

Form



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

CK# 21443779
\$ 500.00

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF MINING PROGRAMS

OFFICIAL USE ONLY

ID # PA0594121

Date Received 1-19-18

#7974SMIC9

**APPLICATION FOR INDIVIDUAL NPDES PERMIT
ASSOCIATED WITH MINING ACTIVITIES**

Please answer all questions completely. Refer to the instructions that come with this form.

SECTION A. GENERAL APPLICANT INFORMATION

1. Application Type ☐ New (\$1000) ☒ Renewal (\$500) ☐ Modification (\$500) ☐ Transfer (\$500)				
2. Applicant: Hanson Aggregates Pennsylvania LLC		3. Associated Mining Permit No.: 7974SM1 NPDES Permit No.: PA0594121		
4. Operation Name: Rock Hill Quarry		5. License No.: 24143		6. Applicant Email: andrew.gutshall@lehighhanson.com
7. Permit/Project Type: (check applicable)				
☐ Coal ☒ Noncoal ☒ Mining permit (surface or underground) ☐ Exploration ☐ GP-105 (Bluestone) ☐ Other _____				
8. Public notice. (See instructions to determine if public notice is required.) Public notice has been submitted for publication. A draft notice is attached. ☒ Yes ☐ No				
9. Production qualifications (Small business exemption)				
COAL: Will coal production be at least 100,000 tons per year? ☐ Yes ☐ No				
NONCOAL: Will production be at least \$100,000 (1980 dollars) per year? ☒ Yes ☐ No				
10. Total Affected Area (Acres): 103.2 Include all associated haul roads. Note: This acreage may be greater than the acres for the associated mining permit.				
11. Estimated Timeframe: Start (or permit issuance) 07/19/2018 End (or permit expiration) 07/19/2023				
12. Permit Location or Physical Address: 2055 N Rockhill Road, Sellersville, PA				
County	Municipality	City	Boro	Twp
Bucks	East Rockhill	☐	☐	☒
		☐	☐	☐
		☐	☐	☐
13. Map View of Area				
☒ Attach a map with outline of the affected area associated with the mining activity and label all outfalls.				
☐ Map is included as part of mining permit documents marked as Exhibit No. _____				
14. Receiving Stream/Watershed Name: Unnamed Tributary to Tohickon Creek / Upper Tohickon Creek Watershed				
Is this stream subject to a TMDL? ☐ Yes ☒ No				
15. Chapter 93 Receiving Water Designated Use: TSF, MF			NOTE: If designated use is 'HQ' or 'EV', complete anti-degradation supplement form 5600-PM-BMP0007.	
16. Existing Stream Use (if different from designated use):				
17. During mining, drainage will result in:				
☒ Point source discharge(s) (complete Section C: Outfall Information)				
☒ Surface Stream				
☐ Municipal or Private Storm Sewer -- Provide name of Storm Sewer Operator :				
☐ Non-discharge				
☐ Groundwater -- infiltration				
☐ Containment without discharge (reuse)				
☐ Other (Including off-site discharges) -- Describe and attach documentation to support a legal right to discharge.				

SECTION B. EROSION AND SEDIMENTATION (E & S) PLAN

18. E & S Plan

An E & S plan must be included as part of the associated mining permit information or attached to this application. The plan must provide a brief narrative describing the use of proposed BMPs and their performance to manage E & S for the project. If E & S BMPs to be implemented do not follow the guidelines referenced in the PA Erosion and Sediment Pollution Control Program Manual (TGD # 363-2134-008) or the Engineering Manual for Mining Operations (TGD # 563-0300-101), provide documentation to demonstrate performance equivalent to, or better than, the BMPs in the Manuals.

Check one:

- ☒ E & S plan meeting the above criteria is contained within the information associated with the permit/project type listed in item #2 of this application.
- ☐ E & S information including a complete description of the implementation of BMPs is included with this NPDES application.

19. Best Management Practices (BMPs) Summary.

Check here if all BMPs are described as part of appropriate Modules of the mining permit (coal or noncoal) described in Item No. 2. ☒

Complete the following if specific E & S Modules have not been submitted with an associated mining permit.

Check all that will be used at this mining site.

BMP		BMP	
☐	Sediment basins/traps with discharge outlet	☐	Bio-infiltration areas
☐	Constructed wetlands	☐	Vegetated swales / Stabilized channels
☐	Retention/containment basins	☐	Constructed filters/ filter bags
☐	Detention basin/pit sump	☐	Stabilized site entrances
☐	Non-discharging sedimentation traps	☐	Wheel washes
☐	Sediment fore bay	☐	Limiting disturbed area with concurrent reclamation
☐	Infiltration measures	☐	Oil/grit separators
☐	Protect Sensitive & Special Value Features	☐	Street sweeping
☐	Protect/Conserve/ Enhance Riparian areas	☐	Runoff capture/Reuse
☐	Restoration: Buffers/ Landscape/ Floodplain	☐	Temporary sediment controls (silt fence/silt-sok)
☐	Top of slope berms	☐	Top of slope diversions
☐	Rock inlets for basins	☐	Other _____
☐	Erosion control blankets/textiles	☐	Other _____

20. Reclamation and BMPs

Check here if any of the above checked BMPs will be left after final bond release. ☐

If checked, supply details, signed documentation of permission by the landowner and justification in the reclamation plan with the mining permit application. If this information is contained in the mining permit documents, please explain:

SECTION C. OUTFALL INFORMATION

This Section is to be completed when discrete outfalls are proposed. Attach additional pages for more than 4 points.

21. Identify each point in the tables below. Each discharge point must be shown and labeled as such on a map submitted with this application or as part of the mining permit/authorization. The labeling of discharge points must correspond with the labels used on the exhibit maps submitted in support of the mining permit/authorization. Non-discharging sedimentation traps and groundwater infiltration points are not outfalls and should not be included as outfalls, but should be listed at the end of this section.

Describe the location and source of each point.			
Discharge Point (e.g., SP 01, SP 02 etc.)	Latitude	Longitude	Source of Discharge (e.g., sedimentation pond, groundwater sump, etc.)
001	40° 24' 22.3"	75° 18' 19.9"	Unnamed Tributary to Tohickon Creek
	° ' "	° ' "	Sedimentation pond(s) & pit sump
	° ' "	° ' "	
	° ' "	° ' "	

For the same points as above, describe the flow and treatment for each point.

Flow			
Discharge Point (e.g., SP 01, SP 02 etc.)	Average rate (mgd)	Design rate (mgd)	Treatment
001	0.238	0.238	Sedimentation (1-U) and Discharge to Surface Water (4-A)

Design rate is the discharge flow at the Q 7-10 stream flow for post-mining discharges, the maximum hydraulic capacity for other treatment facilities or the routed storm flow for sedimentation ponds.

Latitude/Longitude Collection Method: ☐ EMAP ☐ GPS ☐ Printed Map ☒ Other Google Earth

Check the horizontal reference datum (or projection datum) employed in the collection method.
☐ NAD27 (topo maps) ☐ NAD83 (Emap) ☒ WGS84 (GEO84) (most GPS units)

For non-discharging sedimentation traps and groundwater infiltration points, provide the description and location:

Discharge Point:	Latitude:	Longitude:	Source of Discharge (e.g., sedimentation pond, groundwater sump, etc.):

22. Evaluation of Thermal Impacts. Describe how thermal impacts were evaluated and, if necessary, how they will be mitigated, in accordance with 25 Pa. Code Chapter 93. Thermal impacts to the Unnamed Tributary to Tohickon Creek are not anticipated. The water discharged at point 001 is runoff from precipitation at the site along with any groundwater discharge that may occur from the mine pit.
23. Solid or liquid wastes not discharged. Will there be sludge or sediment produced from the treatment described above? ☒ Yes ☐ No Will there be liquid produced from the treatment described above (not discharged via the outfall)? ☐ Yes ☒ No Describe the material and its ultimate disposal: Pond fines will be used with site overburden for final reclamation.

SECTION D. EFFLUENT CHARACTERIZATION

Complete the following subsections for each discharge outfall listed in Item #21.

Discharge Point No(s): 001

24. Common parameters/pollutants. Complete the table for each constituent. Indicate 'E' if estimate, 'D' if based on actual data. If needed, attach a separate sheet labeled "Item #24 Common parameters/pollutants". Please include the units of measurement. If you are providing data from one discharge for two or more substantially identical effluents, indicate which outfalls the data represents.

Constituent	Daily Max	Daily Average	Source of Information
pH	9.0	N/A	The existing NPDES Permit states pH not less than 6.0 standard units nor greater than 9.0 standard units at all times.
Total Suspended Solids (TSS)	70.0	35.0	Existing NPDES Permit Limits
Chemical Oxygen Demand (COD) ¹			Waiver Requested
Biochemical Oxygen Demand (BOD) ¹			Waiver Requested
Ammonia (NH ₃) ¹			Waiver Requested
Total Organic Carbon (TOC) ¹			Waiver Requested
Flow		0.238 MGD	30-day AVG. Discharge Rate - Existing NPDES Permit
Temperature (high)			N/A
Temperature (low)			

¹ Waiver option [40 CFR 122.21(k)(5)(i)]: A waiver is requested for the following constituents that are not anticipated to be present in the discharge:

☒ COD ☒ BOD ☒ NH₃ ☒ TOC

Provide a justification for this waiver request.

