063-36627	W. Wheatfield	Indiana	Advanced Waste Services	1084608
804	30425	[REDACTED]	Unit #1	37-063-36627	W. Wheatfield	Indiana	Franklin	61320
804	30425	[REDACTED]	Unit #1	37-063-36627	W. Wheatfield	Indiana	Hart Resource Tech Pit	13902
804	30425	[REDACTED]	Unit #1	37-063-36627	W. Wheatfield	Indiana	PA Brine Trt-Josephine Plt	75180
804	30425	[REDACTED]	Unit #1	37-063-36627	W. Wheatfield	Indiana	Tunnelton Liquids Company	119826
							TOTAL WASTE	1354836
804	25769	[REDACTED]	#4	37-051-24266	Springhill	Fayette	Advanced Waste Services	51030
804	25769	[REDACTED]	#4	37-051-24266	Springhill	Fayette	Appalachian Water Services, LLC	1093512
804	25769	[REDACTED]	#4	37-051-24266	Springhill	Fayette	Franklin	63840
804	25769	[REDACTED]	#4	37-051-24266	Springhill	Fayette	PA Brine Trt-Josephine Plt	18480
804	25769	[REDACTED]	#4	37-051-24266	Springhill	Fayette	McCutcheon Enterprises, Inc.	80640
804	25769	[REDACTED]	#4	37-051-24266	Springhill	Fayette	Tunnelton Liquids Company	9660
							TOTAL WASTE	1317162

804	25853	[REDACTED] #20	37-059-25362	Jefferson	Greene	Advanced Waste Services	80388
804	25853	[REDACTED] #20	37-059-25362	Jefferson	Greene	Appalachian Water Services, LLC	1164702
804	25853	[REDACTED] #20	37-059-25362	Jefferson	Greene	Franklin	9870
804	25853	[REDACTED] #20	37-059-25362	Jefferson	Greene	McCutcheon Enterprises, Inc.	65478
804	25853	[REDACTED] #20	37-059-25362	Jefferson	Greene	Tunnelton Liquids Company	16800
						TOTAL WASTE	1337238
804	25924	National Mines Corp #26H	37-051-24365	Luzerne	Fayette	Advanced Waste Services	40950
804	25924	National Mines Corp #26H	37-051-24365	Luzerne	Fayette	Appalachian Water Services, LLC	419160
804	25924	National Mines Corp #26H	37-051-24365	Luzerne	Fayette	Franklin	28980
804	25924	National Mines Corp #26H	37-051-24365	Luzerne	Fayette	PA Brine Trt-Josephine Plt	8820
804	25924	National Mines Corp #26H	37-051-24365	Luzerne	Fayette	McCutcheon Enterprises, Inc.	175476
804	25924	National Mines Corp #26H	37-051-24365	Luzerne	Fayette	Tunnelton Liquids Company	48930
						TOTAL WASTE	722316
804	24834	[REDACTED] Unit #1	37-051-24252	Lower Tyrone	Fayette	Advanced Waste Services	279720
804	24834	[REDACTED] Unit #1	37-051-24252	Lower Tyrone	Fayette	Clinton #2	4410
804	24834	[REDACTED] Unit #1	37-051-24252	Lower Tyrone	Fayette	Franklin	112560
804	24834	[REDACTED] Unit #1	37-051-24252	Lower Tyrone	Fayette	PA Brine Trt-Josephine Plt	162960
804	24834	[REDACTED] Unit #1	37-051-24252	Lower Tyrone	Fayette	McCutcheon Enterprises, Inc.	273504
804	24834	[REDACTED] Unit #1	37-051-24252	Lower Tyrone	Fayette	Miller & Co #3	85050
804	24834	[REDACTED] Unit #1	37-051-24252	Lower Tyrone	Fayette	Tunnelton Liquids Company	28140
804	24834	[REDACTED] Unit #1	37-051-24252	Lower Tyrone	Fayette	Waste Treatment Corporation	19320
						TOTAL WASTE	965664
804	25197	[REDACTED] Unit #3H	37-051-24257	Lower Tyrone	Fayette	Advanced Waste Services	440580
804	25197	[REDACTED] Unit #3H	37-051-24257	Lower Tyrone	Fayette	Appalachian Water Services, LLC	1539174
804	25197	[REDACTED] Unit #3H	37-051-24257	Lower Tyrone	Fayette	Franklin	260190
804	25197	[REDACTED] Unit #3H	37-051-24257	Lower Tyrone	Fayette	PA Brine Trt-Josephine Plt	168630
804	25197	[REDACTED] Unit #3H	37-051-24257	Lower Tyrone	Fayette	Tunnelton Liquids Company	386190
						TOTAL WASTE	2794764
804	30424	[REDACTED] UT #1	37-063-36737	W. Wheatfield	Indiana	Advanced Waste Services	538230
804	30424	[REDACTED] UT #1	37-063-36737	W. Wheatfield	Indiana	Hart Resource Tech Pit	9240
804	30424	[REDACTED] UT #1	37-063-36737	W. Wheatfield	Indiana	PA Brine Trt-Josephine Plt	28560
804	30424	[REDACTED] UT #1	37-063-36737	W. Wheatfield	Indiana	Tunnelton Liquids Company	99540
						TOTAL WASTE	675570
804	25742	[REDACTED] UT #2H	37-063-36738	W. Wheatfield	Indiana	Advanced Waste Services	699090
804	25742	[REDACTED] UT #2H	37-063-36738	W. Wheatfield	Indiana	Franklin	55440

804	25742	[REDACTED] JT #2H	37-063-36738	W. Wheatfield	Indiana	PA Brine Trt-Josephine Plt	112560
804	25742	[REDACTED] JT #2H	37-063-36738	W. Wheatfield	Indiana	Tunnelton Liquids Company	20160
						TOTAL WASTE	887250
804	25026	[REDACTED] #29	37-051-24249	Washington	Fayette	Advanced Waste Services	379260
804	25026	[REDACTED] #29	37-051-24249	Washington	Fayette	Appalachian Water Services, LLC	1269156
804	25026	[REDACTED] #29	37-051-24249	Washington	Fayette	Franklin	73290
804	25026	[REDACTED] #29	37-051-24249	Washington	Fayette	PA Brine Trt-Josephine Plt	4620
804	25026	[REDACTED] #29	37-051-24249	Washington	Fayette	McCutcheon Enterprises, Inc.	40320
804	25026	[REDACTED] #29	37-051-24249	Washington	Fayette	Tunnelton Liquids Company	102900
						TOTAL WASTE	1869546
804	23183	[REDACTED] #16	37-125-23339	Robinson	Washington	Advanced Waste Services	10290
						TOTAL WASTE	10290
804	24920	[REDACTED] #19H	37-125-23334	Robinson	Washington	Advanced Waste Services	852600
804	24920	[REDACTED] #19H	37-125-23334	Robinson	Washington	Franklin	4830
804	24920	[REDACTED] #19H	37-125-23334	Robinson	Washington	Hunter	9240
804	24920	[REDACTED] #19H	37-125-23334	Robinson	Washington	Tunnelton Liquids Company	20160
804	24920	[REDACTED] #19H	37-125-23334	Robinson	Washington	West Virginia Oil Gathering	119028
						TOTAL WASTE	1005858
804	24295	[REDACTED] #18	37-059-25314	Cumberland	Greene	Advanced Waste Services	92862
804	24295	[REDACTED] #18	37-059-25314	Cumberland	Greene	Franklin	52500
804	24295	[REDACTED] #18	37-059-25314	Cumberland	Greene	PA Brine Trt-Josephine Plt	44394
804	24295	[REDACTED] #18	37-059-25314	Cumberland	Greene	McCutcheon Enterprises, Inc.	93156
						TOTAL WASTE	282912
804	25304	[REDACTED] #8	37-129-28084	Sewickley	Westmoreland	Advanced Waste Services	252000
804	25304	[REDACTED] #8	37-129-28084	Sewickley	Westmoreland	Franklin	124740
804	25304	[REDACTED] #8	37-129-28084	Sewickley	Westmoreland	McCutcheon Enterprises, Inc.	647640
804	25304	[REDACTED] #8	37-129-28084	Sewickley	Westmoreland	Tunnelton Liquids Company	319620
						TOTAL WASTE	1344000
804	23741	[REDACTED] #4	37-125-23711	Deemston	Washington	Advanced Waste Services	643398
804	23741	[REDACTED] #4	37-125-23711	Deemston	Washington	Franklin	42420
804	23741	[REDACTED] #4	37-125-23711	Deemston	Washington	PA Brine Trt-Josephine Plt	32760
804	23741	[REDACTED] #4	37-125-23711	Deemston	Washington	McCutcheon Enterprises, Inc.	14490
804	23741	[REDACTED] #4	37-125-23711	Deemston	Washington	Miller & Co #3	38220

804	23741	Shoup #4	37-125-23711	Deemston	Washington	Tunnelton Liquids Company	22680
						TOTAL WASTE	793968
804	24463	[REDACTED] #4	37-129-27991	Sewickley	Westmoreland	Advanced Waste Services	474390
804	24463	[REDACTED] #4	37-129-27991	Sewickley	Westmoreland	Franklin	68250
804	24463	[REDACTED] #4	37-129-27991	Sewickley	Westmoreland	McCutcheon Enterprises, Inc.	290640
804	24463	[REDACTED] #4	37-129-27991	Sewickley	Westmoreland	Tunnelton Liquids Company	80430
						TOTAL WASTE	913710
804	24756	[REDACTED] #7H	37-129-27982	Sewickley	Westmoreland	Advanced Waste Services	34020
804	24756	[REDACTED] #7H	37-129-27982	Sewickley	Westmoreland	Franklin	23520
804	24756	[REDACTED] #7H	37-129-27982	Sewickley	Westmoreland	PA Brine Trt-Josephine Plt	25830
804	24756	[REDACTED] #7H	37-129-27982	Sewickley	Westmoreland	McCutcheon Enterprises, Inc.	123102
804	24756	[REDACTED] #7H	37-129-27982	Sewickley	Westmoreland	Tunnelton Liquids Company	25830
						TOTAL WASTE	232302
804	24895	[REDACTED] #8	37-129-27983	Sewickley	Westmoreland	Advanced Waste Services	69216
804	24895	[REDACTED] #8	37-129-27983	Sewickley	Westmoreland	PA Brine Trt-Josephine Plt	39354
804	24895	[REDACTED] #8	37-129-27983	Sewickley	Westmoreland	McCutcheon Enterprises, Inc.	142044
804	24895	[REDACTED] #8	37-129-27983	Sewickley	Westmoreland	Tunnelton Liquids Company	24780
						TOTAL WASTE	275394
804	25996	[REDACTED] #1	37-051-24314	Franklin	Fayette	Advanced Waste Services	66360
804	25996	[REDACTED] #1	37-051-24314	Franklin	Fayette	Appalachian Water Services, LLC	406350
804	25996	[REDACTED] #1	37-051-24314	Franklin	Fayette	PA Brine Trt-Josephine Plt	13020
804	25996	[REDACTED] #1	37-051-24314	Franklin	Fayette	Tunnelton Liquids Company	95340
						TOTAL WASTE	581070
804	25880	[REDACTED] Unit #1H	37-051-24279	Brownsville	Fayette	Advanced Waste Services	18186
804	25880	[REDACTED] Unit #1H	37-051-24279	Brownsville	Fayette	Appalachian Water Services, LLC	663054
804	25880	[REDACTED] Unit #1H	37-051-24279	Brownsville	Fayette	Tunnelton Liquids Company	50715
						TOTAL WASTE	731955
804	25881	[REDACTED] Unit #2H	37-051-24280	Brownsville	Fayette	Advanced Waste Services	18144
804	25881	[REDACTED] Unit #2H	37-051-24280	Brownsville	Fayette	Appalachian Water Services, LLC	637266
804	25881	[REDACTED] Unit #2H	37-051-24280	Brownsville	Fayette	Tunnelton Liquids Company	54285
						TOTAL WASTE	709695



804	26040	[REDACTED] Unit #32H	37-051-24316	Redstone	Fayette	Advanced Waste Services	144480
804	26040	[REDACTED] Unit #32H	37-051-24316	Redstone	Fayette	Appalachian Water Services, LLC	722232
804	26040	[REDACTED] Unit #32H	37-051-24316	Redstone	Fayette	PA Brine Trt-Josephine Plt	2730
804	26040	[REDACTED] Unit #32H	37-051-24316	Redstone	Fayette	Tunnelton Liquids Company	13230
						TOTAL WASTE	882672
804	26041	[REDACTED] Unit #33H	37-051-24317	Redstone	Fayette	Advanced Waste Services	179970
804	26041	[REDACTED] Unit #33H	37-051-24317	Redstone	Fayette	Appalachian Water Services, LLC	439950
804	26041	[REDACTED] Unit #33H	37-051-24317	Redstone	Fayette	Tunnelton Liquids Company	31080
						TOTAL WASTE	651000
804	25759	[REDACTED] Unit #59H	37-129-28130	Rostraver	Westmoreland	Appalachian Water Services, LLC	756
						TOTAL WASTE	756
804	23467	[REDACTED] Unit #39	37-129-28129	Rostraver	Westmoreland	Advanced Waste Services	4200
804	23467	[REDACTED] Unit #39	37-129-28129	Rostraver	Westmoreland	Appalachian Water Services, LLC	756
804	23467	[REDACTED] Unit #39	37-129-28129	Rostraver	Westmoreland	PA Brine Trt-Josephine Plt	3570
						TOTAL WASTE	8526
804	25760	[REDACTED] Unit #60H	37-129-28131	Rostraver	Westmoreland	Appalachian Water Services, LLC	4998
804	25760	[REDACTED] Unit #60H	37-129-28131	Rostraver	Westmoreland	West Virginia Oil Gathering	3528
						TOTAL WASTE	8526
804	24557	[REDACTED] #5	37-129-28008	S. Huntingdon	Westmoreland	Advanced Waste Services	44730
804	24557	[REDACTED] #5	37-129-28008	S. Huntingdon	Westmoreland	Franklin	205170
804	24557	[REDACTED] #5	37-129-28008	S. Huntingdon	Westmoreland	PA Brine Trt-Josephine Plt	5040
804	24557	[REDACTED] #5	37-129-28008	S. Huntingdon	Westmoreland	McCutcheon Enterprises, Inc.	373254
804	24557	[REDACTED] #5	37-129-28008	S. Huntingdon	Westmoreland	Tunnelton Liquids Company	119868
						TOTAL WASTE	748062
804	24154	[REDACTED] #19	37-059-25162	Jefferson	Greene	Advanced Waste Services	322980
804	24154	[REDACTED] #19	37-059-25162	Jefferson	Greene	Franklin	34020
804	24154	[REDACTED] #19	37-059-25162	Jefferson	Greene	PA Brine Trt-Josephine Plt	90720
804	24154	[REDACTED] #19	37-059-25162	Jefferson	Greene	McCutcheon Enterprises, Inc.	323106
804	24154	[REDACTED] #19	37-059-25162	Jefferson	Greene	Miller & Co #3	38010
804	24154	[REDACTED] #19	37-059-25162	Jefferson	Greene	Tunnelton Liquids Company	9660
						TOTAL WASTE	818496



804	25887	[REDACTED] #1	37-051-24284	Franklin	Fayette	Advanced Waste Services	104160
804	25887	[REDACTED] #1	37-051-24284	Franklin	Fayette	Appalachian Water Services, LLC	460782
804	25887	[REDACTED] #1	37-051-24284	Franklin	Fayette	Tunnelton Liquids Company	61740
						TOTAL WASTE	626682
804	24430	[REDACTED] #2	37-059-25161	Cumberland	Greene	Advanced Waste Services	420966
804	24430	[REDACTED] #2	37-059-25161	Cumberland	Greene	Clinton #2	16380
804	24430	[REDACTED] #2	37-059-25161	Cumberland	Greene	Franklin	78750
804	24430	[REDACTED] #2	37-059-25161	Cumberland	Greene	PA Brine Trt-Josephine Plt	71610
804	24430	[REDACTED] #2	37-059-25161	Cumberland	Greene	McCutcheon Enterprises, Inc.	606984
804	24430	[REDACTED] #2	37-059-25161	Cumberland	Greene	Miller & Co #3	186564
804	24430	[REDACTED] #2	37-059-25161	Cumberland	Greene	Tunnelton Liquids Company	72618
						TOTAL WASTE	1453872
804	25389	[REDACTED] #1	37-129-28123	Sewickley	Westmoreland	Advanced Waste Services	166824
804	25389	[REDACTED] #1	37-129-28123	Sewickley	Westmoreland	Appalachian Water Services, LLC	1130262
804	25389	[REDACTED] #1	37-129-28123	Sewickley	Westmoreland	Hunter	10500
804	25389	[REDACTED] #1	37-129-28123	Sewickley	Westmoreland	PA Brine Trt-Josephine Plt	4620
804	25389	[REDACTED] #1	37-129-28123	Sewickley	Westmoreland	Tunnelton Liquids Company	54810
						TOTAL WASTE	1367016
804	26048	[REDACTED] Unit #20H	37-129-28264	S. Huntingdon	Westmoreland	Advanced Waste Services	153510
804	26048	[REDACTED] Unit #20H	37-129-28264	S. Huntingdon	Westmoreland	Appalachian Water Services, LLC	889938
804	26048	[REDACTED] Unit #20H	37-129-28264	S. Huntingdon	Westmoreland	PA Brine Trt-Josephine Plt	23520
804	26048	[REDACTED] Unit #20H	37-129-28264	S. Huntingdon	Westmoreland	Tunnelton Liquids Company	79800
						TOTAL WASTE	1146768
804	24410	[REDACTED] #27	37-051-24247	Springhill	Fayette	Advanced Waste Services	475818
804	24410	[REDACTED] #27	37-051-24247	Springhill	Fayette	Clinton #2	8820
804	24410	[REDACTED] #27	37-051-24247	Springhill	Fayette	Franklin	232260
804	24410	[REDACTED] #27	37-051-24247	Springhill	Fayette	McCutcheon Enterprises, Inc.	758436
804	24410	[REDACTED] #27	37-051-24247	Springhill	Fayette	Miller & Co #3	46830
						TOTAL WASTE	1522164
804	25855	[REDACTED] #5H	37-125-23962	Deemston	Washington	Advanced Waste Services	173040
804	25855	[REDACTED] #5H	37-125-23962	Deemston	Washington	Appalachian Water Services, LLC	397320
804	25855	[REDACTED] #5H	37-125-23962	Deemston	Washington	Franklin	21000
804	25855	[REDACTED] #5H	37-125-23962	Deemston	Washington	PA Brine Trt-Josephine Plt	25620
804	25855	[REDACTED] #5H	37-125-23962	Deemston	Washington	Tunnelton Liquids Company	19740
						TOTAL WASTE	636720

						TOTALS:	
						Advanced Waste Services	21427392
						Appalachian Water Services, LLC	30573984
						Clinton #2	82320
						Franklin	5827836
						Hart Resource Tech Plt	81312
						Hunter	19740
						PA Brine Trt-Josephine Plt	2048132
						McCutcheon Enterprises, Inc.	9958053
						Miller & Co #3	790734
						Patriot Water Treatment, LLC	514500
						Tunnelton Liquids Company	5510639
						Waste Treatment Corporation	53130
						West Virginia Oil Gathering	957558
						GRAND TOTAL OF FACILITIES	77845330

## **Exhibit 2D**

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WASTE MANAGEMENT

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 26R, reference the item number and identify the date prepared. The date on attached sheets needs to match the date noted below.					<b>DEP USE ONLY</b> Date Received & General Notes	
General Reference 287.54						
Date Prepared/Revised						
<b>SECTION A: CLIENT (GENERATOR OF THE WASTE) INFORMATION</b>						
Company Name Atlas Resources, LLC						
If a Subsidiary, Name of Parent Company					EPA Generator ID#	
Company Mailing Address Line 1 800 Mountain View Drive			Company Mailing Address Line 2			
Company Address Last Line - City Smithfield			State PA	Zip+4 15478+8902	Phone 724-564-2360	Ext 137
Company Contact Last Name Butchko		First Name Jenny	MI L	Suffix		
Municipality Georges			County Fayette			
Contact Phone 724-564-2360		Ext 137	Contact Email Address jbutchko@atlasenergy.com			
Is the waste generated at the Company Mailing Address (noted above)?					<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If 'No', describe location of waste generation and storage. <u>See attachment</u>						
Municipality Georges		County Fayette		State PA		
<b>SECTION B: WASTE DESCRIPTION</b>						
Residual Waste Code 803	Residual Waste Code Description Drilling Fluid		Amount See attachment.	Unit of Measure <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton		Time Frame 2010 <input type="checkbox"/> One Time
<b>1. GENERAL PROPERTIES</b>						
a. pH Range		n/a to n/a (based on analyses or knowledge)				
b. Physical State		<input checked="" type="checkbox"/> Liquid Waste (EPA Method 9095) <input type="checkbox"/> Solid (EPA Method 9095) <input type="checkbox"/> Gas (ambient temperature & pressure)				
c. Physical Appearance		Color <u>Clear</u> Odor <u>None</u> Number of Solid or Liquid Phases of Separation _____ Describe each phase of separation. _____				
<b>2. CHEMICAL ANALYSIS ATTACHMENTS</b>						
a. The results of a detailed chemical characterization of the waste, as described in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No				
b. A detailed description of the waste sampling method is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No				
c. The quality assurance/quality control procedures employed by the laboratory(ies) is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No				
d. The results of the hazardous waste determination is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No				
e. If applicable, a detailed explanation supporting use of generator knowledge in lieu of actual chemical analysis is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A				

\* Characterization is on file at the DEP that refers to the county in which the stream was generated.

3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS																							
a.	A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																				
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																				
c.	If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A																				
<b>SECTION C: MANAGEMENT OF RESIDUAL WASTE</b>																							
<b>1. PROCESSING OR DISPOSAL FACILITY(IES)</b>																							
The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.																							
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PAR0000291																						
b.	<table border="0"> <tr> <td>Facility Name</td> <td colspan="3">Advanced Waste Services</td> </tr> <tr> <td>Address Line 1</td> <td colspan="3">1001 Sampson Street</td> </tr> <tr> <td>Address Line 2</td> <td colspan="3"></td> </tr> <tr> <td>Address City State ZIP</td> <td>New Castle</td> <td>PA</td> <td>16101</td> </tr> <tr> <td>Municipality</td> <td>City of New Castle</td> <td>County</td> <td>Lawrence</td> </tr> </table>			Facility Name	Advanced Waste Services			Address Line 1	1001 Sampson Street			Address Line 2				Address City State ZIP	New Castle	PA	16101	Municipality	City of New Castle	County	Lawrence
Facility Name	Advanced Waste Services																						
Address Line 1	1001 Sampson Street																						
Address Line 2																							
Address City State ZIP	New Castle	PA	16101																				
Municipality	City of New Castle	County	Lawrence																				
c.	<table border="0"> <tr> <td>Facility Contact Name</td> <td colspan="3">Anthony Cialella</td> </tr> <tr> <td>Title</td> <td colspan="3">General Manager</td> </tr> <tr> <td>Phone</td> <td>724-657-8777</td> <td>Email Address</td> <td>avialella@advancedwasteservices.com</td> </tr> </table>			Facility Contact Name	Anthony Cialella			Title	General Manager			Phone	724-657-8777	Email Address	avialella@advancedwasteservices.com								
Facility Contact Name	Anthony Cialella																						
Title	General Manager																						
Phone	724-657-8777	Email Address	avialella@advancedwasteservices.com																				
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)																						
a.	Solid waste permit number(s) for processing or disposal facility being utilized. 253723																						
b.	<table border="0"> <tr> <td>Facility Name</td> <td colspan="3">Appalachian Water Services, LLC</td> </tr> <tr> <td>Address Line 1</td> <td colspan="3">195 Enterprise Lane</td> </tr> <tr> <td>Address Line 2</td> <td colspan="3"></td> </tr> <tr> <td>Address City State ZIP</td> <td>Connellsville</td> <td>PA</td> <td>15425</td> </tr> <tr> <td>Municipality</td> <td>Masontown</td> <td>County</td> <td>Fayette</td> </tr> </table>			Facility Name	Appalachian Water Services, LLC			Address Line 1	195 Enterprise Lane			Address Line 2				Address City State ZIP	Connellsville	PA	15425	Municipality	Masontown	County	Fayette
Facility Name	Appalachian Water Services, LLC																						
Address Line 1	195 Enterprise Lane																						
Address Line 2																							
Address City State ZIP	Connellsville	PA	15425																				
Municipality	Masontown	County	Fayette																				
c.	<table border="0"> <tr> <td>Facility Contact Name</td> <td colspan="3">George Milne</td> </tr> <tr> <td>Title</td> <td colspan="3">Supervisor</td> </tr> <tr> <td>Phone</td> <td>724-583-2081</td> <td>Email Address</td> <td>georgem@shallenbergerconstruction.com</td> </tr> </table>			Facility Contact Name	George Milne			Title	Supervisor			Phone	724-583-2081	Email Address	georgem@shallenbergerconstruction.com								
Facility Contact Name	George Milne																						
Title	Supervisor																						
Phone	724-583-2081	Email Address	georgem@shallenbergerconstruction.com																				
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)																						
<b>2. BENEFICIAL USE</b>																							
a.	Has the waste been approved for beneficial use? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", list the general permit number or approval number.																						
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)																						



3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS			
a.	A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
c.	If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
SECTION C. MANAGEMENT OF RESIDUAL WASTE			
1. PROCESSING OR DISPOSAL FACILITY(IES)			
The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. 3262		
b.	Facility Name <u>Clinton SWIW #2</u> Address Line 1 <u>P.O. box 367</u> Address Line 1 _____ Address City State ZIP <u>Garrettsville OH 44231</u> Municipality <u>Freedom</u> County <u>Portage</u>		
c.	Facility Contact Name <u>Dave Ballentine</u> Title <u>President</u> Phone <u>330-221-6681</u> Email Address <u>davjball@yahoo.com</u>		
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA 0101508		
b.	Facility Name <u>Franklin</u> Address Line 1 <u>5148 US 322</u> Address Line 1 _____ Address City State ZIP <u>Franklin PA 16323</u> Municipality <u>Sandycreek</u> County <u>Venango</u>		
c.	Facility Contact Name <u>Elton DeLong</u> Title <u>Operations Manager</u> Phone <u>814-437-3593</u> Email Address <u>sparky@pabrinc.com</u>		
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
2. BENEFICIAL USE			
a.	Has the waste been approved for beneficial use? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", list the general permit number or approval number.		
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		

**3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS**

- a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☒ Yes ☐ No
- b. A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☐ Yes ☒ No
- c. If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached. ☐ Yes ☐ No ☒ N/A

**SECTION C: MANAGEMENT OF RESIDUAL WASTE****PROCESSING OR DISPOSAL FACILITY(IES)**

The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.

a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA 0095443			
b.	Facility Name	Hart Resource Tech Pit		
	Address Line 1	P.O. Box 232 TR 110 West		
	Address Line 1			
	Address City State ZIP	Creekside	PA	15732
	Municipality	Washington	County	Indiana
c.	Facility Contact Name	Becky Snyder		
	Title	Operations Manager		
	Phone	724-349-8600	Email Address	hart8600@comcast.net
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA 0095273			
b.	Facility Name	PA Brine Trt-Josephine Plt		
	Address Line 1	5148 US 322		
	Address Line 1			
	Address City State ZIP	Franklin	PA	16323
	Municipality	Sandycreek	County	Venango
c.	Facility Contact Name	Elton DeLong		
	Title	Operations Manager		
	Phone	814-437-3593	Email Address	sparky@pabriner.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)			
<b>2. BENEFICIAL USE</b>				
a.	Has the waste been approved for beneficial use? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", list the general permit number or approval number.			
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)			

## 3. PROCESS DESCRIPTION &amp; SCHEMATIC ATTACHMENTS

- a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☒ Yes ☐ No
- b. A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☐ Yes ☒ No
- c. If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached. ☐ Yes ☐ No ☒ N/A

## SECTION C. MANAGEMENT OF RESIDUAL WASTE

## 1. PROCESSING OR DISPOSAL FACILITY(IES)

The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.

a.	Solid waste permit number(s) for processing or disposal facility being utilized. 101674			
b.	Facility Name	McCutcheon Enterprises, Inc.		
	Address Line 1	250 Park Road		
	Address Line 1			
	Address City State ZIP	Apollo	PA	15613
	Municipality	Allegheny	County	Westmoreland
c.	Facility Contact Name	Mack Flood		
	Title	Business Development Engineer		
	Phone	724-568-3623	Email Address	mackf@completewastemgmt.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. 4355			
b.	Facility Name	Miller & Co. #3		
	Address Line 1	P.O. Box 367		
	Address Line 1			
	Address City State ZIP	Garrettsville	OH	44231
	Municipality	Freedom	County	Portage
c.	Facility Contact Name	Dave Ballentine		
	Title	President		
	Phone	330-221-6681	Email Address	davejball@yahoo.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)			
2. BENEFICIAL USE				
a.	Has the waste been approved for beneficial use? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", list the general permit number or approval number.			
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)			

3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS			
a.	A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
c.	If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
SECTION C. MANAGEMENT OF RESIDUAL WASTE			
1. PROCESSING OR DISPOSAL FACILITY(IES)			
The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA0091472		
b.	Facility Name: Tunnelton Liquids Company Address Line 1: P.O. Box 667 Address Line 1: Address City State ZIP: Clarion PA 16214 Municipality: Clarion Borough County: Clarion		
c.	Facility Contact Name: Paula Wolbort Title: Accountant Phone: 814-226-5016 Email Address: pwolbort@usachoice.net		
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA0102784		
b.	Facility Name: Waste Treatment Corporation Address Line 1: 341 West Harmer Street Address Line 1: Address City State ZIP: Warren PA 16365 Municipality: City of Warren County: Warren		
c.	Facility Contact Name: Eric Johnson Title: Plant Supervisor Phone: 724-228-9674 Email Address: accounting@waste-treatment.net		
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
2. BENEFICIAL USE			
a.	Has the waste been approved for beneficial use? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", list the general permit number or approval number.		
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		



3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS			
a.	A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
c.	If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
SECTION C: MANAGEMENT OF RESIDUAL WASTE			
1. PROCESSING OR DISPOSAL FACILITY(IES)			
The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. WV3416729395		
b.	Facility Name	West Virginia Oil Gathering	
	Address Line 1	157 Lower Eureka Road	
	Address Line 1		
	Address City State ZIP	Saint Mary's	WV 26170
	Municipality	County	Pleasant
c.	Facility Contact Name	Bob Gerst	
	Title	State Manager	
	Phone	304-665-2461	Email Address bgerst@wvogaop.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
a.	Solid waste permit number(s) for processing or disposal facility being utilized.		
b.	Facility Name		
	Address Line 1		
	Address Line 1		
	Address City State ZIP		
	Municipality	County	
c.	Facility Contact Name		
	Title		
	Phone	Email Address	
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
2. BENEFICIAL USE			
a.	Has the waste been approved for beneficial use? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", list the general permit number or approval number.		
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		

## SECTION D. CERTIFICATION

I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment.

