**Conveyance of Contract Deliverables - West Valley Demonstration Project**

**Contract Number:** DE-EM0001529

**Conveyance Number:** 127-DLVR-110518

### Section 1 - Conveyance of Contract Deliverables

<table>
<thead>
<tr>
<th>DLVR #</th>
<th>TITLE OF DELIVERABLE</th>
<th>DESCRIPTION</th>
<th>DISPOSITION REQUESTED:</th>
</tr>
</thead>
<tbody>
<tr>
<td>127</td>
<td>State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Reports</td>
<td>Monitoring of discharges to river including sampling, analysis, data management and reporting</td>
<td>X Approval</td>
</tr>
</tbody>
</table>

This deliverable has been reviewed for sensitive information and has been marked accordingly. It is deemed to be accurate and correct, and is submitted according to contract specifications and applicable procedures.

**Contractor Letter Log Number:** WD:2018:1152

**Name:** Scott A. Anderson  
**Signature:** [Signature]

### Section 2 – Tracking and Disposition Management

**Action Assigned by DOE Lead/Cognizant Individual**

- Review and Comment (QP-410-01-F3 required)
- Concurrence Review (QP-410-01-F3 required)
- Information Only (no response required)

**Special Instructions or Comments:**

**Date of Document Conveyed**

**Section 3 – Response to Contractor**

**Name/Title of Action Authority:**

- Approved
- Conditionally Approved
- Disapproved
- Receipt Acknowledged
- Concur
- Non-concur
- Respond to Comments

**Signature of Action Authority**

**Date:**
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 October 1 through October 31, 2018 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

Attachments: A) SPDES DMR for October 1 – October 31, 2018
B) Email Confirmation from NYSDEC

cc: T. Taggart, DOE-EMCBC
    B. C. Bower, DOE-WVDP
    C. Chun, CHBWV
    T. D. Dogal, CHBWV
    L. K. Hollfelder, CHBWV
    W. N. Kean, CHBWV
    L. J. Ortega, CHBWV
    J. T. Pillittere, CHBWV (Public Reading Room)
    D. H. Pritchard, CHBWV
    J. E. Wangelin, CHBWV
    J. D. Williams, CHBWV
    Letter Log (B. Jeffery), CHBWV
    CHBWV OITS #1730380
Attachment A
SPDES DMR
### DMR Copy of Record

**Permit**
- **Permit #:** NY0000973
- **Permittee:** U.S. DEPT OF ENERGY
- **Facility:** WEST VALLEY DEMONSTRATION PROJ
- **Facility Location:** 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

**Permitted Feature:** 001 External Outfall
- **Discharge:** 001-M OUTFALL 001 MONTHLY PROC WW, GW, STORM

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

**Facility Location:**
10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799

**Status:** NetDMR Validated

### Considerations for Form Completion

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

**No Data Indicator (NODI)**
- **Form NODI:** --

### Report Dates & Status
- **Monitoring Period:** From 10/01/18 to 10/31/18
- **DMR Due Date:** 11/28/18
- **Status:** NetDMR Validated