See Attachment C

25. Dioxins. As the applicant, do you have reason to believe that at any time dioxins were made, used, stored or buried on or directly upgradient from the site designated for mining and/or support area? [TCDD, 2,4,5-TP, Erbon, TCH or HCP under 40 CFR 122.21(g)(7)(viii)]

☐ Yes ☒ No

If yes, provide information and data characterizing the potential discharge on a separate sheet labeled "Item #25 Dioxins"

26. Organic Toxic Pollutants (EPA Table II) Provide waiver justification or data regarding organic toxic pollutants for the mine site.

Waiver: This section is not applicable because this operation fulfills one of the following criteria:

☐ For coal, this operation produces less than 100,000 tons per year.

☒ For noncoal, this operation has gross sales of less than \$100,000 per year (1980 dollars).

If a waiver is not applicable, refer to Appendix B: Table II - Organic Toxic Pollutants. List any constituents from that table that are expected to be present in the discharge.

See Attachment C

For all constituents listed above, provide a table of the estimated daily maximum concentration, the estimated daily average concentration and the source of this information on a separate attachment labeled "Item #26 Organic Toxic Pollutants".

27. Other toxic pollutants. For new mining permits, for each of the following constituents, provide an estimate of the concentration that could reasonably be expected to be present in the discharge(s) [40 CFR 122.21 (k)(5)(iii)(A)] (EPA Table III).

For all Coal mining renewals, provide the actual data for concentrations. [40 CFR 122.21 (g)(7)(v)(B)]

For Noncoal renewals, provide data for those you expect to be present. Insert "X" for those not expected to be present [40 CFR 122.21 (g)(7)(vi)(B)]

Please include units of measurement for all concentrations reported.

See Attachment C

Constituent	Concentration		Constituent	Concentration
Antimony, Total	X		Nickel, Total	< 4.0 ug/L
Arsenic, Total	< 2.0 ug/L		Selenium, Total	< 10 ug/L
Beryllium, Total	X		Silver, Total	X
Cadmium, Total	< 2.0 ug/L		Thallium, Total	X
Chromium, Total	X		Zinc, Total	< 16 ug/L
Copper, Total	< 4.0 ug/L		Cyanide, Total	X
Lead, Total	< 1.2 ug/L		Phenols, Total	X
Mercury, Total	< 0.2 ug/L			

28. Conventional and Nonconventional Pollutants. For each of the following constituents, check the boxes for those that you expect to be present in the discharge. (EPA Table IV)

☐ Bromide	☐ Nitrogen, Total Organic	☐ Sulfite	☒ Iron, Total
☐ Chlorine, Total Residual	☐ Oil and Grease	☐ Surfactants	☐ Magnesium, Total
☒ Color	☐ Phosphorus, Total	☐ Aluminum, Total	☐ Molybdenum, Total
☐ Fecal Coliform	☐ Radioactivity	☒ Barium, Total	☒ Manganese, Total
☒ Fluoride	☒ Sulfate	☐ Boron, Total	☐ Tin, Total
☐ Nitrate-Nitrite	☐ Sulfide	☐ Cobalt, Total	☐ Titanium, Total

For new outfalls, for each constituent checked above (those that you expect to be present) provide the estimated daily maximum concentration, daily average concentration and the source of the information on an attachment. For existing outfalls, report quantitative data for those checked.

See Attachment C

29. Toxic Pollutants and Hazardous Substances (EPA Table V) Refer to Appendix B: Toxic Pollutants and Hazardous Substances. List any constituents from that table that are expected to be present in the discharge.

See Attachment C

For all constituents listed above, provide data for each pollutant expected in the discharge or justification of why any are believed to be not present and the source of this information on a separate attachment labeled "Item #29 Toxic and Hazardous Pollutants".

SECTION E. CERTIFICATIONS

The information on the NPDES form must be certified as correct by one of the following, as applicable.

- a) In the case of corporations, by principal executive officer of at least the level of vice president, or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the NPDES form originates.
- b) In the case of a partnership, by a general partner.
- c) In the case of a sole proprietorship, by the proprietor.
- d) In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official or other duly authorized employee.

30. Applicant Affidavit

I certify under penalty of law that this application and all related attachments were prepared by me or under my direction or supervision. Based on my own knowledge and on inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I verify that the activity is eligible to participate in the NPDES permit, and that the BMPs, E&S Plan, and other plans and controls described are being or will be, implemented to ensure that water quality standards and effluent limits are attained. Furthermore, I agree to accept all conditions and limitations imposed by the associated permit. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment or both for knowing violations pursuant to Section 309(c)(4) of the Clean Water Act and, 18 Pa. C.S. §§4903-4904.

Sworn and Subscribed to Before Me This

15th day of January 2018
(month) (year)

Kimberly A. Olesak
Signature of Notary Public

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Kimberly A. Olesak, Notary Public
Upper Merion Township, Lehigh County
My commission expires April 15, 2019

Mark E. Kendrick
Signature of Applicant or Responsible Official

Mark E. Kendrick
Name (Typed) of Applicant or Responsible Official

7660 Imperial Way
Address of Applicant
Allentown, PA 18195
Address of Applicant

Vice President
Applicant Title and Corporate Seal

31. Preparation of this report (to be completed by the person who prepared this application)

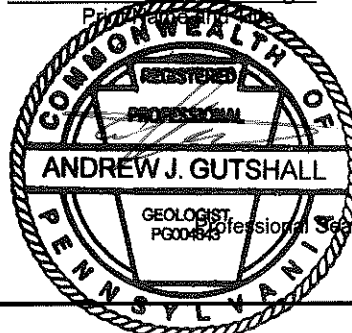
I do hereby certify to the best of my knowledge, information and belief that the submitted information is true and correct, represents actual field conditions and are in accordance with the appropriate Chapters of the Department's rules and regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

[Signature]
Signature
Lehigh Hanson, Inc.
Company
7660 Imperial Way
Address
Allentown, PA 18195 (610) 366-4819
City, State, Zip Phone

Email Address: andrew.gutshall@lehighhanson.com

Andrew J. Gutshall, P.G.
Area Environmental Manager

01/15/2018
Date Signed



NPDES No. PA0594121
Permit No. 7974SMIC9

SECTION F. PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLAN

This completed form constitutes the PPC plan. Along with an approved erosion and sedimentation control plan and reclamation plan as well as additional information supplied in the mining activity request, this PPC plan comprises the Stormwater Pollution Prevention Plan.

- ☐ Option: If the permittee has a separate, comprehensive PPC plan located on the site, check this box and sign below to confirm that this document is available upon request.

Signature: _____ Print Name: _____ Date: _____

F1. Facility Contact

This person is the designated contact for the mining facility:

Name: Stephen Balcerak Title: R.E. Pierson - Superintendent - Facility Response Coordinator (Primary)

Address: 2055 N Rockhill Rd, Sellersville, PA

Phone: (24-hr emergency) (215) 778-0240

Email: sbalcerak@repierson.com

F2. PPC Team

List PPC team members (names and title) who will undertake and oversee the control measures in this plan and make necessary corrective actions:

- | | |
|---|---|
| 1. <u>Charlie Elwell - R.E. Pierson</u> | 2. <u>Timothy J. Poppenberg - Operations Manager - Hanson</u> |
| <u>Facility Response Coordinator (Secondary)</u> | <u>Divisional Emergency Team Member</u> |
| 3. <u>Andrew J. Gutshall - Area Environmental Manager</u> | 4. <u>Mark E. Kendrick - Vice President - Hanson</u> |
| <u>Hanson - Emergency Information Coordinator</u> | <u>Divisional Emergency Team Member</u> |

Potential Pollutant Sources and Control

F3. Inventory

List all chemicals, petroleum products, solvents, paint, acids, water treatment products, fertilizer, antifreeze, ice melt/salt, etc. that are to be used and stored on site. If more space is needed, please submit table on a separate page labeled "F3:Inventory"

Chemical and trade name	Location	Quantity	Storage Management (letter key)*	Coal sites only AST Inventoried?
none at this time				☐
				☐
				☐
				☐
				☐
				☐
				☐

* Key to Storage Management: A. Closed, sturdy containers C. Secured Tarps E. Other
B. Open-sided covered D. Sheds/buildings/trailers

F4. History of site

- a. Within 3 years prior to this being a mine site, was this site used for any industrial activity? ☐ Yes ☒ No
If yes, what products (such as those listed above) were used, stored and/or disposed of at this site?
- b. Have leaks or spills occurred at this site in the past 3 years? ☐ Yes ☒ No
If yes, provide details of the event.
- c. An authorized individual must evaluate the site for nonauthorized discharges such as leaking pipelines, drains, hoses and any other non-stormwater discharges.
Date of evaluation: 01/08/2017 Person who did evaluation: Andrew J. Gutshall, P.G.

F5. Potential Pollution Locations

Identify locations that have potential for spills or leaks at this site:

- | | |
|---|--|
| ☒ Excavation area | ☐ Vehicle refueling, maintenance or washing area |
| ☐ Stockpile area | ☒ Equipment storage and maintenance area |
| ☐ Product storage area | ☐ Chemical preparation area |
| ☒ Haul roads | ☐ Treatment system setup |
| ☐ Other(s) (list): _____ | |

F6. Pollution Control

The operator or designated representative agrees to the following (check each):

- ☒ 1. Maintain regular pickup and disposal of waste materials
- ☒ 2. Undertake daily inspection of site for leaks and spills.
- ☒ 3. Ensure that chemical containers and supplies are properly and promptly stored after use.
- ☒ 4. Maintain equipment so that spills/leaks are avoided.
- ☒ 5. Undertake practices to keep control measures operational.
- ☒ 6. Take corrective actions to prevent and/or contain leaks and spills.
- ☒ 7. Ensure products are stored in appropriate containers that are clearly labeled.
- ☒ 8. Locate materials storage areas away from vehicle high-traffic areas.
- ☒ 9. Control garbage onsite to prevent dispersion by water or wind.

