Ms. Angela M. Cooney, Contracting Officer  
U. S. Department of Energy  
250 East 5th St., Suite 500  
Cincinnati, OH 45202


Dear Ms. Cooney:

This letter is submitted for Contracting Officer Representative’s approval to inform you that the SPDES DMR for the reporting period May 1 through May 31, 2019 has been submitted electronically. A copy of this submittal is attached as well as a copy of the email confirmation from the New York State Department of Environmental Conservation (NYSDEC).

If you have any questions, please contact William Kean at extension 4865 or Janice Williams at extension 2913.

Sincerely,

Scott A. Anderson  
President & General Manager

SAA:WNK:bnj

Attachments:  
A) SPDES DMR for May 1 – 31, 2019  
B) Email Confirmation from NYSDEC

cc: T. Taggart, DOE-EMCBC  
B. C. Bower, DOE-WVDP  
C. Chun, CHBWV  
L. K. Hollfelder, CHBWV  
W. N. Kean, CHBWV  
L. J. Ortega, CHBWV  
J. T. Pillittere, CHBWV (Public Reading Room)  
J. D. Rendall, CHBWV  
J. E. Wangelin, CHBWV  
J. D. Williams, CHBWV  
Letter Log (B. Jeffery), CHBWV  
CHBWV OITS #1830332
Attachment A
SPDES DMR
ATTACHMENT

SPDES DISCHARGE MONITORING REPORT - MAY 1 THROUGH MAY 31, 2019
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

OUTFALL 001
\[ M_1 = \frac{(X_1 + X_2) \cdot V_1}{2} = \frac{0.076 \text{ mg/L} + 0.095 \text{ mg/L} \cdot 746,013.87 \text{ L/month}}{2} = 63,817.19 \text{ mg/month} \]

OUTFALL 007
\[ M_7 = \frac{(X_1 + X_2) \cdot V_7}{2} = \frac{0.00 \text{ mg/L} + 0.00 \text{ mg/L} \cdot 0.00 \text{ L/month}}{2} = 0.00 \text{ mg/month} \]

Note: There was no discharge from outfall 007 during this monitoring period.

RAW WATER
\[ MRW = \frac{(X_1 + X_2 + X_3 + X_4) \cdot VRW}{4} = \frac{0.00 \text{ mg/L} + 0.00 \text{ mg/L} + 0.00 \text{ mg/L} + 0.00 \text{ mg/L}}{4} = 0.00 \text{ mg/month} \]

Note: Raw water from the reservoir system is no longer used for process water since the site installed two groundwater wells. This eliminated the need to collect raw water samples on a weekly basis and altered the iron discharge concentration equation as the mass of iron entering the system is no longer necessary.

IRON DISCHARGE CONCENTRATION
\[ = \frac{M_1 + M_7 - MRW}{V_1 + V_7} = \frac{0.076 \text{ mg/L} + 0.00 \text{ mg/L} - 0.00 \text{ mg/month}}{746,013.87 \text{ L/month} + 0.00 \text{ L/month}} = 0.086 \text{ mg/L} \]
SPDES DISCHARGE MONITORING REPORT – MAY 1 THROUGH MAY 31, 2019
TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION - MONITORING POINT 116
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973

Date: May 8, 2019

\[ C_4 = \frac{(Q_1)(C_1) + (Q_2)(C_2) + (Q_3)(C_3)}{Q_4} \]
\[ = \frac{(0.248 \text{ MGD})(732 \text{ mg/L}) + (0.364 \text{ MGD})(213 \text{ mg/L}) + (0.324 \text{ MGD})(89 \text{ mg/L})}{0.936 \text{ MGD}} \]
\[ = 308 \text{ mg/L} \]

Date: May 15, 2019

\[ C_4 = \frac{(Q_1)(C_1) + (Q_2)(C_2) + (Q_3)(C_3)}{Q_4} \]
\[ = \frac{(0.248 \text{ MGD})(734 \text{ mg/L}) + (0.364 \text{ MGD})(177 \text{ mg/L}) + (0.324 \text{ MGD})(79 \text{ mg/L})}{0.936 \text{ MGD}} \]
\[ = 291 \text{ mg/L} \]

