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January 26, 2018

Hanson Aggregates Pennsylvania LLC
7660 Imperial Way
Allentown, PA 18195-1040
Tel 610-366-4600
Fax 610-871-5994

Monitoring and Compliance Manager
PA Department of Environmental Protection
Pottsville District Office
5 West Laurel Boulevard
Pottsville, PA 17901

**RE: Hanson Aggregates Pennsylvania LLC
Hanson Aggregates BMC, Inc.
4th Quarter 2017 NPDES Discharge Monitoring Reports**

Monitoring and Compliance Manager:

The 4th quarter 2017 Discharge Monitoring Reports (including Groundwater Elevations Reports, Pumping/Discharge Volumes Reports, and Self Monitoring Data Submission Checklists) are enclosed for the following operations:

| | SMP# | NPDES# |
|--------------------|-----------------|-----------|
| Bloomsburg Quarry | SMP 6374SM1 | PA0224383 |
| Glen Mills Quarry | SMP 5273SM2C | PA0594130 |
| Lake Ariel Quarry | SMP 5278SM2C4 | PA0595764 |
| Milton Quarry | SMP 47140301 | PA0225495 |
| Ottsville Quarry | SMP 7974SM2A2C6 | PA0611999 |
| Penns Park Quarry | SMP 797SM2C8 | PA0043901 |
| Rock Hill Quarry | SMP 7974SM1C2 | PA0594121 |
| Stroudsburg Quarry | SMP 6575SM1C | PA0594415 |

Please contact Andrew Gutshall at the above address or by calling 610-366-4819 should you require additional information

Sincerely,

Denise L. Welser
ESH Associate

Encl: Reports with Checklists

cc: Timothy J. Poppenberg, Hanson – Allentown (cover letter only)
Scott E. Hubler, Hanson – Montoursville (cover letter only)
PA Superintendents
Environmental File



POTTSVILLE DISTRICT MINING OFFICE
5 West Laurel Boulevard
Pottsville, PA 17901
(570) 621-3118

SELF MONITORING DATA SUBMISSION CHECKLIST

To insure monitoring data is credited to and files with the correct permit, please complete this form and include with all data submissions.

PERMITTEE NAME: ROCK HILL QUARRY
PERMIT NO.: 7974SM1
MUNICIPALITY: EAST ROCK HILL TWP
COUNTY: BUCKS

DATE OF SUBMITTAL: 1/26/2018

TIME PERIOD (sample frequency): Monthly (for month(s) (October, November, December))
 Quarterly (for quarter no. _____)
 Biannual (for 1st or 2nd half of _____)
 Annual (for _____)

DATA INCLUDED WITH THIS SUBMISSION (place an "x" next to all that apply):

| <u>COAL</u> | <u>NONCOAL (Industrial Minerals)</u> |
|--|---|
| <input type="checkbox"/> Hydrologic – NPDES discharge | <input checked="" type="checkbox"/> Hydrologic – NPDES discharge |
| <input type="checkbox"/> Hydrologic – Surface water sampling | <input checked="" type="checkbox"/> Hydrologic – Surface water sampling |
| <input type="checkbox"/> Hydrologic – Mine Discharge sampling | <input type="checkbox"/> Hydrologic – Groundwater elevations |
| <input type="checkbox"/> Hydrologic – Subchapter G sampling | <input type="checkbox"/> Hydrologic – Pumping/discharge volumes |
| <input type="checkbox"/> Coal Ash – Quarterly Groundwater | <input type="checkbox"/> Overburden Volume Sold |
| <input type="checkbox"/> Coal Ash – Annual Groundwater | <input type="checkbox"/> Volume – Other <u>(specify)</u> |
| <input type="checkbox"/> Coal Ash – Biannual Ash Analysis | <input type="checkbox"/> Hydrologic – Other <u>(specify)</u> |
| <input type="checkbox"/> Coal Ash – Annual Ash Volumes | <input type="checkbox"/> Other <u>(specify)</u> |
| <input type="checkbox"/> Volume Report <u>(specify material)</u> | |
| <input type="checkbox"/> Hydrologic – Other <u>(specify)</u> | |
| <input type="checkbox"/> Other – <u>(specify)</u> | |

Additional Description or notes on this submission(optional) _____

Contact Person and Phone No.: Andrew J. Gutshall, Environmental Manager, Hanson Aggregates 610-366-4819

Module 8.1(A)
 BACKGROUND or **MONITORING REPORT***
 (check appropriate block)

Operator: Hanson Aggregates PA LLC
 Operation Name: Rock Hill Quarry
 Permit No.: 7974SM1
 Township: East Rockhill
 County: Bucks

Monitoring Point I.D.: 001
 Latitude: 40° 24' 19" N and
 Longitude: 75° 18' 16" W
 Surface Elevation: ft. MSL

Description of Sample Point**:

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

| Date Sampled | Method of Flow Measurement | Flow (GPM) or Static Water Elevation | Field pH | Laboratory pH | Specific Conductance (µS/cm) @25°C | Field Temperature °C | Alkalinity mg/l | Acidity mg/l | Iron mg/l | Manganese mg/l | Aluminum mg/l | Sulfate mg/l | Suspended Solids mg/l | Total Dissolved Solids mg/l | Laboratory and Name of Sampler |
|--------------|----------------------------|--------------------------------------|----------|---------------|------------------------------------|----------------------|-----------------|--------------|-----------|----------------|---------------|--------------|-----------------------|-----------------------------|--------------------------------|
| 10/05/17 | n/a | n/a | n/a | 7.6 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | 6.8 | n/a | Test America |
| 10/18/17 | n/a | n/a | n/a | 8.1 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | 1.2 | n/a | Test America |
| 11/08/17 | n/a | n/a | n/a | 7.5 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | 2.0 | n/a | Test America |
| 11/20/17 | n/a | n/a | n/a | 7.8 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | 4.1 | n/a | Test America |
| 12/12/17 | n/a | n/a | n/a | 7.8 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | 1.2 | n/a | Test America |
| 12/12/17 | n/a | n/a | n/a | 7.9 | n/a | n/a | 130 | 38 | 0.240 | 0.097 | < 0.040 | 10 | 1.1 | 200 | Test America |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature of Permittee or Responsible Official or Authorized Representative *** [Signature] Date 09/24/2018

