

# CH2MHILL • BWXT West Valley, LLC

*West Valley Demonstration Project*

Ms. Angela M. Cooney, Contracting Officer  
U.S. Department of Energy  
550 Main St., Room 7-010  
Cincinnati, OH 45202

AC-PRES  
WD:2021:0593  
July 20, 2021

SUBJECT: Contract No. DE-EM0001529, Section J-3, Item 127, State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period June 1 through June 30, 2021, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for January 1, 2021 through June 30, 2021

REFERENCE: 1) Letter WR:2013:0033, John Rendall to Mark Jackson, "Notification of Changes to the West Valley Demonstration Project (WVDP) Wastewater Generation Activities in Accordance with 6 NYCRR 750-2.6(c); State Pollutant Discharge Elimination System (SPDES) Permit No. NY-0000973, U.S. Department of Energy (DOE), West Valley Demonstration Project (WVDP)," dated August 13, 2013

Dear Ms. Cooney:

This letter is submitted for Contracting Officer Representative's approval to inform you that the SPDES DMR for the reporting period June 1 through June 30, 2021 including the Total Dissolved Solids (TDS) and the Net Iron calculation sheets have been submitted electronically. A copy of this submittal is attached.

Also attached are the results of the storm water monitoring for the period of January 1, 2021 through June 30, 2021.

If you have any questions, please contact William Kean at (716) 942-4865 or cell phone (716) 946-8825 or Elizabeth Lowes at (716) 481-0429 if you have any questions.

Sincerely,

Approval Obtained Electronically

John D. Rendall  
President & General Manager

JDR:WNK:bnj

Attachments: A) SPDES DMR for June 1 through June 30, 2021 Monitoring Period  
B) Storm Water Discharge Monitoring Results for January 1 through June 30, 2021 Monitoring Period  
C) CHBWV Environmental Certification

cc: B. C. Bower, DOE-WVDP  
C. Chun, CHBWV  
L. K. Hollfelder, CHBWV  
W. N. Kean, CHBWV  
D. P. Klenk, CHBWV  
E. A. Lowes, CHBWV  
J. K. Mantione, CHBWV  
J. T. Pillittere, CHBWV (Public Reading Room)  
M. A. Rodges, CHBWV  
R. E. Steiner, CHBWV  
T. Stapleton, CHBWV  
K. A. Wooley, CHBWV  
Letter Log (B. Jeffery), CHBWV  
CHBWV OITS #2030154

**Attachment A**

**SPDES DMR for June 1 – 30, 2021**

## SYNOPSIS

### **State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period June 1 through June 30, 2021, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for January 1, 2021 through June 30, 2021**

The SPDES DMR for the June 1 through June 30, 2021 Monitoring Period is provided as Attachment A. There were discharges at outfall 001-M, 116-M, and Sum-N during the monitoring period of June 1, 2021 through June 30, 2021. Please also note that there were also discharges at outfall 001-S during the monitoring period of January 1, 2021 through June 30, 2021 as denoted on the specific Discharge Monitoring Reports (DMR).

In addition, CHBWV is also submitting, for your use the analytical results and data for the semi-annual storm water monitoring period of January 1, 2021 through June 30, 2021 as Attachment B. All storm water sampling results were within applicable limits specified on page 14 of 31 of the SPDES permit for oil & grease.

Storm water samples were collected on April 29, May 25, June 14, and June 21, 2021. The on-site pH measured near the site's rain gauge on each of these dates was: 6.6 SU; 5.6 SU; 8.1 SU; and 8.0 SU, respectively.

Storm water sampling that was conducted on June 21, at outfalls S06, S42 and S43 (Pb) although the duration between the storm events was less than the requisite 72 hours as normally required, however the end of the monitoring was coming to an end and the outfalls had returned to base flow conditions prior to the time of sampling that occurred on June 21, 2021.

In addition, semi-annual lead sampling was completed on June 21, 2021 at storm water outfall S43 located at the Live Fire Range with reported result of 0.003 mg/L with an action level of 0.006 mg/L.

Please note that, in accordance with the Schedule of Compliance sampling requirements contained on page 23 of 31 of the SPDES permit for Paraquat Dichloride Herbicide (Gramoxone Extra), the site used herbicides onsite on June 6-8, 2021 and therefore, storm water outfalls that could be affected were sampled for Paraquat Dichloride on July 14 and July 21, 2021 during the second semi-annual monitoring period.

| OUTFALL | DATE    | PARAMETER           | RESULT   | UNITS |
|---------|---------|---------------------|----------|-------|
| S04     | 6/21/21 | Paraquat Dichloride | < 0.0004 | mg/L  |
| S06     | 6/21/21 | Paraquat Dichloride | < 0.0004 | mg/L  |
| S09     | 6/14/21 | Paraquat Dichloride | < 0.0004 | mg/L  |
| S12     | 6/21/21 | Paraquat Dichloride | < 0.0004 | mg/L  |
| S17     | 6/21/21 | Paraquat Dichloride | < 0.0004 | mg/L  |
| S20     | 6/21/21 | Paraquat Dichloride | <0.0004  | mg/L  |
| 001     | 6/21/21 | Paraquat Dichloride | <0.0004  | mg/L  |

**SPDES DISCHARGE MONITORING REPORT - JUNE 1 THROUGH JUNE 30, 2021**  
**NET IRON EFFLUENT CONCENTRATION CALCULATION**  
**WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973**

$$\text{OUTFALL 001} = M1 = \frac{(X1 + X2) V1}{2} = 824046.91 \text{ mg/month}$$

$$X1 = 0.0771 \text{ mg/L}$$

$$X2 = 0.188 \text{ mg/L}$$

$$V1 = 6216875.98 \text{ L/month}$$

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$$\text{OUTFALL 007} = M7 = \frac{(X1 + X2) V7}{2} = 0.00 \text{ mg/month}$$

$$X1 = 0.000 \text{ mg/L}$$

$$X2 = 0.000 \text{ mg/L}$$

$$V7 = 0.00 \text{ L/month}$$

\*Note: There was no discharge at outfall 007 during this monitoring period.

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$$\text{RAW WATER} = \text{MRW} = \frac{(X1 + X2 + X3 + X4) \text{VRW}}{4} = 0.00 \text{ mg/month}$$

$$X1 = 0.000 \text{ mg/L}$$

$$X2 = 0.000 \text{ mg/L}$$

$$X3 = 0.000 \text{ mg/L}$$

$$X4 = 0.000 \text{ mg/L}$$

$$\text{VRW} = 0.00 \text{ L/month}$$

$$\text{IRON DISCHARGE CONCENTRATION} = \frac{M1 + M7 - \text{MRW}}{V1 + V7} = 0.13 \text{ mg/L}$$

ATTACHMENT (Cont=d)

SPDES DISCHARGE MONITORING REPORT - JUNE 1 THROUGH JUNE 30, 2021  
TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION - MONITORING POINT 116  
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973

Date: June 16, 2021

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.206 \text{ MGD})(978 \text{ mg/L}) + (0.000 \text{ MGD})(781 \text{ mg/L}) + (0.418 \text{ MGD})(145 \text{ mg/L})) / (0.624 \text{ MGD}) \\ &= 420 \text{ mg/L} \end{aligned}$$

TDS result was above 500 mg/L and therefore Q2 & C2 were not included.