Q1 = Flow at Outfall 001, million gallons per day (MGD).
C1 = Total Dissolved Solids (TDS) concentration at Outfall 001, mg/L.
Q2 = Flow in Franks Creek, MGD (without Outfall 001), measured at WNSP006 just prior to, and shortly after the discharge event.
C2 = TDS concentration in Franks Creek measured at WNSP006 just prior to, and shortly after the discharge event.
Q3 = Flow of augmentation water, MGD, if required.
C3 = TDS concentration in augmentation water, MGD.
Q4 = Q1 + Q2 + Q3, MGD (Flow in Franks Creek, including Outfall 001).
C4 <= 500 mg/L (calculated TDS concentration at 116 in Franks Creek, which includes Outfall 001).
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Code</th>
<th>Monitoring Location</th>
<th>Season #</th>
<th>Permit Req.</th>
<th>Value NODI</th>
<th>Qualifier 1</th>
<th>Value 1</th>
<th>Qualifier 2</th>
<th>Value 2</th>
<th>Units</th>
<th>Quality or Concentration</th>
<th>Frequency of Analysis</th>
<th>Sample Type</th>
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<td>00154 Sulfate [as S]</td>
<td>1 - Effluent Gross</td>
<td>0</td>
<td>Permit Req.</td>
<td>Req Mon MD AVG</td>
<td>Req Mon DAILY MX</td>
<td>&lt;=</td>
<td>0.004</td>
<td>mg/L</td>
<td>19 - 0</td>
<td>01/BA - Once Per Batch</td>
<td>24 - COMP24</td>
<td>CA - CALCITD</td>
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<td>00181 Oxygen demand, ultimate</td>
<td>1 - Effluent Gross</td>
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<td>Req Mon MD AVG</td>
<td>22 DAILY MX</td>
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<td>CA - CALCITD</td>
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<td>00303 Oxygen, dissolved [DO]</td>
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<td>Req Mon MD AVG</td>
<td>10 DAILY MX</td>
<td>&lt;=</td>
<td>3 MINIMUM</td>
<td>19 - 0</td>
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<td>GR - GRAB</td>
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<td>Permit Req.</td>
<td>Req Mon MD AVG</td>
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<td>12 - SU</td>
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<td>GR - GRAB</td>
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<td>00405 pH</td>
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<td>Permit Req.</td>
<td>Req Mon MD AVG</td>
<td>8.5 MAXIMUM</td>
<td>&lt;=</td>
<td>8.5 MINIMUM</td>
<td>12 - SU</td>
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<td>00530 Solids, total suspended</td>
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<td>Permit Req.</td>
<td>Req Mon MD AVG</td>
<td>4 DAILY MX</td>
<td>&lt;=</td>
<td>4</td>
<td>19 - 0</td>
<td>02/BA - Twice Per Batch</td>
<td>COMP24</td>
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<tr>
<td>00541 Solids, settleable</td>
<td>1 - Effluent Gross</td>
<td>0</td>
<td>Permit Req.</td>
<td>Req Mon MD AVG</td>
<td>3 DAILY MX</td>
<td>&lt;=</td>
<td>0.1</td>
<td>25 - 0</td>
<td>02/BA - Twice Per Batch</td>
<td>GR - NODI</td>
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<tr>
<td>00553 Oil &amp; Grease</td>
<td>1 - Effluent Gross</td>
<td>0</td>
<td>Permit Req.</td>
<td>Req Mon MD AVG</td>
<td>4 DAILY MX</td>
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<td>00615 Nitrogen, nitrate [as N]</td>
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<td>Permit Req.</td>
<td>Req Mon MD AVG</td>
<td>15 DAILY MX</td>
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<td>19 - 0</td>
<td>02/BA - Twice Per Batch</td>
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<tr>
<td>00620 Nitrogen, nitrite [as N]</td>
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<td>0</td>
<td>Permit Req.</td>
<td>Req Mon MD AVG</td>
<td>Req Mon DAILY MX</td>
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<td>02/BA - Twice Per Batch</td>
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<td>00746 Sulfide, dissolved, [as S]</td>
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<td>Permit Req.</td>
<td>Req Mon MD AVG</td>
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<td>19 - 0</td>
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<tr>
<td>00778 Americ, total recoverable</td>
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<td>00797 Cobalt, total recoverable</td>
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<td>Req Mon MD AVG</td>
<td>0.0006</td>
<td>&lt;=</td>
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<td>00901 Selenium, total recoverable</td>
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<tr>
<td>01045 Iron, total [as Fe]</td>
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<td>Permit Req.</td>
<td>Req Mon MD AVG</td>
<td>Req Mon DAILY MX</td>
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<td>0.005</td>
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<tr>
<td>Parameter</td>
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<td>Value NODI</td>
<td>Units</td>
<td>Number of Excursions</td>
<td>Frequency of Analysis</td>
<td>Sample Type</td>
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<td>Aluminum, total [as Al]</td>
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<td>Vanadium, total recoverable</td>
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<td>Req Mon MD AVG</td>
<td>&lt; 0.015</td>
<td>mg/L</td>
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<td>Nitrogen, ammonia, total [as NH3]</td>
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<td>&lt; 0.01</td>
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<td>Flow, in conduit or thru treatment plant</td>
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<td>0.378</td>
<td>1.5 MO AVG</td>
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<td>Chlorine, total residual</td>
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<td>&lt; 0.03</td>
<td>Req Mon MD AVG</td>
<td>&lt; 0.03</td>
<td>mg/L</td>
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<td>Solids, total dissolved</td>
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<tr>
<td>Mercury, total [as Hg]</td>
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<td>734</td>
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<td>mg/L</td>
<td>0</td>
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<td>Surfactants [linear alkylate sulfonate]</td>
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<td>0.013</td>
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</table>

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Please note that the average results reported for Ultimate Oxygen Demand; BOD; Settleable Solids; Nitrite (as N) and Nitrate (as N) were flagged "F" unreliable during the data validation process due to sample holding time failures encountered with our contract laboratory. This issue is being tracked and addressed by a CHBWV Supplier Noncompliance Report (SNR).