### Form NODI:

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Monitoring Location</th>
<th>Parameter</th>
<th>Qualifier 1</th>
<th>Value 1</th>
<th>Qualifier 2</th>
<th>Value 2</th>
<th>Units</th>
<th>Qualifier 1</th>
<th>Value 1</th>
<th>Qualifier 2</th>
<th>Value 2</th>
<th>Qualifier 3</th>
<th>Value 3</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>00154</td>
<td>Sulfate [as S]</td>
<td>1 - Effluent Gross</td>
<td>Permit Req</td>
<td>Sample</td>
<td>Req Mon MO AVG</td>
<td>Req Mon DAILY MIX</td>
<td>19</td>
<td>mg/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>01/BA - Once Per Batch</td>
<td>24</td>
<td>COMP24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>00181</td>
<td>Oxygen demand, ultimate</td>
<td>1 - Effluent Gross</td>
<td>Permit Req</td>
<td>Sample</td>
<td>Req Mon MO AVG</td>
<td>&lt;= 22 DAILY MIX</td>
<td>19</td>
<td>mg/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>02/BA - Twice Per Batch</td>
<td>CA</td>
<td>CALC2D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>00300</td>
<td>Oxygen, dissolved [DO]</td>
<td>1 - Effluent Gross</td>
<td>Permit Req</td>
<td>Sample</td>
<td>&lt;= 3 MINIMUM</td>
<td>Req Mon MAXIMUM</td>
<td>19</td>
<td>mg/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>02/BA - Twice Per Batch</td>
<td>GR</td>
<td>GRAB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>00400</td>
<td>pH</td>
<td>1 - Effluent Gross</td>
<td>Permit Req</td>
<td>Sample</td>
<td>== 6.5 MINIMUM</td>
<td>&lt;= 8.5 MAXIMUM</td>
<td>19</td>
<td>mg/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>01/BA - Once Per Batch</td>
<td>GR</td>
<td>GRAB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>00530</td>
<td>Solids, total suspended</td>
<td>1 - Effluent Gross</td>
<td>Permit Req</td>
<td>Sample</td>
<td>&lt;= 30 MO AVG</td>
<td>&lt;= 45 DAILY MIX</td>
<td>19</td>
<td>mg/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>02/BA - Twice Per Batch</td>
<td>24</td>
<td>COMP24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>00545</td>
<td>Solids, settleable</td>
<td>1 - Effluent Gross</td>
<td>Permit Req</td>
<td>Sample</td>
<td>&lt;= 3 DAILY MIX</td>
<td>25</td>
<td>mL/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>02/BA - Twice Per Batch</td>
<td>GR</td>
<td>GRAB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>00550</td>
<td>Oil &amp; Grease</td>
<td>1 - Effluent Gross</td>
<td>Permit Req</td>
<td>Sample</td>
<td>&lt;= 15 DAILY MIX</td>
<td>19</td>
<td>mg/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>01/BA - Once Per Batch</td>
<td>GR</td>
<td>GRAB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>00615</td>
<td>Nitrogen, nitrite total [as N]</td>
<td>1 - Effluent Gross</td>
<td>Permit Req</td>
<td>Sample</td>
<td>&lt;= 1 DAILY MIX</td>
<td>19</td>
<td>mg/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>01/BA - Once Per Batch</td>
<td>GR</td>
<td>GRAB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>00620</td>
<td>Nitrogen, nitrate total [as N]</td>
<td>1 - Effluent Gross</td>
<td>Permit Req</td>
<td>Sample</td>
<td>&lt;= 1 DAILY MIX</td>
<td>19</td>
<td>mg/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>01/BA - Once Per Batch</td>
<td>GR</td>
<td>GRAB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>00625</td>
<td>Nitrogen, Kjeldahl, total [as N]</td>
<td>1 - Effluent Gross</td>
<td>Permit Req</td>
<td>Sample</td>
<td>&lt;= 1 DAILY MIX</td>
<td>19</td>
<td>mg/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>01/BA - Once Per Batch</td>
<td>GR</td>
<td>GRAB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>00746</td>
<td>Sulfide, dissolved, [as S]</td>
<td>1 - Effluent Gross</td>
<td>Permit Req</td>
<td>Sample</td>
<td>&lt;= 4 DAILY MIX</td>
<td>19</td>
<td>mg/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>01/BA - Once Per Batch</td>
<td>24</td>
<td>COMP24</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>00978</td>
<td>Americium, total recoverable</td>
<td>1 - Effluent Gross</td>
<td>Permit Req</td>
<td>Sample</td>
<td>&lt;= 15 DAILY MIX</td>
<td>19</td>
<td>mg/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>01/BA - Once Per Batch</td>
<td>24</td>
<td>COMP24</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>00979</td>
<td>Cobalt, total recoverable</td>
<td>1 - Effluent Gross</td>
<td>Permit Req</td>
<td>Sample</td>
<td>&lt;= 0.005 DAILY MIX</td>
<td>19</td>
<td>mg/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>01/BA - Once Per Batch</td>
<td>GR</td>
<td>GRAB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>00981</td>
<td>Selenium, total recoverable</td>
<td>1 - Effluent Gross</td>
<td>Permit Req</td>
<td>Sample</td>
<td>&lt;= 0.004 DAILY MIX</td>
<td>19</td>
<td>mg/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>01/BA - Once Per Batch</td>
<td>GR</td>
<td>GRAB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>01045</td>
<td>Iron, total [as Fe]</td>
<td>1 - Effluent Gross</td>
<td>Permit Req</td>
<td>Sample</td>
<td>&lt;= 19</td>
<td>19</td>
<td>mg/L</td>
<td>C - No Discharge</td>
<td>C - No Discharge</td>
<td>02/BA - Twice Per Batch</td>
<td>24</td>
<td>COMP24</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parameter</td>
<td>Units</td>
<td>Number of Excursions</td>
<td>Frequency of Analysis</td>
<td>Sample Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
<td>----------------------</td>
<td>----------------------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum (as Al)</td>
<td>-</td>
<td>2 MD AVG</td>
<td>4 DAILY MX</td>
<td>C - No Discharge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanadium (total recoverable)</td>
<td>-</td>
<td>0.14 DAILY MX</td>
<td>C - No Discharge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nitrogen (ammonia, total as NH3)</td>
<td>mg/L</td>
<td>1.5 MO AVG</td>
<td>2.1 DAILY MX</td>
<td>C - No Discharge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow, in conduit or thru treatment plant</td>
<td>MGD</td>
<td>1 DAILY MX</td>
<td>3 MGD</td>
<td>C - No Discharge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chlorine (total residual)</td>
<td>mg/L</td>
<td>0.01 DAILY MX</td>
<td>3M - ng/L</td>
<td>C - No Discharge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solids (total dissolved)</td>
<td>mg/L</td>
<td>1 DAILY MX</td>
<td>3 MGD</td>
<td>C - No Discharge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mercury (total as Hg)</td>
<td>ng/L</td>
<td>0.04 DAILY MX</td>
<td>3 MGD</td>
<td>C - No Discharge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surfactants (linear alkylate sulfonate)</td>
<td>mg/L</td>
<td>0.14 DAILY MX</td>
<td>3M - ng/L</td>
<td>C - No Discharge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</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
No 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: 2018-11-01 09:26 (Time Zone: -04:00)