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Date: June 21, 2021

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= (0.206 \text{ MGD})(866 \text{ mg/L}) + (0.042 \text{ MGD})(234 \text{ mg/L}) + (0.418 \text{ MGD})(115 \text{ mg/L}) / 0.665 \text{ MGD} \\ &= 355 \text{ mg/L} \end{aligned}$$

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- |    |    |                                                                                                                            |
|----|----|----------------------------------------------------------------------------------------------------------------------------|
| 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).                                |

DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permitted Feature:

001  
External Outfall

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Discharge:

001-M  
OUTFALL 001 MONTHLY PROC WW, GW, STORM

Facility:

WEST VALLEY DEMONSTRATION PROJ

Facility Location:

10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799

Report Dates & Status

Monitoring Period:

From 06/01/21 to 06/30/21

DMR Due Date:

07/28/21

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:

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| 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     |                         |                        |             |
| 00154     | Sulfate [as S]                   | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       |                          |         | =           | 69.0              | =             | 69.0             | 19 - mg/L | 0                       | 01/BA - Once Per Batch | 24 - COMP24 |
|           |                                  |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG    |               | Req Mon DAILY MX | 19 - mg/L |                         |                        |             |
|           |                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                   |               |                  |           |                         |                        |             |
| 00181     | Oxygen demand, ultimate          | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       |                          | <       | 5.06        | <                 | 5.33          | 19 - mg/L        | 0         | 02/BA - Twice Per Batch | CA - CALCTD            |             |
|           |                                  |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG <= |               | 22.0 DAILY MX    | 19 - mg/L |                         |                        |             |
|           |                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                   |               |                  |           |                         |                        |             |
| 00300     | Oxygen, dissolved [DO]           | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         | =     | 6.4                      |         | =           | 6.9               |               | 19 - mg/L        | 0         | 02/BA - Twice Per Batch | GR - GRAB              |             |
|           |                                  |                     |          |             | Permit Req. |                     |         |             |         | >=    | 3.0 MINIMUM              |         |             | Req Mon MAXIMUM   |               | 19 - mg/L        |           |                         |                        |             |
|           |                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                   |               |                  |           |                         |                        |             |
| 00310     | BOD, 5-day, 20 deg. C            | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       | <                        | 2.0     | <           | 2.0               |               | 19 - mg/L        | 0         | 02/BA - Twice Per Batch | 24 - COMP24            |             |
|           |                                  |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG <= |               | 10.0 DAILY MX    | 19 - mg/L |                         |                        |             |
|           |                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                   |               |                  |           |                         |                        |             |
| 00400     | pH                               | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         | =     | 8.0                      |         | =           | 8.0               |               | 12 - SU          | 0         | 01/BA - Once Per Batch  | GR - GRAB              |             |
|           |                                  |                     |          |             | Permit Req. |                     |         |             |         | >=    | 6.5 MINIMUM              |         |             | <=                | 8.5 MAXIMUM   | 12 - SU          |           |                         |                        |             |
|           |                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                   |               |                  |           |                         |                        |             |
| 00530     | Solids, total suspended          | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       | <                        | 5.8     | =           | 7.6               |               | 19 - mg/L        | 0         | 02/BA - Twice Per Batch | 24 - COMP24            |             |
|           |                                  |                     |          |             | Permit Req. |                     |         |             |         |       |                          | <=      | 30.0 MO AVG | <=                | 45.0 DAILY MX | 19 - mg/L        |           |                         |                        |             |
|           |                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                   |               |                  |           |                         |                        |             |
| 00545     | Solids, settleable               | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       | <                        | 0.1     | <           | 0.1               |               | 25 - mL/L        | 0         | 02/BA - Twice Per Batch | GR - GRAB              |             |
|           |                                  |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG <= |               | 0.3 DAILY MX     | 25 - mL/L |                         |                        |             |
|           |                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                   |               |                  |           |                         |                        |             |
| 00556     | Oil & Grease                     | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       | <                        | 1.5     | <           | 1.5               |               | 19 - mg/L        | 0         | 01/BA - Once Per Batch  | GR - GRAB              |             |
|           |                                  |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG <= |               | 15.0 DAILY MX    | 19 - mg/L |                         |                        |             |
|           |                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                   |               |                  |           |                         |                        |             |
| 00615     | Nitrogen, nitrite total [as N]   | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       | =                        | 0.04    | =           | 0.04              |               | 19 - mg/L        | 0         | 01/BA - Once Per Batch  | 24 - COMP24            |             |
|           |                                  |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG <= |               | 0.1 DAILY MX     | 19 - mg/L |                         |                        |             |
|           |                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                   |               |                  |           |                         |                        |             |
| 00620     | Nitrogen, nitrate total [as N]   | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       | <                        | 0.02    | <           | 0.02              |               | 19 - mg/L        | 0         | 01/BA - Once Per Batch  | 24 - COMP24            |             |
|           |                                  |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG    |               | Req Mon DAILY MX | 19 - mg/L |                         |                        |             |
|           |                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                   |               |                  |           |                         |                        |             |
| 00625     | Nitrogen, Kjeldahl, total [as N] | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       | =                        | 0.45    | =           | 0.51              |               | 19 - mg/L        | 0         | 02/BA - Twice Per Batch | 24 - COMP24            |             |
|           |                                  |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG    |               | Req Mon DAILY MX | 19 - mg/L |                         |                        |             |
|           |                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                   |               |                  |           |                         |                        |             |
| 00746     | Sulfide, dissolved, [as S]       | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       | <                        | 0.03    | <           | 0.03              |               | 19 - mg/L        | 0         | 01/BA - Once Per Batch  | 24 - COMP24            |             |
|           |                                  |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG <= |               | 0.4 DAILY MX     | 19 - mg/L |                         |                        |             |
|           |                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                   |               |                  |           |                         |                        |             |
| 00978     | Arsenic, total recoverable       | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       | =                        | 0.0015  | =           | 0.0015            |               | 19 - mg/L        | 0         | 01/BA - Once Per Batch  | 24 - COMP24            |             |
|           |                                  |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG <= |               | 0.15 DAILY MX    | 19 - mg/L |                         |                        |             |
|           |                                  |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                   |               |                  |           |                         |                        |             |



DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

Facility Location:

10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799

Permitted Feature:

001  
External Outfall

Discharge:

001-S  
OUTFALL 001 SEMI-ANNUAL

Report Dates & Status

Monitoring Period:

From 01/01/21 to 06/30/21

DMR Due Date:

07/28/21

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:

--

| 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     |                       |                        |             |
| 00722     | Cyanide, free [amen. to chlorination] | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       |                          |         | <           | 0.005          | <           | 0.005            | 19 - mg/L | 0                     | 02/YR - Twice Per Year | GR - GRAB   |
|           |                                       |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG | <=          | 0.005 DAILY MX   | 19 - mg/L |                       | 02/YR - Twice Per Year | GR - GRAB   |
|           |                                       |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                |             |                  |           |                       |                        |             |
| 01055     | Manganese, total [as Mn]              | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       |                          |         | =           | 0.007          | =           | 0.007            | 19 - mg/L | 0                     | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                                       |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG | <=          | 2.0 DAILY MX     | 19 - mg/L |                       | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                                       |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                |             |                  |           |                       |                        |             |
| 01067     | Nickel, total [as Ni]                 | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       |                          |         | =           | 0.0013         | =           | 0.0013           | 19 - mg/L | 0                     | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                                       |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG | <=          | 0.079 DAILY MX   | 19 - mg/L |                       | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                                       |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                |             |                  |           |                       |                        |             |
| 01094     | Zinc, total recoverable               | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       |                          |         | =           | 0.0035         | =           | 0.0035           | 19 - mg/L | 0                     | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                                       |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG | <=          | 0.13 DAILY MX    | 19 - mg/L |                       | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                                       |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                |             |                  |           |                       |                        |             |
| 01114     | Lead, total recoverable               | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       |                          |         | <           | 0.0002         | <           | 0.0002           | 19 - mg/L | 0                     | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                                       |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG | <=          | 0.006 DAILY MX   | 19 - mg/L |                       | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                                       |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                |             |                  |           |                       |                        |             |
| 01118     | Chromium, total recoverable           | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       |                          |         | =           | 0.00058        | =           | 0.00058          | 19 - mg/L | 0                     | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                                       |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG | <=          | 0.11 DAILY MX    | 19 - mg/L |                       | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                                       |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                |             |                  |           |                       |                        |             |
| 01119     | Copper, total recoverable             | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       |                          |         | =           | 0.00085        | =           | 0.00085          | 19 - mg/L | 0                     | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                                       |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG | <=          | 0.014 DAILY MX   | 19 - mg/L |                       | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                                       |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                |             |                  |           |                       |                        |             |
| 39410     | Heptachlor                            | 1 - Effluent Gross  | 0        | --          | Sample      |                     |         |             |         |       |                          |         | <           | 0.006          | <           | 0.006            | 28 - ug/L | 0                     | 02/YR - Twice Per Year | GR - GRAB   |
|           |                                       |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         | <=          | 0.01 MO AVG    |             | Req Mon DAILY MX | 28 - ug/L |                       | 02/YR - Twice Per Year | GR - GRAB   |
|           |                                       |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                |             |                  |           |                       |                        |             |