Attachments

No attachments.
<table>
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<th>Code</th>
<th>Parameter</th>
<th>Monitoring Location</th>
<th>Season #</th>
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<th>Monitoring Date</th>
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<th>Description</th>
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<th>Qualifier 2</th>
<th>Qualifier 3</th>
<th>Qualifier 4</th>
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<td>Permit Req</td>
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<td>Sample</td>
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<td>Req Mon MO AVG &lt;= 22 DAILY MAX 19 - mg/L</td>
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<td>Req Mon MAXIMUM &lt;= 19 - mg/L</td>
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<tr>
<td>00530</td>
<td>Solids, total suspended</td>
<td>Effluent Gross</td>
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<td>Permit Req</td>
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<td>Sample</td>
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<td>Sample</td>
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<td>Req Mon MO AVG &lt;= 0.3 DAILY MX 25 - ni/L</td>
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<tr>
<td>00555</td>
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<td>02/30 - Twice Per Month</td>
<td>Sample</td>
<td>02/30 - Twice Per Month</td>
<td>Req Mon MO AVG &lt;= 15 DAILY MX 19 - mg/L</td>
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<td>C - No Discharge</td>
<td>C - No Discharge</td>
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<tr>
<td>00615</td>
<td>Nitrogen, nitrite total [as N]</td>
<td>Effluent Gross</td>
<td>D</td>
<td></td>
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<td>Permit Req</td>
<td>02/30 - Twice Per Month</td>
<td>Sample</td>
<td>02/30 - Twice Per Month</td>
<td>Req Mon MO AVG &lt;= 0.1 DAILY MX 22 - ni/L</td>
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<td>C - No Discharge</td>
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<td>Permit Req</td>
<td>02/30 - Twice Per Month</td>
<td>Sample</td>
<td>02/30 - Twice Per Month</td>
<td>Req Mon MO AVG &lt;= 1.49 DAILY MX 19 - mg/L</td>
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<td>Iron, total [as Fe]</td>
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<td>02/30 - Twice Per Month</td>
<td>Sample</td>
<td>02/30 - Twice Per Month</td>
<td>Req Mon MO AVG &lt;= 40.0 DAILY MX 19 - mg/L</td>
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<td>50050</td>
<td>Flow, in conduit or thru treatment plant</td>
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<td>01/30 - Monthly</td>
<td>Req Mon MO AVG &lt;= 1 DAILY MX 19 - mg/L</td>
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<td>GRAB</td>
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<td>70235</td>
<td>Solids, total dissolved</td>
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<td>02/30 - Twice Per Month</td>
<td>Sample</td>
<td>02/30 - Twice Per Month</td>
<td>Req Mon MO AVG &lt;= 50 DAILY MX 3M - ni/L</td>
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<td>C - No Discharge</td>
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Submission Note
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.
Permit
Permit #: NY0000973  Permittee: U.S. DEPT OF ENERGY  Facility: WEST VALLEY DEMONSTRATION PROJ
Major: Yes  Permittee Address: 1000 INDEPENDENCE AVE SW  Facility Location: 10282 ROCK SPRINGS ROAD
WASHINGTON, DC 20585  WEST VALLEY, NY 14171-9799
Permitted Feature: 01B  Discharge: 01B-M  Internal Outfall  MERCURY PRETREATMENT
Report Periods & Status
Monitoring Period: From 05/01/19 to 05/31/19  DMR Due Date: 06/28/19  Status: NetDMR Validated

Considerations for Form Completion
Principal Executive Officer
First Name: Bryan C  Title: Director, USDOE-WVDP  Telephone: 716-942-4368
Last Name: Bower

No Data Indicator (NODI)
Form NODI:

Parameter  Monitoring Location  Season  #  Param. NODI  Quantity or Loading  Quality or Concentration  # of Ex  Frequency of Analysis  Sample Type
Code  Name  Qualifier 1  Value 1  Qualifier 2  Value 2  Units  Qualifier 1  Value 1  Qualifier 2  Value 2  Qualifier 3  Value 3  Units
00056 Flow rate 1 - Effluent Gross 0 –  Permit Req.  Req Mon MO AVG  Req Mon DAILY MAX 07 - paid
Value NODI  C - No Discharge
Sample
71900 Mercury, total [as Hg] 1 - Effluent Gross 0 –  Permit Req.  Req Mon MO AVG  Req Mon DAILY MAX 3M - ng/L
Value NODI  C - No Discharge

Submission Note
If a parameter row does not contain any values for the Sample or Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors
No errors.