Report Last Signed By
User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2018-11-05 08:19 (Time Zone: -05:00)
## DMR Copy of Record

### Permit

- **Permit #:** NY0000973
- **Permittee:** U.S. DEPT OF ENERGY
- **Facility:** WEST VALLEY DEMONSTRATION PROJ
- **Permittee Address:** 1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
- **Facility Location:** 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

### Permittee

- **Permit #:** NY0000973
- **Permittee:** U.S. DEPT OF ENERGY
- **Facility:** WEST VALLEY DEMONSTRATION PROJ
- **Permittee Address:** 1000 INDEPENDENCE AVE SW WASHINGTON, DC 20585
- **Facility Location:** 10282 ROCK SPRINGS ROAD WEST VALLEY, NY 14171-9799

### 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)

<table>
<thead>
<tr>
<th>Form NODI:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Parameter</strong></td>
</tr>
<tr>
<td><strong>Monitoring Location</strong></td>
</tr>
<tr>
<td><strong>Season #</strong></td>
</tr>
<tr>
<td><strong>Param. NODI</strong></td>
</tr>
<tr>
<td><strong>Quantity or Loading</strong></td>
</tr>
<tr>
<td><strong>Quality or Concentration</strong></td>
</tr>
<tr>
<td><strong># of Ex.</strong></td>
</tr>
<tr>
<td><strong>Frequency of Analysis</strong></td>
</tr>
<tr>
<td><strong>Sample Type</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Qualifier 1</th>
<th>Value 1</th>
<th>Qualifier 2</th>
<th>Value 2</th>
<th>Units</th>
<th>Qualifier 1</th>
<th>Value 1</th>
<th>Qualifier 2</th>
<th>Value 2</th>
<th>Qualifier 3</th>
<th>Value 3</th>
<th>Frequency of Analysis</th>
</tr>
</thead>
</table>
| 00181 | Oxygen demand, ultimate | Permit Req. | Reg Mon MO AVG <= 22 DAILY MAX 19 - mg/L | 01/30 - Monthly | CA - CA
d TD |
| 00300 | Oxygen, dissolved [DO] | Permit Req. | Reg Mon MO AVG <= 3 MINIMUM 19 - mg/L | 02/30 - Twice Per Month | GR - GRAB |
| 00310 | BOD, 5-day, 20 deg. C | Permit Req. | Reg Mon MO AVG <= 10 DAILY MAX 19 - mg/L | 02/30 - Twice Per Month | 24 - COMP24 |
| 00400 | pH | Permit Req. | <= 6.5 MINIMUM 19 - mg/L | 02/30 - Twice Per Month | 24 - COMP24 |
| 00530 | Solids, total suspended | Permit Req. | <= 30 MO AVG <= 45 DAILY MAX 19 - mg/L | 02/30 - Twice Per Month | 24 - COMP24 |
| 00545 | Solids, settleable | Permit Req. | <= 0.3 DAILY MAX 25 - mL/L | 02/30 - Twice Per Month | 24 - COMP24 |
| 00615 | Nitrogen, nitrite total [as N] | Permit Req. | <= 0.1 DAILY MAX 19 - mg/L | 01/30 - Monthly | 24 - COMP24 |
| 00625 | Nitrogen, Kjeldahl, total [as N] | Permit Req. | <= 1.49 MO AVG <= 2.1 DAILY MAX 19 - mg/L | 01/30 - Monthly | 24 - COMP24 |