Check the following, if applicable:

- ☐ I certify the information required in Section B-1, General Properties was supplied to the Department for the year \_\_\_\_\_ and has not changed.

Form Submitted:

☐ Form 26R

☐ Other (specify) \_\_\_\_\_

Date Submitted: \_\_\_\_\_

- ☐ I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year \_\_\_\_\_ and has not changed.

Form Submitted:

☐ Form 26R

☐ Other (specify) \_\_\_\_\_

Date Submitted: \_\_\_\_\_

- ☐ I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year \_\_\_\_\_ and has not changed.

Form Submitted:

☐ Form 26R

☐ Other (specify) \_\_\_\_\_

Date Submitted: \_\_\_\_\_

Name of Responsible Official

*Christine Walton*

Title

*ETS Director*

Signature

*Christine Walton*

Date

*5/11/11*

### 3. Process Description & Schematic Attachments

a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.

- Drilling Fluid – Water that has been generated during the drilling process.

WASTE TYPE	WELL ID	WELL NAME	PERMIT	TOWNSHIP	COUNTY	DISPOSAL POINT	TOTAL GALLONS
803	25933	[REDACTED] #1HA	37-125-24241	W. Bethlehem	Washington	Advanced Waste Services	69510
803	25933	[REDACTED] #1HA	37-125-24241	W. Bethlehem	Washington	Appalachian Water Services, LLC	221550
803	25933	[REDACTED] #1HA	37-125-24241	W. Bethlehem	Washington	Franklin	34860
803	25933	[REDACTED] #1HA	37-125-24241	W. Bethlehem	Washington	Tunnelton Liquids Company	193620
						TOTAL WASTE	519540
803	25901	[REDACTED] #8H	37-125-23950	Amwell	Washington	Advanced Waste Services	59640
803	25901	[REDACTED] #8H	37-125-23950	Amwell	Washington	Appalachian Water Services, LLC	28560
803	25901	[REDACTED] #8H	37-125-23950	Amwell	Washington	Franklin	22890
803	25901	[REDACTED] #8H	37-125-23950	Amwell	Washington	Tunnelton Liquids Company	110418
803	25901	[REDACTED] #8H	37-125-23950	Amwell	Washington	Waste Treatment Corporation	21000
						TOTAL WASTE	242508
803	25958	[REDACTED] #9H	37-125-23951	Amwell	Washington	Advanced Waste Services	49140
803	25958	[REDACTED] #9H	37-125-23951	Amwell	Washington	Franklin	14490
803	25958	[REDACTED] #9H	37-125-23951	Amwell	Washington	Tunnelton Liquids Company	106890
						TOTAL WASTE	170520
803	26381	[REDACTED] Unit #8H	37-125-24255	W. Bethlehem	Washington	Advanced Waste Services	36330
803	26381	[REDACTED] Unit #8H	37-125-24255	W. Bethlehem	Washington	Appalachian Water Services, LLC	73710
803	26381	[REDACTED] Unit #8H	37-125-24255	W. Bethlehem	Washington	PA Brine Trt-Josephine PLT	9870
803	26381	[REDACTED] Unit #8H	37-125-24255	W. Bethlehem	Washington	Tunnelton Liquids Company	147000
						TOTAL WASTE	266910
803	26435	[REDACTED] Unit #9H	37-125-24256	W. Bethlehem	Washington	Advanced Waste Services	111090
803	26435	[REDACTED] Unit #9H	37-125-24256	W. Bethlehem	Washington	Appalachian Water Services, LLC	47040
803	26435	[REDACTED] Unit #9H	37-125-24256	W. Bethlehem	Washington	PA Brine Trt-Josephine PLT	18690
803	26435	[REDACTED] Unit #9H	37-125-24256	W. Bethlehem	Washington	Tunnelton Liquids Company	165816
						TOTAL WASTE	342636
803	24403	[REDACTED] #25	37-051-24272	Nicholson	Fayette	Advanced Waste Services	555870
803	24403	[REDACTED] #25	37-051-24272	Nicholson	Fayette	Franklin	179970
803	24403	[REDACTED] #25	37-051-24272	Nicholson	Fayette	Hart Resource Tech Pit	85680
803	24403	[REDACTED] #25	37-051-24272	Nicholson	Fayette	PA Brine Trt-Josephine PLT	77280
803	24403	[REDACTED] #25	37-051-24272	Nicholson	Fayette	Tunnelton Liquids Company	1385790
						TOTAL WASTE	2284590



803	23674	Unit #8H	37-059-25545	Cumberland	Greene	Advanced Waste Services	57330
803	23674	Unit #8H	37-059-25545	Cumberland	Greene	Appalachian Water Services, LLC	199290
803	23674	Unit #8H	37-059-25545	Cumberland	Greene	Tunnelton Liquids Company	63000
						TOTAL WASTE	319620
803	24930	#46H	37-059-25270	Greene	Greene	Advanced Waste Services	124950
803	24930	#46H	37-059-25270	Greene	Greene	Clinton #2	4410
803	24930	#46H	37-059-25270	Greene	Greene	Franklin	34020
803	24930	#46H	37-059-25270	Greene	Greene	PA Brine Trt-Josephine PLT	4620
803	24930	#46H	37-059-25270	Greene	Greene	Miller & Co #3	4200
803	24930	#46H	37-059-25270	Greene	Greene	Tunnelton Liquids Company	55230
						TOTAL WASTE	227430
803	25038	#54H	37-059-25272	Greene	Greene	Advanced Waste Services	19320
803	25038	#54H	37-059-25272	Greene	Greene	Franklin	4620
803	25038	#54H	37-059-25272	Greene	Greene	Tunnelton Liquids Company	2310
						TOTAL WASTE	26250
803	26137	Unit #64H	37-059-25603	Monongahela	Greene	Advanced Waste Services	2520
						TOTAL WASTE	2520
803	26285	#8H	37-063-36859	Greene	Indiana	Advanced Waste Services	168840
803	26285	#8H	37-063-36859	Greene	Indiana	Tunnelton Liquids Company	148680
						TOTAL WASTE	317520
803	25668	Unit #5H	37-051-24311	Redstone	Fayette	Advanced Waste Services	93030
803	25668	Unit #5H	37-051-24311	Redstone	Fayette	Franklin	5040
803	25668	Unit #5H	37-051-24311	Redstone	Fayette	PA Brine Trt-Josephine PLT	5040
						TOTAL WASTE	103110
803	25670	Unit #7H	37-051-24313	Redstone	Fayette	Advanced Waste Services	70770
803	25670	Unit #7H	37-051-24313	Redstone	Fayette	Franklin	4830
803	25670	Unit #7H	37-051-24313	Redstone	Fayette	Tunnelton Liquids Company	47880
						TOTAL WASTE	123480
803	25213	#19	37-129-27943	Salem	Westmoreland	Advanced Waste Services	4830

803	25213	[REDACTED] #19	37-129-27943	Salem	Westmoreland	Tunnelton Liquids Company	29820
						TOTAL WASTE	34650
803	22831	[REDACTED] #14	37-051-24220	Dunbar	Fayette	Advanced Waste Services	2310
						TOTAL WASTE	2310
803	26018	[REDACTED] #6	37-059-25385	Greene	Greene	Advanced Waste Services	74340
803	26018	[REDACTED] #6	37-059-25385	Greene	Greene	Franklin	137130
803	26018	[REDACTED] #6	37-059-25385	Greene	Greene	Tunnelton Liquids Company	149688
803	26018	[REDACTED] #6	37-059-25385	Greene	Greene	Waste Treatment Corporation	14910
						TOTAL WASTE	376068
803	25857	[REDACTED] ol/USX #90	37-059-25334	Monongahela	Greene	Advanced Waste Services	43470
803	25857	[REDACTED] ol/USX #90	37-059-25334	Monongahela	Greene	Tunnelton Liquids Company	9240
						TOTAL WASTE	52710
803	26150	[REDACTED] Unit #10H	37-051-24392	German	Fayette	Advanced Waste Services	566790
803	26150	[REDACTED] Unit #10H	37-051-24392	German	Fayette	Appalachian Water Services, LLC	106470
						TOTAL WASTE	673260
803	26151	[REDACTED] Unit #11H	37-051-24391	German	Fayette	Advanced Waste Services	370440
803	26151	[REDACTED] Unit #11H	37-051-24391	German	Fayette	Appalachian Water Services, LLC	202440
						TOTAL WASTE	572880
803	25745	[REDACTED] Unit #4H	37-125-24185	Deemston	Washington	Advanced Waste Services	175140
803	25745	[REDACTED] Unit #4H	37-125-24185	Deemston	Washington	Appalachian Water Services, LLC	49980
803	25745	[REDACTED] Unit #4H	37-125-24185	Deemston	Washington	Franklin	14910
803	25745	[REDACTED] Unit #4H	37-125-24185	Deemston	Washington	Tunnelton Liquids Company	207060
						TOTAL WASTE	447090
803	25715	[REDACTED] #11H	37-129-28404	S. Huntingdon	Westmoreland	Advanced Waste Services	67620
803	25715	[REDACTED] #11H	37-129-28404	S. Huntingdon	Westmoreland	Appalachian Water Services, LLC	41580
803	25715	[REDACTED] #11H	37-129-28404	S. Huntingdon	Westmoreland	Tunnelton Liquids Company	14910
						TOTAL WASTE	124110
803	25716	[REDACTED] #12H	37-129-28403	S. Huntingdon	Westmoreland	Advanced Waste Services	73080

803	25716	[REDACTED] #12H	37-129-28403	S. Huntingdon	Westmoreland	Franklin	19950
803	25716	[REDACTED] #12H	37-129-28403	S. Huntingdon	Westmoreland	Tunnelton Liquids Company	265230
						TOTAL WASTE	358260
803	25664	[REDACTED] Unit #4	37-051-24304	Redstone	Fayette	Advanced Waste Services	58800
803	25664	[REDACTED] Unit #4	37-051-24304	Redstone	Fayette	Tunnelton Liquids Company	58506
						TOTAL WASTE	117306
803	25665	[REDACTED] Unit #5H	37-051-24305	Redstone	Fayette	Advanced Waste Services	145740
803	25665	[REDACTED] Unit #5H	37-051-24305	Redstone	Fayette	Appalachian Water Services, LLC	57330
803	25665	[REDACTED] Unit #5H	37-051-24305	Redstone	Fayette	Franklin	39060
803	25665	[REDACTED] Unit #5H	37-051-24305	Redstone	Fayette	Tunnelton Liquids Company	100800
						TOTAL WASTE	342930
803	25666	[REDACTED] Unit #6H	37-051-24306	Redstone	Fayette	Advanced Waste Services	44730
803	25666	[REDACTED] Unit #6H	37-051-24306	Redstone	Fayette	Appalachian Water Services, LLC	21840
803	25666	[REDACTED] Unit #6H	37-051-24306	Redstone	Fayette	Tunnelton Liquids Company	78120
						TOTAL WASTE	144690
803	25826	Fayette Beagle Club Unit #5H	37-051-24309	Redstone	Fayette	Advanced Waste Services	17010
803	25826	Fayette Beagle Club Unit #5H	37-051-24309	Redstone	Fayette	Franklin	29610
803	25826	Fayette Beagle Club Unit #5H	37-051-24309	Redstone	Fayette	Tunnelton Liquids Company	84420
						TOTAL WASTE	131040
803	25827	Fayette Beagle Club Unit #6H	37-051-24310	Washington	Fayette	Advanced Waste Services	9240
803	25827	Fayette Beagle Club Unit #6H	37-051-24310	Washington	Fayette	Tunnelton Liquids Company	4830
						TOTAL WASTE	14070
803	26229	[REDACTED] Unit #13H	37-051-24375	Dunbar	Fayette	Advanced Waste Services	28980
803	26229	[REDACTED] Unit #13H	37-051-24375	Dunbar	Fayette	Appalachian Water Services, LLC	469560
803	26229	[REDACTED] Unit #13H	37-051-24375	Dunbar	Fayette	Tunnelton Liquids Company	116256
						TOTAL WASTE	614796
803	25915	[REDACTED] Unit #2H	37-129-28295	Rostraver	Westmoreland	Advanced Waste Services	35070
803	25915	[REDACTED] Unit #2H	37-129-28295	Rostraver	Westmoreland	Franklin	76020
803	25915	[REDACTED] Unit #2H	37-129-28295	Rostraver	Westmoreland	Tunnelton Liquids Company	256620
						TOTAL WASTE	367710

803	25726	Game Lands Unit #1	37-059-25337	Dunkard	Greene	Advanced Waste Services	22596
803	25726	Game Lands Unit #1	37-059-25337	Dunkard	Greene	Franklin	24150
803	25726	Game Lands Unit #1	37-059-25337	Dunkard	Greene	McCutcheon Enterprises, Inc.	9198
803	25726	Game Lands Unit #1	37-059-25337	Dunkard	Greene	Tunnelton Liquids Company	<u>138138</u>
						TOTAL WASTE	194082
803	25727	Game Lands Unit #2H	37-059-25338	Dunkard	Greene	Advanced Waste Services	18900
803	25727	Game Lands Unit #2H	37-059-25338	Dunkard	Greene	Franklin	33810
803	25727	Game Lands Unit #2H	37-059-25338	Dunkard	Greene	Tunnelton Liquids Company	<u>4620</u>
						TOTAL WASTE	57330
803	25777	Game Lands Unit #3H	37-059-25339	Dunkard	Greene	Advanced Waste Services	9450
803	25777	Game Lands Unit #3H	37-059-25339	Dunkard	Greene	Franklin	22680
803	25777	Game Lands Unit #3H	37-059-25339	Dunkard	Greene	Tunnelton Liquids Company	<u>9660</u>
						TOTAL WASTE	41790
803	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	Advanced Waste Services	33390
803	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	Franklin	4830
803	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	Hart Resource Tech Pit	47040
803	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	PA Brine Trt-Josephine PLT	14280
803	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	Tunnelton Liquids Company	<u>103740</u>
						TOTAL WASTE	203280
803	25282	[REDACTED] #1	37-125-23806	W. Bethlehem	Washington	Advanced Waste Services	64260
803	25282	[REDACTED] #1	37-125-23806	W. Bethlehem	Washington	Franklin	15960
803	25282	[REDACTED] #1	37-125-23806	W. Bethlehem	Washington	PA Brine Trt-Josephine PLT	4830
803	25282	[REDACTED] #1	37-125-23806	W. Bethlehem	Washington	Tunnelton Liquids Company	<u>57330</u>
						TOTAL WASTE	142380
803	25884	[REDACTED] #11	37-059-25373	Greene	Greene	Advanced Waste Services	139860
803	25884	[REDACTED] #11	37-059-25373	Greene	Greene	Franklin	7140
803	25884	[REDACTED] #11	37-059-25373	Greene	Greene	Tunnelton Liquids Company	<u>111720</u>
						TOTAL WASTE	258720
803	25060	[REDACTED] Unit #8	37-059-25341	Cumberland	Greene	Advanced Waste Services	52290
803	25060	[REDACTED] Unit #8	37-059-25341	Cumberland	Greene	Appalachian Water Services, LLC	188790



803	25060	Unit #8	37-059-25341	Cumberland	Greene	Franklin	90510
803	25060	Unit #8	37-059-25341	Cumberland	Greene	Tunnelton Liquids Company	162288
						TOTAL WASTE	493878
803	30418	2	37-063-36374	W. Wheatfield	Indiana	Advanced Waste Services	32130
803	30418	2	37-063-36374	W. Wheatfield	Indiana	PA Brine Trt-Josephine PLT	4620
803	30418	2	37-063-36374	W. Wheatfield	Indiana	Tunnelton Liquids Company	164430
						TOTAL WASTE	201180
803	24310	Jackson Farms Unit #31H	37-051-24235	Redstone	Fayette	Advanced Waste Services	25620
803	24310	Jackson Farms Unit #31H	37-051-24235	Redstone	Fayette	Franklin	24570
803	24310	Jackson Farms Unit #31H	37-051-24235	Redstone	Fayette	Tunnelton Liquids Company	18480
						TOTAL WASTE	68670
803	24311	Jackson Farms Unit #32H	37-051-24234	Redstone	Fayette	Advanced Waste Services	34650
803	24311	Jackson Farms Unit #32H	37-051-24234	Redstone	Fayette	Franklin	13020
803	24311	Jackson Farms Unit #32H	37-051-24234	Redstone	Fayette	Tunnelton Liquids Company	8820
						TOTAL WASTE	56490
803	24312	Jackson Farms Unit #33H	37-051-24233	Redstone	Fayette	Advanced Waste Services	14700
803	24312	Jackson Farms Unit #33H	37-051-24233	Redstone	Fayette	Franklin	23520
803	24312	Jackson Farms Unit #33H	37-051-24233	Redstone	Fayette	Tunnelton Liquids Company	32340
						TOTAL WASTE	70560
803	24995	Jackson Farms Unit #37H	37-051-24369	Redstone	Fayette	Advanced Waste Services	75642
803	24995	Jackson Farms Unit #37H	37-051-24369	Redstone	Fayette	Appalachian Water Services, LLC	183498
803	24995	Jackson Farms Unit #37H	37-051-24369	Redstone	Fayette	Franklin	9240
803	24995	Jackson Farms Unit #37H	37-051-24369	Redstone	Fayette	PA Brine Trt-Josephine PLT	10500
803	24995	Jackson Farms Unit #37H	37-051-24369	Redstone	Fayette	Tunnelton Liquids Company	199626
						TOTAL WASTE	478506
803	24996	Jackson Farms Unit #38H	37-051-24373	Redstone	Fayette	Advanced Waste Services	30072
803	24996	Jackson Farms Unit #38H	37-051-24373	Redstone	Fayette	Appalachian Water Services, LLC	175938
803	24996	Jackson Farms Unit #38H	37-051-24373	Redstone	Fayette	Franklin	59430
803	24996	Jackson Farms Unit #38H	37-051-24373	Redstone	Fayette	PA Brine Trt-Josephine PLT	18522
803	24996	Jackson Farms Unit #38H	37-051-24373	Redstone	Fayette	Tunnelton Liquids Company	248724
						TOTAL WASTE	532686



803	24997	Jackson Farms Unit #39H	37-051-24372	Redstone	Fayette	Advanced Waste Services	99246
803	24997	Jackson Farms Unit #39H	37-051-24372	Redstone	Fayette	Appalachian Water Services, LLC	83748
803	24997	Jackson Farms Unit #39H	37-051-24372	Redstone	Fayette	Franklin	42630
803	24997	Jackson Farms Unit #39H	37-051-24372	Redstone	Fayette	PA Brine Trt-Josephine PLT	6048
803	24997	Jackson Farms Unit #39H	37-051-24372	Redstone	Fayette	Tunnelton Liquids Company	215880
						TOTAL WASTE	447552
803	25925	#5	37-129-28252	Sewickley	Westmoreland	Advanced Waste Services	18270
803	25925	#5	37-129-28252	Sewickley	Westmoreland	Tunnelton Liquids Company	73290
						TOTAL WASTE	91560
803	24974	#17	37-059-25245	Dunkard	Greene	Advanced Waste Services	72870
						TOTAL WASTE	72870
803	24979	#22H	37-059-25249	Dunkard	Greene	Advanced Waste Services	56700
803	24979	#22H	37-059-25249	Dunkard	Greene	Tunnelton Liquids Company	45948
						TOTAL WASTE	102648
803	25106	#4H	37-129-27964	Salem	Westmoreland	Advanced Waste Services	82740
803	25106	#4H	37-129-27964	Salem	Westmoreland	Franklin	50190
803	25106	#4H	37-129-27964	Salem	Westmoreland	PA Brine Trt-Josephine PLT	18900
803	25106	#4H	37-129-27964	Salem	Westmoreland	Tunnelton Liquids Company	29820
						TOTAL WASTE	181650
803	24043	#21	37-059-25159	Monongahela	Greene	Advanced Waste Services	41370
803	24043	#21	37-059-25159	Monongahela	Greene	Tunnelton Liquids Company	57960
						TOTAL WASTE	99330
803	25605	#33	37-059-25185	Monongahela	Greene	Advanced Waste Services	44100
						TOTAL WASTE	44100
803	25758	9	37-129-28113	Rostraver	Westmoreland	Advanced Waste Services	110880
803	25758	9	37-129-28113	Rostraver	Westmoreland	Hart Resource Tech Pit	10080
803	25758	9	37-129-28113	Rostraver	Westmoreland	Tunnelton Liquids Company	84840
						TOTAL WASTE	205800

803	30425	[REDACTED] Unit #1	37-063-36627	W. Wheatfield	Indiana	Advanced Waste Services	104580
803	30425	[REDACTED] Unit #1	37-063-36627	W. Wheatfield	Indiana	Hart Resource Tech Pit	227640
803	30425	[REDACTED] Unit #1	37-063-36627	W. Wheatfield	Indiana	PA Brine Trt-Josephine PLT	37800
803	30425	[REDACTED] Unit #1	37-063-36627	W. Wheatfield	Indiana	Tunnelton Liquids Company	323190
						TOTAL WASTE	693210
803	25769	[REDACTED] #4	37-051-24266	Springhill	Fayette	Advanced Waste Services	122850
803	25769	[REDACTED] #4	37-051-24266	Springhill	Fayette	Franklin	14280
803	25769	[REDACTED] #4	37-051-24266	Springhill	Fayette	PA Brine Trt-Josephine PLT	10290
803	25769	[REDACTED] #4	37-051-24266	Springhill	Fayette	Tunnelton Liquids Company	98070
						TOTAL WASTE	245490
803	25853	[REDACTED] #20	37-059-25362	Jefferson	Greene	Advanced Waste Services	30240
803	25853	[REDACTED] #20	37-059-25362	Jefferson	Greene	Franklin	13860
803	25853	[REDACTED] #20	37-059-25362	Jefferson	Greene	Tunnelton Liquids Company	111300
						TOTAL WASTE	155400
803	25924	National Mines Corp. #26H	37-051-24365	Luzerne	Fayette	Advanced Waste Services	118230
803	25924	National Mines Corp. #26H	37-051-24365	Luzerne	Fayette	Franklin	74340
803	25924	National Mines Corp. #26H	37-051-24365	Luzerne	Fayette	PA Brine Trt-Josephine PLT	19950
803	25924	National Mines Corp. #26H	37-051-24365	Luzerne	Fayette	Tunnelton Liquids Company	95760
803	25924	National Mines Corp. #26H	37-051-24365	Luzerne	Fayette	West Virginia Oil Gathering	10416
						TOTAL WASTE	318696
803	25197	[REDACTED] Unit #3H	37-051-24257	Lower Tyrone	Fayette	Advanced Waste Services	2100
803	25197	[REDACTED] Unit #3H	37-051-24257	Lower Tyrone	Fayette	Franklin	4830
803	25197	[REDACTED] Unit #3H	37-051-24257	Lower Tyrone	Fayette	Hart Resource Tech Pit	18060
803	25197	[REDACTED] Unit #3H	37-051-24257	Lower Tyrone	Fayette	PA Brine Trt-Josephine PLT	14700
803	25197	[REDACTED] Unit #3H	37-051-24257	Lower Tyrone	Fayette	Tunnelton Liquids Company	146160
						TOTAL WASTE	185850
803	25742	[REDACTED] JT #2H	37-063-36738	W. Wheatfield	Indiana	Advanced Waste Services	73080
803	25742	[REDACTED] JT #2H	37-063-36738	W. Wheatfield	Indiana	Franklin	19950
803	25742	[REDACTED] JT #2H	37-063-36738	W. Wheatfield	Indiana	Tunnelton Liquids Company	275310
						TOTAL WASTE	368340
803	25026	[REDACTED] #29	37-051-24249	Washington	Fayette	Advanced Waste Services	132930