The above items are included as part of this PPC.

F7. Emergency Procedures and Training

The operator or designated representative confirms the following (check each):

- ☒ 1. The operator has in place a procedure for stopping, containing and cleaning up spills, leaks or other releases.
- ☒ 2. The operator agrees to train all on-site working personnel in the procedures listed in this PPC.
- ☒ 3. The operator has a procedure for notifying appropriate facility personnel, emergency response and regulatory agencies (including the District Mining Office) in the event of a spill, leak or release. *

* Attach this notification list to this document. List is attached. ☒

The above items are included as part of this PPC.

Inspections

F8. Inactivity

- a. Will this site be seasonally inactive? ☒ Yes ☐ No
- If yes, provide time period of inactivity: Inactivity period may vary with market demand for aggregate product.
- If yes, complete item b.
- b. Please confirm the following by checking the *appropriate* box(es):
- ☒ Sites will be secured and access limited to prevent dumping and vandalism during shutdown.
 - ☒ Chemicals will be removed from the site during shutdown.
 - ☒ Chemicals will be secured in locked structures during shutdown.

F9. Self-inspection and plan updates

The operator agrees to the following (check the box):

- ☒ 1. Undertake yearly, documented, self-inspections to ensure the PPC is up to date and all BMPs are working.
- ☒ 2. Retain the written self-inspection report for at least one year.
- ☒ 3. Update this PPC as necessary and upon renewal of the NPDES permit.

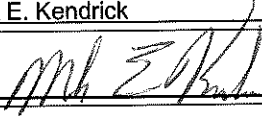
The above items are included as part of this PPC.

Affidavit

I certify under penalty of law that this PPC document and any attachments related to it were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Mark E. Kendrick

Title: Vice President

Signature: 

Date: 01/15/2018

Public Notice – NPDES Renewal

Pursuant to the "Noncoal Surface Mining Conservation and Reclamation Act" and the "Clean Streams Law," notice is hereby given that Hanson Aggregates Pennsylvania LLC, 7660 Imperial Way, Allentown, PA 18195, has made application to the Pennsylvania Department of Environmental Protection (DEP) for renewal of its existing National Pollution Discharge Elimination System (NPDES) Permit No. PA0594121. The receiving stream is an unnamed tributary to Tohickon Creek, which is designated as Trout Stocking, Migratory Fishes (TSF, MF) under Title 25, Chapter 93.9e.

The mine site is located in East Rockhill Township, Bucks County and is known as the Rock Hill Quarry (SMP No. 7974SM1). The affected area consists of 103.2 acres situated east of N Rockhill Road between Muskrat Road and Three Mile Run Road. The site is located on the Quakertown, PA U.S. Geological Survey 7.5-minute topographic map, approximately 5.7 inches north and 7.8 inches west from the bottom right-hand corner of the map.

A copy of the application is available for public inspection at the East Rockhill Township Building, 1622 N Ridge Road, Perkasie, PA 18944 and the Pottsville District Mining Office, 5 West Laurel Boulevard, Pottstown, PA 17901. Written comments, objections, or a request for public hearing or informal conference may be directed to Pennsylvania Department of Environmental Protection, District Mining Manager, 5 West Laurel Boulevard, Pottsville, PA 17901, up to and including 30 days after the fourth publication of this notice, or no later than DATE (to be determined). The correspondence must include the person's name, address, telephone number, and a brief description as to the nature of the objection(s).

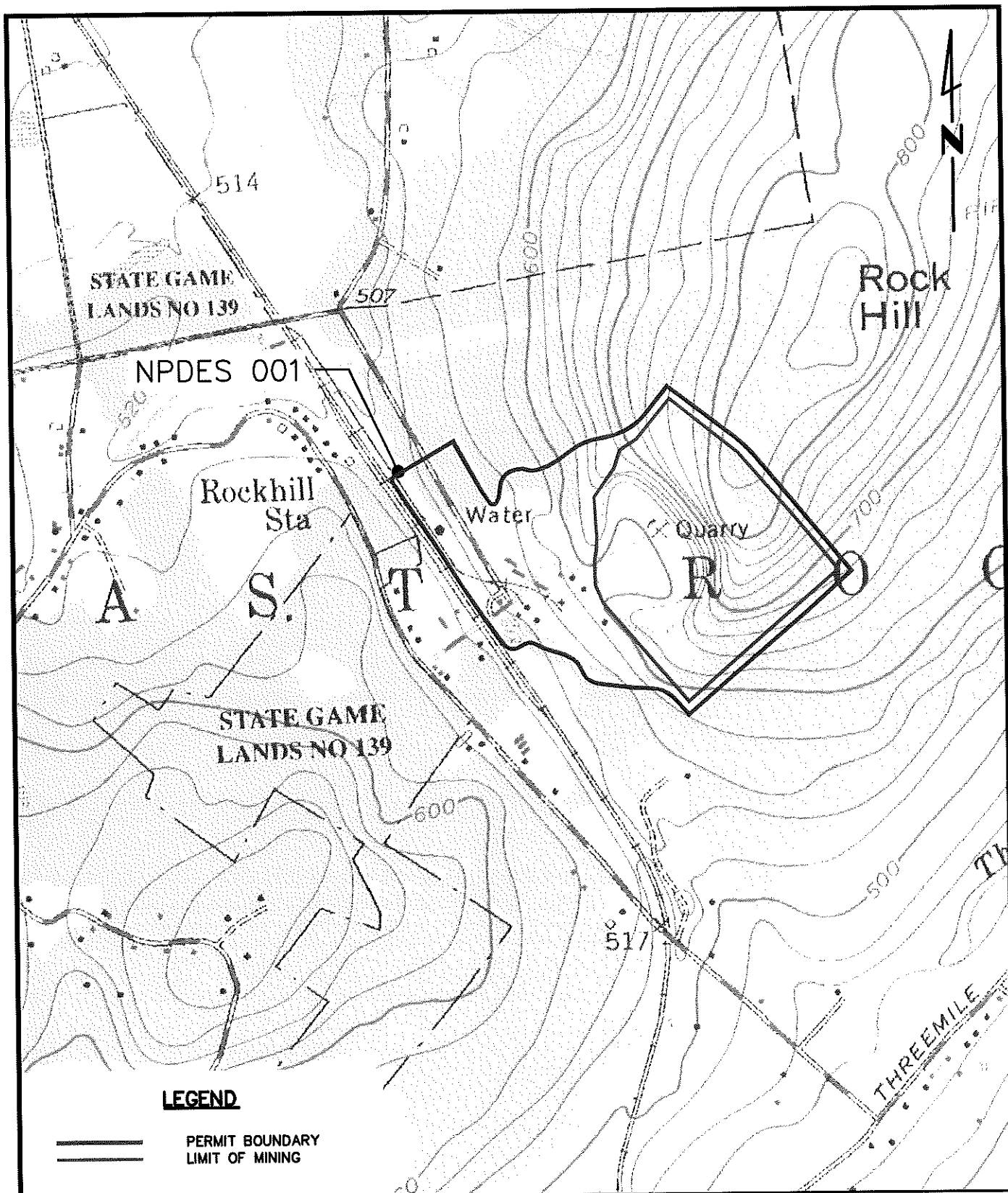
#####END OF NOTICE#####

Please publish the above notice once a week for four (4) consecutive weeks in The Intelligencer (Doylestown, PA). Dates: (to be determined)

Upon completion of the four (4) publications, please send invoice and the notarized Proof of Publication with tear sheet to my attention:

Andrew J. Gutshall
Lehigh Hanson, Inc.
7660 Imperial Way
Allentown, PA 18195

andrew.gutshall@lehighhanson.com
Phone: (610) 366-4819



LEGEND

 PERMIT BOUNDARY
 LIMIT OF MINING



DRAWN BY: AJG
 DATE: 02/15/2013
 SCALE: 1" = 1000'

 SCALE IN FEET

TITLE: **ATTACHMENT B**
 SITE TOPOGRAPHIC MAP
 LOCATION: ROCK HILL QUARRY
 SMP # 79745M1
 EAST ROCKHILL TOWNSHIP
 BUCKS COUNTY, PENNSYLVANIA
 SOURCE: USGS 7.5-MINUTE QUADRANGLE - QUAKERTOWN, PA

Attachment C

Effluent Characterization Summary for Rock Hill Quarry

The Rock Hill Quarry facility is an existing, active Large Noncoal Surface Mine with one (1) NPDES outfall. A water characterization water sample was collected from the outfall on December 12, 2017. The analytical laboratory report is included as Attachment C.1.

Analyses included in the effluent characterization were determined from the National Pollutant Discharge Elimination System (NPDES) Application For Individual Permit To Discharge Industrial Wastewater Instruction (3800-PM-BCW0008a – 11/2016). The effluent characterization sample was analyzed for the following parameters listed in Appendix D of 40 CFR 122:

Item #24 - Common Parameters/Pollutants

pH
Total Suspended Solids (TSS)

Item #26 - Organic Toxic Pollutants

N/A

Item #27 - Other Toxic Pollutants

Arsenic, total	Mercury, total
Cadmium, total	Nickel, total
Copper, total	Selenium, total
Lead, total	Zinc, total

Item #28 - Conventional and Nonconventional Pollutants

Aluminum, total	Iron, Total & Dissolved
Barium, total	Manganese, total
Bromide	Sulfate
Color	<i>Fecal Coliform</i>
Fluoride	

Item #29 - Toxic Pollutants and Hazardous Substances

N/A

Additional Parameters

Alkalinity/Acidity	Chloride
Hardness	Total Dissolved Solids (TDS)
Total Oil & Grease ^A	Total Kjeldahl Nitrogen (TKN)

^A Additional parameter added because of potential Asphalt Plant and RAP Storage at the Rock Hill Quarry.