### 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.
<table>
<thead>
<tr>
<th>Report Last Saved By</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>User:</td>
<td><a href="mailto:william.kean@chbwv.com">william.kean@chbwv.com</a></td>
</tr>
<tr>
<td>Name:</td>
<td>William Kean</td>
</tr>
<tr>
<td>E-Mail:</td>
<td><a href="mailto:william.kean@chbwv.com">william.kean@chbwv.com</a></td>
</tr>
<tr>
<td>Date/Time:</td>
<td>2018-11-01 09:26 (Time Zone: -04:00)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Report Last Signed By</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>User:</td>
<td><a href="mailto:janice.williams@chbwv.com">janice.williams@chbwv.com</a></td>
</tr>
<tr>
<td>Name:</td>
<td>Janice Williams</td>
</tr>
<tr>
<td>E-Mail:</td>
<td><a href="mailto:janice.williams@chbwv.com">janice.williams@chbwv.com</a></td>
</tr>
<tr>
<td>Date/Time:</td>
<td>2018-11-05 08:19 (Time Zone: -05:00)</td>
</tr>
</tbody>
</table>
## DMR Copy of Record

**Permit**

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

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

**Facility Location:**
- 10282 ROCK SPRINGS ROAD
- WEST VALLEY, NY 14171-9799

**Permitted Feature:** 01B Internal Outfall

**Discharge:**
- 01B-M MERCURY PRETREATMENT

**Report Dates & Status**

- Monitoring Period: From 10/01/18 to 10/31/18
- DMR Due Date: 11/28/18
- Status: NetDMR Validated

### Considerations for Form Completion

**Principal Executive Officer**

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

### No Data Indicator (NODI)

**Parameter** | Monitoring Location | Season # | Code | Name | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units |
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
Flow rate | Effluent Gross | 0 | 00056 | Flow rate | Permit Req. | Req Mon MD AVG | Req Mon DAILY MX 07 - paid | 21/07 - Weekly | CN - CONTIN |
Mercury, total [as Hg] | Effluent Gross | 0 | 71900 | Mercury, total [as Hg] | Permit Req. | Req Mon MD AVG | Req Mon DAILY MX 07 - paid | 22/BA - Twice Per Batch | GR - GRAB |

**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

No comments.

### Attachments

No attachments.

**Report Last Saved By**

- User: william.kean@chbwv.com
- Name: William Kean
- E-Mail: william.kean@chbwv.com
- Date/Time: 2018-11-01 09:26 (Time Zone: -04:00)

**Report Last Signed By**

- User: janice.williams@chbwv.com
- Name: Janice Williams
- E-Mail: janice.williams@chbwv.com
- Date/Time: 2018-11-05 08:19 (Time Zone: -05:00)
Permit
Permit #: NY0000973
Permittee: U.S. DEPT OF ENERGY
Facility: WEST VALLEY DEMONSTRATION PROJ
Permittee Address: 1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585
Facility Location: 10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799
Permitted Feature: 116
Internal Outfall
Discharge: 116-M
PSEUDO MON. POINT @FRANKS CRK
Status: NetDMR Validated
Report Dates & Status
Monitoring Period: From 10/01/18 to 10/31/18
DMR Due Date: 11/28/18
Considerations for Form Completion
IF PSUEDO MONITORING POINT REPORT IS NOT REQUIRED DURING THE MONITORING PERIOD, EITHER CHECK THENO DISCHARGE BOX OR ENTER 'NODI A' IN PLACE OF A MEASUREMENT TO INDICATE A GENERAL PERMIT EXEMPTION.
Principal Executive Officer
First Name: Bryan C.
Last Name: Bower
Title: Director, USDOE-WVDP
Telephone: 716-942-4368
No Data Indicator (NODI)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Monitoring Location</th>
<th>Season #</th>
<th>Code</th>
<th>Name</th>
<th>Qualifier 1</th>
<th>Value 1</th>
<th>Qualifier 2</th>
<th>Value 2</th>
<th>Qualifier 3</th>
<th>Value 3</th>
<th>Units</th>
<th>Frequency of Analysis</th>
<th>Sample Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solids, total dissolved</td>
<td>Instream Monitoring</td>
<td>Z</td>
<td>70295</td>
<td>Solids</td>
<td>Permit Req</td>
<td>Req Min MD AVG</td>
<td>CA - CALCTD</td>
<td>500 Daly MX</td>
<td>10 - mg/L</td>
<td>02/DS - Twice Per Discharge</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</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
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: 2018-11-01 09:26 (Time Zone: -04:00)
Report Last Signed By
User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2018-11-05 08:19 (Time Zone: -05:00)
DMR Copy of Record