803	25026	[REDACTED]	29	37-051-24249	Washington	Fayette	PA Brine Trt-Josephine PLT	10080
803	25026	[REDACTED]	29	37-051-24249	Washington	Fayette	Tunnelton Liquids Company	28350
							TOTAL WASTE	171360
803	23182	[REDACTED]	15H	37-125-24044	Robinson	Washington	Advanced Waste Services	127890
							TOTAL WASTE	127890
803	24910	[REDACTED]	#18H	37-125-23963	Robinson	Washington	Advanced Waste Services	178920
							TOTAL WASTE	178920
803	25304	[REDACTED]	#8	37-129-28084	Sewickley	Westmoreland	Advanced Waste Services	53886
803	25304	[REDACTED]	#8	37-129-28084	Sewickley	Westmoreland	Tunnelton Liquids Company	68670
							TOTAL WASTE	122556
803	25996	[REDACTED]	#1	37-051-24314	Franklin	Fayette	Advanced Waste Services	124110
803	25996	[REDACTED]	#1	37-051-24314	Franklin	Fayette	Appalachian Water Services, LLC	23730
803	25996	[REDACTED]	#1	37-051-24314	Franklin	Fayette	Franklin	39690
							Tunnelton Liquids Company	257250
							TOTAL WASTE	444780
803	25880	[REDACTED]	Unit #1H	37-051-24279	Brownsville	Fayette	Advanced Waste Services	36330
803	25880	[REDACTED]	Unit #1H	37-051-24279	Brownsville	Fayette	Franklin	24780
803	25880	[REDACTED]	Unit #1H	37-051-24279	Brownsville	Fayette	Tunnelton Liquids Company	255486
							TOTAL WASTE	316596
803	25680	[REDACTED]	Unit #26H	37-051-24344	Redstone	Fayette	Advanced Waste Services	23940
803	25680	[REDACTED]	Unit #26H	37-051-24344	Redstone	Fayette	PA Brine Trt-Josephine PLT	9240
803	25680	[REDACTED]	Unit #26H	37-051-24344	Redstone	Fayette	Tunnelton Liquids Company	65730
							TOTAL WASTE	98910
803	25681	[REDACTED]	Unit #27H	37-051-24343	Redstone	Fayette	Advanced Waste Services	46830
803	25681	[REDACTED]	Unit #27H	37-051-24343	Redstone	Fayette	Appalachian Water Services, LLC	162750
803	25681	[REDACTED]	Unit #27H	37-051-24343	Redstone	Fayette	Tunnelton Liquids Company	18480
							TOTAL WASTE	228060
803	26474	[REDACTED]	Unit #34H	37-051-24388	Redstone	Fayette	Advanced Waste Services	29820

803	26474	[REDACTED] Unit #34H	37-051-24388	Redstone	Fayette	Appalachian Water Services, LLC	267330
803	26474	[REDACTED] Unit #34H	37-051-24388	Redstone	Fayette	PA Brine Trt-Josephine PLT	4830
803	26474	[REDACTED] Unit #34H	37-051-24388	Redstone	Fayette	Tunnelton Liquids Company	34440
						TOTAL WASTE	336420
803	26475	[REDACTED] Unit #35H	37-051-25389	Redstone	Fayette	Advanced Waste Services	49980
803	26475	[REDACTED] Unit #35H	37-051-25389	Redstone	Fayette	Appalachian Water Services, LLC	343140
803	26475	[REDACTED] Unit #35H	37-051-25389	Redstone	Fayette	PA Brine Trt-Josephine PLT	5040
803	26475	[REDACTED] Unit #35H	37-051-25389	Redstone	Fayette	Tunnelton Liquids Company	29715
						TOTAL WASTE	427875
803	25682	[REDACTED] Unit #28H	37-051-24342	Redstone	Fayette	Advanced Waste Services	85260
803	25682	[REDACTED] Unit #28H	37-051-24342	Redstone	Fayette	Appalachian Water Services, LLC	135240
803	25682	[REDACTED] Unit #28H	37-051-24342	Redstone	Fayette	Tunnelton Liquids Company	23520
						TOTAL WASTE	244020
803	26016	[REDACTED] Unit #30H	37-051-24341	Redstone	Fayette	Advanced Waste Services	60165
803	26016	[REDACTED] Unit #30H	37-051-24341	Redstone	Fayette	Appalachian Water Services, LLC	91980
803	26016	[REDACTED] Unit #30H	37-051-24341	Redstone	Fayette	Franklin	36435
803	26016	[REDACTED] Unit #30H	37-051-24341	Redstone	Fayette	PA Brine Trt-Josephine PLT	2520
803	26016	[REDACTED] Unit #30H	37-051-24341	Redstone	Fayette	Tunnelton Liquids Company	58590
						TOTAL WASTE	249690
803	26017	[REDACTED] Unit #31H	37-051-24340	Redstone	Fayette	Advanced Waste Services	68985
803	26017	[REDACTED] Unit #31H	37-051-24340	Redstone	Fayette	Appalachian Water Services, LLC	81270
803	26017	[REDACTED] Unit #31H	37-051-24340	Redstone	Fayette	Franklin	36435
803	26017	[REDACTED] Unit #31H	37-051-24340	Redstone	Fayette	PA Brine Trt-Josephine PLT	2520
803	26017	[REDACTED] Unit #31H	37-051-24340	Redstone	Fayette	Tunnelton Liquids Company	58590
						TOTAL WASTE	247800
803	26040	[REDACTED] Unit #32H	37-051-24316	Redstone	Fayette	Advanced Waste Services	186900
803	26040	[REDACTED] Unit #32H	37-051-24316	Redstone	Fayette	Franklin	29820
803	26040	[REDACTED] Unit #32H	37-051-24316	Redstone	Fayette	PA Brine Trt-Josephine PLT	9660
803	26040	[REDACTED] Unit #32H	37-051-24316	Redstone	Fayette	Tunnelton Liquids Company	116340
						TOTAL WASTE	342720
803	26041	[REDACTED] Unit #33H	37-051-24317	Redstone	Fayette	Advanced Waste Services	252000
803	26041	[REDACTED] Unit #33H	37-051-24317	Redstone	Fayette	Tunnelton Liquids Company	116760



						TOTAL WASTE	368760
803	26476	Unit #36	37-051-24390	Redstone	Fayette	Advanced Waste Services	51240
803	26476	Unit #36	37-051-24390	Redstone	Fayette	Appalachian Water Services, LLC	154980
						TOTAL WASTE	206220
803	25759	#59H	37-129-28130	Rostraver	Westmoreland	Advanced Waste Services	60900
803	25759	#59H	37-129-28130	Rostraver	Westmoreland	Franklin	62160
803	25759	#59H	37-129-28130	Rostraver	Westmoreland	Tunnelton Liquids Company	102480
						TOTAL WASTE	225540
803	23467	Unit #39	37-129-28129	Rostraver	Westmoreland	Advanced Waste Services	840
803	23467	Unit #39	37-129-28129	Rostraver	Westmoreland	Tunnelton Liquids Company	9870
						TOTAL WASTE	10710
803	25760	Unit #60H	37-129-28131	Rostraver	Westmoreland	Franklin	20160
803	25760	Unit #60H	37-129-28131	Rostraver	Westmoreland	Tunnelton Liquids Company	19530
						TOTAL WASTE	39690
803	24154	#19	37-059-25162	Jefferson	Greene	Advanced Waste Services	28140
803	24154	#19	37-059-25162	Jefferson	Greene	McCutcheon Enterprises, Inc.	4620
803	24154	#19	37-059-25162	Jefferson	Greene	Tunnelton Liquids Company	4620
						TOTAL WASTE	37380
803	25887	#1	37-051-24284	Franklin	Fayette	Advanced Waste Services	18690
						Franklin	32760
						Tunnelton Liquids Company	14070
						TOTAL WASTE	65520
803	25389	1	37-129-28123	Sewickley	Westmoreland	Advanced Waste Services	178920
803	25389	1	37-129-28123	Sewickley	Westmoreland	PA Brine Trt-Josephine PLT	14490
803	25389	1	37-129-28123	Sewickley	Westmoreland	Miller & Co #3	21210
803	25389	1	37-129-28123	Sewickley	Westmoreland	Tunnelton Liquids Company	118230
						TOTAL WASTE	332850
803	26048	Unit #20H	37-129-28264	S. Huntingdon	Westmoreland	Advanced Waste Services	5040



[illegible]

## **Exhibit 2E**

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WASTE MANAGEMENT

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 26R, reference the item number and identify the date prepared. The date on attached sheets needs to match the date noted below.					DEP USE ONLY Date Received & General Notes	
General Reference 287.54						
Date Prepared/Revised						
<b>SECTION A: CLIENT/GENERATOR OF THE WASTE INFORMATION</b>						
Company Name Atlas Resources, LLC						
If a Subsidiary, Name of Parent Company					EPA Generator ID#	
Company Mailing Address Line 1 800 Mountain View Drive			Company Mailing Address Line 2			
Company Address Last Line - City Smithfield			State PA	Zip+4 15478+8902	Phone 724-564-2360	Ext. 137
Company Contact Last Name Butchko		First Name Jenny	MI L	Suffix		
Municipality Georges			County Fayette			
Contact Phone 724-564-2360		Ext 137	Contact Email Address jbutchko@atlasenergy.com			
Is the waste generated at the Company Mailing Address (noted above)?					<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If 'No', describe location of waste generation and storage. <u>See attachment</u>						
Municipality Georges		County Fayette		State PA		
<b>SECTION B: WASTE DESCRIPTION</b>						
Residual Waste Code 803	Residual Waste Code Description Drilling Fluid		Amount See attachment	Unit of Measure <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton		Time Frame 2010 <input type="checkbox"/> One Time
<b>1. GENERAL PROPERTIES</b>						
a. pH Range		n/a to n/a (based on analyses or knowledge)				
b. Physical State		<input checked="" type="checkbox"/> Liquid Waste (EPA Method 9095) <input type="checkbox"/> Solid (EPA Method 9095) <input type="checkbox"/> Gas (ambient temperature & pressure)				
c. Physical Appearance		Color <u>Clear</u> Odor <u>None</u> Number of Solid or Liquid Phases of Separation _____ Describe each phase of separation. _____				
<b>2. CHEMICAL ANALYSIS ATTACHMENTS</b>						
a. The results of a detailed chemical characterization of the waste, as described in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No				
b. A detailed description of the waste sampling method is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No				
c. The quality assurance/quality control procedures employed by the laboratory(ies) is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No				
d. The results of the hazardous waste determination is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No				
e. If applicable, a detailed explanation supporting use of generator knowledge in lieu of actual chemical analysis is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A				

\* Characterization is on file at the DEP that refers to the county in which the stream was generated.

3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS			
a.	A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
c.	If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<b>SECTION C. MANAGEMENT OF RESIDUAL WASTE</b>			
<b>1. PROCESSING OR DISPOSAL FACILITY(IES)</b>			
The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PAR0000291		
b.	Facility Name <u>Advanced Waste Services</u> Address Line 1 <u>1001 Sampson Street</u> Address Line 1 _____ Address City State ZIP <u>New Castle PA 16101</u> Municipality <u>City of New Castle</u> County <u>Lawrence</u>		
c.	Facility Contact Name <u>Anthony Cialella</u> Title <u>General Manager</u> Phone <u>724-657-8777</u> Email Address <u>avialella@advancedwasteservices.com</u>		
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
a.	Solid waste permit number(s) for processing or disposal facility being utilized. 253723		
b.	Facility Name <u>Appalachian Water Services, LLC</u> Address Line 1 <u>195 Enterprise Lane</u> Address Line 1 _____ Address City State ZIP <u>Connellsville PA 15425</u> Municipality <u>Masontown</u> County <u>Fayette</u>		
c.	Facility Contact Name <u>George Milne</u> Title <u>Supervisor</u> Phone <u>724-583-2081</u> Email Address <u>georgem@shallenbergerconstruction.com</u>		
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
<b>2. BENEFICIAL USE</b>			
a.	Has the waste been approved for beneficial use? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", list the general permit number or approval number.		
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		



3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS			
a.	A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
c.	If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
SECTION C: MANAGEMENT OF RESIDUAL WASTE			
1. PROCESSING OR DISPOSAL FACILITY(IES)			
The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. 3262		
b.	Facility Name	Clinton SWIW #2	
	Address Line 1	P.O. box 367	
	Address Line 1		
	Address City State ZIP	Garrettsville OH 44231	
	Municipality	Freedom County	Portage
c.	Facility Contact Name	Dave Ballentine	
	Title	President	
	Phone	330-221-6681	Email Address davjball@yahoo.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA 0101508		
b.	Facility Name	Franklin	
	Address Line 1	5148 US 322	
	Address Line 1		
	Address City State ZIP	Franklin PA 16323	
	Municipality	Sandycreek County	Venango
c.	Facility Contact Name	Elton DeLong	
	Title	Operations Manager	
	Phone	814-437-3593	Email Address sparky@pabrine.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
2. BENEFICIAL USE			
a.	Has the waste been approved for beneficial use?		<input type="checkbox"/> Yes <input type="checkbox"/> No
	If "Yes", list the general permit number or approval number.		
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		

3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS																							
a.	A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No																				
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No																				
c.	If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A																				
SECTION C: MANAGEMENT OF RESIDUAL WASTE																							
1. PROCESSING OR DISPOSAL FACILITY(IES)																							
The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.																							
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA 0095443																						
b.	<table border="0"> <tr> <td>Facility Name</td> <td colspan="3">Hart Resource Tech Pit</td> </tr> <tr> <td>Address Line 1</td> <td colspan="3">P.O. Box 232 TR 110 West</td> </tr> <tr> <td>Address Line 1</td> <td colspan="3"></td> </tr> <tr> <td>Address City State ZIP</td> <td>Creekside</td> <td>PA</td> <td>15732</td> </tr> <tr> <td>Municipality</td> <td>Washington</td> <td>County</td> <td>Indiana</td> </tr> </table>			Facility Name	Hart Resource Tech Pit			Address Line 1	P.O. Box 232 TR 110 West			Address Line 1				Address City State ZIP	Creekside	PA	15732	Municipality	Washington	County	Indiana
Facility Name	Hart Resource Tech Pit																						
Address Line 1	P.O. Box 232 TR 110 West																						
Address Line 1																							
Address City State ZIP	Creekside	PA	15732																				
Municipality	Washington	County	Indiana																				
c.	<table border="0"> <tr> <td>Facility Contact Name</td> <td colspan="3">Becky Snyder</td> </tr> <tr> <td>Title</td> <td colspan="3">Operations Manager</td> </tr> <tr> <td>Phone</td> <td>724-349-8600</td> <td>Email Address</td> <td>hart8600@comcast.net</td> </tr> </table>			Facility Contact Name	Becky Snyder			Title	Operations Manager			Phone	724-349-8600	Email Address	hart8600@comcast.net								
Facility Contact Name	Becky Snyder																						
Title	Operations Manager																						
Phone	724-349-8600	Email Address	hart8600@comcast.net																				
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)																						
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA 0095273																						
b.	<table border="0"> <tr> <td>Facility Name</td> <td colspan="3">PA Brine Trt-Josephine Pit</td> </tr> <tr> <td>Address Line 1</td> <td colspan="3">5148 US 322</td> </tr> <tr> <td>Address Line 1</td> <td colspan="3"></td> </tr> <tr> <td>Address City State ZIP</td> <td>Franklin</td> <td>PA</td> <td>16323</td> </tr> <tr> <td>Municipality</td> <td>Sandycreek</td> <td>County</td> <td>Venango</td> </tr> </table>			Facility Name	PA Brine Trt-Josephine Pit			Address Line 1	5148 US 322			Address Line 1				Address City State ZIP	Franklin	PA	16323	Municipality	Sandycreek	County	Venango
Facility Name	PA Brine Trt-Josephine Pit																						
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Municipality	Sandycreek	County	Venango																				
c.	<table border="0"> <tr> <td>Facility Contact Name</td> <td colspan="3">Elton DeLong</td> </tr> <tr> <td>Title</td> <td colspan="3">Operations Manager</td> </tr> <tr> <td>Phone</td> <td>814-437-3593</td> <td>Email Address</td> <td>sparky@pabrine.com</td> </tr> </table>			Facility Contact Name	Elton DeLong			Title	Operations Manager			Phone	814-437-3593	Email Address	sparky@pabrine.com								
Facility Contact Name	Elton DeLong																						
Title	Operations Manager																						
Phone	814-437-3593	Email Address	sparky@pabrine.com																				
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)																						
2. BENEFICIAL USE																							
a.	Has the waste been approved for beneficial use? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", list the general permit number or approval number.																						
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)																						

**3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS**

- a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☒ Yes ☐ No
- b. A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☐ Yes ☒ No
- c. If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached. ☐ Yes ☐ No ☒ N/A

**SECTION C. MANAGEMENT OF RESIDUAL WASTE****1. PROCESSING OR DISPOSAL FACILITY(IES)**

The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.

- a. Solid waste permit number(s) for processing or disposal facility being utilized.  
101674
- b. Facility Name: McCutcheon Enterprises, Inc.  
Address Line 1: 250 Park Road  
Address Line 1:  
Address City State ZIP: Apollo PA 15613  
Municipality: Alleghney County Westmoreland
- c. Facility Contact Name: Mack Flood  
Title: Business Development Engineer  
Phone: 724-568-3623 Email Address: mackf@completewastemgmt.com
- d. Volume of waste shipped to processing or disposal facility in the previous year.  
☐ cu yd ☒ gal ☐ lb ☐ ton (check one)
- a. Solid waste permit number(s) for processing or disposal facility being utilized.  
4355
- b. Facility Name: Miller & Co. #3  
Address Line 1: P.O. Box 367  
Address Line 1:  
Address City State ZIP: Garrettsville OH 44231  
Municipality: Freedom County Portage
- c. Facility Contact Name: Dave Ballentine  
Title: President  
Phone: 330-221-6681 Email Address: davejball@yahoo.com
- d. Volume of waste shipped to processing or disposal facility in the previous year.  
☐ cu yd ☒ gal ☐ lb ☐ ton (check one)

**2. BENEFICIAL USE**

- a. Has the waste been approved for beneficial use? ☐ Yes ☐ No  
If "Yes", list the general permit number or approval number.
- b. Volume of waste beneficially used in the previous year.  
☐ cu yd ☐ gal ☐ lb ☐ ton (check one)

3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS			
a.	A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
c.	If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
SECTION C. MANAGEMENT OF RESIDUAL WASTE			
1. PROCESSING OR DISPOSAL FACILITY(IES)			
The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA0091472		
b.	Facility Name	Tunnelton Liquids Company	
	Address Line 1	P.O. Box 667	
	Address Line 1		
	Address City State ZIP	Clarion	PA 16214
	Municipality	Clarion Borough	County Clarion
c.	Facility Contact Name	Paula Wolbort	
	Title	Accountant	
	Phone	814-226-5016	Email Address pwolbort@usachoice.net
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
a.	Solid waste permit number(s) for processing or disposal facility being utilized. PA0102784		
b.	Facility Name	Waste Treatment Corporation	
	Address Line 1	341 West Harmer Street	
	Address Line 1		
	Address City State ZIP	Warren	PA 16365
	Municipality	City of Warren	County Warren
c.	Facility Contact Name	Eric Johnson	
	Title	Plant Supervisor	
	Phone	724-228-9674	Email Address accounting@waste-treatment.net
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
2. BENEFICIAL USE			
a.	Has the waste been approved for beneficial use? If "Yes", list the general permit number or approval number.		<input type="checkbox"/> Yes <input type="checkbox"/> No
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		



3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS			
a.	A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
c.	If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<b>SECTION C: MANAGEMENT OF RESIDUAL WASTE</b>			
<b>1. PROCESSING OR DISPOSAL FACILITY(IES)</b>			
The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. WV3416729395		
b.	Facility Name: West Virginia Oil Gathering Address Line 1: 157 Lower Eureka Road Address Line 1: Address City State ZIP: Saint Mary's WV 26170 Municipality: County: Pleasant		
c.	Facility Contact Name: Bob Gerst Title: State Manager Phone: 304-665-2461 Email Address: bgerst@wvogaop.com		
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
a.	Solid waste permit number(s) for processing or disposal facility being utilized.		
b.	Facility Name: Address Line 1: Address Line 1: Address City State ZIP: Municipality: County:		
c.	Facility Contact Name: Title: Phone: Email Address:		
d.	Volume of waste shipped to processing or disposal facility in the previous year. <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		
<b>2. BENEFICIAL USE</b>			
a.	Has the waste been approved for beneficial use? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", list the general permit number or approval number.		
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)		

## SECTION D. CERTIFICATION

I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment.

Check the following, if applicable:

- ☐ I certify the information required in Section B-1, General Properties was supplied to the Department for the year \_\_\_\_\_ and has not changed.

Form Submitted:

☐ Form 26R

☐ Other (specify) \_\_\_\_\_

Date Submitted: \_\_\_\_\_

- ☐ I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year \_\_\_\_\_ and has not changed.

Form Submitted:

☐ Form 26R

☐ Other (specify) \_\_\_\_\_

Date Submitted: \_\_\_\_\_

- ☐ I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year \_\_\_\_\_ and has not changed.

Form Submitted:

☐ Form 26R

☐ Other (specify) \_\_\_\_\_

Date Submitted: \_\_\_\_\_

Name of Responsible Official

Title

Signature

Date

Christine Walton

ETS Director

Christine Walton

5/11/11

### 3. Process Description & Schematic Attachments

a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.

- Drilling Fluid – Water that has been generated during the drilling process.

WASTE TYPE	WELL ID	WELL NAME	PERMIT #	TOWNSHIP	COUNTY	DISPOSAL POINT	TOTAL GALLONS
803	25933	[REDACTED] #1HA	37-125-24241	W. Bethlehem	Washington	Advanced Waste Services	69510
803	25933	[REDACTED] #1HA	37-125-24241	W. Bethlehem	Washington	Appalachian Water Services, LLC	221550
803	25933	[REDACTED] #1HA	37-125-24241	W. Bethlehem	Washington	Franklin	34860
803	25933	[REDACTED] #1HA	37-125-24241	W. Bethlehem	Washington	Tunnelton Liquids Company	193620
						TOTAL WASTE	519540
803	25901	[REDACTED] #8H	37-125-23950	Amwell	Washington	Advanced Waste Services	59640
803	25901	[REDACTED] #8H	37-125-23950	Amwell	Washington	Appalachian Water Services, LLC	28560
803	25901	[REDACTED] #8H	37-125-23950	Amwell	Washington	Franklin	22890
803	25901	[REDACTED] #8H	37-125-23950	Amwell	Washington	Tunnelton Liquids Company	110418
803	25901	[REDACTED] #8H	37-125-23950	Amwell	Washington	Waste Treatment Corporation	21000
						TOTAL WASTE	242508
803	25958	[REDACTED] #9H	37-125-23951	Amwell	Washington	Advanced Waste Services	49140
803	25958	[REDACTED] #9H	37-125-23951	Amwell	Washington	Franklin	14490
803	25958	[REDACTED] #9H	37-125-23951	Amwell	Washington	Tunnelton Liquids Company	106890
						TOTAL WASTE	170520
803	26381	[REDACTED] Unit #8H	37-125-24255	W. Bethlehem	Washington	Advanced Waste Services	36330
803	26381	[REDACTED] Unit #8H	37-125-24255	W. Bethlehem	Washington	Appalachian Water Services, LLC	73710
803	26381	[REDACTED] Unit #8H	37-125-24255	W. Bethlehem	Washington	PA Brine Trt-Josephine PLT	9870
803	26381	[REDACTED] Unit #8H	37-125-24255	W. Bethlehem	Washington	Tunnelton Liquids Company	147000
						TOTAL WASTE	266910
803	26435	[REDACTED] Unit #9H	37-125-24256	W. Bethlehem	Washington	Advanced Waste Services	111090
803	26435	[REDACTED] Unit #9H	37-125-24256	W. Bethlehem	Washington	Appalachian Water Services, LLC	47040
803	26435	[REDACTED] Unit #9H	37-125-24256	W. Bethlehem	Washington	PA Brine Trt-Josephine PLT	18690
803	26435	[REDACTED] Unit #9H	37-125-24256	W. Bethlehem	Washington	Tunnelton Liquids Company	165816
						TOTAL WASTE	342636
803	24403	[REDACTED] #25	37-051-24272	Nicholson	Fayette	Advanced Waste Services	555870
803	24403	[REDACTED] #25	37-051-24272	Nicholson	Fayette	Franklin	179970
803	24403	[REDACTED] #25	37-051-24272	Nicholson	Fayette	Hart Resource Tech Pit	85680
803	24403	[REDACTED] #25	37-051-24272	Nicholson	Fayette	PA Brine Trt-Josephine PLT	77280
803	24403	[REDACTED] #25	37-051-24272	Nicholson	Fayette	Tunnelton Liquids Company	1385790
						TOTAL WASTE	2284590

803	23674	[REDACTED] Unit #8H	37-059-25545	Cumberland	Greene	Advanced Waste Services	57330
803	23674	[REDACTED] Unit #8H	37-059-25545	Cumberland	Greene	Appalachian Water Services, LLC	199290
803	23674	[REDACTED] Unit #8H	37-059-25545	Cumberland	Greene	Tunnelton Liquids Company	<u>63000</u>
						TOTAL WASTE	319620
803	24930	[REDACTED] #46H	37-059-25270	Greene	Greene	Advanced Waste Services	124950
803	24930	[REDACTED] #46H	37-059-25270	Greene	Greene	Clinton #2	4410
803	24930	[REDACTED] #46H	37-059-25270	Greene	Greene	Franklin	34020
803	24930	[REDACTED] #46H	37-059-25270	Greene	Greene	PA Brine Trt-Josephine PLT	4620
803	24930	[REDACTED] #46H	37-059-25270	Greene	Greene	Miller & Co #3	4200
803	24930	[REDACTED] #46H	37-059-25270	Greene	Greene	Tunnelton Liquids Company	<u>55230</u>
						TOTAL WASTE	227430
803	25038	[REDACTED] #54H	37-059-25272	Greene	Greene	Advanced Waste Services	19320
803	25038	[REDACTED] #54H	37-059-25272	Greene	Greene	Franklin	4620
803	25038	[REDACTED] #54H	37-059-25272	Greene	Greene	Tunnelton Liquids Company	<u>2310</u>
						TOTAL WASTE	26250
803	26137	[REDACTED] Unit #64H	37-059-25603	Monongahela	Greene	Advanced Waste Services	<u>2520</u>
						TOTAL WASTE	2520
803	26285	[REDACTED] #8H	37-063-36859	Greene	Indiana	Advanced Waste Services	168840
803	26285	[REDACTED] #8H	37-063-36859	Greene	Indiana	Tunnelton Liquids Company	<u>148680</u>
						TOTAL WASTE	317520
803	25668	[REDACTED] Unit #5H	37-051-24311	Redstone	Fayette	Advanced Waste Services	93030
803	25668	[REDACTED] Unit #5H	37-051-24311	Redstone	Fayette	Franklin	5040
803	25668	[REDACTED] Unit #5H	37-051-24311	Redstone	Fayette	PA Brine Trt-Josephine PLT	5040
						TOTAL WASTE	103110
803	25670	[REDACTED] Unit #7H	37-051-24313	Redstone	Fayette	Advanced Waste Services	70770
803	25670	[REDACTED] Unit #7H	37-051-24313	Redstone	Fayette	Franklin	4830
803	25670	[REDACTED] Unit #7H	37-051-24313	Redstone	Fayette	Tunnelton Liquids Company	<u>47880</u>
						TOTAL WASTE	123480
803	25213	[REDACTED] #19	37-129-27943	Salem	Westmoreland	Advanced Waste Services	4830