Hanson is providing the following information regarding the permitted Outfall 001. The constituents detailed below are not anticipated to be present in any potential discharges from the Rock Hill Quarry facility.

Item #24 - Common Parameters/Pollutants

Hanson is requesting a waiver per 40 CFR 122.21(K)(5)(i) for sampling the following constituents: chemical oxygen demand (COD), biochemical oxygen demand (BOD), ammonia (NH₃), and total organic carbon (TOC). COD is commonly used to indirectly measure the amount of organic compounds in water. Organic compounds are not expected in the discharge from Outfall 001. BOD is an indication of the organic quality of water and can be used to gauge the effectiveness of wastewater treatment plants. The organic quality of the water is not expected to be compromised from the mining of non-coal materials. Ammonia is produced for commercial fertilizers and other industrial applications, including metal finishing and treating applications as well as in the production of pharmaceuticals and dyes. Ammonia is used in mining applications for the extraction of metals. However, the mining activities at the Rock Hill Quarry do not extract metals from ore. TOC can be used as a rapid and accurate alternative to analyses for COD and BOD. As the need for COD and BOD is not expected, neither is analysis for TOC.

Item #25 - Dioxins

There is no evidence that, at any time, dioxins, TCDD, 2,4,5-TP, Erbon, TCH or HCP were made, used, stored or buried on or directly upgradient from the surface mine permit area.

Item #26 - Organic Toxic Pollutants

The Organic Toxic Pollutants listed in EPA Table II (Appendix D of 40 CFR 122) are not expected to be present on the site. Pesticides, herbicides, soil conditioners, and fertilizers are not applied within the SMP boundary.

Item #27 - Other Toxic Pollutants

The following Other Toxic Pollutants identified in EPA Table III (Appendix D of 40 CFR 122) are not expected to be present at the site based upon the following:

Antimony: Antimony is a transition metal typically found as a sulfide mineral in igneous deposits. It is used as an alloying agent, flame retardant coating, as a catalyst in polymer production, and in the semiconductor industry. Antimony minerals do not occur in non-coal deposits in Pennsylvania and are therefore not expected at the site.

Beryllium: Beryllium is extremely uncommon in occurrence as a mineral or as a trace element in minerals. It is not present in non-coal mining.

Chromium: Chromium is used in steel manufacturing to make stainless steel and for chrome plating of metal surfaces for corrosion resistance. Chromium is only found in non-coal mines

where limestone mining includes the onsite production of lime and cement. There is no production of lime or cement at the site.

Silver: Silver is a precious metal found in association with copper, lead and zinc sulfide minerals in igneous rocks. Silver has a very low solubility and is only present at a low pH in sulfide or mining settings. Silver is not expected at the site as the site-specific range of pH is above 7 standard units.

Thallium: Thallium is a transition metal associated with heavy metal sulfide minerals and potassium rich clay and granite minerals. Thallium is not expected at the site as it has a very low solubility and is only found in silver mining areas with low pH.

Cyanide: Cyanide comes from chemical manufacturing as an intermediate of a number of chemicals, electroplating and metal treatment. Cyanide is also present from the incomplete combustion of organic nitrogen compounds and found in car exhaust. Cyanide is not expected at a non-coal mining site.

Phenols: Phenols are used in the production of phenolic resins and medicinal products. Phenols also form from the incomplete combustion of fossil fuels. Phenols are not expected at a non-coal mining site.

Item #28 - Conventional and Nonconventional Pollutants

The following Conventional and Nonconventional Pollutants listed in EPA Table IV (Appendix D of 40 CFR 122) are not attributable to site operations and/or are not expected to be present in effluent from the site based upon the following:

Total Residual Chlorine: Total Residual Chlorine is the chlorine or chlorine type compounds used to disinfect potable water, industrial water and municipal wastewater. Water at the site is not treated with chlorine; therefore, Total Residual Chlorine is not expected to be present in effluent from the site.

Nitrate-Nitrite: Nitrate-Nitrite is a site-specific additional parameter if agriculture is present within the SMP boundary. No agricultural land use occurs within the quarry property.

Phosphorus, total: Phosphorus is a site-specific additional parameter if agriculture is present within the SMP boundary. No agricultural land use occurs within the quarry property.

Radioactivity: Radioactivity measures the presence of radioactive isotopes in water. The presence of radioactive isotopes would be due to mining of uranium or extraction of fossil fuels, including coal, petroleum and natural gas. These activities are not present at the site.

Sulfide: Sulfide is the reduced form of sulfur produced under anaerobic decomposition of organic sulfur compounds and is typically a concern with wastewater treatment.

Sulfite: Sulfite is a sulfur oxide anion present in boiler waters dissolved oxygen control, industrial wastewater, and wastewaters where sulfur dioxide is used for dechlorination.

Surfactants: Surfactants are present in industrial and municipal wastewaters from the use of detergents, soaps and other cleansing agents.

Boron, total: Boron is used in ceramics, insecticides, semiconductors, and abrasives.

Cobalt, total: Cobalt is a metal found in copper and nickel sulfide igneous minerals mined in Canada, South America, South Africa, and Australia. Cobalt does not occur in noncoal minerals in Pennsylvania.

Molybdenum, total: Molybdenum is found in copper sulfide igneous minerals mined in the U.S., Canada, China, and South America. Copper sulfide igneous minerals are not expected to be present at the site.

Tin, total: Tin is found as an oxide in placer deposits in China, Malaysia, Peru, Brazil, Australia, and Russia.

Titanium, total: Titanium is found in ilmenite and rutile minerals, which are not expected to be present at the site.

Item #29 - Toxic Pollutants and Hazardous Substances

The constituents listed in EPA Table V (Appendix D of 40 CFR 122) are not known to be present, nor are they expected to be present in discharge from the site. However, at the request of the Department, a water sample will be collected from Outfall 001 to be analyzed for asbestos.

Module 2: NPDES Information

A National Pollutant Discharge Elimination System (NPDES) permit is needed for all mining permits. Application for an NPDES permit can be made at the same time as the mining permit using the options described below.

Please check which option is being used for this permit.

☐ 1. **Coverage under General Permit BMR GP-104** (Document No. 5600-PM-MR0388).

This type of NPDES coverage is applicable for non-special protection watersheds where the only potential discharge to surface waters of the Commonwealth will be composed entirely of **stormwater**, in which the main potential pollutant is sediment. To apply for coverage under GP104, complete the Notice of Intent form no. 5600-PM-MR0008 and submit it with this mining permit application.

☒ 2. **Individual NPDES Permit**

An individual NPDES permit is applicable for those sites that have any one of the following characteristics:

- Permit area is in a special protection watershed (HQ/EV).
- The permit specifies a discharge of treated water (beyond simple containment of stormwater runoff), mine drainage treatment facilities discharge, process water or pumped groundwater.
- Discharge authorization does not qualify under the GP-104.

To apply for coverage under an individual NPDES permit associated with mining activities, complete form no. 5600-PM-BMP0032: APPLICATION FOR INDIVIDUAL NPDES PERMIT ASSOCIATED WITH MINING ACTIVITIES

☐ 3. **Other Option**

Check here if another option is chosen and provide an explanation: _____

ORIGINAL

PENNSYLVANIA

P.O. Box 468
Pipersville, PA 18947
215.766.1211

WEST VIRGINIA

P.O. Box 794
Morgantown, WV 26505
304.212.6866

800.264.4553

June 7, 2018

Mr. Richard E. Tallman, E.I.T.
Civil Engineer
Bureau of District Mining Operations
PA Department of Environmental Protection
5 West Laurel Boulevard
Pottsville, PA 17901-2454

**SUBJECT: Permit Update for Rock Hill Quarry
East Rock Hill Township
Bucks County, PA
EarthRes Project No.: 061003.052**

Dear Mr. Tallman:

On behalf of Hanson Aggregates Pennsylvania, LLC (Hanson), EarthRes Group, Inc. (EarthRes) is hereby submitting the response to your comments from May 3, 2018. For ease of reference your comments are listed below and italicized with our responses included in **bold**.

1. *Application No. 7974SM1C9, NPDES PA0594121 Renewal (Section 77.501)*
 - a. *Please provide a complete PPC Plan including the names of the representatives of the contract operator that will be responsible for implementing the PPC Plan.*

Response: A PPC Plan has been included in Section 1.

2. *Application No. 7974SM1C11, Minor Revision (Sections 77.451 and 77.501)*
 - e. *Please provide the modifications to the E & S Plan (Module 12) as per the remarks of Pennsylvania DEP Mining Engineer, Joseph S. Blyler Jr., P.E., resulting from the meetings of March 5, 2018, March 15, 2018, and April 16, 2018*

Response: All discussed changes from the meetings have been made to the E&S Plan. A revised plan was submitted on May 22, 2018 to Joe Blyler, P.E. under separate cover. Consistent with the follow up discussions regarding this package all changes have been accepted and approved.

061003.052

f. Please provide updated maps as per Item 2. e. above.

Response: All maps have been updated and included with the E&S Plan submission to Joe Blyler, P.E.