Permit
Permit #: NY0000973
Permittee: U.S. DEPT OF ENERGY
Facility: WEST VALLEY DEMONSTRATION PROJ
Major: Yes
Permit Address: 1000 INDEPENDENCE AVE SW
WASHINGTON, DC 20585
Permittee Address: 10282 ROCK SPRINGS ROAD
WEST VALLEY, NY 14171-9799
Permitted Feature: SUM Internal Outfall
Discharge: SUM-N
Facility Location: SUM OF OUTFALLS 1 & 7

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Parameter</th>
<th>Monitoring Location</th>
<th>Season #</th>
<th>Param. NODI</th>
</tr>
</thead>
<tbody>
<tr>
<td>01045</td>
<td>Iron, total [as Fe]</td>
<td>Effluent Net</td>
<td>2</td>
<td>--</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sample</td>
<td></td>
<td>Qualifier 1 Value 1 Qualifier 2 Value 2 Units Qualifier 1 Value 1 Qualifier 2 Value 2 Units Qualifier 1 Value 1 Qualifier 2 Value 2 Units Qualifier 1 Value 1 Qualifier 2 Value 2 Units</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Req Min MD AVM &lt; 4</td>
<td>1 DAILY MX</td>
<td>10 - mg/L</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Value NODI</td>
<td></td>
<td>CA - CALCTD</td>
</tr>
</tbody>
</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

Attachments

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>WVDP_October_2018_Net_Iron_Calculation.pdf</td>
<td>pdf</td>
<td>30843</td>
</tr>
</tbody>
</table>

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: 2018-11-01 09:35 (Time Zone: -04:00)

Report Last Signed By
User: janice.williams@chbwv.com
Name: Janice Williams
E-Mail: janice.williams@chbwv.com
Date/Time: 2018-11-05 08:19 (Time Zone: -05:00)
ATTACHMENT

SPDES DISCHARGE MONITORING REPORT - OCTOBER 1 THROUGH OCTOBER 31, 2018

NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

OUTFALL 001
\[ M_1 = \frac{(X_1 + X_2) V_1}{2} = 0 \text{ mg/month} \]
\[ X_1 = 0.00 \text{ mg/L} \]
\[ X_2 = 0.00 \text{ mg/L} \]
\[ V_1 = 0.00 \text{ L/month} \]

Note: There was no discharge from outfall 001 during this monitoring period.

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

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

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

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
\[ \frac{M_1 + M_7 - MRW}{V_1 + V_7} = 0.00 \text{ mg/L} \]
The following signed 5 DMR(s) were submitted to EPA and were successfully processed:

CDX Transaction ID: _d6bc8913-b840-42c1-ac2e-99ff285bc077
User ID: janice.williams@chbwv.com
Timestamp: 11/05/2018 08:19:07

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 001 Discharge: M - OUTFALL 001 MONTHLY PROC WW, GW, STORM Monitoring Period End Date: 10/31/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 007 Discharge: M - SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER Monitoring Period End Date: 10/31/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 01B Discharge: M - MERCURY PRETREATMENT Monitoring Period End Date: 10/31/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: 116 Discharge: M - PSEUDO MON. POINT @FRANKS CRK Monitoring Period End Date: 10/31/18

Permitted Facility Name: WEST VALLEY DEMONSTRATION PROJ Permit ID: NY0000973 Permitted Feature: SUM Discharge: N - SUM OF OUTFALLS 1 & 7 Monitoring Period End Date: 10/31/18

Thank you.

This is a submission from the LIVE (Production) site.