803	25213	[REDACTED] #19	37-129-27943	Salem	Westmoreland	Tunnelton Liquids Company	29820
						TOTAL WASTE	34650
803	22831	[REDACTED] #14	37-051-24220	Dunbar	Fayette	Advanced Waste Services	2310
						TOTAL WASTE	2310
803	26018	[REDACTED] #6	37-059-25385	Greene	Greene	Advanced Waste Services	74340
803	26018	[REDACTED] #6	37-059-25385	Greene	Greene	Franklin	137130
803	26018	[REDACTED] #6	37-059-25385	Greene	Greene	Tunnelton Liquids Company	149688
803	26018	[REDACTED] #6	37-059-25385	Greene	Greene	Waste Treatment Corporation	14910
						TOTAL WASTE	376068
803	25857	Consol/USX #90	37-059-25334	Monongahela	Greene	Advanced Waste Services	43470
803	25857	Consol/USX #90	37-059-25334	Monongahela	Greene	Tunnelton Liquids Company	9240
						TOTAL WASTE	52710
803	26150	[REDACTED] Unit #10H	37-051-24392	German	Fayette	Advanced Waste Services	566790
803	26150	[REDACTED] Unit #10H	37-051-24392	German	Fayette	Appalachian Water Services, LLC	106470
						TOTAL WASTE	673260
803	26151	[REDACTED] Unit #11H	37-051-24391	German	Fayette	Advanced Waste Services	370440
803	26151	[REDACTED] Unit #11H	37-051-24391	German	Fayette	Appalachian Water Services, LLC	202440
						TOTAL WASTE	572880
803	25745	[REDACTED] Unit #4H	37-125-24185	Deemston	Washington	Advanced Waste Services	175140
803	25745	[REDACTED] Unit #4H	37-125-24185	Deemston	Washington	Appalachian Water Services, LLC	49980
803	25745	[REDACTED] Unit #4H	37-125-24185	Deemston	Washington	Franklin	14910
803	25745	[REDACTED] Unit #4H	37-125-24185	Deemston	Washington	Tunnelton Liquids Company	207060
						TOTAL WASTE	447090
803	25715	[REDACTED] #11H	37-129-28404	S. Huntingdon	Westmoreland	Advanced Waste Services	67620
803	25715	[REDACTED] #11H	37-129-28404	S. Huntingdon	Westmoreland	Appalachian Water Services, LLC	41580
803	25715	[REDACTED] #11H	37-129-28404	S. Huntingdon	Westmoreland	Tunnelton Liquids Company	14910
						TOTAL WASTE	124110
803	25716	[REDACTED] 2H	37-129-28403	S. Huntingdon	Westmoreland	Advanced Waste Services	73080

803	25716	[REDACTED] #12H	37-129-28403	S. Huntingdon	Westmoreland	Franklin	19950
803	25716	[REDACTED] #12H	37-129-28403	S. Huntingdon	Westmoreland	Tunnelton Liquids Company	265230
						TOTAL WASTE	358260
803	25664	[REDACTED] Unit #4	37-051-24304	Redstone	Fayette	Advanced Waste Services	58800
803	25664	[REDACTED] Unit #4	37-051-24304	Redstone	Fayette	Tunnelton Liquids Company	58506
						TOTAL WASTE	117306
803	25665	[REDACTED] Unit #5H	37-051-24305	Redstone	Fayette	Advanced Waste Services	145740
803	25665	[REDACTED] Unit #5H	37-051-24305	Redstone	Fayette	Appalachian Water Services, LLC	57330
803	25665	[REDACTED] Unit #5H	37-051-24305	Redstone	Fayette	Franklin	39060
803	25665	[REDACTED] Unit #5H	37-051-24305	Redstone	Fayette	Tunnelton Liquids Company	100800
						TOTAL WASTE	342930
803	25666	[REDACTED] Unit #6H	37-051-24306	Redstone	Fayette	Advanced Waste Services	44730
803	25666	[REDACTED] Unit #6H	37-051-24306	Redstone	Fayette	Appalachian Water Services, LLC	21840
803	25666	[REDACTED] Unit #6H	37-051-24306	Redstone	Fayette	Tunnelton Liquids Company	78120
						TOTAL WASTE	144690
803	25826	Fayette Beagle Club Unit #5H	37-051-24309	Redstone	Fayette	Advanced Waste Services	17010
803	25826	Fayette Beagle Club Unit #5H	37-051-24309	Redstone	Fayette	Franklin	29610
803	25826	Fayette Beagle Club Unit #5H	37-051-24309	Redstone	Fayette	Tunnelton Liquids Company	84420
						TOTAL WASTE	131040
803	25827	Fayette Beagle Club Unit #6H	37-051-24310	Washington	Fayette	Advanced Waste Services	9240
803	25827	Fayette Beagle Club Unit #6H	37-051-24310	Washington	Fayette	Tunnelton Liquids Company	4830
						TOTAL WASTE	14070
803	26229	[REDACTED] Unit #13H	37-051-24375	Dunbar	Fayette	Advanced Waste Services	28980
803	26229	[REDACTED] Unit #13H	37-051-24375	Dunbar	Fayette	Appalachian Water Services, LLC	469560
803	26229	[REDACTED] Unit #13H	37-051-24375	Dunbar	Fayette	Tunnelton Liquids Company	116256
						TOTAL WASTE	614796
803	25915	[REDACTED] Unit #2H	37-129-28295	Rostraver	Westmoreland	Advanced Waste Services	35070
803	25915	[REDACTED] Unit #2H	37-129-28295	Rostraver	Westmoreland	Franklin	76020
803	25915	[REDACTED] Unit #2H	37-129-28295	Rostraver	Westmoreland	Tunnelton Liquids Company	256620
						TOTAL WASTE	367710

803	25726	Game Lands Unit #1	37-059-25337	Dunkard	Greene	Advanced Waste Services	22596
803	25726	Game Lands Unit #1	37-059-25337	Dunkard	Greene	Franklin	24150
803	25726	Game Lands Unit #1	37-059-25337	Dunkard	Greene	McCutcheon Enterprises, Inc.	9198
803	25726	Game Lands Unit #1	37-059-25337	Dunkard	Greene	Tunnelton Liquids Company	<u>138138</u>
						TOTAL WASTE	194082
803	25727	Game Lands Unit #2H	37-059-25338	Dunkard	Greene	Advanced Waste Services	18900
803	25727	Game Lands Unit #2H	37-059-25338	Dunkard	Greene	Franklin	33810
803	25727	Game Lands Unit #2H	37-059-25338	Dunkard	Greene	Tunnelton Liquids Company	4620
						TOTAL WASTE	57330
803	25777	Game Lands Unit #3H	37-059-25339	Dunkard	Greene	Advanced Waste Services	9450
803	25777	Game Lands Unit #3H	37-059-25339	Dunkard	Greene	Franklin	22680
803	25777	Game Lands Unit #3H	37-059-25339	Dunkard	Greene	Tunnelton Liquids Company	<u>9660</u>
						TOTAL WASTE	41790
803	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	Advanced Waste Services	33390
803	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	Franklin	4830
803	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	Hart Resource Tech Pit	47040
803	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	PA Brine Trt-Josephine PLT	14280
803	22812	[REDACTED] #1	37-059-25330	Cumberland	Greene	Tunnelton Liquids Company	<u>103740</u>
						TOTAL WASTE	203280
803	25282	[REDACTED] #1	37-125-23806	W. Bethlehem	Washington	Advanced Waste Services	64260
803	25282	[REDACTED] #1	37-125-23806	W. Bethlehem	Washington	Franklin	15960
803	25282	[REDACTED] #1	37-125-23806	W. Bethlehem	Washington	PA Brine Trt-Josephine PLT	4830
803	25282	[REDACTED] #1	37-125-23806	W. Bethlehem	Washington	Tunnelton Liquids Company	57330
						TOTAL WASTE	142380
803	25884	[REDACTED] #11	37-059-25373	Greene	Greene	Advanced Waste Services	139860
803	25884	[REDACTED] #11	37-059-25373	Greene	Greene	Franklin	7140
803	25884	[REDACTED] #11	37-059-25373	Greene	Greene	Tunnelton Liquids Company	<u>111720</u>
						TOTAL WASTE	258720
803	25060	[REDACTED] Unit #8	37-059-25341	Cumberland	Greene	Advanced Waste Services	52290
803	25060	[REDACTED] Unit #8	37-059-25341	Cumberland	Greene	Appalachian Water Services, LLC	188790

803	25060	Unit #8	37-059-25341	Cumberland	Greene	Franklin	90510
803	25060	Unit #8	37-059-25341	Cumberland	Greene	Tunnelton Liquids Company	162288
						TOTAL WASTE	493878
803	30418	#2	37-063-36374	W. Wheatfield	Indiana	Advanced Waste Services	32130
803	30418	#2	37-063-36374	W. Wheatfield	Indiana	PA Brine Trt-Josephine PLT	4620
803	30418	#2	37-063-36374	W. Wheatfield	Indiana	Tunnelton Liquids Company	164430
						TOTAL WASTE	201180
803	24310	Jackson Farms Unit #31H	37-051-24235	Redstone	Fayette	Advanced Waste Services	25620
803	24310	Jackson Farms Unit #31H	37-051-24235	Redstone	Fayette	Franklin	24570
803	24310	Jackson Farms Unit #31H	37-051-24235	Redstone	Fayette	Tunnelton Liquids Company	18480
						TOTAL WASTE	68670
803	24311	Jackson Farms Unit #32H	37-051-24234	Redstone	Fayette	Advanced Waste Services	34650
803	24311	Jackson Farms Unit #32H	37-051-24234	Redstone	Fayette	Franklin	13020
803	24311	Jackson Farms Unit #32H	37-051-24234	Redstone	Fayette	Tunnelton Liquids Company	8820
						TOTAL WASTE	56490
803	24312	Jackson Farms Unit #33H	37-051-24233	Redstone	Fayette	Advanced Waste Services	14700
803	24312	Jackson Farms Unit #33H	37-051-24233	Redstone	Fayette	Franklin	23520
803	24312	Jackson Farms Unit #33H	37-051-24233	Redstone	Fayette	Tunnelton Liquids Company	32340
						TOTAL WASTE	70560
803	24995	Jackson Farms Unit #37H	37-051-24369	Redstone	Fayette	Advanced Waste Services	75642
803	24995	Jackson Farms Unit #37H	37-051-24369	Redstone	Fayette	Appalachian Water Services, LLC	183498
803	24995	Jackson Farms Unit #37H	37-051-24369	Redstone	Fayette	Franklin	9240
803	24995	Jackson Farms Unit #37H	37-051-24369	Redstone	Fayette	PA Brine Trt-Josephine PLT	10500
803	24995	Jackson Farms Unit #37H	37-051-24369	Redstone	Fayette	Tunnelton Liquids Company	199626
						TOTAL WASTE	478506
803	24996	Jackson Farms Unit #38H	37-051-24373	Redstone	Fayette	Advanced Waste Services	30072
803	24996	Jackson Farms Unit #38H	37-051-24373	Redstone	Fayette	Appalachian Water Services, LLC	175938
803	24996	Jackson Farms Unit #38H	37-051-24373	Redstone	Fayette	Franklin	59430
803	24996	Jackson Farms Unit #38H	37-051-24373	Redstone	Fayette	PA Brine Trt-Josephine PLT	18522
803	24996	Jackson Farms Unit #38H	37-051-24373	Redstone	Fayette	Tunnelton Liquids Company	248724
						TOTAL WASTE	532686



803	24997	Jackson Farms Unit #39H	37-051-24372	Redstone	Fayette	Advanced Waste Services	99246
803	24997	Jackson Farms Unit #39H	37-051-24372	Redstone	Fayette	Appalachian Water Services, LLC	83748
803	24997	Jackson Farms Unit #39H	37-051-24372	Redstone	Fayette	Franklin	42630
803	24997	Jackson Farms Unit #39H	37-051-24372	Redstone	Fayette	PA Brine Trt-Josephine PLT	6048
803	24997	Jackson Farms Unit #39H	37-051-24372	Redstone	Fayette	Tunnelton Liquids Company	215880
						TOTAL WASTE	447552
803	25925	#5	37-129-28252	Sewickley	Westmoreland	Advanced Waste Services	18270
803	25925	#5	37-129-28252	Sewickley	Westmoreland	Tunnelton Liquids Company	73290
						TOTAL WASTE	91560
803	24974	#17	37-059-25245	Dunkard	Greene	Advanced Waste Services	72870
						TOTAL WASTE	72870
803	24979	#22H	37-059-25249	Dunkard	Greene	Advanced Waste Services	56700
803	24979	#22H	37-059-25249	Dunkard	Greene	Tunnelton Liquids Company	45948
						TOTAL WASTE	102648
803	25106	#4H	37-129-27964	Salem	Westmoreland	Advanced Waste Services	82740
803	25106	#4H	37-129-27964	Salem	Westmoreland	Franklin	50190
803	25106	#4H	37-129-27964	Salem	Westmoreland	PA Brine Trt-Josephine PLT	18900
803	25106	#4H	37-129-27964	Salem	Westmoreland	Tunnelton Liquids Company	29820
						TOTAL WASTE	181650
803	24043	#21	37-059-25159	Monongahela	Greene	Advanced Waste Services	41370
803	24043	#21	37-059-25159	Monongahela	Greene	Tunnelton Liquids Company	57960
						TOTAL WASTE	99330
803	25605	#33	37-059-25185	Monongahela	Greene	Advanced Waste Services	44100
						TOTAL WASTE	44100
803	25758	#9	37-129-28113	Rostraver	Westmoreland	Advanced Waste Services	110880
803	25758	#9	37-129-28113	Rostraver	Westmoreland	Hart Resource Tech Pit	10080
803	25758	#9	37-129-28113	Rostraver	Westmoreland	Tunnelton Liquids Company	84840
						TOTAL WASTE	205800



803	30425	[REDACTED] Unit #1	37-063-36627	W. Wheatfield	Indiana	Advanced Waste Services	104580
803	30425	[REDACTED] Unit #1	37-063-36627	W. Wheatfield	Indiana	Hart Resource Tech Pit	227540
803	30425	[REDACTED] Unit #1	37-063-36627	W. Wheatfield	Indiana	PA Brine Trt-Josephine PLT	37800
803	30425	[REDACTED] Unit #1	37-063-36627	W. Wheatfield	Indiana	Tunnelton Liquids Company	<u>323190</u>
						TOTAL WASTE	693210
803	25769	[REDACTED] #4	37-051-24266	Springhill	Fayette	Advanced Waste Services	122850
803	25769	[REDACTED] #4	37-051-24266	Springhill	Fayette	Franklin	14280
803	25769	[REDACTED] #4	37-051-24266	Springhill	Fayette	PA Brine Trt-Josephine PLT	10290
803	25769	[REDACTED] #4	37-051-24266	Springhill	Fayette	Tunnelton Liquids Company	<u>98070</u>
						TOTAL WASTE	245490
803	25853	[REDACTED] #20	37-059-25362	Jefferson	Greene	Advanced Waste Services	30240
803	25853	[REDACTED] #20	37-059-25362	Jefferson	Greene	Franklin	13860
803	25853	[REDACTED] #20	37-059-25362	Jefferson	Greene	Tunnelton Liquids Company	<u>111300</u>
						TOTAL WASTE	155400
803	25924	National Mines Corp. #26H	37-051-24365	Luzerne	Fayette	Advanced Waste Services	118230
803	25924	National Mines Corp. #26H	37-051-24365	Luzerne	Fayette	Franklin	74340
803	25924	National Mines Corp. #26H	37-051-24365	Luzerne	Fayette	PA Brine Trt-Josephine PLT	19950
803	25924	National Mines Corp. #26H	37-051-24365	Luzerne	Fayette	Tunnelton Liquids Company	95760
803	25924	National Mines Corp. #26H	37-051-24365	Luzerne	Fayette	West Virginia Oil Gathering	<u>10416</u>
						TOTAL WASTE	318696
803	25197	[REDACTED] Unit #3H	37-051-24257	Lower Tyrone	Fayette	Advanced Waste Services	2100
803	25197	[REDACTED] Unit #3H	37-051-24257	Lower Tyrone	Fayette	Franklin	4830
803	25197	[REDACTED] Unit #3H	37-051-24257	Lower Tyrone	Fayette	Hart Resource Tech Pit	18060
803	25197	[REDACTED] Unit #3H	37-051-24257	Lower Tyrone	Fayette	PA Brine Trt-Josephine PLT	14700
803	25197	[REDACTED] Unit #3H	37-051-24257	Lower Tyrone	Fayette	Tunnelton Liquids Company	<u>146160</u>
						TOTAL WASTE	185850
803	25742	[REDACTED] UT #2H	37-063-36738	W. Wheatfield	Indiana	Advanced Waste Services	73080
803	25742	[REDACTED] UT #2H	37-063-36738	W. Wheatfield	Indiana	Franklin	19950
803	25742	[REDACTED] UT #2H	37-063-36738	W. Wheatfield	Indiana	Tunnelton Liquids Company	<u>275310</u>
						TOTAL WASTE	368340
803	25026	[REDACTED] #29	37-051-24249	Washington	Fayette	Advanced Waste Services	132930

803	25026	[REDACTED] #29	37-051-24249	Washington	Fayette	PA Brine Trt-Josephine PLT	10080
803	25026	[REDACTED] #29	37-051-24249	Washington	Fayette	Tunnelton Liquids Company	<u>28350</u>
						TOTAL WASTE	171360
803	23182	[REDACTED] #15H	37-125-24044	Robinson	Washington	Advanced Waste Services	<u>127890</u>
						TOTAL WASTE	127890
803	24910	[REDACTED] #18H	37-125-23963	Robinson	Washington	Advanced Waste Services	<u>178920</u>
						TOTAL WASTE	178920
803	25304	[REDACTED] #8	37-129-28084	Sewickley	Westmoreland	Advanced Waste Services	53886
803	25304	[REDACTED] #8	37-129-28084	Sewickley	Westmoreland	Tunnelton Liquids Company	<u>68670</u>
						TOTAL WASTE	122556
803	25996	[REDACTED] #1	37-051-24314	Franklin	Fayette	Advanced Waste Services	124110
803	25996	[REDACTED] #1	37-051-24314	Franklin	Fayette	Appalachian Water Services, LLC	23730
803	25996	[REDACTED] #1	37-051-24314	Franklin	Fayette	Franklin	39690
						Tunnelton Liquids Company	<u>257250</u>
						TOTAL WASTE	444780
803	25880	[REDACTED] Unit #1H	37-051-24279	Brownsville	Fayette	Advanced Waste Services	36330
803	25880	[REDACTED] Unit #1H	37-051-24279	Brownsville	Fayette	Franklin	24780
803	25880	[REDACTED] Unit #1H	37-051-24279	Brownsville	Fayette	Tunnelton Liquids Company	<u>255486</u>
						TOTAL WASTE	316596
803	25680	[REDACTED] Unit #26H	37-051-24344	Redstone	Fayette	Advanced Waste Services	23940
803	25680	[REDACTED] Unit #26H	37-051-24344	Redstone	Fayette	PA Brine Trt-Josephine PLT	9240
803	25680	[REDACTED] Unit #26H	37-051-24344	Redstone	Fayette	Tunnelton Liquids Company	<u>65730</u>
						TOTAL WASTE	98910
803	25681	[REDACTED] Unit #27H	37-051-24343	Redstone	Fayette	Advanced Waste Services	46830
803	25681	[REDACTED] Unit #27H	37-051-24343	Redstone	Fayette	Appalachian Water Services, LLC	162750
803	25681	[REDACTED] Unit #27H	37-051-24343	Redstone	Fayette	Tunnelton Liquids Company	<u>18480</u>
						TOTAL WASTE	228060
803	26474	[REDACTED] Unit #34H	37-051-24388	Redstone	Fayette	Advanced Waste Services	29820

803	26474	[REDACTED]	Unit #34H	37-051-24388	Redstone	Fayette	Appalachian Water Services, LLC	267330
803	26474	[REDACTED]	Unit #34H	37-051-24388	Redstone	Fayette	PA Brine Trt-Josephine PLT	4830
803	26474	[REDACTED]	Unit #34H	37-051-24388	Redstone	Fayette	Tunnelton Liquids Company	34440
							TOTAL WASTE	336420
803	26475	[REDACTED]	Unit #35H	37-051-25389	Redstone	Fayette	Advanced Waste Services	49980
803	26475	[REDACTED]	Unit #35H	37-051-25389	Redstone	Fayette	Appalachian Water Services, LLC	343140
803	26475	[REDACTED]	Unit #35H	37-051-25389	Redstone	Fayette	PA Brine Trt-Josephine PLT	5040
803	26475	[REDACTED]	Unit #35H	37-051-25389	Redstone	Fayette	Tunnelton Liquids Company	29715
							TOTAL WASTE	427875
803	25682	[REDACTED]	Unit #28H	37-051-24342	Redstone	Fayette	Advanced Waste Services	85260
803	25682	[REDACTED]	Unit #28H	37-051-24342	Redstone	Fayette	Appalachian Water Services, LLC	135240
803	25682	[REDACTED]	Unit #28H	37-051-24342	Redstone	Fayette	Tunnelton Liquids Company	23520
							TOTAL WASTE	244020
803	26016	[REDACTED]	Unit #30H	37-051-24341	Redstone	Fayette	Advanced Waste Services	60165
803	26016	[REDACTED]	Unit #30H	37-051-24341	Redstone	Fayette	Appalachian Water Services, LLC	91980
803	26016	[REDACTED]	Unit #30H	37-051-24341	Redstone	Fayette	Franklin	36435
803	26016	[REDACTED]	Unit #30H	37-051-24341	Redstone	Fayette	PA Brine Trt-Josephine PLT	2520
803	26016	[REDACTED]	Unit #30H	37-051-24341	Redstone	Fayette	Tunnelton Liquids Company	58590
							TOTAL WASTE	249690
803	26017	[REDACTED]	Unit #31H	37-051-24340	Redstone	Fayette	Advanced Waste Services	68985
803	26017	[REDACTED]	Unit #31H	37-051-24340	Redstone	Fayette	Appalachian Water Services, LLC	81270
803	26017	[REDACTED]	Unit #31H	37-051-24340	Redstone	Fayette	Franklin	36435
803	26017	[REDACTED]	Unit #31H	37-051-24340	Redstone	Fayette	PA Brine Trt-Josephine PLT	2520
803	26017	[REDACTED]	Unit #31H	37-051-24340	Redstone	Fayette	Tunnelton Liquids Company	58590
							TOTAL WASTE	247800
803	26040	[REDACTED]	Unit #32H	37-051-24316	Redstone	Fayette	Advanced Waste Services	186900
803	26040	[REDACTED]	Unit #32H	37-051-24316	Redstone	Fayette	Franklin	29820
803	26040	[REDACTED]	Unit #32H	37-051-24316	Redstone	Fayette	PA Brine Trt-Josephine PLT	9660
803	26040	[REDACTED]	Unit #32H	37-051-24316	Redstone	Fayette	Tunnelton Liquids Company	116340
							TOTAL WASTE	342720
803	26041	[REDACTED]	Unit #33H	37-051-24317	Redstone	Fayette	Advanced Waste Services	252000
803	26041	[REDACTED]	Unit #33H	37-051-24317	Redstone	Fayette	Tunnelton Liquids Company	116760

						TOTAL WASTE	368760
803	26476	[REDACTED] Unit #36	37-051-24390	Redstone	Fayette	Advanced Waste Services	51240
803	26476	[REDACTED] Unit #36	37-051-24390	Redstone	Fayette	Appalachian Water Services, LLC	154980
						TOTAL WASTE	206220
803	25759	[REDACTED] 59H	37-129-28130	Rostraver	Westmoreland	Advanced Waste Services	50900
803	25759	[REDACTED] 59H	37-129-28130	Rostraver	Westmoreland	Franklin	62160
803	25759	[REDACTED] 59H	37-129-28130	Rostraver	Westmoreland	Tunnelton Liquids Company	102480
						TOTAL WASTE	225540
803	23467	[REDACTED] Unit #39	37-129-28129	Rostraver	Westmoreland	Advanced Waste Services	840
803	23467	[REDACTED] Unit #39	37-129-28129	Rostraver	Westmoreland	Tunnelton Liquids Company	9870
						TOTAL WASTE	10710
803	25760	[REDACTED] Unit #60H	37-129-28131	Rostraver	Westmoreland	Franklin	20160
803	25760	[REDACTED] Unit #60H	37-129-28131	Rostraver	Westmoreland	Tunnelton Liquids Company	19530
						TOTAL WASTE	39690
803	24154	[REDACTED] #19	37-059-25162	Jefferson	Greene	Advanced Waste Services	28140
803	24154	[REDACTED] #19	37-059-25162	Jefferson	Greene	McCutcheon Enterprises, Inc.	4620
803	24154	[REDACTED] #19	37-059-25162	Jefferson	Greene	Tunnelton Liquids Company	4620
						TOTAL WASTE	37380
803	25887	[REDACTED] #1	37-051-24284	Franklin	Fayette	Advanced Waste Services	18690
						Franklin	32760
						Tunnelton Liquids Company	14070
						TOTAL WASTE	65520
803	25389	[REDACTED] #1	37-129-28123	Sewickley	Westmoreland	Advanced Waste Services	178920
803	25389	[REDACTED] #1	37-129-28123	Sewickley	Westmoreland	PA Brine Trt-Josephine PLT	14490
803	25389	[REDACTED] #1	37-129-28123	Sewickley	Westmoreland	Miller & Co #3	21210
803	25389	[REDACTED] #1	37-129-28123	Sewickley	Westmoreland	Tunnelton Liquids Company	118230
						TOTAL WASTE	332850
803	26048	[REDACTED] Unit #20H	37-129-28264	S. Huntingdon	Westmoreland	Advanced Waste Services	5040



803	26048	Unit #20H	37-129-28264	S. Huntingdon	Westmoreland	Franklin	9240
803	26048	Unit #20H	37-129-28264	S. Huntingdon	Westmoreland	Tunnelton Liquids Company	214830
						TOTAL WASTE	229110
803	25855	#5H	37-125-23962	Deemston	Washington	Advanced Waste Services	44310
803	25855	#5H	37-125-23962	Deemston	Washington	Tunnelton Liquids Company	83370
						TOTAL WASTE	127680
803	25750	#1H	37-059-25459	Jefferson	Greene	Advanced Waste Services	117810
803	25750	#1H	37-059-25459	Jefferson	Greene	Franklin	4200
803	25750	#1H	37-059-25459	Jefferson	Greene	Tunnelton Liquids Company	118650
						TOTAL WASTE	240660
803	24177	#3	37-129-27568	S. Huntingdon	Westmoreland	Tunnelton Liquids Company	2520
						TOTAL WASTE	2520
						TOTALS:	
						ADVANCED WASTE SERVICES	6630582
						Appalachian Water Services, LLC	3411744
						CLINTON #2	4410
						FRANKLIN	1462020
						HART RESOURCE TECH PIT	388500
						PA BRINE TRT-JOSEPHINE	334320
						MCCUTCHEON ENTERPRISES, INC.	13818
						MILLER & CO. #3	25410
						TUNNELTON LIQUIDS COMPANY	8439669
						WASTE TREATMENT CORPORATION	35910
						WEST VIRGINIA OIL GATHERING	10416
						GRAND TOTAL OF FACILITIES	20756799



## **Exhibit 2F**



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WASTE MANAGEMENT

**FORM 26R**  
**CHEMICAL ANALYSIS OF RESIDUAL WASTE**  
**ANNUAL REPORT BY THE GENERATOR**

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 26R, reference the item number and identify the date prepared. The date on attached sheets needs to match the date noted below.