3. Application No. BI24143-7974SMI-02, Bond Increment

a. Please update the Bonding Map to reflect the E & S Plan (Item 2 above). (Section 77.454)

Response: The Bonding Map has been updated to reflect the revisions to the E&S Plan, and is attached in Section 3.

b. Please provide cross-sections showing the existing and proposed final pit profile and show water elevation(s). (Section 77.454)

Response: Cross sections, showing existing and proposed grade and water elevations, have been attached in Section 4.

c. Please revise the bonding calculations to reflect the changes to the E & S Plan. (Section 77.702)

Response: The bonding calculations have been updated and are attached in Section 5.

If you have any questions or concerns, please feel free to contact me at (215) 766-1211 Ext 111.

Sincerely,
EarthRes Group, Inc.



Michael D. Fling, P.E.
Project Manager

Enclosures: As stated

Cc: Andrew Gutshall, Hanson

SECTION 1

PPC PLAN

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PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLAN

Rock Hill Quarry

Hanson Aggregates Pennsylvania LLC

PREPARED BY:

**Andrew J. Gutshall, P.G.
Hanson Aggregates Pennsylvania LLC
7660 Imperial Way
Allentown, PA 18195-1040**

January 15, 2018
[Revised May 29, 2018]

Emergency contact list & phone numbers

Provide a contact list and phone numbers for the facility response coordinator, National Response Center, cleanup contractors with whom you have an agreement for response, and all Federal, State, and local agencies who must be contacted in case of a discharge.

Facility Response Coordinator & team members:

<u>Team Member</u>	<u>Name & Title</u>	<u>Day Phone #</u>	<u>Cell Phone #</u>
Facility Response Coordinator (primary)	Stephen Balcerak R.E. Pierson Superintendent	(856) 769-8244	(215) 778-0240
Facility Response Coordinator (secondary)	Charlie Elwell R.E. Pierson		(609) 517-7364
Emergency Information Coordinator	Andrew J. Gutshall Area Environmental Manager	(610) 366-4819	(484) 955-2407
Divisional Emergency Team Member	Timothy J. Poppenberg Area Ops Mgr - Hanson	(610) 366-4815	(610) 850-4760
Divisional Emergency Team Member	Mark E. Kendrick Vice President	(610) 366-4627	(484) 894-0773

Local Emergency Response Agencies:

Bucks County Emergency Services (Fire, Police, Ambulance)	911
--	-----

State Emergency Response Agencies:

DEP Regional Office: Southeast Region 24 hr release reporting	(484) 250-5900
County Emergency Management Agency: Bucks	(215) 340-8700
Pennsylvania Emergency Management Agency	(800) 424-7362 or (717) 783-8150

Federal Emergency Response Agencies:

National Response Center	(800) 424-8802
--------------------------	----------------

List of Emergency Response Contractors:

Note: No emergency response contractors should be necessary. However, in the event that a contracted responder is necessary, the following are available to provide assistance:

<u>Emergency Response Contractor(s)</u>	<u>Phone Number</u>
Elk Environmental Services (www.elkenv.com)	(800) 851-7156 – Emergency Response Line (610) 372-4760



Site Spill History Form

[illegible]

**Send original form Environmental Manager.
This form may be copied as needed.**

Emergency Spill Reporting Form

Instructions: In the event of a spill, this form is to be completed as soon as possible and is to be used in reporting spills to the appropriate agencies. Contact your Environmental Engineer for assistance in completing this form and for reporting of the incident.

Your Name:
Location:
Telephone Number:

Those responsible for the incident: Name:
Location Address:

Date of Incident:
Time of Incident:
Location of Incident:

Source and cause of the release or spill:

Type of material(s) released or spilled:

Quantity of Material(s) released or spilled:

Danger or threat posed by the release or spill:

Number and types of injuries (if any):

Weather conditions at the incident location:

Any other information that may help emergency personnel responding to the incident:

Spill Reporting: Person reporting spill:

Name(s) of person and agencies reported to:

Name	Agency	Date Reported	Time Reported

PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLAN

Facility Training Form

DATE: ____/____/____

TRAINING LEADER _____ TITLE: _____

Items Covered		Notes
Overview of Reason for Plan	~	
Water Quality Requirements	~	
Overview of Facility	~	
Location of Petroleum Storage	~	
Location of Equipment Storage	~	
Locations of Outfalls	~	
Location of Spill Kits	~	
Locations of Erosion Controls	~	
Review of Spills or Leaks	~	
Spill and Pollution Control Measures	~	
Location of Equipment	~	
Constructed Measures	~	
Future Control Measures	~	
Preventative Maintenance	~	
Periodic Inspections	~	
Monthly Petroleum Storage Inspections	~	
Post Rain Event Inspections	~	
Comprehensive Site Compliance Inspection	~	
Good Housekeeping Measures	~	
Traffic Flow	~	
Clean-up of Small Spills	~	
Disposal of Debris and PCS	~	
Neatness of Storage Area and Shelves	~	
Proper Cleaning Equipment	~	
Security	~	
Emergency Response & Pollution Prev. Team	~	
Roster	~	
Members Responsibilities	~	
Spill Control and Countermeasures	~	
Containment Procedures	~	
Techniques	~	
Equipment	~	

Send original form Environmental Manager.
This form may be copied as needed.

Tallman, Richard

From: Gutshall, Andrew J (Allentown) USA <Andrew.Gutshall@LehighHanson.com>
Sent: Wednesday, April 18, 2018 10:53 AM
To: Tallman, Richard
Subject: Hanson - Rock Hill NPDES Renewal - Revised Test America Lab Report
Attachments: Attach C1 - Apr 2018 Rev - J146882-1 UDS Level 1 Report Rev(2) Final Report.pdf

Morning Rich,

I asked our lab to revise the report to include Method Detection Limits (MDLs). They also added a statement on Page 4 (under Revision(2) heading) further clarifying the MDL and why it can't be any lower.

Please let me know if this is sufficient to address the concerns regarding EPA's super low QLs.

Regards.

Andrew J. Gutshall, P.G.
Area Environmental Manager – ECPA/NJ

Lehigh Hanson, Inc.
7660 Imperial Way
Allentown, PA 18195

Office: (610) 366-4819
Mobile: (484) 955-2407
Fax: (610) 871-5994

andrew.gutshall@lehighhanson.com
www.lehighhanson.com

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Followup Submission of Test Results
INCLUDING 1
MDL FOR
EACH CONSTITUENT
TESTED

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-146882-1
Client Project/Site: Rock Hill Quarry
Revision: 2

For:
Hanson Aggregates PA LLC
7660 Imperial Way
Allentown, Pennsylvania 18195

Attn: Andrew Gutshall

Jill Miller

Authorized for release by:
4/18/2018 10:04:41 AM

Jill Miller, Project Manager II
(732)549-3900
jill.miller@testamericainc.com

LINKS

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results through

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Expert**

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Job ID: 460-146882-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative
460-146882-1
Revision(2)

Revision(1)

TKN did not pull into the original report. This report corrects that error.

Revision(2)

Client requested MDLs and MDL statement in case narrative

The method detection limit (MDL) is the lowest value detectable by the laboratory for a given analyte as determined by the MDL procedure detailed in EPA 40 CFR 136. Reported MDL values are adjusted for any dilutions and percent moisture (as applicable). The lab is unable to report values below the MDL.

Receipt

The sample was received on 12/13/2017 11:45 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

GC Semi VOA

Method(s) 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: NPDES 001 (460-146882-1) at 2.0. Elevated reporting limits (RLs) are provided.

Method(s) 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: (460-146898-G-2), (460-146898-G-2 MS) and (460-146898-G-2 MSD) at 50.0, 50.0 and 50.0. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Client Sample ID: NPDES 001

Lab Sample ID: 460-146882-1

Date Collected: 12/12/17 10:50

Matrix: Water

Date Received: 12/13/17 11:45

5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.043	U	0.40	0.043	mg/L			12/20/17 05:05	1
Fluoride	0.13		0.080	0.012	mg/L			12/20/17 05:05	1
Sulfate	10.1		0.60	0.33	mg/L			12/20/17 05:05	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.59	D	0.24	0.16	mg/L			12/20/17 12:04	2

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	96.9		8.0	2.5	ug/L		12/16/17 09:00	12/16/17 21:35	2
Iron	237		120	42.4	ug/L		12/16/17 09:00	12/16/17 21:35	2
Cadmium	0.71	U	2.0	0.71	ug/L		12/16/17 09:00	12/16/17 21:35	2
Barium	7.8		4.0	1.2	ug/L		12/16/17 09:00	12/16/17 21:35	2
Nickel	1.4	U	4.0	1.4	ug/L		12/16/17 09:00	12/16/17 21:35	2
Arsenic	0.64	U	2.0	0.64	ug/L		12/16/17 09:00	12/16/17 21:35	2
Copper	1.7	J	4.0	1.4	ug/L		12/16/17 09:00	12/16/17 21:35	2
Aluminum	23.0	J	40.0	18.2	ug/L		12/16/17 09:00	12/16/17 21:35	2
Lead	0.38	U	1.2	0.38	ug/L		12/16/17 09:00	12/16/17 21:35	2
Zinc	7.0	U	16.0	7.0	ug/L		12/16/17 09:00	12/16/17 21:35	2
Selenium	0.73	U	10.0	0.73	ug/L		12/16/17 09:00	12/16/17 21:35	2