* Water Monitoring Report Cover Sheet Form 5600-FM-MR0113 may be used for multiple monitoring point sample submittals. ** Description should include type of sample point, relation to mine site, treatment and other comments (such as odor, color, etc.) *** Written notification of delegation of signatory authority must be submitted to the Department if signature is other than company official. Signature not necessary if this report is submitted as part of the permit application.

Client Sample Results

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

TestAmerica Job ID: 460-142264-1

Client Sample ID: NPDES 001

Lab Sample ID: 460-142264-1

Date Collected: 10/05/17 09:46

Matrix: Water

Date Received: 10/05/17 11:14

General Chemistry

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|---|----------|----------------|---------|
| Total Suspended Solids | 6.8 | | 1.0 | mg/L | | | 10/12/17 06:40 | 1 |
| Settleable Solids | ND | | 0.50 | mL/L | | | 10/06/17 01:52 | 1 |
| pH | 7.6 | HF | | SU | | | 10/11/17 13:25 | 1 |



Client Sample Results

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

TestAmerica Job ID: 460-143182-1

Client Sample ID: NPDES 001

Lab Sample ID: 460-143182-1

Date Collected: 10/18/17 10:05

Matrix: Water

Date Received: 10/18/17 12:03

General Chemistry

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|---|----------|----------------|---------|
| Total Suspended Solids | 1.2 | | 1.0 | mg/L | | | 10/24/17 03:40 | 1 |
| Settleable Solids | ND | | 0.50 | mL/L | | | 10/20/17 03:29 | 1 |
| pH | 8.1 | HF | | SU | | | 10/25/17 13:53 | 1 |



Client Sample Results

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

TestAmerica Job ID: 460-144580-1

Client Sample ID: NPDES 001

Lab Sample ID: 460-144580-1

Date Collected: 11/08/17 09:33

Matrix: Water

Date Received: 11/08/17 10:35

| General Chemistry | | | | | | | | | |
|------------------------|--------|-----------|------|------|---|----------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Total Suspended Solids | 2.0 | | 1.0 | mg/L | | | 11/15/17 11:12 | 1 | |
| Settleable Solids | ND | | 0.50 | mL/L | | | 11/09/17 03:20 | 1 | |
| pH | 7.5 | HF | | SU | | | 11/13/17 13:06 | 1 | |



Client Sample Results

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

TestAmerica Job ID: 460-145450-1

Client Sample ID: NPDES 001

Lab Sample ID: 460-145450-1

Date Collected: 11/20/17 10:51

Matrix: Water

Date Received: 11/20/17 11:18

General Chemistry

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|---|----------|----------------|---------|
| Total Suspended Solids | 4.1 | | 1.0 | mg/L | | | 11/27/17 08:28 | 1 |
| Settleable Solids | ND | | 0.50 | mL/L | | | 11/22/17 01:16 | 1 |
| pH | 7.8 | HF | | SU | | | 11/27/17 14:41 | 1 |



Client Sample Results

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

TestAmerica Job ID: 460-146883-1

Client Sample ID: NPDES 001

Lab Sample ID: 460-146883-1

Date Collected: 12/12/17 11:20

Matrix: Water

Date Received: 12/13/17 11:45

General Chemistry

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|------|------|---|----------|----------------|---------|
| Total Suspended Solids | 1.2 | | 1.0 | mg/L | | | 12/18/17 08:02 | 1 |
| Settleable Solids | ND | | 0.50 | mL/L | | | 12/14/17 03:56 | 1 |
| pH | 7.8 | HF | | SU | | | 12/20/17 13:42 | 1 |



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

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 |

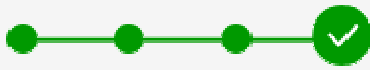
Welser, Denise L (Allentown) USA

From: TrackingUpdates@fedex.com
Sent: Monday, January 29, 2018 11:50 AM
To: Welser, Denise L (Allentown) USA
Subject: FedEx Shipment 771333684582 Delivered

Your package has been delivered

Tracking # 771333684582


| | |
|---|---|
| Ship date: Fri, 1/26/2018 | Delivery date: Mon, 1/29/2018 11:44 am |
| Denise Welser Lehigh Allentown, PA 18195 US | Monitoring and Compliance Manager PA Dep. of Environmental Protection 5 West Laurel Boulevard Pottsville District Mining Office POTTSVILLE, PA 17901 US |


Delivered

Shipment Facts

Our records indicate that the following package has been delivered.

| | |
|-----------------------------------|---|
| Tracking number: | 771333684582 |
| Status: | Delivered: 01/29/2018 11:44 AM Signed for By: S.WEINRICH |
| Reference: | 4tht Quarter DMR Reports |
| Signed for by: | S.WEINRICH |
| Delivery location: | POTTSVILLE, PA |
| Delivered to: | Receptionist/Front Desk |
| Service type: | FedEx 2Day |
| Packaging type: | FedEx Envelope |
| Number of pieces: | 1 |
| Weight: | 0.50 lb. |
| Special handling/Services: | Deliver Weekday |
| Standard transit: | 1/30/2018 by 4:30 pm |

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Thank you for your business.