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

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by the CHBWV wastewater treatment plant operators is 0.01 mg/L.

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:                   | 2021-07-20 07:47 (Time Zone: -04:00) |
| <i>Report Last Signed By</i> |                                      |
| User:                        | ELIZABETH.LOWES@CHBWV.COM            |
| Name:                        | Elizabeth Lowes                      |
| E-Mail:                      | elizabeth.lowes@chbwv.com            |
| Date/Time:                   | 2021-07-20 15:46 (Time Zone: -04:00) |

DMR Copy of Record

Permit

Permit #:NY0000973

Major:Yes

Permitted Feature:001  
External Outfall

Permittee:U.S. DEPT OF ENERGY

Permittee Address:1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Discharge:001-V  
OUTFALL 001 ACTION LEVELS SEMI-ANNUAL

Facility:WEST VALLEY DEMONSTRATION PROJ

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

Report Dates & Status

Monitoring Period:From 01/01/21 to 06/30/21

DMR Due Date:07/28/21

Status:NetDMR Validated

Considerations for Form Completion

SEE PERMIT FOR REPORTING REQUIREMENTS

Principal Executive Officer

First Name:Bryan C.

Last Name:Bower

Title:Director, USDOE-WVDP

Telephone:716-942-4368

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     |                       |                        |             |
| 01022     | Boron, total [as B]     | V - See Comments    | 0        | --          | Sample      |                     |         |             |         |       |                          |         |             |         | =           | 0.035         | 19 - mg/L | 0                     | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                         |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             |         | <=          | 2.0 DAILY MX  | 19 - mg/L |                       | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                         |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |         |             |               |           |                       |                        |             |
| 01152     | Titanium, total [as Ti] | V - See Comments    | 0        | --          | Sample      |                     |         |             |         |       |                          |         |             |         | <           | 0.0011        | 19 - mg/L | 0                     | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                         |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             |         | <=          | 0.65 DAILY MX | 19 - mg/L |                       | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                         |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |         |             |               |           |                       |                        |             |
| 71870     | Bromide [as Br]         | V - See Comments    | 0        | --          | Sample      |                     |         |             |         |       |                          |         |             |         | <           | 0.37          | 19 - mg/L | 0                     | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                         |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             |         | <=          | 5.0 DAILY MX  | 19 - mg/L |                       | 02/YR - Twice Per Year | 24 - COMP24 |
|           |                         |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |         |             |               |           |                       |                        |             |

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

As required in Title 6 of the New York State Codes, Rules, and Regulations 6NYCRR, Part 750-2(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for Laboratories performing analysis for the WVDP DMR's are as follows: 1) TestAmerica: NY Lab No. 10026; and 2) General Engineering Laboratory: NY Lab No. 11501. Also, NYCRR Part 750-2(e)(3) requires reporting of Method Detection Limits (MDLs) where monitoring is not performed under ELAP. To that end, the MDL for Total Residual Chlorine analysis, performed by the CHBWV wastewater treatment plant operators is 0.01 mg/L.

Attachments

No attachments.

Report Last Saved By

U.S. DEPT OF ENERGY

User:william.kean@chbvv.com

Name:William Kean

E-Mail:william.kean@chbvv.com

Date/Time:2021-07-20 07:47 (Time Zone: -04:00)

Report Last Signed By

User:ELIZABETH.LOWES@CHBWV.COM

Name:Elizabeth Lowes

E-Mail:elizabeth.lowes@chbvv.com

Date/Time:2021-07-20 15:46 (Time Zone: -04:00)

DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

Facility Location:

10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799

Permitted Feature:

007  
External Outfall

Discharge:

007-M  
SANITARY, NC COOLING WATER, UTILITY WASTEWATER, STORMWATER

Report Dates & Status

Monitoring Period:

From 06/01/21 to 06/30/21

DMR Due Date:

07/28/21

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:

--

| 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     |          |                         |             |
| 00181     | Oxygen demand, ultimate                  | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |          |                          |                  |             |                  |             |                  |           |          | 01/30 - Monthly         | CA - CALCTD |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |          |                          |                  |             | Req Mon MO AVG   | <=          | 22.0 DAILY MX    | 19 - mg/L |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |          |                          |                  |             | C - No Discharge |             | C - No Discharge |           |          |                         |             |
| 00300     | Oxygen, dissolved [DO]                   | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |          |                          |                  |             |                  |             |                  |           |          | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |          | >=                       | 3.0 MINIMUM      |             |                  |             | Req Mon MAXIMUM  | 19 - mg/L |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |          |                          | C - No Discharge |             |                  |             | C - No Discharge |           |          |                         |             |
| 00310     | BOD, 5-day, 20 deg. C                    | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |          |                          |                  |             |                  |             |                  |           |          | 02/30 - Twice Per Month | 24 - COMP24 |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |          |                          |                  |             | Req Mon MO AVG   | <=          | 10.0 DAILY MX    | 19 - mg/L |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |          |                          |                  |             | C - No Discharge |             | C - No Discharge |           |          |                         |             |
| 00400     | pH                                       | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |          |                          |                  |             |                  |             |                  |           |          | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |          | >=                       | 6.5 MINIMUM      |             |                  | <=          | 8.5 MAXIMUM      | 12 - SU   |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |          |                          | C - No Discharge |             |                  |             | C - No Discharge |           |          |                         |             |
| 00530     | Solids, total suspended                  | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |          |                          |                  |             |                  |             |                  |           |          | 02/30 - Twice Per Month | 24 - COMP24 |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |          |                          |                  | <=          | 30.0 MO AVG      | <=          | 45.0 DAILY MX    | 19 - mg/L |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |          |                          |                  |             | C - No Discharge |             | C - No Discharge |           |          |                         |             |
| 00545     | Solids, settleable                       | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |          |                          |                  |             |                  |             |                  |           |          | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |          |                          |                  |             | Req Mon MO AVG   | <=          | 0.3 DAILY MX     | 25 - mL/L |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |          |                          |                  |             | C - No Discharge |             | C - No Discharge |           |          |                         |             |
| 00556     | Oil & Grease                             | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |          |                          |                  |             |                  |             |                  |           |          | 02/30 - Twice Per Month | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |          |                          |                  |             | Req Mon MO AVG   | <=          | 15.0 DAILY MX    | 19 - mg/L |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |          |                          |                  |             | C - No Discharge |             | C - No Discharge |           |          |                         |             |
| 00615     | Nitrogen, nitrite total [as N]           | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |          |                          |                  |             |                  |             |                  |           |          | 01/30 - Monthly         | 24 - COMP24 |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |          |                          |                  |             | Req Mon MO AVG   | <=          | 0.1 DAILY MX     | 19 - mg/L |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |          |                          |                  |             | C - No Discharge |             | C - No Discharge |           |          |                         |             |
| 00625     | Nitrogen, Kjeldahl, total [as N]         | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |          |                          |                  |             |                  |             |                  |           |          | 01/30 - Monthly         | 24 - COMP24 |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |          |                          |                  |             | Req Mon MO AVG   |             | Req Mon DAILY MX | 19 - mg/L |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |          |                          |                  |             | C - No Discharge |             | C - No Discharge |           |          |                         |             |
| 01045     | Iron, total [as Fe]                      | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |          |                          |                  |             |                  |             |                  |           |          | 02/30 - Twice Per Month | 24 - COMP24 |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |          |                          |                  |             | Req Mon MO AVG   |             | Req Mon DAILY MX | 19 - mg/L |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |          |                          |                  |             | C - No Discharge |             | C - No Discharge |           |          |                         |             |
| 34726     | Nitrogen, ammonia, total [as NH3]        | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |          |                          |                  |             |                  |             |                  |           |          | 02/30 - Twice Per Month | 24 - COMP24 |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |          |                          |                  | <=          | 1.49 MO AVG      | <=          | 2.1 DAILY MX     | 19 - mg/L |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |          |                          |                  |             | C - No Discharge |             | C - No Discharge |           |          |                         |             |
| 50050     | Flow, in conduit or thru treatment plant | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |          |                          |                  |             |                  |             |                  |           |          | 01/30 - Monthly         | CN - CONTIN |
|           |                                          |                     |          |             | Permit Req. |                     | Req Mon MO AVG   |             | Req Mon DAILY MX | 03 - MGD |                          |                  |             |                  |             |                  |           |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     | C - No Discharge |             | C - No Discharge |          |                          |                  |             |                  |             |                  |           |          |                         |             |
| 50060     | Chlorine, total residual                 | 1 - Effluent Gross  | 0        | --          | Sample      |                     |                  |             |                  |          |                          |                  |             |                  |             |                  |           |          | 01/30 - Monthly         | GR - GRAB   |
|           |                                          |                     |          |             | Permit Req. |                     |                  |             |                  |          |                          |                  |             | Req Mon MO AVG   | <=          | 0.1 DAILY MX     | 19 - mg/L |          |                         |             |
|           |                                          |                     |          |             | Value NODI  |                     |                  |             |                  |          |                          |                  |             | C - No Discharge |             | C - No Discharge |           |          |                         |             |



DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

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 06/01/21 to 06/30/21

DMR Due Date:

07/28/21

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:

--

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:

2021-07-20 07:47 (Time Zone: -04:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2021-07-20 15:46 (Time Zone: -04:00)

DMR Copy of Record

Permit

Permit #:  
Major:

NY0000973  
Yes

Permittee:  
Permittee Address:

U.S. DEPT OF ENERGY  
1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:  
Facility Location:

WEST VALLEY DEMONSTRATION PROJ  
10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799

Permitted Feature:

116  
Internal Outfall

Discharge:

116-M  
PSEUDO MON. POINT @FRANKS CRK

Report Dates & Status

Monitoring Period:

From 06/01/21 to 06/30/21

DMR Due Date:

07/28/21

Status:

NetDMR Validated

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:  
Last Name:

Bryan C.  
Bower

Title:

Director, USDOE-WVDP

Telephone:

716-942-4368

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     |                       |                             |             |
| 70295     | Solids, total dissolved | Z - Instream Monitoring | 0        | --          | Sample      |                     |         |             |         |       |                          |         | =           | 388.0          | =           | 420.0          | 19 - mg/L | 0                     | 02/DS - Twice Per Discharge | CA - CALCTD |
|           |                         |                         |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG | <=          | 500.0 DAILY MX | 19 - mg/L |                       | 02/DS - Twice Per Discharge | CA - CALCTD |
|           |                         |                         |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                |             |                |           |                       |                             |             |

Submission Note

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Edit Check Errors

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Comments

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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:

2021-07-20 07:47 (Time Zone: -04:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2021-07-20 15:46 (Time Zone: -04:00)

DMR Copy of Record

Permit

Permit #:

NY0000973

Major:

Yes

Permittee:

U.S. DEPT OF ENERGY

Permittee Address:

1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585

Facility:

WEST VALLEY DEMONSTRATION PROJ

Facility Location:

10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799

Permitted Feature:

SUM  
Internal Outfall

Discharge:

SUM-N  
SUM OF OUTFALLS 1 & 7

Report Dates & Status

Monitoring Period:

From 06/01/21 to 06/30/21

DMR Due Date:

07/28/21

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:

--

| 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     |          |                       |             |
| 01045     | Iron, total [as Fe] | 2 - Effluent Net    | 0        | --          | Sample      |                     |         |             |         |       |                          |         | =           | 0.13           | =           | 0.13         | 19 - mg/L | 0        | 01/30 - Monthly       | CA - CALCTD |
|           |                     |                     |          |             | Permit Req. |                     |         |             |         |       |                          |         |             | Req Mon MO AVG | <=          | 1.0 DAILY MX | 19 - mg/L |          | 01/30 - Monthly       | CA - CALCTD |
|           |                     |                     |          |             | Value NODI  |                     |         |             |         |       |                          |         |             |                |             |              |           |          |                       |             |

Submission Note

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Edit Check Errors

No errors.

Comments

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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:

2021-07-20 07:47 (Time Zone: -04:00)

Report Last Signed By

User:

ELIZABETH.LOWES@CHBWV.COM

Name:

Elizabeth Lowes

E-Mail:

elizabeth.lowes@chbwv.com

Date/Time:

2021-07-20 15:46 (Time Zone: -04:00)

**Attachment B**

**Storm Water Discharge Monitoring Results for  
January 1 through June 30, 2021  
Monitoring Period**

**STORM WATER DISCHARGE MONITORING DATA**  
**FOR OUTFALL GROUP 1, OUTFALL S04**  
**Monitoring Period: January 1 through June 30, 2021**