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	42.4	U	120	42.4	ug/L		12/19/17 11:49	12/19/17 14:46	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17	U	0.20	0.17	ug/L		12/15/17 11:53	12/15/17 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	2.2	U	5.4	2.2	mg/L			12/20/17 15:30	1
Nitrogen, Kjeldahl	0.10	U	0.20	0.10	mg/L		12/18/17 10:48	12/19/17 11:50	1
Color	5.00		5.00	5.00	Color Units			12/14/17 06:37	1
Acidity	37.8		20.0	20.0	mg/L			12/19/17 09:54	1
Alkalinity	133		5.0	5.0	mg/L			12/15/17 14:03	1
Total Dissolved Solids	195		10.0	10.0	mg/L			12/18/17 13:10	1
Total Suspended Solids	1.1		1.0	1.0	mg/L			12/18/17 08:02	1
pH	7.9	HF			SU			12/20/17 13:40	1

TestAmerica Edison

Lab Chronicle

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Client Sample ID: NPDES 001

Lab Sample ID: 460-146882-1

Date Collected: 12/12/17 10:50

Matrix: Water

Date Received: 12/13/17 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	485553	12/20/17 05:05	HXM	TAL EDI
Total/NA	Analysis	300.0	DL	2	485553	12/20/17 12:04	HXM	TAL EDI
Dissolved	Filtration	FILTRATION			484180	12/14/17 08:57	MDC	TAL EDI
Dissolved	Prep	3010A			485505	12/19/17 11:49	MDC	TAL EDI
Dissolved	Analysis	6020A		2	485548	12/19/17 14:46	MDC	TAL EDI
Total/NA	Prep	3010A			484774	12/16/17 09:00	QZY	TAL EDI
Total/NA	Analysis	6020A		2	485137	12/16/17 21:35	PHP	TAL EDI
Total/NA	Prep	7470A			484564	12/15/17 11:53	RBS	TAL EDI
Total/NA	Analysis	7470A		1	484612	12/15/17 14:18	RBS	TAL EDI
Total/NA	Analysis	1664A		1	485713	12/20/17 15:30	JXT	TAL EDI
Total/NA	Prep	Digestion			506771	12/18/17 10:48	CFJ	TAL SAV
Total/NA	Analysis	351.2		1	507035	12/19/17 11:50	JER	TAL SAV
Total/NA	Analysis	SM 2120B		1	484131	12/14/17 06:37	KYN	TAL EDI
Total/NA	Analysis	SM 2310B		1	485461	12/19/17 09:54	IAA	TAL EDI
Total/NA	Analysis	SM 2320B		1	485119	12/15/17 14:03	LED	TAL EDI
Total/NA	Analysis	SM 2540C		1	485191	12/18/17 13:10	PLS	TAL EDI
Total/NA	Analysis	SM 2540D		1	485104	12/18/17 08:02	PLS	TAL EDI
Total/NA	Analysis	SM 4500 H+ B		1	485874	12/20/17 13:40	YAH	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Edison

Accreditation/Certification Summary

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-18
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	09-22-19
Arizona	State Program	9	AZ0808	12-14-18
Arkansas DEQ	State Program	6	88-0692	02-01-19
California	State Program	9	2939	06-30-18
Colorado	State Program	8	N/A	12-31-18
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	803	06-30-18
Guam	State Program	9	15-005r	04-16-18
Hawaii	State Program	9	N/A	06-30-18
Illinois	NELAP	5	200022	11-30-18
Indiana	State Program	5	N/A	06-30-18
Iowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-18
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-18 *
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-18
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-18
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-18
Mississippi	State Program	4	N/A	06-30-18
Nebraska	State Program	7	TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-19
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-18
Oklahoma	State Program	6	9984	08-31-18
Pennsylvania	NELAP	3	68-00474	06-30-18
Puerto Rico	State Program	2	GA00006	12-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Edison

Accreditation/Certification Summary

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Laboratory: TestAmerica Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
South Carolina	State Program	4	98001	06-30-18
Tennessee	State Program	4	TN02961	06-30-18
Texas	NELAP	6	T104704185-16-9	11-30-18
Texas	State Program	6	T104704185	06-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		P330-17-00213	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program	3	9950C	12-31-18
West Virginia DEP	State Program	3	094	06-30-18
Wisconsin	State Program	5	999819810	08-31-18
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Edison

Method Summary

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL EDI
6020A	Metals (ICP/MS)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
1664A	HEM and SGT-HEM	1664A	TAL EDI
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL SAV
SM 2120B	Color, Colorimetric	SM	TAL EDI
SM 2310B	Acidity	SM	TAL EDI
SM 2320B	Alkalinity	SM	TAL EDI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL EDI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL EDI
SM 4500 H+ B	pH	SM	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
7470A	Preparation, Mercury	SW846	TAL EDI
Digestion	Digestion, Hot Block	MCAWW	TAL SAV
FILTRATION	Sample Filtration	None	TAL EDI

Protocol References:

1664A = EPA-821-98-002

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-146882-1	NPDES 001	Water	12/12/17 10:50	12/13/17 11:45

TestAmerica

CHAIN OF CUSTODY / ANALYSIS REQUEST

1.3
KOP

Page 1 of 1

THE LEADER IN ENVIRONMENTAL TESTING

Name (for report and invoice) ANDREW GUTSHALL		Samplers Name (Printed) ANDREW GUTSHALL		Site/Project Identification ROCK HILL QUARRY PA	
Company HANSON AGGREGATES		P.O. #		State (Location of site): NJ: ☐ NY: ☐ Other: ☐ DKOP: ☐	
Address 7600 IMPERIAL WAY		Analyst's Turnaround Time Standard ☒ Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐		LAB USE ONLY Project No: 146882	
City AULEN TOWN PA		State PA		Job No: 146882	
Phone 610-366-4819		Fax		Sample Numbers	
Sample Identification NPDES 001		Date 12/17/10		SEE ATTACHED SHEET	
Time 1050		Matrix W		BOTTLE ORDER 58009	
No. of Cont. 12					
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH 6 = Other, 7 = Other					



460-146882 Chain of Custody

Special Instructions		Water Metals Filtered (Yes/No)? NO	
Relinquished by ANDREW GUTSHALL	Company HANSON	Date / Time 12/17/10 1600	Received by TA
Relinquished by TA	Company TA	Date / Time 12-13-17 1730	Received by TA
Relinquished by TA	Company TA	Date / Time 12-13-17 2000	Received by TA
Relinquished by TA	Company TA	Date / Time 12-13-17 2000	Received by TA
Relinquished by TA	Company TA	Date / Time 12-13-17 2000	Received by TA

TAL-0016 (0715)

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

Job Number:

146882

[illegible]

If pH adjustments are required record the information below:

Sample No(s). adjusted:

Preservative Name/Conc.:

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials:

56

Date:

$$\frac{13}{12}$$



Chain of Custody Record

Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving: Company: Address: City: State: Zip: Phone: Fax: Email: Project Name: Site:		Lab PIA: Miller, Jill K E Mail: jill.miller@testamericainc.com Accredited and Required (See note) NELAP - Pennsylvania		Carrier Tracking Notes: State of Origin: Pennsylvania Page 1 of 1 Job # 460-146882-1		COC Ref: 460-50297-1	
TestAmerica Laboratories, Inc. 5102 LaRoche Avenue Savannah GA 31404 912-354-7858 (Tel) 912-352-0165 (Fax)		Due Date Requested: 12/20/2017 TAT Requested (days): 30 Project # 46011424 SSOW#		Analysis Requested A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonia H - Acetic Acid I - Ice J - Di-Ethanol K - EDTA L - EDA Other:		Preservation Codes: M - Hexane N - None O - Ascorbic P - Na2CO3 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylsulfate U - Ascorbic V - MeOH W - OH 4.5 Z - Other Specify:	
Sample Identification - Client ID (Lab ID)		Sample Date: 12/12/17		Sample Time: 10:50 Eastern		Sample Type (Csc Comp, G-grab): Preservation Code: Matrix (Hexane, Di-Ethanol, Other): Water	
NPDES 001 (460-146882-1)		Field Filtered Sample (Yes or No) X		Perform MS/MSD (Yes or No) X		355 Z/Digest, P, Nitrite Nitrogen, Total Kjeldahl Nitrogen	
Total Number of Containers: 1		Special Instructions/Note:					
Note: Since laboratory accreditation is subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently perform an accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica Laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, retain the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.							
Possible Hazard Identification Unconfirmed: Deliverable Requested I, II, III, IV, Other (specify):							
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months:							
Special Instructions/OC Requirements:							
Empty Kit Relinquished by: Relinquished by: Relinquished by:		Date: 12/13/17 14:30		Date: 12/14/17		Company: Company: Company:	
Custody Seals Intact A Yes A No		Custody Seal No		Cooler Temperature(s) and Other Remarks: 26		Ver 09/20/2016	

Login Sample Receipt Checklist

Client: Hanson Aggregates PA LLC

Job Number: 460-146882-1

Login Number: 146882

List Source: TestAmerica Edison

List Number: 1

Creator: Gilmore, Julie L.

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	IR KOP#1 1.3
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Hanson Aggregates PA LLC

Job Number: 460-146882-1

Login Number: 146882

List Number: 2

Creator: Hopkins, Ashley

List Source: TestAmerica Savannah

List Creation: 12/14/17 12:34 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Tallman, Richard

From: Gutshall, Andrew J (Allentown) USA <Andrew.Gutshall@LehighHanson.com>
Sent: Monday, March 19, 2018 2:31 PM
To: Tallman, Richard; Blyler, Joseph
Cc: Kendrick, Mark E (Allentown) USA; Poppenberg, Timothy J (Allentown) USA
Subject: Hanson - Rock Hill NPDES Renewal - Additional Water Characterization
Attachments: 2018-03-16 Rock Hill NPDES Sampling Data Trans.pdf

Additional analysis of NPDES 001 and the existing site well included in attached correspondence.