General Reference 287.54

Date Prepared/Revised

**DEPT USE ONLY**

Date Received & General Notes

**SECTION A. CLIENT (GENERATOR OF THE WASTE) INFORMATION**

Company Name

Atlas Resources, LLC

If a Subsidiary, Name of Parent Company

EPA Generator ID#

Company Mailing Address Line 1

800 Mountain View Drive

Company Mailing Address Line 2

Company Address Last Line - City

Smithfield

State

PA

Zip+4

15478+8902

Phone

724-564-2360

Ext

137

Company Contact Last Name

Butchko

First Name

Jenny

MI

L

Suffix

Municipality

Georges

County

Fayette

Contact Phone

724-564-2360

Ext

137

Contact Email Address

jbutchko@atlasenergy.com

Is the waste generated at the Company Mailing Address (noted above)?

☐ Yes

☒ No

If 'No', describe location of waste generation and storage. See attachment

Municipality

Georges

County

Fayette

State

PA

**SECTION B. WASTE DESCRIPTION**

Residual Waste Code	Residual Waste Code Description	Amount	Unit of Measure	Time Frame
802	Brine	See attachment	<input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton	<input checked="" type="checkbox"/> One Time

**1. GENERAL PROPERTIES**

a.	pH Range	n/a	to	n/a	(based on analyses or knowledge)
b.	Physical State	<input checked="" type="checkbox"/> Liquid Waste (EPA Method 9095) <input type="checkbox"/> Solid (EPA Method 9095) <input type="checkbox"/> Gas (ambient temperature & pressure)			
c.	Physical Appearance	Color	Clear	Odor	None
		Number of Solid or Liquid Phases of Separation			
		Describe each phase of separation.			

**2. CHEMICAL ANALYSIS/ATTACHMENTS**

a.	The results of a detailed chemical characterization of the waste, as described in the instructions, is attached.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
b.	A detailed description of the waste sampling method is attached.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
c.	The quality assurance/quality control procedures employed by the laboratory(ies) is attached.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
d.	The results of the hazardous waste determination is attached.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
e.	If applicable, a detailed explanation supporting use of generator knowledge in lieu of actual chemical analysis is attached.	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> N/A

## 3. PROCESS DESCRIPTION &amp; SCHEMATIC ATTACHMENTS

- a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☒ Yes ☐ No  
*\* See Attached*
- b. A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached. ☐ Yes ☐ No
- c. If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached. ☐ Yes ☐ No ☒ N/A

## SECTION C: MANAGEMENT OF RESIDUAL WASTE

## 1. PROCESSING OR DISPOSAL FACILITY(IES)

The area below (a.-d.) will accommodate the identification of two facilities. Attach additional sheets if necessary.

a.	Solid waste permit number(s) for processing or disposal facility being utilized. 0927			
b.	Facility Name	B & R Injection Well "American Energy Inc."I		
	Address Line 1	P.O. Box 471		
	Address Line 1			
	Address City State ZIP	Cortland	OH	44410
	Municipality	Pierpoint	County	Ashtabula
c.	Facility Contact Name	Bob Barnett		
	Title	President		
	Phone	440-862-4041	Email Address	amenergy@earthlink.net
d.	Volume of waste shipped to processing or disposal facility in the previous year. 8400 <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)			
a.	Solid waste permit number(s) for processing or disposal facility being utilized. OH-2403			
b.	Facility Name	BDB Trucking & Energy		
	Address Line 1	P.O. Box 4352		
	Address Line 1			
	Address City State ZIP	Youngstown	OH	44515
	Municipality	Fowler	County	Trumbull
c.	Facility Contact Name	Kirk Sherrill		
	Title	Manager		
	Phone	330-544-6566	Email Address	bdbtrucking1229@aol.com
d.	Volume of waste shipped to processing or disposal facility in the previous year. 3528 <input type="checkbox"/> cu yd <input checked="" type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)			
2. BENEFICIAL USE				
a.	Has the waste been approved for beneficial use? <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes", list the general permit number or approval number.			
b.	Volume of waste beneficially used in the previous year. <input type="checkbox"/> cu yd <input type="checkbox"/> gal <input type="checkbox"/> lb <input type="checkbox"/> ton (check one)			

**SECTION D. CERTIFICATION**

I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment.

Check the following, if applicable:

- ☐ I certify the information required in Section B-1, General Properties was supplied to the Department for the year \_\_\_\_\_ and has not changed.

Form Submitted:

☐ Form 26R

☐ Other (specify) \_\_\_\_\_

Date Submitted: \_\_\_\_\_

- ☐ I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year \_\_\_\_\_ and has not changed.

Form Submitted:

☐ Form 26R

☐ Other (specify) \_\_\_\_\_

Date Submitted: \_\_\_\_\_

- ☐ I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year \_\_\_\_\_ and has not changed.

Form Submitted:

☐ Form 26R

☐ Other (specify) \_\_\_\_\_

Date Submitted: \_\_\_\_\_

Name of Responsible Official

Title

Signature

Date

*Christine Walton*

*EHS Director*

*Christine Walton*

*3/16/11*

### 3. Process Description & Schematic Attachments

a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.

- Brine – Water that has been generated during the well production process.



Waste Type	Well ID	Well Name	Permit #	Township	County	Disposal Point	Total Gallons
802	30304	WELL #3	37-031-24858	Knox	Clarion	B & R INJECTION WELL	8400
802	30304	WELL #3	37-031-24858	Knox	Clarion	BDB ENERGY D-1 DISP WELL	3528
						Total Waste	11928

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

## ANALYTICAL REPORT

Form 26R

Lot #: C9L230421

Stephanie Eliason

ECS&R

3237 US Highway 19  
Cochran, GA 30601

TESTAMERICA LABORATORIES, INC.



Christina M. Kovitch  
Project Manager

January 8, 2010

## NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	TestAmerica
NFESC	NA	NAVY	X
US Dept of Agriculture	(#P330-07-00101)	Foreign Soil Import Permit	X
Arkansas	(#88-0690)	WW	X
		HW	X
California - NELAC	04224CA	WW	X
		HW	X
Connecticut	(#PH-0688)	WW	X
		HW	X
Florida - NELAC	(#E871008-04)	WW	X
		HW	X
Illinois - NELAC	(#002064)	WW	X
		HW	X
Kansas - NELAC	(#E-10350)	WW	X
		HW	X
Louisiana - NELAC	(#04041)	WW	X
		HW	X
New Hampshire - NELAC	(#203008)	WW	X
		-	-
New Jersey - NELAC	(PA-005)	WW	X
		HW	X
New York - NELAC	(#11182)	WW	X
		HW	X
North Carolina	(#434)	WW	X
		HW	X
Pennsylvania - NELAC	(#02-00416)	WW	X
		HW	X
South Carolina	(#89014002)	WW	X
		HW	X
Utah - NELAC	(STLP)	WW	X
		HW	X
West Virginia	(#142)	WW	X
		HW	X
Wisconsin	998027800	WW	X
		HW	X

The codes utilized for program types are described below:

HW Hazardous Waste certification

WW Non-potable Water and/or Wastewater certification

X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeis\My Documents\NELAC NARRATIVE Pittsburgh.doc

**CASE NARRATIVE  
ECS&R  
Form 26R**

**LOT # C9L230421**

**Sample Receiving:**

TestAmerica's Pittsburgh laboratory received samples on December 23, 2009. The coolers were received within the proper temperature range.

The laboratory could not determine which sample bottles were for sample Green County Flowback and Fayette County Flowback. These were resampled and the results are reported in lot C9L290507.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

**GC/MS Volatiles:**

Due to the concentration of compounds detected, WASHINGTON COUNTY FLOW BACK was analyzed at a dilution.

**Metals:**

Several samples listed above were analyzed at dilution for all requested analytes. These analytes are reported from the 6500ICP, for which an internal standards, indium and yttrium, are added to all standards and samples during analysis. The yttrium counts in these samples were outside of QC criteria (70-130% of the yttrium counts in the ICB), therefore, all analytes referencing yttrium were diluted for analysis.

The method blank had mercury detected at a concentration between the MDL and the reporting limit. The result was flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

The matrix spikes of sample FAYETTE COUNTY BRINE recovered below the control limit for mercury. The RPD recovered above the control limit.

**General Chemistry:**

pH is a field parameter. Laboratory pH analysis was completed at the request of the client.

For nitrate and nitrite, samples WESTMORELAND PRODUCTION BRINE and WESTMORELAND FLOW BACK were received with 50% or more of their 48-hr holding times expired. They were analyzed as soon as possible after receipt but their holding times were exceeded.

**CASE NARRATIVE  
ECS&R  
Form 26R**

**LOT # C9L230421**

**General Chemistry cont.:**

The samples were analyzed at a dilution for several analytes due to concentration or matrix.

The method blanks had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

TestAmerica's Buffalo laboratory analyzed the ethylene glycol.

TestAmerica's Nashville laboratory analyzed the TKN and MBAS.



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## Chain of Custody Record

COC ID: KOVITCHC19038-1194-2

TestAmerica Pittsburgh  
301 Alpha Drive  
Pittsburgh, PA 15238  
(412) 963-7058  
(412) 963-2468 - fax

Project Information:	Form 26R	Quote #:	84855	Client:	Atlas
Date:	12-22-09	Carrier/Waybill #:			800 Mountain View Dr.
Project Manager:	John Collins				
Phone:	724-317-2293				Smithfield PA 15478

SAMPLE ID	DATE/TIME	MATRIX	BOTTLE TYPE	#	PRESERVATIVE	ANALYSIS
Washington County Flow Back	12-22-09 1000AM	WATER	1LP Plastic - 1 Liter	1	None	WATER, Acidity, T-ALK, Cond, TDS, TSS
		WATER	1LAG Glass - 1 Liter Amber	2	Hydrochloric Acid	WATER, 1864A HEM, O&G
		WATER	250P Plastic - 250mL	1	Nitric Acid	WATER, 2340C, T-Hardness
		WATER	500P Plastic - 500mL (16oz)	1	Sulfuric Acid	WATER, 351.2 TKN TA Nashville
		WATER	250AG Glass - 250mL (8oz) Amber	1	Sulfuric Acid	WATER, 420.4, Total Phenolics
		WATER	1LP Plastic - 1 Liter	1	None	WATER, 425.1 MBAS TA Nashville
		WATER	1LP Plastic - 1 Liter	1	None	WATER, 5210B, BOD
		WATER	500P Plastic - 500mL (16oz)	1	Nitric Acid	WATER, 6010B Diss-Metal (Fe Only)
		WATER	500P Plastic - 500mL (16oz)	1	Nitric Acid	WATER, 6010B T-Metals+ HG (26R List)
		WATER	1LP Plastic - 1 Liter	1	Nitric Acid	WATER, 6010C Metals U,Th,Sr
		WATER	VV Glass - 40mL Vial	2	Hydrochloric Acid	WATER, 8015 Ethylene Glycol TA Buffalo
		WATER	VV Glass - 40mL Vial	3	Hydrochloric Acid	WATER, 8260B, VOA (B&T only)
		WATER	1LP Plastic - 1 Liter	1	None	WATER, Br,Cl,N02, N03,S04
		WATER	500P Plastic - 500mL (16oz)	1	Sulfuric Acid	WATER, Ammonia Nitrogen, COD
Washington County Flow Back	12-22-09 1000AM	WATER	1GP Plastic - 1 Gallon	1	None	WATER, Gamma Emitters Cesium Grass Alpha Beta

Special Requirements:			
Possible Hazard Identification:		Sample Disposal:	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months (A fee may apply if samples are retained longer than 3 months)	
Turn Around Time Required:		QC Level:	
<input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____		<input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III	
Relinquished by:		Project Specific Requirements (Specify):	
Relinquished by: <i>John Collins</i> Date/Time: 12/23/09 800PM		Received by: <i>[Signature]</i> Date/Time: 12/23/09 940	
Relinquished by:		Received by:	
Date/Time:		Date/Time:	
Relinquished by:		Received by:	
Date/Time:		Date/Time:	
Comments:			

Project Information:	Form 26R	Quote #:	84855	Client:	Atlas
Date:	12-21-09	Carrier/Waybill #:			800 Mountain View Dr.
Project Manager:	John Collins				
Phone:	724-317-2293				Smithfield PA 15478

SAMPLE ID	DATE/TIME	MATRIX	BOTTLE TYPE	#	PRESERVATIVE	ANALYSIS
WESTMORELAND Production Brine	12-21-09 10:00AM	WATER	1LP Plastic - 1 Liter	1	None	WATER, Acidity, T-ALK, Cond, TDS, TSS
		WATER	1LAG Glass - 1 Liter Amber	2	Hydrochloric Acid	WATER, 1684A HEM, O&G
		WATER	250P Plastic - 250mL	1	Nitric Acid	WATER, 2340C, T-Hardness
		WATER	500P Plastic - 500mL (16oz)	1	Sulfuric Acid	WATER, 351.2 TKN TA Nashville
		WATER	250AG Glass - 250mL (8oz) Amber	1	Sulfuric Acid	WATER, 420.4, Total Phenolics
		WATER	1LP Plastic - 1 Liter	1	None	WATER, 425.1 MBAS TA Nashville
		WATER	1LP Plastic - 1 Liter	1	None	WATER, 5210B, BOD
		WATER	500P Plastic - 500mL (16oz)	1	Nitric Acid	WATER, 6010B Diss-Metal (Fe Only)
		WATER	500P Plastic - 500mL (16oz)	1	Nitric Acid	WATER, 6010B T-Metals+ HG (26R List)
		WATER	1LP Plastic - 1 Liter	1	Nitric Acid	WATER, 6010C Metals U, Th, Sr
		WATER	VV Glass - 40mL Vial	2	Hydrochloric Acid	WATER, 8015 Ethylene Glycol TA Buffalo
		WATER	VV Glass - 40mL Vial	3	Hydrochloric Acid	WATER, 8260B, VOA (B&T only)
		WATER	1LP Plastic - 1 Liter	1	None	WATER, Br, Cl, NO2, NO3, SO4
		WATER	500P Plastic - 500mL (16oz)	1	Sulfuric Acid	WATER, Ammonia Nitrogen, COD
WESTMORELAND Production Brine	12-21-09 10:00AM	WATER	1GP Plastic - 1 Gallon	1	None	WATER, Gamma Emitters Cesium Grass Alpha Beta

Special Requirements:			
Possible Hazard Identification:		Sample Disposal:	
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B
<input type="checkbox"/> Unknown	<input type="checkbox"/> Return to Client	<input type="checkbox"/> Disposal by Lab	<input type="checkbox"/> Archive for _____ Months
(A fee may apply if samples are retained longer than 3 months)			
Turn Around Time Required:		QC Level:	
<input type="checkbox"/> Normal	<input checked="" type="checkbox"/> Rush	<input type="checkbox"/> Other _____	_____ I _____ II _____ III
Project Specific Requirements (Specify):			
Relinquished by:	Date/Time:	Received by:	Date/Time:
John Collins	12-21-09 1:00PM		
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
			12/23/09 9:40
Comments:			

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## Chain of Custody / Record

COC ID: KOVITCHC19038-1194-2

TestAmerica Pittsburgh  
301 Alpha Drive  
Pittsburgh, PA 15238  
(412) 963-7058  
(412) 963-2468 - fax

Project Information:	Form 26R	Quote #:	84855	Client:	Atlas
Date:	12/22/09	Carrier/Waybill #:			800 Mountain View Dr.
Project Manager:	John Collins				
Phone:	724-317-2293			Smithfield PA	15478

SAMPLE ID	DATE/TIME	MATRIX	BOTTLE TYPE	#	PRESERVATIVE	ANALYSIS
FAYETTE County - Brine	12/22/09 - 10:00 AM	WATER	1LP Plastic - 1 Liter	1	None	WATER, Acidity, T-ALK, Cond, TDS, TSS
		WATER	1LAG Glass - 1 Liter Amber	2	Hydrochloric Acid	WATER, 1664A HEM, O&G
		WATER	250P Plastic - 250mL	1	Nitric Acid	WATER, 2340C, T-Hardness
		WATER	500P Plastic - 500mL (16oz)	1	Sulfuric Acid	WATER, 351.2 TKN TA Nashville
		WATER	250AG Glass - 250mL (8oz) Amber	1	Sulfuric Acid	WATER, 420.4, Total Phenolics
		WATER	1LP Plastic - 1 Liter	1	None	WATER, 425.1 MBAS TA Nashville
		WATER	1LP Plastic - 1 Liter	1	None	WATER, 5210B, BOD
		WATER	500P Plastic - 500mL (16oz)	1	Nitric Acid	WATER, 6010B Diss-Metal (Fe Only)
		WATER	500P Plastic - 500mL (16oz)	1	Nitric Acid	WATER, 6010B T-Metals+ HG (26R List)
		WATER	1LP Plastic - 1 Liter	1	Nitric Acid	WATER, 6010C Metals U,Th,Sr
		WATER	VV Glass - 40mL Vial	2	Hydrochloric Acid	WATER, 8015 Ethylene Glycol TA Buffalo
		WATER	VV Glass - 40mL Vial	3	Hydrochloric Acid	WATER, 8260B, VOA (B&T only)
		WATER	1LP Plastic - 1 Liter	1	None	WATER, Br, Cl, NO2, NO3, SO4
		WATER	500P Plastic - 500mL (16oz)	1	Sulfuric Acid	WATER, Ammonia Nitrogen, COD
		WATER	1GP Plastic - 1 Gallon	1	None	WATER, Gamma Emitters Cesium Grass Alpha Beta

Special Requirements:			
Possible Hazard Identification:		Sample Disposal:	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months (A fee may apply if samples are retained longer than 3 months)	
Turn Around Time Required:		QC Level:	
<input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____		<input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III	
Relinquished by:		Project Specific Requirements (Specify):	
Relinquished by: <i>Kevin Jung</i> Date/Time: 12-22-09 / 3:00 PM		Received by: <i>[Signature]</i> Date/Time: 12/23/09 9:40	
Relinquished by:		Received by:	
Relinquished by:		Received by:	
Comments:			



091230231

# ies America

THE LEADER IN ENVIRONMENTAL TESTING

## Chain of Custody Record

COC ID: KOVITCHC19038-1194-2

TestAmerica Pittsburgh  
301 Alpha Drive  
Pittsburgh, PA 15238  
(412) 963-7058  
(412) 963-2468 - fax

Project Information:	Form 26R	Quote #:	84855	Client:	Atlas
Date:	12-21-09	Carrier/Waybill #:			
Project Manager:	John Collins				
Phone:	724-317-2293				
				Smithfield PA	15478

SAMPLE ID	DATE/TIME	MATRIX	BOTTLE TYPE	#	PRESERVATIVE	ANALYSIS
Westmoreland Flow Back	12/21/09 1030AM	WATER	1LP Plastic - 1 Liter	1	None	WATER, Acidity, T-ALK, Cond, TDS, TSS
		WATER	1LAG Glass - 1 Liter Amber	2	Hydrochloric Acid	WATER, 1684A HEM, O&G
		WATER	250P Plastic - 250mL	1	Nitric Acid	WATER, 2340C, T-Hardness
		WATER	500P Plastic - 500mL (16oz)	1	Sulfuric Acid	WATER, 351.2 TKN TA Nashville
		WATER	250AG Glass - 250mL (8oz) Amber	1	Sulfuric Acid	WATER, 420.4, Total Phenolics
		WATER	1LP Plastic - 1 Liter	1	None	WATER, 425.1 MBAS TA Nashville
		WATER	1LP Plastic - 1 Liter	1	None	WATER, 5210B, BOD
		WATER	500P Plastic - 500mL (16oz)	1	Nitric Acid	WATER, 6010B Diss-Metal (Fe Only)
		WATER	500P Plastic - 500mL (16oz)	1	Nitric Acid	WATER, 6010B T-Metals+ HG (26R List)
		WATER	1LP Plastic - 1 Liter	1	Nitric Acid	WATER, 6010C Metals U,Th,Sr
		WATER	VV Glass - 40mL Vial	2	Hydrochloric Acid	WATER, 8015 Ethylene Glycol TA Buffalo
		WATER	VV Glass - 40mL Vial	3	Hydrochloric Acid	WATER, 8260B, VOA (B&T only)
		WATER	1LP Plastic - 1 Liter	1	None	WATER, Br, Cl, NO2, NO3, SO4
		WATER	500P Plastic - 500mL (16oz)	1	Sulfuric Acid	WATER, Ammonia Nitrogen, COD
Westmoreland Flow Back	12/21/09 1030AM	WATER	1GP Plastic - 1 Gallon	1	None	WATER, Gamma Emitters Cesium Grass Alpha Beta

Special Requirements:			
Possible Hazard Identification:		Sample Disposal:	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months (A fee may apply if samples are retained longer than 3 months)	
Turn Around Time Required:		QC Level:	
<input type="checkbox"/> Normal <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Other _____		<input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III	
Relinquished by:		Project Specific Requirements (Specify):	
John Collins			
Date/Time:		Received by:	
12/21/09 2:00PM			
Relinquished by:		Received by:	
Relinquished by:		Received by:	
Comments:		12/23/09 9:40	

091230231

Project Information:	Form 26R	Quote #:	84855	Client:	Atlas
Date:	12-22-09	Carrier/Waybill #:			800 Mountain View Dr.
Project Manager:	John Collins				
Phone:	724-317-2293			Smithfield PA	15478

SAMPLE ID	DATE/TIME	MATRIX	BOTTLE TYPE	#	PRESERVATIVE	ANALYSIS
Greene County Production Brine	12-22-09 10:00AM	WATER	1LP Plastic - 1 Liter	1	None	WATER, Acidity, T-ALK, Cond, TDS, TSS
		WATER	1LAG Glass - 1 Liter Amber	2	Hydrochloric Acid	WATER, 1064A HEM, O&G
		WATER	250P Plastic - 250mL	1	Nitric Acid	WATER, 2340C, T-Hardness
		WATER	500P Plastic - 500mL (16oz)	1	Sulfuric Acid	WATER, 351.2 TKN TA Nashville
		WATER	250AG Glass - 250mL (8oz) Amber	1	Sulfuric Acid	WATER, 420.4, Total Phenolics
		WATER	1LP Plastic - 1 Liter	1	None	WATER, 425.1 MBAS TA Nashville
		WATER	1LP Plastic - 1 Liter	1	None	WATER, 5210B, BOD
		WATER	500P Plastic - 500mL (16oz)	1	Nitric Acid	WATER, 6010B Diss-Metal (Fe Only)
		WATER	500P Plastic - 500mL (16oz)	1	Nitric Acid	WATER, 6010B T-Metals+ HG (26R List)
		WATER	1LP Plastic - 1 Liter	1	Nitric Acid	WATER, 6010C Metals U,Th,Sr
		WATER	VV Glass - 40mL Vial	2	Hydrochloric Acid	WATER, 8015 Ethylene Glycol TA Buffalo
		WATER	VV Glass - 40mL Vial	3	Hydrochloric Acid	WATER, 8260B, VOA (B&T only)
		WATER	1LP Plastic - 1 Liter	1	None	WATER, Br,C,I,N02, N03,S04
		WATER	500P Plastic - 500mL (16oz)	1	Sulfuric Acid	WATER, Ammonia Nitrogen, COD
Greene County Production Brine	12-22-09 10:00AM	WATER	1GP Plastic - 1 Gallon	1	None	WATER, Gamma Emitters Cesium Grass Alpha Beta

Special Requirements:	
Possible Hazard Identification:	Sample Disposal:
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months (A fee may apply if samples are retained longer than 3 months)
Turn Around Time Required:	QC Level:
<input type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Other _____	<input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III
Relinquished by:	Project Specific Requirements (Specify):
John Collins	
Date/Time:	Received by:
12-22-09 3:00PM	
Relinquished by:	Received by:
Relinquished by:	Received by:
Comments:	Date/Time:
	12/23/09 9:40



# METHODS SUMMARY

C9L230421

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH (Electrometric)	SM20 4500-H+B	SM20 4500-H B
Acidity (Titrimetric) 2310B (4a)	SM20 2310B (4a)	
Alkalinity, Total	SM18 2320 B	SM18 2320 B
Biochemical Oxygen Demand 5210B	SM20 5210B	SM20 5210B
Bromide	MCAWW 300.0A	MCAWW 300.0A
Chemical Oxygen Demand	MCAWW 410.4	MCAWW 410.4
Chloride	MCAWW 300.0A	MCAWW 300.0A
Conductivity 2510B	SM20 2510B	SM20 2510B
HARDNESS, TOTAL	SM20 2340C	SM20 2340C
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 7470A
N-Hexane Extractable Material (1664A)	CFR136A 1664A H	EPA 1664A
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Nitrogen, Ammonia	MCAWW 350.1	MCAWW 350.1
Sulfate	MCAWW 300.0A	MCAWW 300.0A
Total Dissolved Solids SM 2540C (SM 20)	SM20 2540C	SM20 2540C
Total Phenolics 420.4	MCAWW 420.4	
Total Suspended Solids SM 2540 D	SM20 2540D	SM20 2540D
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3005A
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3010A
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B

## References:

- CFR136A "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
- SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.
- SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

## SAMPLE SUMMARY

C9L230421

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LRJLW	001	WASHINGTON COUNTY FLOW BACK	12/22/09	10:00
LRJL0	002	WESTMORELAND PRODUCTION BRINE	12/21/09	10:00
LRJL1	003	FAYETTE COUNTY BRINE	12/22/09	10:00
LRJL2	004	WESTMORELAND FLOW BACK	12/21/09	10:30
LRJNQ	005	TRIP BLANK	12/21/09	
LRJPP	008	GREENE COUNTY PRODUCTION BRINE	12/22/09	10:00

### NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Cash in Advance / Prepaid Sales

Client Sample ID: WASHINGTON COUNTY FLOW BACK

GC/MS Volatiles

Lot-Sample #...: C9L230421-001 Work Order #...: LRJLW1AC Matrix.....: WATER  
 Date Sampled...: 12/22/09 Date Received...: 12/23/09 MS Run #.....: 9364191  
 Prep Date.....: 12/30/09 Analysis Date...: 12/30/09  
 Prep Batch #...: 9364341 Analysis Time...: 12:51  
 Dilution Factor: 10  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	240	50	ug/L	9.9
Toluene	530	50	ug/L	8.5
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
1,2-Dichloroethane-d4	107	(62 - 123)		
Toluene-d8	92	(80 - 120)		
4-Bromofluorobenzene	101	(75 - 120)		
Dibromofluoromethane	104	(80 - 120)		

# Cash in Advance / Prepaid Sales

Client Sample ID: WESTMORELAND PRODUCTION BRINE

## GC/MS Volatiles

Lot-Sample #....: C9L230421-002    Work Order #....: LRJL01AN    Matrix.....: WATER  
 Date Sampled...: 12/21/09    Date Received...: 12/23/09    MS Run #.....: 9364191  
 Prep Date.....: 12/30/09    Analysis Date...: 12/30/09  
 Prep Batch #....: 9364341    Analysis Time...: 13:39  
 Dilution Factor: 1  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	5.0	ug/L	0.99
Toluene	ND	5.0	ug/L	0.85

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	118	(62 - 123)
Toluene-d8	101	(80 - 120)
4-Bromofluorobenzene	80	(75 - 120)
Dibromofluoromethane	112	(80 - 120)

Cash in Advance / Prepaid Sales

Client Sample ID: FAYETTE COUNTY BRINE

GC/MS Volatiles

Lot-Sample #...: C9L230421-003    Work Order #...: LRJL11AN    Matrix.....: WATER  
 Date Sampled...: 12/22/09    Date Received...: 12/23/09    MS Run #.....: 9364191  
 Prep Date.....: 12/30/09    Analysis Date...: 12/30/09  
 Prep Batch #...: 9364341    Analysis Time...: 14:04  
 Dilution Factor: 1  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Benzene	ND	5.0	ug/L	0.99
Toluene	ND	5.0	ug/L	0.85
SURROGATE	PERCENT RECOVERY	RECOVERY		
		LIMITS		
1,2-Dichloroethane-d4	111	(62 - 123)		
Toluene-d8	89	(80 - 120)		
4-Bromofluorobenzene	98	(75 - 120)		
Dibromofluoromethane	113	(80 - 120)		



Cash in Advance / Prepaid Sales

Client Sample ID: WESTMORELAND FLOW BACK

GC/MS Volatiles

Lot-Sample #...: C9L230421-004 Work Order #...: LRJL21AN Matrix.....: WATER  
 Date Sampled...: 12/21/09 Date Received...: 12/23/09 MS Run #.....: 9364191  
 Prep Date.....: 12/30/09 Analysis Date...: 12/30/09  
 Prep Batch #...: 9364341 Analysis Time...: 14:29  
 Dilution Factor: 1  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	1.1 J	5.0	ug/L	0.99
Toluene	1.1 J	5.0	ug/L	0.85

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	107	(62 - 123)
Toluene-d8	92	(80 - 120)
4-Bromofluorobenzene	97	(75 - 120)
Dibromofluoromethane	108	(80 - 120)

NOTE(S) :

J Estimated result. Result is less than RL.