| Parameter Group                       | Parameter                                                                        | Results in mg/L            |                         | Permit No. NY-0000973<br>Compliance Limit                                                       |
|---------------------------------------|----------------------------------------------------------------------------------|----------------------------|-------------------------|-------------------------------------------------------------------------------------------------|
|                                       |                                                                                  | First Flush Grab           | Flow-weighted Composite |                                                                                                 |
| Group A Parameters                    | pH                                                                               | 7.6 / 7.6 S.U.             | N.R.                    | Not Specified in Permit.                                                                        |
|                                       | Oil and Grease                                                                   | 2.2 / 2.8                  | N.R.                    | 15 mg/L                                                                                         |
|                                       | BOD-5                                                                            | 5.9 / 4.7                  | 3.2                     | Not specified in permit.<br>N.R. = Not Required.                                                |
|                                       | Total Suspended Solids (TSS)                                                     | 75 / 75                    | 52                      |                                                                                                 |
|                                       | Total Dissolved Solids (TDS)                                                     | 2600 / 2500                | 1900                    |                                                                                                 |
|                                       | Phosphorus, Total                                                                | 0.14 / 0.13                | 0.10                    |                                                                                                 |
| Group B Parameters                    | Aluminum                                                                         | 1.1 / 1.3                  | 1.6                     |                                                                                                 |
|                                       | Iron                                                                             | 1.2 / 1.2                  | 1.4                     |                                                                                                 |
|                                       | Copper, Total Recoverable (TR)                                                   | 0.0063/0.0061              | 0.0048                  |                                                                                                 |
|                                       | Lead (TR)                                                                        | 0.0060/0.0059              | 0.0046                  |                                                                                                 |
|                                       | Zinc (TR)                                                                        | 0.034 / 0.032              | 0.027                   |                                                                                                 |
| Group C Parameters                    | Total Nitrogen (as N)                                                            | 1.5 / 1.8                  | 1.3                     |                                                                                                 |
|                                       | TKN                                                                              | 0.95 / 1.3                 | 0.93                    |                                                                                                 |
|                                       | Nitrate Nitrogen (as N)                                                          | 0.43 / 0.45                | 0.31                    |                                                                                                 |
|                                       | Nitrite Nitrogen (as N)                                                          | 0.074 / 0.091              | 0.090                   |                                                                                                 |
|                                       | Ammonia Nitrogen (as NH3)                                                        | 0.28 / 0.30                | 0.19                    |                                                                                                 |
|                                       | Cadmium, TR                                                                      | < 0.000071 /<br>< 0.000071 | < 0.000071              |                                                                                                 |
|                                       | Chromium, TR                                                                     | 0.0034/0.0034              | 0.0030                  |                                                                                                 |
|                                       | Hexavalent Chromium, TR                                                          | <0.0050/<0.0050            | < 0.0050                |                                                                                                 |
|                                       | Selenium, TR                                                                     | < 0.00044/<br>< 0.00044    | < 0.00044               |                                                                                                 |
|                                       | Vanadium, TR                                                                     | 0.0046/0.0045              | 0.0042                  |                                                                                                 |
|                                       | Surfactant (as LAS)                                                              | N.R.                       | N.R.                    |                                                                                                 |
|                                       | Alpha BHC                                                                        | N.R.                       | N.R.                    |                                                                                                 |
|                                       | Settleable Solids                                                                | N.R.                       | N.R.                    |                                                                                                 |
|                                       | Sulfide                                                                          | N.R.                       | N.R.                    |                                                                                                 |
|                                       | Paraquat Dichloride                                                              | < 0.0004                   | N.R.                    |                                                                                                 |
| Flow                                  | Total Flow, gallons                                                              | N.R.                       | 210,000                 |                                                                                                 |
|                                       | Maximum Flow rate, gallons per minute                                            | 1,500                      | N.R.                    |                                                                                                 |
|                                       | Method of flow measurement                                                       | Staff Gauge                |                         |                                                                                                 |
| Rainfall Event and Monitoring Summary | Date(s) of event monitored                                                       | 04/29/21                   | 04/29/21                |                                                                                                 |
|                                       | Duration of storm event, in minutes                                              | N.R.                       | 1,170                   | Rain started at 0430 EDT on 4/29/21 and ended at 2400 EDT on 4/29/21.                           |
|                                       | Date and Time of sample collection                                               | 04/29/21<br>0920           | 04/29/21<br>1200        |                                                                                                 |
|                                       | Sampling Duration (Minutes)                                                      | Instantaneous              | 180                     |                                                                                                 |
|                                       | Total rainfall during sampling event, in inches                                  | N.R.                       | 0.30                    | An additional 0.89 inches was recorded after sampling was completed for a total of 1.19 inches. |
|                                       | Number of hours between event sampled and previous measurable (> 0.1 inch) event | N.R.                       | 175                     | 0.33 inches was recorded on 4/21/21 at 2145 EDT. Outfall was at base flow.                      |

**STORM WATER DISCHARGE MONITORING DATA**  
**FOR OUTFALL GROUP 2, OUTFALL S06**  
**Monitoring Period: January 1 through June 30, 2021**

| Parameter Group                       | Parameter                                                                        | Results in mg/L  |                         | Permit No. NY-0000973<br>Compliance Limit                                                               |
|---------------------------------------|----------------------------------------------------------------------------------|------------------|-------------------------|---------------------------------------------------------------------------------------------------------|
|                                       |                                                                                  | First Flush Grab | Flow-weighted Composite |                                                                                                         |
| Group A Parameters                    | pH                                                                               | 7.2 S.U.         | N.R.                    | Not Specified in Permit.                                                                                |
|                                       | Oil and Grease                                                                   | < 1.5            | N.R.                    | 15 mg/L                                                                                                 |
|                                       | BOD-5                                                                            | < 1.0            | < 1.0                   | Not specified in permit.<br>N.R. = Not Required.                                                        |
|                                       | Total Suspended Solids (TSS)                                                     | 9.0              | 4.9                     |                                                                                                         |
|                                       | Total Dissolved Solids (TDS)                                                     | 1,200            | 1,100                   |                                                                                                         |
|                                       | Phosphorus, Total                                                                | < 0.020          | 0.051                   |                                                                                                         |
| Group B Parameters                    | Aluminum                                                                         | 0.021            | < 0.019                 |                                                                                                         |
|                                       | Iron                                                                             | 1.1              | 1.3                     |                                                                                                         |
|                                       | Copper, Total Recoverable (TR)                                                   | 0.00059          | 0.00040                 |                                                                                                         |
|                                       | Lead (TR)                                                                        | < 0.00050        | < 0.00050               |                                                                                                         |
|                                       | Zinc (TR)                                                                        | 0.012            | 0.0050                  |                                                                                                         |
| Group C Parameters                    | Total Nitrogen (as N)                                                            | N.R.             | N.R.                    |                                                                                                         |
|                                       | TKN                                                                              | N.R.             | N.R.                    |                                                                                                         |
|                                       | Nitrate Nitrogen (as N)                                                          | N.R.             | N.R.                    |                                                                                                         |
|                                       | Nitrite Nitrogen (as N)                                                          | N.R.             | N.R.                    |                                                                                                         |
|                                       | Ammonia Nitrogen (as NH3)                                                        | N.R.             | N.R.                    |                                                                                                         |
|                                       | Cadmium, TR                                                                      | N.R.             | N.R.                    |                                                                                                         |
|                                       | Chromium, TR                                                                     | N.R.             | N.R.                    |                                                                                                         |
|                                       | Hexavalent Chromium, TR                                                          | N.R.             | N.R.                    |                                                                                                         |
|                                       | Selenium, TR                                                                     | N.R.             | N.R.                    |                                                                                                         |
|                                       | Vanadium, TR                                                                     | N.R.             | N.R.                    |                                                                                                         |
|                                       | Surfactant (as LAS)                                                              | 0.0077           | 0.0077                  |                                                                                                         |
|                                       | Alpha BHC                                                                        | N.R.             | N.R.                    |                                                                                                         |
|                                       | Settleable Solids                                                                | N.R.             | N.R.                    |                                                                                                         |
|                                       | Sulfide                                                                          | N.R.             | N.R.                    |                                                                                                         |
|                                       | Paraquat Dichloride                                                              | < 0.0004         | N.R.                    |                                                                                                         |
| Flow                                  | Total Flow, gallons                                                              | N.R.             | 9,500                   |                                                                                                         |
|                                       | Maximum Flow rate, gallons per minute                                            | 61               | N.R.                    |                                                                                                         |
|                                       | Method of flow measurement                                                       | ISCO Flow Meter  |                         |                                                                                                         |
| Rainfall Event and Monitoring Summary | Date(s) of event monitored                                                       | 06/21/21         | 06/21/21                |                                                                                                         |
|                                       | Duration of storm event, in minutes                                              | N.R.             | 585                     | Rain started at 0515 EDT on 06/21/21 and ended at 1500 EDT on 06/21/21.                                 |
|                                       | Date and Time of sample collection                                               | 06/21/21<br>1505 | 06/21/21<br>1750        |                                                                                                         |
|                                       | Sampling Duration (Minutes)                                                      | Instantaneous    | 180                     |                                                                                                         |
|                                       | Total rainfall during sampling event, in inches                                  | N.R.             | 1.05                    |                                                                                                         |
|                                       | Number of hours between event sampled and previous measurable (> 0.1 inch) event | N.R.             | 34                      | Precipitation of 1.14 inches was recorded on 06/19/21 at 1930 EDT. Outfall was at base flow conditions. |