Comments
Attachments
No attachments.

Report Last Saved By
U.S. DEPT OF ENERGY
User: william.kean@chbwv.com  Name: William Kean  E-Mail: william.kean@chbwv.com
Date/Time: 2019-06-18 13:58  (Time Zone: -04:00)

Report Last Signed By
User: janice.williams@chbwv.com  Name: Janice Williams  E-Mail: janice.williams@chbwv.com
Date/Time: 2019-06-19 13:46  (Time Zone: -04:00)
**Permit**

**Permit #:** NY0000973  
**Permittee:** U.S. DEPT OF ENERGY  
**Facility:** WEST VALLEY DEMONSTRATION PROJ

**Major:** Yes  
**Permittee Address:** 1000 INDEPENDENCE AVE SW  
**Facility Location:** 10282 ROCK SPRINGS ROAD  
WASHINGTON, DC 20585  
WEST VALLEY, NY 14171-9799

**Permitted Feature:** 116  
**Discharge:** 116-M  
**Report Dates & Status**

**Monitoring Period:** From 05/01/19 to 05/31/19  
**DMR Due Date:** 06/28/19  
**Status:** NetDMR Validated

**Considerations for Form Completion**

If PSEUDO MONITORING POINT REPORT IS NOT REQUIRED DURING THE MONITORING PERIOD, EITHER CHECK THENO DISCHARGE BOX OR ENTER 'NODI' A/N PLACE OF A MEASUREMENT TO INDICATE A GENERAL PERMIT EXEMPTION.

**Principal Executive Officer**

**First Name:** Bryan  
**Last Name:** Bower  
**Title:** Director, USDOE-WVDP  
**Telephone:** 716-942-4368

**No Data Indicator (NODI)**

**Parameter**  
**Monitoring Location**  
**Season #**  
**Param. NODI**  
**Quantity or Loading**  
**Quality or Concentration**  
**# of Ex.**  
**Frequency of Analysis**  
**Sample Type**  

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<th>Value 1</th>
<th>Qualifier 2</th>
<th>Value 2</th>
<th>Qualifier 3</th>
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**Submission Note**

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**

No errors.

**Comments**

**Attachments**

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**Report Last Saved By**

**U.S. DEPT OF ENERGY**

**User:** william.kean@chbwv.com  
**Name:** William Kean  
**E-Mail:** william.kean@chbwv.com  
**Date/Time:** 2019-06-18 13:59 (Time Zone: -04:00)

**Report Last Signed By**

**User:** janice.williams@chbwv.com  
**Name:** Janice Williams  
**E-Mail:** janice.williams@chbwv.com  
**Date/Time:** 2019-06-19 13:46 (Time Zone: -04:00)
DMR Copy of Record

Permit:
- Permit #: NY0000973
- Permittee: U.S. DEPT OF ENERGY
- Facility: WEST VALLEY DEMONSTRATION PROJ

Major: Yes

Permittee Address:
- 1000 INDEPENDENCE AVE SW
- WASHINGTON, DC 20585

Facility Location:
- 10282 ROCK SPRINGS ROAD
- WEST VALLEY, NY 14717-9799

Permitted Feature: SUM Internal Outfall

Discharge: SUM-N SUM OF OUTFALLS 1 & 7

Report Dates & Status:
- Monitoring Period: From 05/01/19 to 05/31/19
- DMR Due Date: 06/28/19
- Status: NetDMR Validated

Principal Executive Officer:
- First Name: Bryan
- Last Name: Bower
- Title: Director, USDOE-WVDP
- Telephone: 716-942-4368

No Data Indicator (NODI):
- Form NODI:

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<th>Quantity or Loading</th>
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<td>Effluent Net</td>
<td>2 0.086</td>
<td>9 - mg/L</td>
<td>01/30 - Monthly</td>
<td>CA - CALCTD</td>
<td>Value NODI</td>
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Submission Note:
- If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors:
- No errors.

Comments:

Attachments:
- Name: WVDP_May_2019_net_iron_calculation.pdf
- Type: pdf
- Size: 242031

Report Last Saved By:
- User: william.kean@chbwv.com
- Name: William Kean
- E-Mail: william.kean@chbwv.com
- Date/Time: 2019-06-18 14:04 (Time Zone: -04:00)

Report Last Signed By:
- User: janice.williams@chbwv.com
- Name: Janice Williams
- E-Mail: janice.williams@chbwv.com
- Date/Time: 2019-06-19 13:46 (Time Zone: -04:00)