Andrew J. Gutshall, P.G.
Area Environmental Manager – ECPA/NJ

Lehigh Hanson, Inc.
7660 Imperial Way
Allentown, PA 18195

Office: (610) 366-4819
Mobile: (484) 955-2407
Fax: (610) 871-5994

andrew.gutshall@lehighhanson.com
www.lehighhanson.com

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Sent via Fed-Ex

Hanson Aggregates Pennsylvania LLC
7660 Imperial Way
Allentown, PA 18195-1040
Tel 610-366-4819
Fax 610-871-5994

March 14, 2018

Michael Kutney, P.G.
Pennsylvania Department of Environmental Protection
Pottsville District Mining Office
5 West Laurel Boulevard
Pottsville, PA 17901-2454

Re: Rock Hill Quarry NPDES Renewal Application – Water Quality Data
NPDES Permit No. PA0594121
SMP No. 7974SM1
East Rockhill Township
Bucks County, Pennsylvania

Dear Mr. Kutney:

As indicated in the January 18, 2018 cover letter for the NPDES Renewal Application, Hanson Aggregates Pennsylvania LLC (Hanson) has collected additional water samples at the site. Specifically, a water sample from NPDES Outfall 001 and the existing site well were collected on February 22, 2018 to assess for the presence of asbestos. As indicated on the enclosed EMSL Analytical, Inc. report, laboratory analysis indicates a non-detect result for asbestos in the samples.

Although Hanson previously indicated the presence of Fecal Coliform would be assessed as part of the effluent characterization, it is our position that Fecal Coliform would not be attributable to site operations. Fecal Coliform is an indicator of animal feces contamination or inadequate treatment of animal waste in wastewater treatment. Therefore, analysis for the presence of Fecal Coliform from NPDES Outfall 001 will not be conducted.

Please feel free to contact me at (610) 366-4819 should you wish to discuss the submission or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Andrew J. Gutshall".

Andrew J. Gutshall, P.G.
Area Environmental Manager

encl: Attachment A – EMSL Analytical, Incl Test Report

cc: Richard E. Tallman, E.I.T., PADEP (e-mail only)
Joseph S. Blyler, Jr., P.E., PADEP (e-mail only)
Mark E. Kendrick, Hanson – Allentown (e-mail only)
Timothy J. Poppenberg, Hanson – Allentown (e-mail only)
Environmental File



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order ID: 041805934
Customer ID: MISC-SC
Customer PO:
Project ID:

Attn: Lehigh Hanson, Inc.

Andrew Gutshall
7660 Imperial Way
Allentown, PA 18195

Proj: Rock Hill Quarry

Phone: (610) 366-4819

Fax:

Collected: 02/22/2018

Received: 02/23/2018

Analyzed: 03/05/2018

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

ASBESTOS

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm ²)	Area Analyzed (mm ²)	Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration MFL (million fibers per liter)	Confidence Limits
NPDES001 041805934-0001	2/23/2018 11:30 AM	5	1387	0.2840	None Detected	ND	1.10	<1.10	0.00 - 3.90
Due to excessive particulate the analytical sensitivity of 0.2 MFL as required by the method was not reached.									
WELL 041805934-0002	2/23/2018 11:30 AM	50	1387	0.1452	None Detected	ND	0.19	<0.19	0.00 - 0.70

Analyst(s)

Sandy Burany, Ph.D. (2)

Benjamin Ellis, Laboratory Manager
or Other Approved Signatory

Any questions please contact Benjamin Ellis.

Initial report from: 03/05/2018 15:48:24

Sample collection and containers provided by the client, acceptable bottle blank level is defined as ≤ 0.01 MFL > 10µm. ND=None Detected. This report may not be reproduced, except in full, without written permission by EMSL Analytical, Inc. The test results contained within this report meet the requirements of NELAP unless otherwise noted. This report relates only to the samples reported above. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP NYS ELAP 10872, NJ DEP 03036, FL DOH E87976, PA ID# 68-00367



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Thank you for your business.



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

March 19, 2018

Mr. Andrew Gutshall, P.G.
Lehigh Hanson, Inc.
7660 Imperial Way
Allentown, PA 18195

Re: Ridge Run PFAS HSCA Site
Sample Results

Dear Mr. Gutshall:

On February 22, 2018, PA Department of Environmental Protection (PA DEP) personnel with the assistance of personnel representing our general technical assistance contractor, EnviroTrac, collected a water sample from the well located at the Rock Hill Materials quarry located in East Rockhill Township, Pennsylvania. The sample was analyzed for Perfluoro-octanesulfonate (PFOS) and Perfluorooctanoic acid (PFOA). The table below summarizes the PFOS and PFOA results found in the sample. Please note all results are in nanograms/liter (ng/L) or parts per trillion (ppt). Enclosed, please find a copy of the sample results.

Compound	02/22/2018
PFOA	4
PFOS	ND
Combined PFOA/PFOS Results	4

*ND-non detect, or results are not above current detection limit

The US Environmental Protection Agency (US EPA) established a Lifetime Health Advisory Level (HAL) of 70 ppt for the combined concentration of PFOS and PFOA in drinking water. The results indicate that the combined concentration of PFOA and PFOS detected in the well water is 4 ppt and is below the HAL.

Please feel free to contact me by e-mail at lharp@pa.gov or by telephone at 484.250.5721, with any questions.

Sincerely,

Lena Harper
Environmental Protection Specialist
Environmental Cleanup and Brownfields

Enclosures

cc: West Rockhill Township
Bucks County Health Department
M. Menghini, PADEP
Re30(dk18ecb)078.18

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-146882-1
Client Project/Site: Rock Hill Quarry

For:
Hanson Aggregates PA LLC
7660 Imperial Way
Allentown, Pennsylvania 18195

Attn: Andrew Gutshall

Jill Miller

Authorized for release by:
1/9/2018 12:40:09 PM

Jill Miller, Project Manager II
(732)549-3900
jill.miller@testamericainc.com

LINKS

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results through

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The
Expert**

Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAP and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Lab Chronicle	6
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Definitions/Glossary

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

3

Qualifiers

General Chemistry

Qualifier	Qualifier Description
-----------	-----------------------

HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
----	--

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
--------------	---

α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Job ID: 460-146882-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative
460-146882-1
Revision(1)

Revision(1)

TKN did not pull into the original report. This report corrects that error.

Receipt

The sample was received on 12/13/2017 11:45 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

GC Semi VOA

Method(s) 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: NPDES 001 (460-146882-1) at 2.0. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Narrative

Job Narrative
460-146882-2

Comments

No additional comments.

Receipt

The sample was received on 12/13/2017 11:45 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Client Sample ID: NPDES 001

Lab Sample ID: 460-146882-1

Date Collected: 12/12/17 10:50

Matrix: Water

Date Received: 12/13/17 11:45

5

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.40	mg/L			12/20/17 05:05	1
Fluoride	0.13		0.080	mg/L			12/20/17 05:05	1
Sulfate	10		0.60	mg/L			12/20/17 05:05	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.6		0.24	mg/L			12/20/17 12:04	2

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	97		8.0	ug/L		12/16/17 09:00	12/16/17 21:35	2
Iron	240		120	ug/L		12/16/17 09:00	12/16/17 21:35	2
Cadmium	ND		2.0	ug/L		12/16/17 09:00	12/16/17 21:35	2
Barium	7.8		4.0	ug/L		12/16/17 09:00	12/16/17 21:35	2
Nickel	ND		4.0	ug/L		12/16/17 09:00	12/16/17 21:35	2
Arsenic	ND		2.0	ug/L		12/16/17 09:00	12/16/17 21:35	2
Copper	ND		4.0	ug/L		12/16/17 09:00	12/16/17 21:35	2
Aluminum	ND		40	ug/L		12/16/17 09:00	12/16/17 21:35	2
Lead	ND		1.2	ug/L		12/16/17 09:00	12/16/17 21:35	2
Zinc	ND		16	ug/L		12/16/17 09:00	12/16/17 21:35	2
Selenium	ND		10	ug/L		12/16/17 09:00	12/16/17 21:35	2

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		120	ug/L		12/19/17 11:49	12/19/17 14:46	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	ug/L		12/15/17 11:53	12/15/17 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	ND		5.4	mg/L			12/20/17 15:30	1
Nitrogen, Kjeldahl	ND		0.20	mg/L		12/18/17 10:48	12/19/17 11:50	1
Color	5.0		5.0	Color Units			12/14/17 06:37	1
Acidity	38		20	mg/L			12/19/17 09:54	1
Alkalinity	130		5.0	mg/L			12/15/17 14:03	1
Hardness as calcium carbonate	140		5.0	mg/L			01/09/18 12:21	1
Total Dissolved Solids	200		10	mg/L			12/18/17 13:10	1
Total Suspended Solids	1.1		1.0	mg/L			12/18/17 08:02	1
pH	7.9	HF		SU			12/20/17 13:40	1