**STORM WATER DISCHARGE MONITORING DATA**  
**FOR OUTFALL GROUP 3, OUTFALL S09**  
**Monitoring Period: January 1 through June 30, 2021**

| Parameter Group                       | Parameter                                                                        | Results in mg/L, Mercury, total in ng/L via method 1631 |                         | Permit No. NY-0000973<br>Compliance Limit                                                                                     |
|---------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------|
|                                       |                                                                                  | First Flush Grab                                        | Flow-weighted Composite |                                                                                                                               |
| Group A Parameters                    | pH                                                                               | 7.8 S.U.                                                | N.R.                    | Not specified in permit.                                                                                                      |
|                                       | Oil and Grease                                                                   | 5.3                                                     | N.R.                    | 15 mg/L                                                                                                                       |
|                                       | BOD-5                                                                            | 5.2                                                     | 9.5                     | Not specified in permit.<br>N.R. = Not Required.<br><br>Sample was flagged "R" unreliable during the data validation process. |
|                                       | Total Suspended Solids (TSS)                                                     | 77                                                      | 210                     |                                                                                                                               |
|                                       | Total Dissolved Solids (TDS)                                                     | 6800                                                    | 1900                    |                                                                                                                               |
|                                       | Phosphorus, Total                                                                | 0.061                                                   | 0.56                    |                                                                                                                               |
| Group B Parameters                    | Aluminum                                                                         | 0.49                                                    | 11                      |                                                                                                                               |
|                                       | Iron                                                                             | 0.96                                                    | 13                      |                                                                                                                               |
|                                       | Copper, Total Recoverable (TR)                                                   | 0.0049                                                  | 0.022                   |                                                                                                                               |
|                                       | Lead (TR)                                                                        | 0.0022                                                  | 0.030                   |                                                                                                                               |
|                                       | Zinc (TR)                                                                        | 0.020                                                   | 0.19                    |                                                                                                                               |
| Group C Parameters                    | Total Nitrogen (as N)                                                            | 1.4                                                     | 2.4                     |                                                                                                                               |
|                                       | TKN                                                                              | 1.3 *R                                                  | 1.9                     |                                                                                                                               |
|                                       | Nitrate Nitrogen (as N)                                                          | 0.084                                                   | 0.43                    |                                                                                                                               |
|                                       | Nitrite Nitrogen (as N)                                                          | 0.036                                                   | 0.036                   |                                                                                                                               |
|                                       | Ammonia Nitrogen (as NH3)                                                        | 0.079                                                   | 0.12                    |                                                                                                                               |
|                                       | Cadmium, TR                                                                      | N.R.                                                    | N.R.                    |                                                                                                                               |
|                                       | Chromium, TR                                                                     | N.R.                                                    | N.R.                    |                                                                                                                               |
|                                       | Hexavalent Chromium, TR                                                          | N.R.                                                    | N.R.                    |                                                                                                                               |
|                                       | Selenium, TR                                                                     | N.R.                                                    | N.R.                    |                                                                                                                               |
|                                       | Vanadium, TR                                                                     | N.R.                                                    | N.R.                    |                                                                                                                               |
|                                       | Surfactant (as LAS)                                                              | N.R.                                                    | N.R.                    |                                                                                                                               |
|                                       | Alpha BHC                                                                        | < 0.0000062                                             | < 0.0000068             |                                                                                                                               |
|                                       | Settleable Solids                                                                | N.R.                                                    | N.R.                    |                                                                                                                               |
|                                       | Sulfide                                                                          | N.R.                                                    | N.R.                    |                                                                                                                               |
|                                       | Mercury, Total (ng/L)                                                            | 43                                                      | N.R.                    |                                                                                                                               |
|                                       | Paraquat Dichloride                                                              | < 0.0004                                                | N.R.                    |                                                                                                                               |
| Flow                                  | Total Flow, gallons                                                              | N.R.                                                    | 20,000                  |                                                                                                                               |
|                                       | Maximum Flow rate, gallons per minute                                            | 530                                                     | N.R.                    |                                                                                                                               |
|                                       | Method of flow measurement                                                       | Staff Gauge                                             |                         |                                                                                                                               |
| Rainfall Event and Monitoring Summary | Date(s) of event monitored                                                       | 6/14/21                                                 | 6/14/21                 |                                                                                                                               |
|                                       | Duration of storm event, in minutes                                              | N.R.                                                    | 120                     | Rain started at 1030 EDT on 6/14/21 and ended at 1230 EDT on 6/14/21.                                                         |
|                                       | Date and Time of sample collection                                               | 6/14/21<br>1200                                         | 6/14/21<br>1410         |                                                                                                                               |
|                                       | Sampling Duration (Minutes)                                                      | Instantaneous                                           | 140                     |                                                                                                                               |
|                                       | Total rainfall during sampling event, in inches                                  | N.R.                                                    | 0.27                    |                                                                                                                               |
|                                       | Number of hours between event sampled and previous measurable (> 0.1 inch) event | N.R.                                                    | 237                     | Precipitation of 0.21 inches was recorded on 6/04/21 at 1400 EDT. No flow at outfall upon arrival.                            |

**STORM WATER DISCHARGE MONITORING DATA**  
**FOR OUTFALL GROUP 4, OUTFALL S34**  
**Monitoring Period: January 1 through June 30, 2021**