Cash in Advance / Prepaid Sales

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: C9L230421-005 Work Order #...: LRJNQ1AA Matrix.....: WATER  
 Date Sampled...: 12/21/09 Date Received...: 12/23/09 MS Run #.....: 9364191  
 Prep Date.....: 12/30/09 Analysis Date...: 12/30/09  
 Prep Batch #...: 9364341 Analysis Time...: 13:15  
 Dilution Factor: 1  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	5.0	ug/L	0.99
Toluene	ND	5.0	ug/L	0.85
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
1,2-Dichloroethane-d4	105	(62 - 123)		
Toluene-d8	90	(80 - 120)		
4-Bromofluorobenzene	99	(75 - 120)		
Dibromofluoromethane	107	(80 - 120)		

Cash in Advance / Prepaid Sales

Client Sample ID: GREENE COUNTY PRODUCTION BRINE

GC/MS Volatiles

Lot-Sample #....: C9L230421-008    Work Order #....: LRJPP1AN    Matrix.....: WATER  
 Date Sampled....: 12/22/09    Date Received...: 12/23/09    MS Run #.....: 9364191  
 Prep Date.....: 12/30/09    Analysis Date...: 12/30/09  
 Prep Batch #....: 9364341    Analysis Time...: 16:31  
 Dilution Factor: 1  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzene	ND	5.0	ug/L	0.99
Toluene	ND	5.0	ug/L	0.85

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	105	(62 - 123)
Toluene-d8	91	(80 - 120)
4-Bromofluorobenzene	101	(75 - 120)
Dibromofluoromethane	110	(80 - 120)

Cash in Advance / Prepaid Sales

GREENE COUNTY PRODUCTION BRINE

GC/MS Volatiles

Lot-Sample #: C9L230421-008

Work Order #: LRJPP1AN

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Carbon dioxide	124-38-9	290 NJ	M 1.4495	ug/L
Isopropyl Alcohol	67-63-0	45 NJ	M 3.9316	ug/L
1-Hexanol, 2-ethyl-	104-76-7	41 NJ	M 13.02	ug/L
2-Propynenitrile, 3-fluoro-	32038-83-8	0.18 NJ	M 14.31	ug/L
6-Nitro-8-methoxy-2H-chromene	100014-76-4	0.19 NJ	M 14.571	ug/L
3,3-Dimethyl-4-phenylamino-but	100014-32-6	0.17 NJ	M 14.936	ug/L
Butane, 2,2-dimethyl-	75-83-2	0.66 NJ	M 15.398	ug/L
1-Decanol	112-30-1	5.4 NJ	M 15.648	ug/L
6-Nitro-8-methoxy-2H-chromene	100014-76-4	0.35 NJ	M 15.976	ug/L
Aziridine, 2,2-dimethyl-	2658-24-4	0.20 NJ	M 16.238	ug/L
Butanoic acid, 2-ethylhexyl es	100014-00-1	0.48 NJ	M 16.329	ug/L

NOTE(S) :

M: Result was measured against nearest internal standard assuming a response factor of 1.

# METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #...: C9L230421  
MB Lot-Sample #: C9L300000-341

Work Order #...: LRQRN1AA

Matrix.....: WATER

Analysis Date...: 12/30/09  
Dilution Factor: 1

Prep Date.....: 12/30/09

Analysis Time...: 08:22

Prep Batch #...: 9364341

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	5.0	ug/L	SW846 8260B
Toluene	ND	5.0	ug/L	SW846 8260B
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
1,2-Dichloroethane-d4	104	(62 - 123)		
Toluene-d8	102	(80 - 120)		
4-Bromofluorobenzene	103	(75 - 120)		
Dibromofluoromethane	100	(80 - 120)		

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.



# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #...: C9L230421      Work Order #...: LRQRN1AC      Matrix.....: WATER  
 LCS Lot-Sample#: C9L300000-341  
 Prep Date.....: 12/30/09      Analysis Date...: 12/30/09  
 Prep Batch #...: 9364341      Analysis Time...: 09:17  
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	93	(69 - 127)	SW846 8260B
Trichloroethene	96	(80 - 120)	SW846 8260B
Chlorobenzene	100	(83 - 120)	SW846 8260B
Benzene	99	(80 - 120)	SW846 8260B
Toluene	100	(80 - 124)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	97	(62 - 123)
Toluene-d8	96	(80 - 120)
4-Bromofluorobenzene	97	(75 - 120)
Dibromofluoromethane	95	(80 - 120)

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #...: C9L230421      Work Order #...: LRHT41AN-MS      Matrix.....: WATER  
 MS Lot-Sample #: C9L220567-001      .      LRHT41AP-MSD  
 Date Sampled...: 12/22/09      Date Received...: 12/22/09      MS Run #.....: 9364191  
 Prep Date.....: 12/30/09      Analysis Date...: 12/30/09  
 Prep Batch #...: 9364341      Analysis Time...: 09:42  
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	94	(69 - 127)			SW846 8260B
	96	(69 - 127)	1.9	(0-20)	SW846 8260B
Trichloroethene	95	(80 - 120)			SW846 8260B
	96	(80 - 120)	1.1	(0-20)	SW846 8260B
Chlorobenzene	98	(83 - 120)			SW846 8260B
	103	(83 - 120)	5.1	(0-20)	SW846 8260B
Benzene	95	(80 - 120)			SW846 8260B
	98	(80 - 120)	2.5	(0-20)	SW846 8260B
Toluene	99	(80 - 124)			SW846 8260B
	102	(80 - 124)	2.7	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	95	(62 - 123)
	94	(62 - 123)
Toluene-d8	97	(80 - 120)
	100	(80 - 120)
4-Bromofluorobenzene	94	(75 - 120)
	98	(75 - 120)
Dibromofluoromethane	94	(80 - 120)
	96	(80 - 120)

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## Cash in Advance / Prepaid Sales

Client Sample ID: WASHINGTON COUNTY FLOW BACK

## TOTAL Metals

Lot-Sample #...: C9L230421-001

Matrix.....: WATER

Date Sampled...: 12/22/09

Date Received...: 12/23/09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0002054						
Silver	ND	5.0	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1A5
		Dilution Factor: 1		Analysis Time...: 17:30	MS Run #.....: 0002030	
		MDL.....: 0.68				
Aluminum	180 B	200	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1A6
		Dilution Factor: 1		Analysis Time...: 17:30	MS Run #.....: 0002030	
		MDL.....: 9.7				
Arsenic	17.2	10.0	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1A7
		Dilution Factor: 1		Analysis Time...: 17:30	MS Run #.....: 0002030	
		MDL.....: 2.7				
Barium	9430	200	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1A8
		Dilution Factor: 1		Analysis Time...: 17:30	MS Run #.....: 0002030	
		MDL.....: 0.62				
Veryllium	ND	4.0	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1A9
		Dilution Factor: 1		Analysis Time...: 17:30	MS Run #.....: 0002030	
		MDL.....: 0.23				
Boron	7760	200	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1CA
		Dilution Factor: 1		Analysis Time...: 17:30	MS Run #.....: 0002030	
		MDL.....: 1.3				
Calcium	1790000	50000	ug/L	SW846 6010B	01/02-01/06/10	LRJLW1CC
		Dilution Factor: 10		Analysis Time...: 17:53	MS Run #.....: 0002030	
		MDL.....: 96.8				
Cadmium	0.19 B	5.0	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1CD
		Dilution Factor: 1		Analysis Time...: 17:30	MS Run #.....: 0002030	
		MDL.....: 0.13				
Cobalt	4.2 B	500	ug/L	SW846 6010B	01/02-01/06/10	LRJLW1CE
		Dilution Factor: 10		Analysis Time...: 17:53	MS Run #.....: 0002030	
		MDL.....: 4.0				

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Cash in Advance / Prepaid Sales

Client Sample ID: WASHINGTON COUNTY FLOW BACK

TOTAL Metals

Lot-Sample #...: C9L230421-001

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium	0.84 B	5.0	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1CF
		Dilution Factor: 1		Analysis Time..: 17:30	MS Run #.....: 0002030	
		MDL.....: 0.57				
Copper	6.5 B	25.0	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1CG
		Dilution Factor: 1		Analysis Time..: 17:30	MS Run #.....: 0002030	
		MDL.....: 2.7				
Iron	6470	100	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1CH
		Dilution Factor: 1		Analysis Time..: 17:30	MS Run #.....: 0002030	
		MDL.....: 11.9				
Lithium	12500	50.0	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1CJ
		Dilution Factor: 1		Analysis Time..: 17:30	MS Run #.....: 0002030	
		MDL.....: 2.8				
Magnesium	188000	5000	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1CK
		Dilution Factor: 1		Analysis Time..: 17:30	MS Run #.....: 0002030	
		MDL.....: 20.7				
Manganese	1310	15.0	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1CL
		Dilution Factor: 1		Analysis Time..: 17:30	MS Run #.....: 0002030	
		MDL.....: 0.68				
Molybdenum	14.1 B	40.0	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1CM
		Dilution Factor: 1		Analysis Time..: 17:30	MS Run #.....: 0002030	
		MDL.....: 1.4				
Sodium	6920000	250000	ug/L	SW846 6010B	01/02-01/06/10	LRJLW1CN
		Dilution Factor: 50		Analysis Time..: 17:58	MS Run #.....: 0002030	
		MDL.....: 10800				
Nickel	29.2 B	400	ug/L	SW846 6010B	01/02-01/06/10	LRJLW1CP
		Dilution Factor: 10		Analysis Time..: 17:53	MS Run #.....: 0002030	
		MDL.....: 15.6				
Selenium	ND	5.0	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1CQ
		Dilution Factor: 1		Analysis Time..: 17:30	MS Run #.....: 0002030	
		MDL.....: 3.0				

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Cash in Advance / Prepaid Sales

Client Sample ID: WASHINGTON COUNTY FLOW BACK

TOTAL Metals

Lot-Sample #...: C9L230421-001

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Strontium	215000	2500	ug/L	SW846 6010B	01/02-01/06/10	LRJLW1CR
		Dilution Factor: 50		Analysis Time...: 17:58	MS Run #.....: 0002030	
		MDL.....: 4.6				
Zinc	32.1	20.0	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1CT
		Dilution Factor: 1		Analysis Time...: 17:30	MS Run #.....: 0002030	
		MDL.....: 2.5				
Prep Batch #...: 0006015						
Mercury	ND	0.20	ug/L	SW846 7470A	01/06/10	LRJLW1A0
		Dilution Factor: 1		Analysis Time...: 09:00	MS Run #.....: 0006006	
		MDL.....: 0.038				

NOTE(S) :

B Estimated result. Result is less than RL.



Cash in Advance / Prepaid Sales

Client Sample ID: WASHINGTON COUNTY FLOW BACK

DISSOLVED Metals

Lot-Sample #...: C9L230421-001

Matrix.....: WATER

Date Sampled...: 12/22/09

Date Received...: 12/23/09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0002053						
Iron	6270	100	ug/L	SW846 6010B	01/02-01/05/10	LRJLW1A1
		Dilution Factor: 1		Analysis Time...: 19:08	MS Run #.....: 0002029	
		MDL.....: 11.9				

## Cash in Advance / Prepaid Sales

Client Sample ID: WESTMORELAND PRODUCTION BRINE

## TOTAL Metals

Lot-Sample #...: C9L230421-002

Matrix.....: WATER

Date Sampled...: 12/21/09

Date Received...: 12/23/09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0002054						
Silver	ND	125	ug/L	SW846 6010B	01/02-01/06/10	LRJL01AG
		Dilution Factor: 25		Analysis Time...: 16:57	MS Run #.....: 0002030	
		MDL.....: 17.0				
Aluminum	1880 B	5000	ug/L	SW846 6010B	01/02-01/06/10	LRJL01AH
		Dilution Factor: 25		Analysis Time...: 16:57	MS Run #.....: 0002030	
		MDL.....: 242				
Arsenic	90.8 B	250	ug/L	SW846 6010B	01/02-01/06/10	LRJL01AJ
		Dilution Factor: 25		Analysis Time...: 16:57	MS Run #.....: 0002030	
		MDL.....: 68.5				
Barium	1410000	10000	ug/L	SW846 6010B	01/02-01/06/10	LRJL01AK
		Dilution Factor: 50		Analysis Time...: 17:03	MS Run #.....: 0002030	
		MDL.....: 31.0				
Beryllium	ND	100	ug/L	SW846 6010B	01/02-01/06/10	LRJL01AL
		Dilution Factor: 25		Analysis Time...: 16:57	MS Run #.....: 0002030	
		MDL.....: 5.8				
Boron	94700	5000	ug/L	SW846 6010B	01/02-01/06/10	LRJL01CA
		Dilution Factor: 25		Analysis Time...: 16:57	MS Run #.....: 0002030	
		MDL.....: 32.8				
Calcium	17600000	250000	ug/L	SW846 6010B	01/02-01/06/10	LRJL01CC
		Dilution Factor: 50		Analysis Time...: 17:03	MS Run #.....: 0002030	
		MDL.....: 484				
Cadmium	ND	125	ug/L	SW846 6010B	01/02-01/06/10	LRJL01CD
		Dilution Factor: 25		Analysis Time...: 16:57	MS Run #.....: 0002030	
		MDL.....: 3.2				
Cobalt	ND	2500	ug/L	SW846 6010B	01/02-01/06/10	LRJL01CE
		Dilution Factor: 50		Analysis Time...: 17:03	MS Run #.....: 0002030	
		MDL.....: 20.0				

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## Cash in Advance / Prepaid Sales

Client Sample ID: WESTMORELAND PRODUCTION BRINE

## TOTAL Metals

Lot-Sample #...: C9L230421-002

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium	16.0 B	125	ug/L	SW846 6010B	01/02-01/06/10	LRJL01CF
		Dilution Factor: 25		Analysis Time..: 16:57	MS Run #.....: 0002030	
		MDL.....: 14.2				
Copper	90.2 B	625	ug/L	SW846 6010B	01/02-01/06/10	LRJL01CG
		Dilution Factor: 25		Analysis Time..: 16:57	MS Run #.....: 0002030	
		MDL.....: 67.8				
Iron	119000	2500	ug/L	SW846 6010B	01/02-01/06/10	LRJL01CH
		Dilution Factor: 25		Analysis Time..: 16:57	MS Run #.....: 0002030	
		MDL.....: 298				
Lithium	104000	1250	ug/L	SW846 6010B	01/02-01/06/10	LRJL01CJ
		Dilution Factor: 25		Analysis Time..: 16:57	MS Run #.....: 0002030	
		MDL.....: 69.5				
Magnesium	1300000	125000	ug/L	SW846 6010B	01/02-01/06/10	LRJL01CK
		Dilution Factor: 25		Analysis Time..: 16:57	MS Run #.....: 0002030	
		MDL.....: 518				
Manganese	2040	375	ug/L	SW846 6010B	01/02-01/06/10	LRJL01CL
		Dilution Factor: 25		Analysis Time..: 16:57	MS Run #.....: 0002030	
		MDL.....: 17.0				
Molybdenum	ND	1000	ug/L	SW846 6010B	01/02-01/06/10	LRJL01CM
		Dilution Factor: 25		Analysis Time..: 16:57	MS Run #.....: 0002030	
		MDL.....: 34.5				
Sodium	48400	5000	ug/L	SW846 6010B	01/02-01/07/10	LRJL01CN
		Dilution Factor: 1		Analysis Time..: 13:22	MS Run #.....: 0002030	
		MDL.....: 215				
Nickel	ND	2000	ug/L	SW846 6010B	01/02-01/06/10	LRJL01CP
		Dilution Factor: 50		Analysis Time..: 17:03	MS Run #.....: 0002030	
		MDL.....: 78.0				
Selenium	ND	125	ug/L	SW846 6010B	01/02-01/06/10	LRJL01CQ
		Dilution Factor: 25		Analysis Time..: 16:57	MS Run #.....: 0002030	
		MDL.....: 76.0				

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# Cash in Advance / Prepaid Sales

Client Sample ID: WESTMORELAND PRODUCTION BRINE

## TOTAL Metals

Lot-Sample #...: C9L230421-002

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Strontium	5800000	50000	ug/L	SW846 6010B	01/02-01/07/10	LRJL01CR
		Dilution Factor: 1000		Analysis Time...: 13:22	MS Run #.....: 0002030	
		MDL.....: 93.0				
Zinc	146 B	500	ug/L	SW846 6010B	01/02-01/06/10	LRJL01CT
		Dilution Factor: 25		Analysis Time...: 16:57	MS Run #.....: 0002030	
		MDL.....: 61.5				
Prep Batch #...: 0006015						
Mercury	0.045 B,J	0.20	ug/L	SW846 7470A	01/06/10	LRJL01AA
		Dilution Factor: 1		Analysis Time...: 09:02	MS Run #.....: 0006006	
		MDL.....: 0.038				

### NOTE(S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

# Cash in Advance / Prepaid Sales

Client Sample ID: WESTMORELAND PRODUCTION BRINE

## DISSOLVED Metals

Lot-Sample #....: C9L230421-002

Matrix.....: WATER

Date Sampled....: 12/21/09

Date Received...: 12/23/09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 0002053						
Iron	110000	2500	ug/L	SW846 6010B	01/02-01/06/10	LRJL01AC
		Dilution Factor: 25		Analysis Time..: 19:23	MS Run #.....: 0002029	
		MDL.....: 298				



**Cash in Advance / Prepaid Sales**

**Client Sample ID: FAYETTE COUNTY BRINE**

**TOTAL Metals**

**Lot-Sample #...: C9L230421-003**

**Matrix.....: WATER**

**Date Sampled...: 12/22/09**

**Date Received...: 12/23/09**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>Prep Batch #...: 0002054</b>						
Silver	ND	50.0	ug/L	SW846 6010B	01/02-01/06/10	LRJL11AG
		Dilution Factor: 10		Analysis Time...: 17:13	MS Run #.....: 0002030	
		MDL.....: 6.8				
Aluminum	508 B	2000	ug/L	SW846 6010B	01/02-01/06/10	LRJL11AH
		Dilution Factor: 10		Analysis Time...: 17:13	MS Run #.....: 0002030	
		MDL.....: 96.8				
Arsenic	ND	100	ug/L	SW846 6010B	01/02-01/06/10	LRJL11AJ
		Dilution Factor: 10		Analysis Time...: 17:13	MS Run #.....: 0002030	
		MDL.....: 27.4				
Barium	19000	2000	ug/L	SW846 6010B	01/02-01/06/10	LRJL11AK
		Dilution Factor: 10		Analysis Time...: 17:13	MS Run #.....: 0002030	
		MDL.....: 6.2				
Beryllium	ND	40.0	ug/L	SW846 6010B	01/02-01/06/10	LRJL11AL
		Dilution Factor: 10		Analysis Time...: 17:13	MS Run #.....: 0002030	
		MDL.....: 2.3				
Boron	25500	2000	ug/L	SW846 6010B	01/02-01/06/10	LRJL11CA
		Dilution Factor: 10		Analysis Time...: 17:13	MS Run #.....: 0002030	
		MDL.....: 13.1				
Calcium	3140000	50000	ug/L	SW846 6010B	01/02-01/06/10	LRJL11CC
		Dilution Factor: 10		Analysis Time...: 17:13	MS Run #.....: 0002030	
		MDL.....: 96.8				
Cadmium	ND	50.0	ug/L	SW846 6010B	01/02-01/06/10	LRJL11CD
		Dilution Factor: 10		Analysis Time...: 17:13	MS Run #.....: 0002030	
		MDL.....: 1.3				
Cobalt	8.8 B	500	ug/L	SW846 6010B	01/02-01/06/10	LRJL11CE
		Dilution Factor: 10		Analysis Time...: 17:13	MS Run #.....: 0002030	
		MDL.....: 4.0				

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Cash in Advance / Prepaid Sales

Client Sample ID: FAYETTE COUNTY BRINE

TOTAL Metals

Lot-Sample #...: C9L230421-003

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium	11.5 B	50.0	ug/L	SW846 6010B	01/02-01/06/10	LRJL11CF
		Dilution Factor: 10		Analysis Time..: 17:13	MS Run #.....: 0002030	
		MDL.....: 5.7				
Copper	ND	250	ug/L	SW846 6010B	01/02-01/06/10	LRJL11CG
		Dilution Factor: 10		Analysis Time..: 17:13	MS Run #.....: 0002030	
		MDL.....: 27.1				
Iron	27400	1000	ug/L	SW846 6010B	01/02-01/06/10	LRJL11CH
		Dilution Factor: 10		Analysis Time..: 17:13	MS Run #.....: 0002030	
		MDL.....: 119				
Lithium	21500	500	ug/L	SW846 6010B	01/02-01/06/10	LRJL11CJ
		Dilution Factor: 10		Analysis Time..: 17:13	MS Run #.....: 0002030	
		MDL.....: 27.8				
Magnesium	295000	50000	ug/L	SW846 6010B	01/02-01/06/10	LRJL11CK
		Dilution Factor: 10		Analysis Time..: 17:13	MS Run #.....: 0002030	
		MDL.....: 207				
Manganese	722	150	ug/L	SW846 6010B	01/02-01/06/10	LRJL11CL
		Dilution Factor: 10		Analysis Time..: 17:13	MS Run #.....: 0002030	
		MDL.....: 6.8				
Molybdenum	ND	400	ug/L	SW846 6010B	01/02-01/06/10	LRJL11CM
		Dilution Factor: 10		Analysis Time..: 17:13	MS Run #.....: 0002030	
		MDL.....: 13.8				
Sodium	12000000	125000	ug/L	SW846 6010B	01/02-01/06/10	LRJL11CN
		Dilution Factor: 25		Analysis Time..: 17:18	MS Run #.....: 0002030	
		MDL.....: 5380				
Nickel	ND	400	ug/L	SW846 6010B	01/02-01/06/10	LRJL11CP
		Dilution Factor: 10		Analysis Time..: 17:13	MS Run #.....: 0002030	
		MDL.....: 15.6				
Selenium	ND	50.0	ug/L	SW846 6010B	01/02-01/06/10	LRJL11CQ
		Dilution Factor: 10		Analysis Time..: 17:13	MS Run #.....: 0002030	
		MDL.....: 30.4				

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Cash in Advance / Prepaid Sales

Client Sample ID: FAYETTE COUNTY BRINE

TOTAL Metals

Lot-Sample #...: C9L230421-003

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Strontium	693000	5000	ug/L	SW846 6010B	01/02-01/07/10	LRJL11CR
		Dilution Factor: 100		Analysis Time...: 13:27	MS Run #.....: 0002030	
		MDL.....: 9.3				
Zinc	83.9 B	200	ug/L	SW846 6010B	01/02-01/06/10	LRJL11CT
		Dilution Factor: 10		Analysis Time...: 17:13	MS Run #.....: 0002030	
		MDL.....: 24.6				
Prep Batch #...: 0006015						
Mercury	ND	0.20	ug/L	SW846 7470A	01/06/10	LRJL11AA
		Dilution Factor: 1		Analysis Time...: 09:03	MS Run #.....: 0006006	
		MDL.....: 0.038				

NOTE(S):

B Estimated result. Result is less than RL.