TestAmerica Edison

Lab Chronicle

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Client Sample ID: NPDES 001

Lab Sample ID: 460-146882-1

Date Collected: 12/12/17 10:50

Matrix: Water

Date Received: 12/13/17 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	485553	12/20/17 05:05	HXM	TAL EDI
Total/NA	Analysis	300.0	DL	2	485553	12/20/17 12:04	HXM	TAL EDI
Dissolved	Filtration	FILTRATION			484180	12/14/17 08:57	MDC	TAL EDI
Dissolved	Prep	3010A			485505	12/19/17 11:49	MDC	TAL EDI
Dissolved	Analysis	6020A		2	485548	12/19/17 14:46	MDC	TAL EDI
Total/NA	Prep	3010A			484774	12/16/17 09:00	QZY	TAL EDI
Total/NA	Analysis	6020A		2	485137	12/16/17 21:35	PHP	TAL EDI
Total/NA	Prep	7470A			484564	12/15/17 11:53	RBS	TAL EDI
Total/NA	Analysis	7470A		1	484612	12/15/17 14:18	RBS	TAL EDI
Total/NA	Analysis	1664A		1	485713	12/20/17 15:30	JXT	TAL EDI
Total/NA	Prep	Digestion			506771	12/18/17 10:48	CFJ	TAL SAV
Total/NA	Analysis	351.2		1	507035	12/19/17 11:50	JER	TAL SAV
Total/NA	Analysis	SM 2120B		1	484131	12/14/17 06:37	KYN	TAL EDI
Total/NA	Analysis	SM 2310B		1	485461	12/19/17 09:54	IAA	TAL EDI
Total/NA	Analysis	SM 2320B		1	485119	12/15/17 14:03	LED	TAL EDI
Total/NA	Analysis	SM 2340C		1	489338	01/09/18 12:21	IAA	TAL EDI
Total/NA	Analysis	SM 2540C		1	485191	12/18/17 13:10	PLS	TAL EDI
Total/NA	Analysis	SM 2540D		1	485104	12/18/17 08:02	PLS	TAL EDI
Total/NA	Analysis	SM 4500 H+ B		1	485874	12/20/17 13:40	YAH	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-18
New York	NELAP	2	11452	04-01-18
Pennsylvania	NELAP	3	68-00522	02-28-18
Rhode Island	State Program	1	LAO00132	12-30-17 *
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
	AFCEE		SAVLAB	
Alabama	State Program	4	41450	06-30-18
Alaska	State Program	10		06-30-18
Alaska (UST)	State Program	10	UST-104	09-22-19
Arizona	State Program	9	AZ808	12-14-18
Arkansas DEQ	State Program	6	88-0692	02-01-19
California	State Program	9	2939	06-30-18
Colorado	State Program	8	N/A	12-31-18
Connecticut	State Program	1	PH-0161	03-31-19
Florida	NELAP	4	E87052	06-30-18
GA Dept. of Agriculture	State Program	4	N/A	06-12-18
Georgia	State Program	4	803	06-30-18
Guam	State Program	9	15-005r	04-16-18
Hawaii	State Program	9	N/A	06-30-18
Illinois	NELAP	5	200022	11-30-18
Indiana	State Program	5	N/A	06-30-18
Iowa	State Program	7	353	06-30-19
Kentucky (DW)	State Program	4	90084	12-31-18
Kentucky (UST)	State Program	4	18	06-30-18
Kentucky (WW)	State Program	4	90084	12-31-18 *
L-A-B	DoD ELAP		L2463	09-22-19
L-A-B	ISO/IEC 17025		L2463.01	09-22-19
Louisiana	NELAP	6	30690	06-30-18
Louisiana (DW)	NELAP	6	LA160019	12-31-18
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-18
Massachusetts	State Program	1	M-GA006	06-30-18
Michigan	State Program	5	9925	06-30-18
Mississippi	State Program	4	N/A	06-30-18
Nebraska	State Program	7	TestAmerica-Savannah	06-30-18
New Jersey	NELAP	2	GA769	06-30-18
New Mexico	State Program	6	N/A	06-30-18
New York	NELAP	2	10842	03-31-18
North Carolina (DW)	State Program	4	13701	07-31-18
North Carolina (WW/SW)	State Program	4	269	12-31-18
Oklahoma	State Program	6	9984	08-31-18
Pennsylvania	NELAP	3	68-00474	06-30-18
Puerto Rico	State Program	2	GA00006	12-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Edison

Accreditation/Certification Summary

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Laboratory: TestAmerica Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
South Carolina	State Program	4	98001	06-30-18
Tennessee	State Program	4	TN02961	06-30-18
Texas	NELAP	6	T104704185-16-9	11-30-18
Texas	State Program	6	T104704185	06-30-18
US Fish & Wildlife	Federal		LE058448-0	07-31-18
USDA	Federal		SAV 3-04	06-14-20 *
Virginia	NELAP	3	460161	06-14-18
Washington	State Program	10	C805	06-10-18
West Virginia (DW)	State Program	3	9950C	12-31-17
West Virginia DEP	State Program	3	094	06-30-18
Wisconsin	State Program	5	999819810	08-31-18
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Edison

Method Summary

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL EDI
6020A	Metals (ICP/MS)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
1664A	HEM and SGT-HEM	1664A	TAL EDI
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL SAV
SM 2120B	Color, Colorimetric	SM	TAL EDI
SM 2310B	Acidity	SM	TAL EDI
SM 2320B	Alkalinity	SM	TAL EDI
SM 2340C	Hardness, Total (mg/l as CaCO ₃)	SM	TAL EDI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL EDI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL EDI
SM 4500 H+ B	pH	SM	TAL EDI

Protocol References:

1664A = EPA-821-98-002

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Hanson Aggregates PA LLC
Project/Site: Rock Hill Quarry

TestAmerica Job ID: 460-146882-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-146882-1	NPDES 001	Water	12/12/17 10:50	12/13/17 11:45

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

[Redacted]

Water Metals Filtered (Yes/No)? No

TAL - 0016 (0715)

Massachusetts (M-NJ312), North Carolina (No. 578)

Job Number:

146882

[illegible]

If pH adjustments are required record the information below:

Sample No(s), adjusted:

Preservative Name/Conc.:

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials:

55

Date: 12/15

Login Sample Receipt Checklist

Client: Hanson Aggregates PA LLC

Job Number: 460-146882-2

Login Number: 146882

List Source: TestAmerica Edison

List Number: 1

Creator: Gilmore, Julie L

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	IR KOP#1 1.3
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Original File

cc: AMIEE B.
RICH T.



Hanson

HEIDELBERGCEMENT Group

Sent via Fed-Ex

Hanson Aggregates Pennsylvania LLC

7660 Imperial Way
Allentown, PA 18195-1040

Tel 610-366-4819

Fax 610-871-5994

March 14, 2018

Michael Kutney, P.G.
Pennsylvania Department of Environmental Protection
Pottsville District Mining Office
5 West Laurel Boulevard
Pottsville, PA 17901-2454

**Re: Rock Hill Quarry NPDES Renewal Application – Water Quality Data
NPDES Permit No. PA0594121
SMP No. 7974SM1
East Rockhill Township
Bucks County, Pennsylvania**

Dear Mr. Kutney:

As indicated in the January 18, 2018 cover letter for the NPDES Renewal Application, Hanson Aggregates Pennsylvania LLC (Hanson) has collected additional water samples at the site. Specifically, a water sample from NPDES Outfall 001 and the existing site well were collected on February 22, 2018 to assess for the presence of asbestos. As indicated on the enclosed EMSL Analytical, Inc. report, laboratory analysis indicates a non-detect result for asbestos in the samples.

Although Hanson previously indicated the presence of Fecal Coliform would be assessed as part of the effluent characterization, it is our position that Fecal Coliform would not be attributable to site operations. Fecal Coliform is an indicator of animal feces contamination or inadequate treatment of animal waste in wastewater treatment. Therefore, analysis for the presence of Fecal Coliform from NPDES Outfall 001 will not be conducted.

Please feel free to contact me at (610) 366-4819 should you wish to discuss the submission or require additional information.

Sincerely,

Andrew J. Gutshall, P.G.
Area Environmental Manager

encl: Attachment A – EMSL Analytical, Incl Test Report

cc: Richard E. Tallman, E.I.T., PADEP (e-mail only)
Joseph S. Blyler, Jr., P.E., PADEP (e-mail only)
Mark E. Kendrick, Hanson – Allentown (e-mail only)
Timothy J. Poppenberg, Hanson – Allentown (e-mail only)
Environmental File

Rock Hill Quarry
SMP No. 7974SM1
NPDES No. PA0594121
March 16, 2018

ATTACHMENT A

EMSL Analytical, Inc. Test Report



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order ID: 041805934
Customer ID: MISC-SC
Customer PO:
Project ID:

Attn: Lehigh Hanson, Inc.

Andrew Gutshall
7660 Imperial Way
Allentown, PA 18195

Phone: (610) 366-4819

Fax:

Collected: 02/22/2018

Received: 02/23/2018

Analyzed: 03/05/2018

Proj: Rock Hill Quarry

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS				
					Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
					MFL (million fibers per liter)				
NPDES001 041805934-0001	2/23/2018 11:30 AM	5	1387	0.2640	None Detected	ND	1.10	<1.10	0.00 - 3.90
Due to excessive particulate the analytical sensitivity of 0.2 MFL as required by the method was not reached.									
WELL 041805934-0002	2/23/2018 11:30 AM	50	1387	0.1452	None Detected	ND	0.19	<0.19	0.00 - 0.70

Analyst(s)

Sandy Burany, Ph.D (2)

Benjamin Ellis, Laboratory Manager
or Other Approved Signatory

Any questions please contact Benjamin Ellis.

Initial report from: 03/05/2018 15:48:24

Sample collection and containers provided by the client, acceptable bottle blank level is defined as $\leq 0.01\text{MFL} > 10\mu\text{m}$. ND=None Detected. This report may not be reproduced, except in full, without written permission by EMSL Analytical, Inc. The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report relates only to the samples reported above. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAC NYS ELAP 10872, NJ DEP 03036, FL DOH E87975, PA ID# 68-00367