| Parameter Group                       | Parameter                                                                        | Results in mg/L  |                         | Permit No. NY-0000973<br>Compliance Limit                                                             |
|---------------------------------------|----------------------------------------------------------------------------------|------------------|-------------------------|-------------------------------------------------------------------------------------------------------|
|                                       |                                                                                  | First Flush Grab | Flow-weighted Composite |                                                                                                       |
| Group A Parameters                    | pH                                                                               | 7.3 S.U.         | N.R.                    | Not specified in permit.                                                                              |
|                                       | Oil and Grease                                                                   | 3.6              | N.R.                    | 15 mg/L                                                                                               |
|                                       | BOD-5                                                                            | 7.3              | 6.8                     | Not specified in permit.<br>N.R. = Not Required.                                                      |
|                                       | Total Suspended Solids (TSS)                                                     | 120              | 210                     |                                                                                                       |
|                                       | Total Dissolved Solids (TDS)                                                     | 1300             | 1400                    |                                                                                                       |
|                                       | Phosphorus, Total                                                                | 0.14             | 0.50                    |                                                                                                       |
| Group B Parameters                    | Aluminum                                                                         | 3.7              | 9.9                     |                                                                                                       |
|                                       | Iron                                                                             | 5.5              | 13                      |                                                                                                       |
|                                       | Copper, Total Recoverable (TR)                                                   | 0.0069           | 0.017                   |                                                                                                       |
|                                       | Lead (TR)                                                                        | 0.010            | 0.041                   |                                                                                                       |
|                                       | Zinc (TR)                                                                        | 0.060            | 0.18                    |                                                                                                       |
| Group C Parameters                    | Total Nitrogen (as N)                                                            | N.R.             | N.R.                    |                                                                                                       |
|                                       | TKN                                                                              | N.R.             | N.R.                    |                                                                                                       |
|                                       | Nitrate Nitrogen (as N)                                                          | N.R.             | N.R.                    |                                                                                                       |
|                                       | Nitrite Nitrogen (as N)                                                          | N.R.             | N.R.                    |                                                                                                       |
|                                       | Ammonia Nitrogen (as NH3)                                                        | N.R.             | N.R.                    |                                                                                                       |
|                                       | Cadmium, TR                                                                      | N.R.             | N.R.                    |                                                                                                       |
|                                       | Chromium, TR                                                                     | N.R.             | N.R.                    |                                                                                                       |
|                                       | Hexavalent Chromium, TR                                                          | N.R.             | N.R.                    |                                                                                                       |
|                                       | Selenium, TR                                                                     | N.R.             | N.R.                    |                                                                                                       |
|                                       | Vanadium, TR                                                                     | N.R.             | N.R.                    |                                                                                                       |
|                                       | Surfactant (as LAS)                                                              | 0.14             | 0.14                    |                                                                                                       |
|                                       | Alpha BHC                                                                        | N.R.             | N.R.                    |                                                                                                       |
|                                       | Settleable Solids                                                                | N.R.             | N.R.                    |                                                                                                       |
|                                       | Sulfide                                                                          | N.R.             | N.R.                    |                                                                                                       |
|                                       | Paraquat Dichloride                                                              | N.R.             | N.R.                    |                                                                                                       |
| Flow                                  | Total Flow, gallons                                                              | N.R.             | 210,000                 |                                                                                                       |
|                                       | Maximum Flow rate, gallons per minute                                            | 3,700            | N.R.                    |                                                                                                       |
|                                       | Method of flow measurement                                                       | Staff Gauge      |                         |                                                                                                       |
| Rainfall Event and Monitoring Summary | Date(s) of event monitored                                                       | 6/14/21          | 6/14/21                 |                                                                                                       |
|                                       | Duration of storm event, in minutes                                              | N.R.             | 120                     | Rain started at 1030 EDT on 6/14/21 and ended at 1230 EDT on 6/14/21.                                 |
|                                       | Date and Time of sample collection                                               | 6/14/21<br>1220  | 6/14/21<br>1350         |                                                                                                       |
|                                       | Sampling Duration (Minutes)                                                      | Instantaneous    | 100                     |                                                                                                       |
|                                       | Total rainfall during event, in inches                                           | N.R.             | 0.27                    |                                                                                                       |
|                                       | Number of hours between event sampled and previous measurable (> 0.1 inch) event | N.R.             | 237                     | Precipitation of 0.21 inches was recorded on 6/4/21 at 1400 EDT. Outfall was at base flow conditions. |

**STORM WATER DISCHARGE MONITORING DATA**  
**FOR OUTFALL GROUP 5, OUTFALL S28**  
**Monitoring Period: January 1 through June 30, 2021**

| Parameter Group                       | Parameter                                                                        | Results in mg/L, mL/L for Settleable Solids |                         | Permit No. NY-0000973 Compliance Limit                                                                |
|---------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------|
|                                       |                                                                                  | First Flush Grab                            | Flow-weighted Composite |                                                                                                       |
| Group A Parameters                    | pH                                                                               | 7.9 S.U.                                    | N.R.                    | Not specified in permit.                                                                              |
|                                       | Oil and Grease                                                                   | 2.0                                         | N.R.                    | 15 mg/L                                                                                               |
|                                       | BOD-5                                                                            | 6.3                                         | 4.9                     | Not specified in permit.<br>N.R. = Not required.                                                      |
|                                       | Total Suspended Solids (TSS)                                                     | 190                                         | 200                     |                                                                                                       |
|                                       | Total Dissolved Solids (TDS)                                                     | 2600                                        | 2300                    |                                                                                                       |
|                                       | Phosphorus, Total                                                                | 0.31                                        | 0.38                    |                                                                                                       |
| Group B Parameters                    | Aluminum                                                                         | 6.7                                         | 5.0                     |                                                                                                       |
|                                       | Iron                                                                             | 5.8                                         | 4.3                     |                                                                                                       |
|                                       | Copper, Total Recoverable (TR)                                                   | 0.017                                       | 0.017                   |                                                                                                       |
|                                       | Lead (TR)                                                                        | 0.014                                       | 0.025                   |                                                                                                       |
|                                       | Zinc (TR)                                                                        | 0.036                                       | 0.051                   |                                                                                                       |
| Group C Parameters                    | Total Nitrogen (as N)                                                            | < 1.8                                       | < 1.5                   |                                                                                                       |
|                                       | TKN                                                                              | 1.7                                         | 1.4                     |                                                                                                       |
|                                       | Nitrate Nitrogen (as N)                                                          | < 0.020                                     | < 0.020                 |                                                                                                       |
|                                       | Nitrite Nitrogen (as N)                                                          | 0.074                                       | 0.069                   |                                                                                                       |
|                                       | Ammonia Nitrogen (as NH3)                                                        | 0.034                                       | 0.026                   |                                                                                                       |
|                                       | Cadmium, TR                                                                      | N.R.                                        | N.R.                    |                                                                                                       |
|                                       | Chromium, TR                                                                     | N.R.                                        | N.R.                    |                                                                                                       |
|                                       | Hexavalent Chromium, TR                                                          | N.R.                                        | N.R.                    |                                                                                                       |
|                                       | Selenium, TR                                                                     | N.R.                                        | N.R.                    |                                                                                                       |
|                                       | Vanadium, TR                                                                     | 0.0093                                      | 0.011                   |                                                                                                       |
|                                       | Surfactant (as LAS)                                                              | < 0.013                                     | < 0.013                 |                                                                                                       |
|                                       | Alpha BHC                                                                        | N.R.                                        | N.R.                    |                                                                                                       |
|                                       | Settleable Solids                                                                | 1.0                                         | 0.4                     |                                                                                                       |
|                                       | Sulfide                                                                          | < 0.67                                      | < 0.67                  |                                                                                                       |
|                                       | Paraquat Dichloride                                                              | N.R.                                        | N. R.                   |                                                                                                       |
| Flow                                  | Total Flow, gallons                                                              | N.R.                                        | 110,000                 |                                                                                                       |
|                                       | Maximum Flow rate, gallons per minute                                            | 814                                         | N.R.                    |                                                                                                       |
|                                       | Method of flow measurement                                                       | Staff Gauge                                 |                         |                                                                                                       |
| Rainfall Event and Monitoring Summary | Date(s) of event monitored                                                       | 4/29/21                                     | 4/29/21                 |                                                                                                       |
|                                       | Duration of storm event, in minutes                                              | N.R.                                        | 1,170                   | Rain started at 0430 EDT on 4/29/21 and ended at 2400 EDT on 4/29/21.                                 |
|                                       | Date and Time of sample collection                                               | 4/29/21 0930                                | 4/29/21 1210            |                                                                                                       |
|                                       | Sampling Duration (Minutes)                                                      | Instantaneous                               | 180                     |                                                                                                       |
|                                       | Total rainfall during sampling event, in inches                                  | N.R.                                        | 0.30                    | An Additional 0.89 inches was recorded after sampling was completed for a storm Total of 1.19 inches. |
|                                       | Number of hours between event sampled and previous measurable (> 0.1 inch) event | N.R.                                        | 175                     | Precipitation of 0.33 inches was recorded on 4/21/21 at 2145 EDT. No flow at outfall upon arrival.    |