Cash in Advance / Prepaid Sales

Client Sample ID: FAYETTE COUNTY BRINE

DISSOLVED Metals

Lot-Sample #....: C9L230421-003

Matrix.....: WATER

Date Sampled....: 12/22/09

Date Received...: 12/23/09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 0002053						
Iron	28000	1000	ug/L	SW846 6010B	01/02-01/06/10	LRJL11AC
		Dilution Factor: 10		Analysis Time..: 19:28	MS Run #.....: 0002029	
		MDL.....: 119				

## Cash in Advance / Prepaid Sales

Client Sample ID: WESTMORELAND FLOW BACK

## TOTAL Metals

Lot-Sample #...: C9L230421-004

Matrix.....: WATER

Date Sampled...: 12/21/09

Date Received...: 12/23/09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0002054						
Silver	ND	50.0	ug/L	SW846 6010B	01/02-01/06/10	LRJL21AG
		Dilution Factor: 10		Analysis Time...: 17:28	MS Run #.....: 0002030	
		MDL.....: 6.8				
Aluminum	519 B	2000	ug/L	SW846 6010B	01/02-01/06/10	LRJL21AH
		Dilution Factor: 10		Analysis Time...: 17:28	MS Run #.....: 0002030	
		MDL.....: 96.8				
Arsenic	ND	100	ug/L	SW846 6010B	01/02-01/06/10	LRJL21AJ
		Dilution Factor: 10		Analysis Time...: 17:28	MS Run #.....: 0002030	
		MDL.....: 27.4				
Barium	107000	2000	ug/L	SW846 6010B	01/02-01/06/10	LRJL21AK
		Dilution Factor: 10		Analysis Time...: 17:28	MS Run #.....: 0002030	
		MDL.....: 6.2				
Beryllium	ND	40.0	ug/L	SW846 6010B	01/02-01/06/10	LRJL21AL
		Dilution Factor: 10		Analysis Time...: 17:28	MS Run #.....: 0002030	
		MDL.....: 2.3				
Boron	12800	2000	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CA
		Dilution Factor: 10		Analysis Time...: 17:28	MS Run #.....: 0002030	
		MDL.....: 13.1				
Calcium	2730000	50000	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CC
		Dilution Factor: 10		Analysis Time...: 17:28	MS Run #.....: 0002030	
		MDL.....: 96.8				
Cadmium	ND	50.0	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CD
		Dilution Factor: 10		Analysis Time...: 17:28	MS Run #.....: 0002030	
		MDL.....: 1.3				
Cobalt	ND	500	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CE
		Dilution Factor: 10		Analysis Time...: 17:28	MS Run #.....: 0002030	
		MDL.....: 4.0				

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# Cash in Advance / Prepaid Sales

Client Sample ID: WESTMORELAND FLOW BACK

## TOTAL Metals

Lot-Sample #...: C9L230421-004

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium	7.8 B	50.0	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CF
		Dilution Factor: 10		Analysis Time..: 17:28	MS Run #.....: 0002030	
		MDL.....: 5.7				
Copper	ND	250	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CG
		Dilution Factor: 10		Analysis Time..: 17:28	MS Run #.....: 0002030	
		MDL.....: 27.1				
Iron	43500	1000	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CH
		Dilution Factor: 10		Analysis Time..: 17:28	MS Run #.....: 0002030	
		MDL.....: 119				
Lithium	19800	500	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CJ
		Dilution Factor: 10		Analysis Time..: 17:28	MS Run #.....: 0002030	
		MDL.....: 27.8				
Magnesium	278000	50000	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CK
		Dilution Factor: 10		Analysis Time..: 17:28	MS Run #.....: 0002030	
		MDL.....: 207				
Manganese	2540	150	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CL
		Dilution Factor: 10		Analysis Time..: 17:28	MS Run #.....: 0002030	
		MDL.....: 6.8				
Molybdenum	ND	400	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CM
		Dilution Factor: 10		Analysis Time..: 17:28	MS Run #.....: 0002030	
		MDL.....: 13.8				
Sodium	12700000	250000	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CN
		Dilution Factor: 50		Analysis Time..: 17:34	MS Run #.....: 0002030	
		MDL.....: 10800				
Nickel	33.2 B	400	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CP
		Dilution Factor: 10		Analysis Time..: 17:28	MS Run #.....: 0002030	
		MDL.....: 15.6				
Selenium	ND	50.0	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CQ
		Dilution Factor: 10		Analysis Time..: 17:28	MS Run #.....: 0002030	
		MDL.....: 30.4				

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# Cash in Advance / Prepaid Sales

Client Sample ID: WESTMORELAND FLOW BACK

## TOTAL Metals

Lot-Sample #...: C9L230421-004

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Strontium	670000	5000	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CR
		Dilution Factor: 100		Analysis Time..: 17:48	MS Run #.....: 0002030	
		MDL.....: 9.3				
Zinc	65.7 B	200	ug/L	SW846 6010B	01/02-01/06/10	LRJL21CT
		Dilution Factor: 10		Analysis Time..: 17:28	MS Run #.....: 0002030	
		MDL.....: 24.6				
Prep Batch #...: 0006015						
Mercury	ND	0.20	ug/L	SW846 7470A	01/06/10	LRJL21AA
		Dilution Factor: 1		Analysis Time..: 09:13	MS Run #.....: 0006006	
		MDL.....: 0.038				

### NOTE(S):

B Estimated result. Result is less than RL

# Cash in Advance / Prepaid Sales

Client Sample ID: WESTMORELAND FLOW BACK

## DISSOLVED Metals

Lot-Sample #...: C9L230421-004

Matrix.....: WATER

Date Sampled...: 12/21/09

Date Received...: 12/23/09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0002053						
Iron	43000	1000	ug/L	SW846 6010B	01/02-01/06/10	LRJL21AC
		Dilution Factor: 10		Analysis Time...: 19:34	MS Run #.....: 0002029	
		MDL.....: 119				

## Cash in Advance / Prepaid Sales

Client Sample ID: GREENE COUNTY PRODUCTION BRINE

## TOTAL Metals

Lot-Sample #...: C9L230421-008

Matrix.....: WATER

Date Sampled...: 12/22/09

Date Received...: 12/23/09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0002054						
Silver	ND	50.0	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1AG
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 6.8				
Aluminum	629 B	2000	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1AH
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 96.8				
Arsenic	27.4 B	100	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1AJ
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 27.4				
Barium	3700	2000	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1AK
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 6.2				
eryllium	ND	40.0	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1AL
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 2.3				
Boron	25700	2000	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CA
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 13.1				
Calcium	2440000	50000	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CC
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 96.8				
Cadmium	ND	50.0	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CD
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 1.3				
Cobalt	8.8 B	500	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CE
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 4.0				

(Continued on next page)

Cash in Advance / Prepaid Sales

Client Sample ID: GREENE COUNTY PRODUCTION BRINE

TOTAL Metals

Lot-Sample #....: C9L230421-008

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium	24.7 B	50.0	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CF
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 5.7				
Copper	ND	250	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CG
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 27.1				
Iron	21100	1000	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CH
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 119				
Lithium	15300	500	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CJ
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 27.8				
Magnesium	250000	50000	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CK
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 207				
Manganese	1080	150	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CL
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 6.8				
Molybdenum	15.0 B	400	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CM
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 13.8				
Sodium	11900000	250000	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CN
		Dilution Factor: 50		Analysis Time..: 18:13	MS Run #.....: 0002030	
		MDL.....: 10800				
Nickel	23.4 B	400	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CP
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 15.6				
Selenium	ND	50.0	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CQ
		Dilution Factor: 10		Analysis Time..: 18:08	MS Run #.....: 0002030	
		MDL.....: 30.4				

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Cash in Advance / Prepaid Sales

Client Sample ID: GREENE COUNTY PRODUCTION BRINE

TOTAL Metals

Lot-Sample #...: C9L230421-008

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Strontium	587000	5000	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CR
		Dilution Factor: 100		Analysis Time.: 18:18	MS Run #.....: 0002030	
		MDL.....: 9.3				
Zinc	61.8 B	200	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1CT
		Dilution Factor: 10		Analysis Time.: 18:08	MS Run #.....: 0002030	
		MDL.....: 24.6				
Prep Batch #...: 0006015						
Mercury	ND	0.20	ug/L	SW846 7470A	01/06/10	LRJPP1AA
		Dilution Factor: 1		Analysis Time.: 09:15	MS Run #.....: 0006006	
		MDL.....: 0.038				

NOTE(S):

B Estimated result. Result is less than RL.

Cash in Advance / Prepaid Sales

Client Sample ID: GREENE COUNTY PRODUCTION BRINE

DISSOLVED Metals

Lot-Sample #...: C9L230421-008

Matrix.....: WATER

Date Sampled...: 12/22/09

Date Received...: 12/23/09

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0002053						
Iron	99900	2500	ug/L	SW846 6010B	01/02-01/06/10	LRJPP1AC
		Dilution Factor: 25		Analysis Time...: 19:48	MS Run #.....: 0002029	
		MDL.....: 298				

# METHOD BLANK REPORT

## TOTAL Metals

Client Lot #...: C9L230421

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: COA020000-054 Prep Batch #...: 0002054						
Aluminum	ND	200	ug/L	SW846 6010B	01/02-01/05/10	LRR901AC
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Arsenic	ND	10.0	ug/L	SW846 6010B	01/02-01/05/10	LRR901AD
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Barium	ND	200	ug/L	SW846 6010B	01/02-01/05/10	LRR901AE
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Beryllium	ND	4.0	ug/L	SW846 6010B	01/02-01/05/10	LRR901AF
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Boron	ND	200	ug/L	SW846 6010B	01/02-01/05/10	LRR901AG
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Cadmium	ND	5.0	ug/L	SW846 6010B	01/02-01/05/10	LRR901AJ
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Calcium	ND	5000	ug/L	SW846 6010B	01/02-01/05/10	LRR901AH
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Chromium	ND	5.0	ug/L	SW846 6010B	01/02-01/05/10	LRR901AL
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Cobalt	ND	50.0	ug/L	SW846 6010B	01/02-01/05/10	LRR901AK
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Copper	ND	25.0	ug/L	SW846 6010B	01/02-01/05/10	LRR901AM
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Iron	ND	100	ug/L	SW846 6010B	01/02-01/05/10	LRR901AN
		Dilution Factor: 1				
		Analysis Time...: 16:17				

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# METHOD BLANK REPORT

## TOTAL Metals

Client Lot #...: C9L230421

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Lithium	ND	50.0	ug/L	SW846 6010B	01/02-01/05/10	LRR901AP
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Magnesium	ND	5000	ug/L	SW846 6010B	01/02-01/05/10	LRR901AQ
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Manganese	ND	15.0	ug/L	SW846 6010B	01/02-01/05/10	LRR901AR
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Molybdenum	ND	40.0	ug/L	SW846 6010B	01/02-01/05/10	LRR901AT
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Nickel	ND	40.0	ug/L	SW846 6010B	01/02-01/05/10	LRR901AV
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Selenium	ND	5.0	ug/L	SW846 6010B	01/02-01/05/10	LRR901AW
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Silver	ND	5.0	ug/L	SW846 6010B	01/02-01/05/10	LRR901AA
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Sodium	ND	5000	ug/L	SW846 6010B	01/02-01/05/10	LRR901AU
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Strontium	ND	50.0	ug/L	SW846 6010B	01/02-01/05/10	LRR901AX
		Dilution Factor: 1				
		Analysis Time...: 16:17				
Zinc	ND	20.0	ug/L	SW846 6010B	01/02-01/05/10	LRR901AO
		Dilution Factor: 1				
		Analysis Time...: 16:17				

MB Lot-Sample #: COA060000-015 Prep Batch #...: 0006015

Mercury	0.039 B	0.20	ug/L	SW846 7470A	01/06/10	LRV0E1AA
		Dilution Factor: 1				
		Analysis Time...: 08:57				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C9L230421

Matrix.....: WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.



# METHOD BLANK REPORT

## DISSOLVED Metals

Client Lot #...: C9L230421

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: COA020000-053 Prep Batch #...: 0002053						
Iron	ND	100	ug/L	SW846 6010B	01/02-01/05/10	LRR9W1AA
		Dilution Factor: 1				
		Analysis Time.: 18:10				

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #...: C9L230421

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: COA020000-054 Prep Batch #...: 0002054					
Silver	98	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901A1
		Dilution Factor: 1		Analysis Time...: 16:22	
Aluminum	101	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901A2
		Dilution Factor: 1		Analysis Time...: 16:22	
Arsenic	99	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901A3
		Dilution Factor: 1		Analysis Time...: 16:22	
Barium	99	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901A4
		Dilution Factor: 1		Analysis Time...: 16:22	
Beryllium	99	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901A5
		Dilution Factor: 1		Analysis Time...: 16:22	
Boron	103	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901A6
		Dilution Factor: 1		Analysis Time...: 16:22	
Calcium	101	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901A7
		Dilution Factor: 1		Analysis Time...: 16:22	
Cadmium	94	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901A8
		Dilution Factor: 1		Analysis Time...: 16:22	
Cobalt	98	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901A9
		Dilution Factor: 1		Analysis Time...: 16:22	
Chromium	96	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901CA
		Dilution Factor: 1		Analysis Time...: 16:22	
Copper	100	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901CC
		Dilution Factor: 1		Analysis Time...: 16:22	
Iron	104	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901CD
		Dilution Factor: 1		Analysis Time...: 16:22	
Lithium	103	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901CE
		Dilution Factor: 1		Analysis Time...: 16:22	
Magnesium	100	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901CF
		Dilution Factor: 1		Analysis Time...: 16:22	

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# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #...: C9L230421

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Manganese	98	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901CG
		Dilution Factor: 1		Analysis Time...: 16:22	
Molybdenum	101	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901CH
		Dilution Factor: 1		Analysis Time...: 16:22	
Sodium	101	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901CJ
		Dilution Factor: 1		Analysis Time...: 16:22	
Nickel	99	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901CK
		Dilution Factor: 1		Analysis Time...: 16:22	
Selenium	100	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901CL
		Dilution Factor: 1		Analysis Time...: 16:22	
Strontium	100	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901CM
		Dilution Factor: 1		Analysis Time...: 16:22	
Zinc	100	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR901CN
		Dilution Factor: 1		Analysis Time...: 16:22	
LCS Lot-Sample#: COA060000-015 Prep Batch #...: 0006015					
Mercury	98	(80 - 120)	SW846 7470A	01/06/10	LRV0E1AC
		Dilution Factor: 1		Analysis Time...: 08:58	

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## DISSOLVED Metals

Client Lot #...: C9L230421

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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LCS Lot-Sample#: C0A020000-053 Prep Batch #...: 0002053

Iron	102	(80 - 120)	SW846 6010B	01/02-01/05/10	LRR9W1AD
		Dilution Factor: 1		Analysis Time..: 18:15	

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

# MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C9L230421

Matrix.....: WATER

Date Sampled...: 12/22/09

Date Received...: 12/23/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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MS Lot-Sample #: C9L230421-003 Prep Batch #...: 0006015

Mercury	15 N	(75 - 125)			SW846 7470A	01/06/10	LRJL11CV
	12 N, *	(75 - 125)	25	(0-20)	SW846 7470A	01/06/10	LRJL11CW

Dilution Factor: 1

Analysis Time...: 09:09

MS Run #.....: 0006006

## NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

\* Relative percent difference (RPD) is outside stated control limits.



# MATRIX SPIKE SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: C9L230421

Matrix.....: WATER

Date Sampled....: 12/28/09

Date Received...: 12/29/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: C9L290507-001 Prep Batch #....: 0002054						
Aluminum	104	(75 - 125)		SW846 6010B	01/02-01/05/10	LRPFH1CX
	104	(75 - 125)	0.21 (0-20)	SW846 6010B	01/02-01/05/10	LRPFH1C0
		Dilution Factor: 1				
		Analysis Time...: 16:36				
		MS Run #.....: 0002030				
Arsenic	111	(75 - 125)		SW846 6010B	01/02-01/05/10	LRPFH1C1
	113	(75 - 125)	1.2 (0-20)	SW846 6010B	01/02-01/05/10	LRPFH1C2
		Dilution Factor: 1				
		Analysis Time...: 16:36				
		MS Run #.....: 0002030				
Barium	99	(75 - 125)		SW846 6010B	01/02-01/05/10	LRPFH1C3
	102	(75 - 125)	1.3 (0-20)	SW846 6010B	01/02-01/05/10	LRPFH1C4
		Dilution Factor: 1				
		Analysis Time...: 16:36				
		MS Run #.....: 0002030				
Beryllium	93	(75 - 125)		SW846 6010B	01/02-01/05/10	LRPFH1C5
	93	(75 - 125)	0.10 (0-20)	SW846 6010B	01/02-01/05/10	LRPFH1C6
		Dilution Factor: 1				
		Analysis Time...: 16:36				
		MS Run #.....: 0002030				
Boron	NC	(75 - 125)		SW846 6010B	01/02-01/05/10	LRPFH1C7
	NC	(75 - 125)	(0-20)	SW846 6010B	01/02-01/05/10	LRPFH1C8
		Dilution Factor: 1				
		Analysis Time...: 16:36				
		MS Run #.....: 0002030				
Cadmium	87	(75 - 125)		SW846 6010B	01/02-01/05/10	LRPFH1DC
	88	(75 - 125)	0.84 (0-20)	SW846 6010B	01/02-01/05/10	LRPFH1DD
		Dilution Factor: 1				
		Analysis Time...: 16:36				
		MS Run #.....: 0002030				
Calcium	NC	(75 - 125)		SW846 6010B	01/02-01/06/10	LRPFH1C9
	NC	(75 - 125)	(0-20)	SW846 6010B	01/02-01/06/10	LRPFH1DA
		Dilution Factor: 10				
		Analysis Time...: 16:28				
		MS Run #.....: 0002030				

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# MATRIX SPIKE SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #...: C9L230421

Matrix.....: WATER

Date Sampled...: 12/28/09

Date Received...: 12/29/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium	90	(75 - 125)			SW846 6010B	01/02-01/05/10	LRPFH1DG
	90	(75 - 125)	0.42	(0-20)	SW846 6010B	01/02-01/05/10	LRPFH1DH
		Dilution Factor: 1					
		Analysis Time...: 16:36					
		MS Run #.....: 0002030					
Cobalt	89	(75 - 125)			SW846 6010B	01/02-01/06/10	LRPFH1DE
	90	(75 - 125)	1.8	(0-20)	SW846 6010B	01/02-01/06/10	LRPFH1DF
		Dilution Factor: 10					
		Analysis Time...: 16:28					
		MS Run #.....: 0002030					
Copper	103	(75 - 125)			SW846 6010B	01/02-01/05/10	LRPFH1DJ
	103	(75 - 125)	0.24	(0-20)	SW846 6010B	01/02-01/05/10	LRPFH1DK
		Dilution Factor: 1					
		Analysis Time...: 16:36					
		MS Run #.....: 0002030					
Iron	NC	(75 - 125)			SW846 6010B	01/02-01/05/10	LRPFH1DL
	NC	(75 - 125)		(0-20)	SW846 6010B	01/02-01/05/10	LRPFH1DM
		Dilution Factor: 1					
		Analysis Time...: 16:36					
		MS Run #.....: 0002030					
Lithium	NC	(75 - 125)			SW846 6010B	01/02-01/05/10	LRPFH1DN
	NC	(75 - 125)		(0-20)	SW846 6010B	01/02-01/05/10	LRPFH1DP
		Dilution Factor: 1					
		Analysis Time...: 16:36					
		MS Run #.....: 0002030					
Magnesium	93	(75 - 125)			SW846 6010B	01/02-01/05/10	LRPFH1DQ
	101	(75 - 125)	2.7	(0-20)	SW846 6010B	01/02-01/05/10	LRPFH1DR
		Dilution Factor: 1					
		Analysis Time...: 16:36					
		MS Run #.....: 0002030					
Manganese	92	(75 - 125)			SW846 6010B	01/02-01/05/10	LRPFH1DT
	94	(75 - 125)	1.4	(0-20)	SW846 6010B	01/02-01/05/10	LRPFH1DU
		Dilution Factor: 1					
		Analysis Time...: 16:36					
		MS Run #.....: 0002030					

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# MATRIX SPIKE SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: C9L230421

Matrix.....: WATER

Date Sampled...: 12/28/09

Date Received...: 12/29/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Molybdenum	96	(75 - 125)		SW846 6010B	01/02-01/05/10	LRPFH1DV
	97	(75 - 125)	0.89 (0-20)	SW846 6010B	01/02-01/05/10	LRPFH1DW
		Dilution Factor: 1				
		Analysis Time...: 16:36				
		MS Run #.....: 0002030				
Nickel	88	(75 - 125)		SW846 6010B	01/02-01/06/10	LRPFH1D1
	91	(75 - 125)	2.6 (0-20)	SW846 6010B	01/02-01/06/10	LRPFH1D2
		Dilution Factor: 10				
		Analysis Time...: 16:28				
		MS Run #.....: 0002030				
Selenium	110	(75 - 125)		SW846 6010B	01/02-01/05/10	LRPFH1D3
	111	(75 - 125)	1.0 (0-20)	SW846 6010B	01/02-01/05/10	LRPFH1D4
		Dilution Factor: 1				
		Analysis Time...: 16:36				
		MS Run #.....: 0002030				
Silver	111	(75 - 125)		SW846 6010B	01/02-01/05/10	LRPFH1CV
	112	(75 - 125)	1.0 (0-20)	SW846 6010B	01/02-01/05/10	LRPFH1CW
		Dilution Factor: 1				
		Analysis Time...: 16:36				
		MS Run #.....: 0002030				
Sodium	NC	(75 - 125)		SW846 6010B	01/02-01/06/10	LRPFH1DX
	NC	(75 - 125)	(0-20)	SW846 6010B	01/02-01/06/10	LRPFH1D0
		Dilution Factor: 10				
		Analysis Time...: 16:28				
		MS Run #.....: 0002030				
Strontium	NC	(75 - 125)		SW846 6010B	01/02-01/06/10	LRPFH1D5
	NC	(75 - 125)	(0-20)	SW846 6010B	01/02-01/06/10	LRPFH1D6
		Dilution Factor: 25				
		Analysis Time...: 16:33				
		MS Run #.....: 0002030				
Zinc	93	(75 - 125)		SW846 6010B	01/02-01/05/10	LRPFH1D7
	95	(75 - 125)	1.7 (0-20)	SW846 6010B	01/02-01/05/10	LRPFH1D8
		Dilution Factor: 1				
		Analysis Time...: 16:36				
		MS Run #.....: 0002030				

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

C The recovery and/or RPD were not calculated.

# MATRIX SPIKE SAMPLE EVALUATION REPORT

## DISSOLVED Metals

Client Lot #...: C9L230421

Matrix.....: WATER

Date Sampled...: 12/18/09

Date Received...: 12/19/09

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: C9L200410-001 Prep Batch #...: 0002053						
Iron	105	(75 - 125)		SW846 6010B	01/02-01/05/10	LREQ51AH
	97	(75 - 125)	2.3 (0-20)	SW846 6010B	01/02-01/05/10	LREQ51AJ
Dilution Factor: 1						
Analysis Time...: 18:29						
MS Run #.....: 0002029						

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Cash in Advance / Prepaid Sales

Client Sample ID: WASHINGTON COUNTY FLOW BACK

## General Chemistry

Lot-Sample #....: C9L230421-001      Work Order #....: LRJLW      Matrix.....: WATER  
Date Sampled....: 12/22/09      Date Received...: 12/23/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	6.9	--	--	SM20 4500-H+B	01/04/10	0004194
			Dilution Factor: 1	Analysis Time..: 13:47	MS Run #.....: 0004120	
			MDL.....: 0.0			
Acidity	ND	5.0	mg/L	SM20 2310B (4a)	12/31/09	9365043
			Dilution Factor: 1	Analysis Time..: 09:48	MS Run #.....: 9365018	
			MDL.....: 5.0			
Ammonia Nitrogen	37.7	1.0	mg/L	MCAWW 350.1	12/26-12/28/09	9362110
			Dilution Factor: 10	Analysis Time..: 13:42	MS Run #.....: 9362056	
			MDL.....: 0.094			
Biochemical Oxygen Demand (BOD)	>399	2.0	mg/L	SM20 5210B	12/23-12/28/09	9357224
			Dilution Factor: 1	Analysis Time..: 00:00	MS Run #.....: 9357149	
			MDL.....: 0.79			
romide	210	2.0	mg/L	MCAWW 300.0A	12/23/09	9357368
			Dilution Factor: 10	Analysis Time..: 00:00	MS Run #.....:	
			MDL.....: 0.14			
Chemical Oxygen Demand (COD)	1520	100	mg/L	MCAWW 410.4	01/05/10	0005053
			Dilution Factor: 10	Analysis Time..: 14:10	MS Run #.....:	
			MDL.....: 52.0			
Chloride	15300	250	mg/L	MCAWW 300.0A	12/23/09	9357366
			Dilution Factor: 250	Analysis Time..: 00:00	MS Run #.....:	
			MDL.....: 13.2			
Hardness, as CaCO3	5600	250	mg/L	SM20 2340C	01/07/10	0007116
			Dilution Factor: 50	Analysis Time..: 08:25	MS Run #.....: 0007073	
			MDL.....: 76.9			
Nitrate as N	ND G	0.50	mg/L	MCAWW 300.0A	12/23/09	9357364
			Dilution Factor: 10	Analysis Time..: 21:11	MS Run #.....:	
			MDL.....: 0.077			
Nitrite as N	ND G	0.50	mg/L	MCAWW 300.0A	12/23/09	9357365
			Dilution Factor: 10	Analysis Time..: 21:11	MS Run #.....:	
			MDL.....: 0.032			

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## Cash in Advance / Prepaid Sales

Client Sample ID: WASHINGTON COUNTY FLOW BACK

## General Chemistry

Lot-Sample #...: C9L230421-001 Work Order #...: LRJLW Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Oil & Grease (HEM)	190	4.6	mg/L	CFR136A 1664A HEM	12/29/09	9363255
			Dilution Factor: 0.93	Analysis Time...: 16:30	MS Run #.....:	
			MDL.....: 1.5			
Specific Conductance	59800	1.0	umhos/cm	SM20 2510B	01/05/10	0005157
			Dilution Factor: 1	Analysis Time...: 15:04	MS Run #.....: 0005078	
			MDL.....:			
Sulfate	116 J	10.0	mg/L	MCAWW 300.0A	12/23/09	9357367
			Dilution Factor: 10	Analysis Time...: 00:00	MS Run #.....:	
			MDL.....: 0.31			
Total Alkalinity	157 J	5.0	mg/L	SM18 2320 B	12/28-12/29/09	9362359
			Dilution Factor: 1	Analysis Time...: 00:00	MS Run #.....: 9362187	
			MDL.....: 0.41			
Total Dissolved Solids	26100	200	mg/L	SM20 2540C	12/24-12/28/09	9358059
			Dilution Factor: 20	Analysis Time...: 10:26	MS Run #.....: 9358032	
			MDL.....: 200			
Total Recoverable Phenolics	0.054 J	0.010	mg/L	MCAWW 420.4	12/29-12/30/09	9363316
			Dilution Factor: 1	Analysis Time...: 11:25	MS Run #.....: 9363169	
			MDL.....: 0.0014			
Total Suspended Solids	276	20.0	mg/L	SM20 2540D	12/24/09	9358061
			Dilution Factor: 5	Analysis Time...: 14:15	MS Run #.....: 9358034	
			MDL.....: 10.0			

## NOTE(S) :

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

# Cash in Advance / Prepaid Sales

Client Sample ID: WESTMORELAND PRODUCTION BRINE

## General Chemistry

Lot-Sample #....: C9L230421-002      Work Order #....: LRJL0      Matrix.....: WATER  
Date Sampled....: 12/21/09      Date Received...: 12/23/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	5.7	--	--	SM20 4500-H+B	01/04/10	0004194
				Dilution Factor: 1 MDL.....: 0.0	Analysis Time...: 13:52	MS Run #.....: 0004120
Acidity	540	5.0	mg/L	SM20 2310B (4a)	12/31/09	9365043
				Dilution Factor: 1 MDL.....: 5.0	Analysis Time...: 09:48	MS Run #.....: 9365018
Ammonia Nitrogen	372	20.0	mg/L	MCAWW 350.1	12/26-12/28/09	9362110
				Dilution Factor: 200 MDL.....: 1.9	Analysis Time...: 13:44	MS Run #.....: 9362056
Biochemical Oxygen Demand (BOD)	40.3	2.0	mg/L	SM20 5210B	12/23-12/28/09	9357224
				Dilution Factor: 1 MDL.....: 0.79	Analysis Time...: 00:00	MS Run #.....: 9357149
romide	1590	10.0	mg/L	MCAWW 300.0A	12/23/09	9357368
				Dilution Factor: 50 MDL.....: 0.72	Analysis Time...: 00:00	MS Run #.....:
Chemical Oxygen Demand (COD)	12300	250	mg/L	MCAWW 410.4	01/05/10	0005053
				Dilution Factor: 25 MDL.....: 130	Analysis Time...: 14:10	MS Run #.....:
Chloride	157000	2500	mg/L	MCAWW 300.0A	12/23/09	9357366
				Dilution Factor: 2500 MDL.....: 132	Analysis Time...: 00:00	MS Run #.....:
Hardness, as CaCO3	66000	2500	mg/L	SM20 2340C	01/07/10	0007116
				Dilution Factor: 500 MDL.....: 769	Analysis Time...: 08:25	MS Run #.....: 0007073
Nitrate as N	ND G	2.5	mg/L	MCAWW 300.0A	12/23/09	9357364
				Dilution Factor: 50 MDL.....: 0.38	Analysis Time...: 21:53	MS Run #.....:
Nitrite as N	ND G	2.5	mg/L	MCAWW 300.0A	12/23/09	9357365
				Dilution Factor: 50 MDL.....: 0.16	Analysis Time...: 21:53	MS Run #.....:

(Continued on next page)

## Cash in Advance / Prepaid Sales

Client Sample ID: WESTMORELAND PRODUCTION BRINE

## General Chemistry

Lot-Sample #...: C9L230421-002 Work Order #...: LRJL0 Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Oil & Grease (HEM)	17.6	4.7	mg/L	CFR136A 1664A HEM	12/29/09	9363255
			Dilution Factor: 0.94	Analysis Time..: 16:30	MS Run #.....:	
			MDL.....: 1.5			
Specific Conductance	614000	500	umhos/cm	SM20 2510B	01/05/10	0005157
			Dilution Factor: 500	Analysis Time..: 00:00	MS Run #.....: 0005078	
			MDL.....:			
Sulfate	41.9 B,J	50.0	mg/L	MCAWW 300.0A	12/23/09	9357367
			Dilution Factor: 50	Analysis Time..: 00:00	MS Run #.....:	
			MDL.....: 1.6			
Total Alkalinity	52.3 J	5.0	mg/L	SM18 2320 B	12/28-12/29/09	9362359
			Dilution Factor: 1	Analysis Time..: 00:00	MS Run #.....: 9362187	
			MDL.....: 0.41			
otal Dissolved Solids	277000	200	mg/L	SM20 2540C	12/24-12/28/09	9358059
			Dilution Factor: 20	Analysis Time..: 10:26	MS Run #.....: 9358032	
			MDL.....: 200			
Total Recoverable Phenolics	0.38 J	0.010	mg/L	MCAWW 420.4	12/29-12/30/09	9363316
			Dilution Factor: 1	Analysis Time..: 11:25	MS Run #.....: 9363169	
			MDL.....: 0.0014			
Total Suspended Solids	74.8	4.0	mg/L	SM20 2540D	12/24/09	9358061
			Dilution Factor: 1	Analysis Time..: 14:15	MS Run #.....: 9358034	
			MDL.....: 2.0			

## NOTE(S) :

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Cash in Advance / Prepaid Sales

Client Sample ID: FAYETTE COUNTY BRINE

General Chemistry

Lot-Sample #....: C9L230421-003      Work Order #....: LRJL1      Matrix.....: WATER  
Date Sampled....: 12/22/09      Date Received...: 12/23/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	6.6	--	--	SM20 4500-H+B	01/04/10	0004194
				Dilution Factor: 1	Analysis Time..: 13:55	MS Run #.....: 0004120
				MDL.....: 0.0		
Acidity	ND	5.0	mg/L	SM20 2310B (4a)	12/31/09	9365043
				Dilution Factor: 1	Analysis Time..: 09:48	MS Run #.....: 9365018
				MDL.....: 5.0		
Ammonia Nitrogen	84.7	2.5	mg/L	MCAWW 350.1	12/26-12/28/09	9362110
				Dilution Factor: 25	Analysis Time..: 13:46	MS Run #.....: 9362056
				MDL.....: 0.24		
Biochemical Oxygen Demand (BOD)	283	2.0	mg/L	SM20 5210B	12/23-12/28/09	9357224
				Dilution Factor: 1	Analysis Time..: 00:00	MS Run #.....: 9357149
				MDL.....: 0.79		
Bromide	359	2.0	mg/L	MCAWW 300.0A	12/23/09	9357368
				Dilution Factor: 10	Analysis Time..: 00:00	MS Run #.....:
				MDL.....: 0.14		
Chemical Oxygen Demand (COD)	2600	100	mg/L	MCAWW 410.4	01/05/10	0005053
				Dilution Factor: 10	Analysis Time..: 14:10	MS Run #.....:
				MDL.....: 52.0		
Chloride	31300	500	mg/L	MCAWW 300.0A	12/23/09	9357366
				Dilution Factor: 500	Analysis Time..: 00:00	MS Run #.....:
				MDL.....: 26.4		
Hardness, as CaCO3	10600	250	mg/L	SM20 2340C	01/07/10	0007116
				Dilution Factor: 50	Analysis Time..: 08:25	MS Run #.....: 0007073
				MDL.....: 76.9		
Nitrate as N	ND G	0.50	mg/L	MCAWW 300.0A	12/23/09	9357364
				Dilution Factor: 10	Analysis Time..: 22:56	MS Run #.....:
				MDL.....: 0.077		
Nitrite as N	ND G	0.50	mg/L	MCAWW 300.0A	12/23/09	9357365
				Dilution Factor: 10	Analysis Time..: 22:56	MS Run #.....:
				MDL.....: 0.032		

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## Cash in Advance / Prepaid Sales

Client Sample ID: FAYETTE COUNTY BRINE

## General Chemistry

Lot-Sample #....: C9L230421-003 Work Order #....: LRJL1 Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Oil & Grease (HEM)	7.9	4.6	mg/L	CFR136A 1664A HEM	12/29/09	9363255
				Dilution Factor: 0.93	Analysis Time..: 16:30	MS Run #.....:
				MDL.....: 1.5		
Specific Conductance	125000	100	umhos/cm	SM20 2510B	01/05/10	0005157
				Dilution Factor: 100	Analysis Time..: 15:11	MS Run #.....: 0005078
				MDL.....:		
Sulfate	105 J	10.0	mg/L	MCAWW 300.0A	12/23/09	9357367
				Dilution Factor: 10	Analysis Time..: 00:00	MS Run #.....:
				MDL.....: 0.31		
Total Alkalinity	115 J	5.0	mg/L	SM18 2320 B	12/28-12/29/09	9362359
				Dilution Factor: 1	Analysis Time..: 00:00	MS Run #.....: 9362187
				MDL.....: 0.41		
Total Dissolved Solids	54800	200	mg/L	SM20 2540C	12/24-12/28/09	9358059
				Dilution Factor: 20	Analysis Time..: 10:26	MS Run #.....: 9358032
				MDL.....: 200		
Total Recoverable Phenolics	0.013 J	0.010	mg/L	MCAWW 420.4	12/29-12/30/09	9363316
				Dilution Factor: 1	Analysis Time..: 11:25	MS Run #.....: 9363169
				MDL.....: 0.0014		
Total Suspended Solids	9.6	4.0	mg/L	SM20 2540D	12/24/09	9358061
				Dilution Factor: 1	Analysis Time..: 14:15	MS Run #.....: 9358034
				MDL.....: 2.0		

## NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.



## Cash in Advance / Prepaid Sales

Client Sample ID: WESTMORELAND FLOW BACK

## General Chemistry

Lot-Sample #...: C9L230421-004

Work Order #...: LRJL2

Matrix.....: WATER

Date Sampled...: 12/21/09

Date Received...: 12/23/09

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	6.5	--	--	SM20 4500-H+B	01/04/10	0004194
		Dilution Factor: 1		Analysis Time...: 13:58	MS Run #.....: 0004120	
		MDL.....: 0.0				
Acidity	108	5.0	mg/L	SM20 2310B (4a)	12/31/09	9365043
		Dilution Factor: 1		Analysis Time...: 09:48	MS Run #.....: 9365018	
		MDL.....: 5.0				
Ammonia Nitrogen	52.4	1.0	mg/L	MCAWW 350.1	12/26-12/28/09	9362110
		Dilution Factor: 10		Analysis Time...: 13:47	MS Run #.....: 9362056	
		MDL.....: 0.094				
Biochemical Oxygen Demand (BOD)	821	2.0	mg/L	SM20 5210B	12/23-12/28/09	9357224
		Dilution Factor: 1		Analysis Time...: 00:00	MS Run #.....: 9357149	
		MDL.....: 0.79				
Bromide	261	2.0	mg/L	MCAWW 300.0A	12/23/09	9357368
		Dilution Factor: 10		Analysis Time...: 00:00	MS Run #.....:	
		MDL.....: 0.14				
Chemical Oxygen Demand (COD)	2740	100	mg/L	MCAWW 410.4	01/05/10	0005053
		Dilution Factor: 10		Analysis Time...: 14:10	MS Run #.....:	
		MDL.....: 52.0				
Chloride	27700	500	mg/L	MCAWW 300.0A	12/23-12/24/09	9357366
		Dilution Factor: 500		Analysis Time...: 00:00	MS Run #.....:	
		MDL.....: 26.4				
Hardness, as CaCO3	8900	250	mg/L	SM20 2340C	01/07/10	0007116
		Dilution Factor: 50		Analysis Time...: 08:25	MS Run #.....: 0007073	
		MDL.....: 76.9				
Nitrate as N	ND G	0.50	mg/L	MCAWW 300.0A	12/23/09	9357364
		Dilution Factor: 10		Analysis Time...: 23:39	MS Run #.....:	
		MDL.....: 0.077				
Nitrite as N	ND G	0.50	mg/L	MCAWW 300.0A	12/23/09	9357365
		Dilution Factor: 10		Analysis Time...: 23:39	MS Run #.....:	
		MDL.....: 0.032				

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## Cash in Advance / Prepaid Sales

Client Sample ID: WESTMORELAND FLOW BACK

## General Chemistry

Lot-Sample #....: C9L230421-004

Work Order #....: LRJL2

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Oil & Grease (HEM)	5.8	4.8	mg/L	CFR136A 1664A HEM	12/29/09	9363255
		Dilution Factor: 0.97		Analysis Time..: 16:30	MS Run #.....:	
		MDL.....: 1.6				
Specific Conductance	116000	100	umhos/cm	SM20 2510B	01/05/10	0005157
		Dilution Factor: 100		Analysis Time..: 15:13	MS Run #.....: 0005078	
		MDL.....:				
Sulfate	69.3 J	10.0	mg/L	MCAWW 300.0A	12/23/09	9357367
		Dilution Factor: 10		Analysis Time..: 00:00	MS Run #.....:	
		MDL.....: 0.31				
Total Alkalinity	174 J	5.0	mg/L	SM18 2320 B	12/28-12/29/09	9362359
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 9362187	
		MDL.....: 0.41				
Total Dissolved Solids	41700	200	mg/L	SM20 2540C	12/24-12/28/09	9358059
		Dilution Factor: 20		Analysis Time..: 10:26	MS Run #.....: 9358032	
		MDL.....: 200				
Total Recoverable Phenolics	0.012 J	0.010	mg/L	MCAWW 420.4	12/29-12/30/09	9363316
		Dilution Factor: 1		Analysis Time..: 11:25	MS Run #.....: 9363169	
		MDL.....: 0.0014				
Total Suspended Solids	30.8	4.0	mg/L	SM20 2540D	12/24/09	9358061
		Dilution Factor: 1		Analysis Time..: 14:15	MS Run #.....: 9358034	
		MDL.....: 2.0				

## NOTE(S):

RL Reporting Limit

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Cash in Advance / Prepaid Sales

Client Sample ID: GREENE COUNTY PRODUCTION BRINE

General Chemistry

Lot-Sample #....: C9L230421-008  
Date Sampled....: 12/22/09

Work Order #....: LRJPP  
Date Received...: 12/23/09

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	5.6	--	--	SM20 4500-H+B	01/04/10	0004194
			Dilution Factor: 1	Analysis Time..: 14:00	MS Run #.....: 0004120	
			MDL.....: 0.0			
Acidity	ND	5.0	mg/L	SM20 2310B (4a)	12/31/09	9365043
			Dilution Factor: 1	Analysis Time..: 09:48	MS Run #.....: 9365018	
			MDL.....: 5.0			
Ammonia Nitrogen	72.3	5.0	mg/L	MCAWW 350.1	12/26-12/28/09	9362110
			Dilution Factor: 50	Analysis Time..: 14:02	MS Run #.....: 9362056	
			MDL.....: 0.47			
Biochemical Oxygen Demand (BOD)	4.9	2.0	mg/L	SM20 5210B	12/23-12/28/09	9357224
			Dilution Factor: 1	Analysis Time..: 00:00	MS Run #.....: 9357149	
			MDL.....: 0.79			
Bromide	1920	10.0	mg/L	MCAWW 300.0A	12/23-12/24/09	9357368
			Dilution Factor: 50	Analysis Time..: 00:00	MS Run #.....:	
			MDL.....: 0.72			
Chemical Oxygen Demand (COD)	3060	100	mg/L	MCAWW 410.4	01/05/10	0005053
			Dilution Factor: 10	Analysis Time..: 14:10	MS Run #.....:	
			MDL.....: 52.0			
Chloride	192000	2500	mg/L	MCAWW 300.0A	12/23-12/24/09	9357366
			Dilution Factor: 2500	Analysis Time..: 00:00	MS Run #.....:	
			MDL.....: 132			
Hardness, as CaCO3	7700	250	mg/L	SM20 2340C	01/07/10	0007116
			Dilution Factor: 50	Analysis Time..: 08:25	MS Run #.....: 0007073	
			MDL.....: 76.9			
Nitrate as N	0.74 B	2.5	mg/L	MCAWW 300.0A	12/23-12/24/09	9357364
			Dilution Factor: 50	Analysis Time..: 02:48	MS Run #.....:	
			MDL.....: 0.38			
Nitrite as N	ND G	2.5	mg/L	MCAWW 300.0A	12/23-12/24/09	9357365
			Dilution Factor: 50	Analysis Time..: 02:48	MS Run #.....:	
			MDL.....: 0.16			

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## Cash in Advance / Prepaid Sales

Client Sample ID: GREENE COUNTY PRODUCTION BRINE

## General Chemistry

Lot-Sample #...: C9L230421-008

Work Order #...: LRJPP

Matrix.....: WATER

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Oil & Grease (HEM)	9.4	4.7	mg/L	CFR136A 1664A HEM	12/29/09	9363255
			Dilution Factor: 0.94	Analysis Time...: 16:30	MS Run #.....:	
			MDL.....: 1.5			
Specific Conductance	779000	500	umhos/cm	SM20 2510B	01/05/10	0005157
			Dilution Factor: 500	Analysis Time...: 15:15	MS Run #.....: 0005078	
			MDL.....:			
Sulfate	41.8 B,J	50.0	mg/L	MCAWW 300.0A	12/23-12/24/09	9357367
			Dilution Factor: 50	Analysis Time...: 00:00	MS Run #.....:	
			MDL.....: 1.6			
Total Alkalinity	190 J	5.0	mg/L	SM18 2320 B	12/28-12/29/09	9362359
			Dilution Factor: 1	Analysis Time...: 00:00	MS Run #.....: 9362187	
			MDL.....: 0.41			
Total Dissolved Solids	313000	200	mg/L	SM20 2540C	12/24-12/28/09	9358059
			Dilution Factor: 20	Analysis Time...: 10:26	MS Run #.....: 9358032	
			MDL.....: 200			
Total Recoverable Phenolics	0.014 J	0.010	mg/L	MCAWW 420.4	12/29-12/30/09	9363316
			Dilution Factor: 1	Analysis Time...: 11:25	MS Run #.....: 9363169	
			MDL.....: 0.0014			
Total Suspended Solids	53.6	4.0	mg/L	SM20 2540D	12/24/09	9358061
			Dilution Factor: 1	Analysis Time...: 14:15	MS Run #.....: 9358034	
			MDL.....: 2.0			

## NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

# METHOD BLANK REPORT

## General Chemistry

Client Lot #...: C9L230421

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Acidity	ND	Work Order #: LRQ6H1AA 5.0	mg/L	MB Lot-Sample #: C9L310000-043 SM20 2310B (4a)	12/31/09	9365043
		Dilution Factor: 1				
		Analysis Time..: 09:48				
Ammonia Nitrogen	ND	Work Order #: LRMVE1AA 0.10	mg/L	MB Lot-Sample #: C9L280000-110 MCAWW 350.1	12/26-12/28/09	9362110
		Dilution Factor: 1				
		Analysis Time..: 12:51				
Biochemical Oxygen Demand (BOD)	ND	Work Order #: LRJPA1AA 2.0	mg/L	MB Lot-Sample #: C9L230000-224 SM20 5210B	12/23-12/28/09	9357224
		Dilution Factor: 1				
		Analysis Time..: 00:00				
Bromide	ND	Work Order #: LRKD81AA 0.20	mg/L	MB Lot-Sample #: C9L230000-368 MCAWW 300.0A	12/23/09	9357368
		Dilution Factor: 1				
		Analysis Time..: 00:00				
Chemical Oxygen Demand (COD)	ND	Work Order #: LRT231AA 10.0	mg/L	MB Lot-Sample #: C0A050000-053 MCAWW 410.4	01/05/10	0005053
		Dilution Factor: 1				
		Analysis Time..: 14:10				
Chloride	ND	Work Order #: LRKD61AA 1.0	mg/L	MB Lot-Sample #: C9L230000-366 MCAWW 300.0A	12/23/09	9357366
		Dilution Factor: 1				
		Analysis Time..: 00:00				
Hardness, as CaCO3	ND	Work Order #: LRXE41AA 5.0	mg/L	MB Lot-Sample #: C0A070000-116 SM20 2340C	01/07/10	0007116
		Dilution Factor: 1				
		Analysis Time..: 00:00				
Nitrate as N	ND	Work Order #: LRKD31AA 0.050	mg/L	MB Lot-Sample #: C9L230000-364 MCAWW 300.0A	12/23/09	9357364
		Dilution Factor: 1				
		Analysis Time..: 20:50				

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# METHOD BLANK REPORT

## General Chemistry

Client Lot #...: C9L230421

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrite as N	ND	Work Order #: LRKD51AA 0.050 Dilution Factor: 1 Analysis Time...: 20:50	mg/L	MB Lot-Sample #: C9L230000-365 MCAWW 300.0A	12/23/09	9357365
Oil & Grease (HEM)	ND	Work Order #: LRN591AA 5.0 Dilution Factor: 1 Analysis Time...: 16:30	mg/L	MB Lot-Sample #: C9L290000-255 CFR136A 1664A HEM	12/29/09	9363255
Specific Conductance	ND	Work Order #: LRVGC1AA 1.0 Dilution Factor: 1 Analysis Time...: 15:02	umhos/cm	MB Lot-Sample #: C0A050000-157 SM20 2510B	01/05/10	0005157
Sulfate	0.059 B	Work Order #: LRKD71AA 1.0 Dilution Factor: 1 Analysis Time...: 00:00	mg/L	MB Lot-Sample #: C9L230000-367 MCAWW 300.0A	12/23/09	9357367
Total Alkalinity	1.4 B	Work Order #: LRNCT1AA 5.0 Dilution Factor: 1 Analysis Time...: 00:00	mg/L	MB Lot-Sample #: C9L280000-359 SM18 2320 B	12/28-12/29/09	9362359
Total Dissolved Solids	ND	Work Order #: LRLDQ1AA 10.0 Dilution Factor: 1 Analysis Time...: 10:26	mg/L	MB Lot-Sample #: C9L240000-059 SM20 2540C	12/24-12/28/09	9358059
Total Recoverable Phenolics	0.0053 B	Work Order #: LRPCA1AA 0.010 Dilution Factor: 1 Analysis Time...: 12:52	mg/L	MB Lot-Sample #: C9L290000-316 MCAWW 420.4	12/29-12/30/09	9363316
Total Suspended Solids	ND	Work Order #: LRLDT1AA 4.0 Dilution Factor: 1 Analysis Time...: 14:15	mg/L	MB Lot-Sample #: C9L240000-061 SM20 2540D	12/24/09	9358061

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Estimated result. Result is less than RL.

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Lot-Sample #...: C9L230421

Matrix.....: WATER

	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #	
PARAMETER	RECOVERY	LIMITS	RPD	RPD	LIMITS	METHOD	ANALYSIS DATE	BATCH #
Biochemical Oxygen Demand (BOD)		WO#:LRJPA1AC-LCS/LRJPA1AD-LCSD LCS Lot-Sample#: C9L230000-224						
	99	(85 - 115)				SM20 5210B	12/23-12/28/09	9357224
	101	(85 - 115)	1.8	(0-20)		SM20 5210B	12/23-12/28/09	9357224
		Dilution Factor: 1		Analysis Time...: 00:00				
Bromide		WO#:LRKD81AC-LCS/LRKD81AD-LCSD LCS Lot-Sample#: C9L230000-368						
	95	(90 - 110)				MCAWW 300.0A	12/23/09	9357368
	94	(90 - 110)	0.40	(0-20)		MCAWW 300.0A	12/23-12/24/09	9357368
		Dilution Factor: 1		Analysis Time...: 00:00				
Chemical Oxygen Demand (COD)		WO#:LRT231AC-LCS/LRT231AD-LCSD LCS Lot-Sample#: C0A050000-053						
	102	(85 - 115)				MCAWW 410.4	01/05/10	0005053
	102	(85 - 115)	0.05	(0-20)		MCAWW 410.4	01/05/10	0005053
		Dilution Factor: 1		Analysis Time...: 14:10				
Chloride		WO#:LRKD61AC-LCS/LRKD61AD-LCSD LCS Lot-Sample#: C9L230000-366						
	100	(90 - 110)				MCAWW 300.0A	12/23/09	9357366
	100	(90 - 110)	0.11	(0-20)		MCAWW 300.0A	12/23-12/24/09	9357366
		Dilution Factor: 1		Analysis Time...: 00:00				
Nitrate as N		WO#:LRKD31AC-LCS/LRKD31AD-LCSD LCS Lot-Sample#: C9L230000-364						
	98	(90 - 110)				MCAWW 300.0A	12/23/09	9357364
	98	(90 - 110)	0.32	(0-20)		MCAWW 300.0A	12/23-12/24/09	9357364
		Dilution Factor: 1		Analysis Time...: 20:29				
Nitrite as N		WO#:LRKD51AC-LCS/LRKD51AD-LCSD LCS Lot-Sample#: C9L230000-365						
	107	(90 - 110)				MCAWW 300.0A	12/23/09	9357365
	107	(90 - 110)	0.11	(0-20)		MCAWW 300.0A	12/23-12/24/09	9357365
		Dilution Factor: 1		Analysis Time...: 20:29				
Oil & Grease (HEM)		WO#:LRN591AC-LCS/LRN591AD-LCSD LCS Lot-Sample#: C9L290000-255						
	83	(78 - 114)				CFR136A 1664A HEM	12/29/09	9363255
	85	(78 - 114)	1.8	(0-18)		CFR136A 1664A HEM	12/29/09	9363255
		Dilution Factor: 1		Analysis Time...: 16:30				

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# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Lot-Sample #...: C9L230421

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Sulfate	100	(90 - 110)		MCAWW 300.0A	12/23/09	9357367
	100	(90 - 110)	0.13 (0-20)	MCAWW 300.0A	12/23-12/24/09	9357367
Dilution Factor: 1			Analysis Time.: 00:00			

WO#:LRKD71AC-LCS/LRKD71AD-LCSD LCS Lot-Sample#: C9L230000-367

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Client Lot #...: C9L230421

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
pH	100	Work Order #: LRTM71AA (99 - 101)	LCS Lot-Sample#: C0A040000-194 SM20 4500-H+B	01/04/10	0004194
		Dilution Factor: 1	Analysis Time...: 13:45		
Acidity	102	Work Order #: LRQ6H1AC (80 - 120)	LCS Lot-Sample#: C9L310000-043 SM20 2310B (4a)	12/31/09	9365043
		Dilution Factor: 1	Analysis Time...: 09:48		
Ammonia Nitrogen	105	Work Order #: LRMVE1AC (90 - 110)	LCS Lot-Sample#: C9L280000-110 MCAWW 350.1	12/26-12/28/09	9362110
		Dilution Factor: 1	Analysis Time...: 12:49		
Hardness, as CaCO3	100	Work Order #: LRXE41AC (90 - 110)	LCS Lot-Sample#: C0A070000-116 SM20 2340C	01/07/10	0007116
		Dilution Factor: 1	Analysis Time...: 00:00		
Specific Conductance	91	Work Order #: LRVGC1AC (80 - 120)	LCS Lot-Sample#: C0A050000-157 SM20 2510B	01/05/10	0005157
		Dilution Factor: 1	Analysis Time...: 15:00		
Total Alkalinity	98	Work Order #: LRNCT1AC (80 - 120)	LCS Lot-Sample#: C9L280000-359 SM18 2320 B	12/28/09	9362359
		Dilution Factor: 1	Analysis Time...: 00:00		
Total Dissolved Solids	104	Work Order #: LRLDQ1AC (80 - 120)	LCS Lot-Sample#: C9L240000-059 SM20 2540C	12/24-12/28/09	9358059
		Dilution Factor: 1	Analysis Time...: 10:26		
Total Recoverable Phenolics	92	Work Order #: LRPCA1AC (75 - 125)	LCS Lot-Sample#: C9L290000-316 MCAWW 420.4	12/29-12/30/09	9363316
		Dilution Factor: 1	Analysis Time...: 11:25		
Total Suspended Solids	99	Work Order #: LRLDT1AC (80 - 120)	LCS Lot-Sample#: C9L240000-061 SM20 2540D	12/24/09	9358061
		Dilution Factor: 1	Analysis Time...: 14:15		

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.