**STORM WATER DISCHARGE MONITORING DATA**  
**FOR OUTFALL GROUP 6, OUTFALL S42**  
**Monitoring Period: January 1 through June 30, 2021**

| Parameter Group                       | Parameter                                                                        | Results in mg/L, mL/L for Settleable Solids |                         | Permit No. NY-0000973 Compliance Limit                                                                                          |
|---------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------|
|                                       |                                                                                  | First Flush Grab                            | Flow-weighted Composite |                                                                                                                                 |
| Group A Parameters                    | pH                                                                               | 8.1 S.U.                                    | N.R.                    | Not specified in permit.                                                                                                        |
|                                       | Oil and Grease                                                                   | 3.4                                         | N.R.                    | 15 mg/L                                                                                                                         |
|                                       | BOD-5                                                                            | < 2.0                                       | < 2.0                   | Not specified in permit.<br>N.R. = Not required.                                                                                |
|                                       | Total Suspended Solids (TSS)                                                     | 180                                         | 27                      |                                                                                                                                 |
|                                       | Total Dissolved Solids (TDS)                                                     | 890                                         | 640                     |                                                                                                                                 |
|                                       | Phosphorus, Total                                                                | 0.19                                        | 0.04                    |                                                                                                                                 |
| Group B Parameters                    | Aluminum                                                                         | 4.5                                         | 0.98                    |                                                                                                                                 |
|                                       | Iron                                                                             | 11                                          | 1.6                     |                                                                                                                                 |
|                                       | Copper, Total Recoverable (TR)                                                   | 0.012                                       | 0.0029                  |                                                                                                                                 |
|                                       | Lead (TR)                                                                        | 0.010                                       | 0.0014                  |                                                                                                                                 |
|                                       | Zinc (TR)                                                                        | 0.033                                       | 0.0062                  |                                                                                                                                 |
| Group C Parameters                    | Total Nitrogen (as N)                                                            | < 1.5                                       | 0.55                    |                                                                                                                                 |
|                                       | TKN                                                                              | 1.2                                         | 0.34                    |                                                                                                                                 |
|                                       | Nitrate Nitrogen (as N)                                                          | 0.25                                        | 0.19                    |                                                                                                                                 |
|                                       | Nitrite Nitrogen (as N)                                                          | < 0.020                                     | 0.024                   |                                                                                                                                 |
|                                       | Ammonia Nitrogen (as NH3)                                                        | < 0.10                                      | < 0.10                  |                                                                                                                                 |
|                                       | Cadmium, TR                                                                      | N.R.                                        | N.R.                    |                                                                                                                                 |
|                                       | Chromium, TR                                                                     | N.R.                                        | N.R.                    |                                                                                                                                 |
|                                       | Hexavalent Chromium, TR                                                          | N.R.                                        | N.R.                    |                                                                                                                                 |
|                                       | Selenium, TR                                                                     | N.R.                                        | N.R.                    |                                                                                                                                 |
|                                       | Vanadium, TR                                                                     | 0.0084                                      | 0.0029                  |                                                                                                                                 |
|                                       | Surfactant (as LAS)                                                              | 0.027                                       | 0.055                   |                                                                                                                                 |
|                                       | Alpha BHC                                                                        | N.R.                                        | N.R.                    |                                                                                                                                 |
|                                       | Settleable Solids                                                                | 1.8                                         | 0.3                     |                                                                                                                                 |
|                                       | Sulfide                                                                          | < 0.67                                      | < 0.67                  |                                                                                                                                 |
| Flow                                  | Paraquat Dichloride                                                              | N.R.                                        | N.R.                    |                                                                                                                                 |
|                                       | Total Flow, gallons                                                              | N.R.                                        | 7,500                   |                                                                                                                                 |
|                                       | Maximum Flow rate, gallons per minute                                            | 60                                          | N.R.                    |                                                                                                                                 |
|                                       | Method of flow measurement                                                       | Staff Gauge                                 |                         |                                                                                                                                 |
| Rainfall Event and Monitoring Summary | Date(s) of event monitored                                                       | 06/21/21                                    | 06/21/21                |                                                                                                                                 |
|                                       | Duration of storm event, in minutes                                              | N.R.                                        | 585                     | Rain started at 0515 EDT on 06/21/21 and ended at 1500 EDT on 06/21/21.                                                         |
|                                       | Date and Time of sample collection                                               | 06/21/21 1500                               | 06/21/21 1750           |                                                                                                                                 |
|                                       | Sampling Duration (Minutes)                                                      | Instantaneous                               | 180                     |                                                                                                                                 |
|                                       | Total rainfall during sampling event, in inches                                  | N.R.                                        | 1.05                    |                                                                                                                                 |
|                                       | Number of hours between event sampled and previous measurable (> 0.1 inch) event | N.R.                                        | 34                      | Precipitation of 1.14 inches was recorded on 06/19/21 at 1930 EDT. Outfall was at base flow conditions upon arrival at outfall. |

**STORM WATER DISCHARGE MONITORING DATA  
FOR OUTFALL GROUP 7, OUTFALL S20  
Monitoring Period: January 1 through June 30, 2021**

| Parameter Group                       | Parameter                                                                        | Results in mg/L  |                         | Permit No. NY-0000973<br>Compliance Limit                                                         |
|---------------------------------------|----------------------------------------------------------------------------------|------------------|-------------------------|---------------------------------------------------------------------------------------------------|
|                                       |                                                                                  | First Flush Grab | Flow-weighted Composite |                                                                                                   |
| Group A Parameters                    | pH                                                                               | 7.2 S.U.         | N.R.                    | Not specified in permit.                                                                          |
|                                       | Oil and Grease                                                                   | 3.7              | N.R.                    | 15 mg/L                                                                                           |
|                                       | BOD-5                                                                            | 74               | 17                      | Not specified in permit.<br>N.R. = Not required.                                                  |
|                                       | Total Suspended Solids (TSS)                                                     | 130              | 34                      |                                                                                                   |
|                                       | Total Dissolved Solids (TDS)                                                     | 90               | 40                      |                                                                                                   |
|                                       | Phosphorus, Total                                                                | 0.30             | 0.18                    |                                                                                                   |
| Group B Parameters                    | Aluminum                                                                         | 2.9              | 0.70                    |                                                                                                   |
|                                       | Iron                                                                             | 4.8              | 1.5                     |                                                                                                   |
|                                       | Copper, Total Recoverable (TR)                                                   | 0.0077           | 0.0036                  |                                                                                                   |
|                                       | Lead (TR)                                                                        | 0.0086           | 0.0030                  |                                                                                                   |
|                                       | Zinc (TR)                                                                        | 0.043            | 0.018                   |                                                                                                   |
| Group C Parameters                    | Total Nitrogen (as N)                                                            | < 8.5            | <3.2                    |                                                                                                   |
|                                       | TKN                                                                              | 7.8              | 2.7                     |                                                                                                   |
|                                       | Nitrate Nitrogen (as N)                                                          | 0.72             | 0.50                    |                                                                                                   |
|                                       | Nitrite Nitrogen (as N)                                                          | < 0.020          | < 0.020                 |                                                                                                   |
|                                       | Ammonia Nitrogen (as NH3)                                                        | 1.3              | 0.92                    |                                                                                                   |
|                                       | Cadmium, TR                                                                      | N.R.             | N.R.                    |                                                                                                   |
|                                       | Chromium, TR                                                                     | N.R.             | N.R.                    |                                                                                                   |
|                                       | Hexavalent Chromium, TR                                                          | N.R.             | N.R.                    |                                                                                                   |
|                                       | Selenium, TR                                                                     | N.R.             | N.R.                    |                                                                                                   |
|                                       | Vanadium, TR                                                                     | N.R.             | N.R.                    |                                                                                                   |
|                                       | Surfactant (as LAS)                                                              | 0.10             | 0.041                   |                                                                                                   |
|                                       | Alpha BHC                                                                        | N.R.             | N.R.                    |                                                                                                   |
|                                       | Settleable Solids                                                                | N.R.             | N.R.                    |                                                                                                   |
|                                       | Sulfide                                                                          | < 0.67           | < 0.67                  |                                                                                                   |
|                                       | Paraquat Dichloride                                                              | < 0.0004         | N.R.                    |                                                                                                   |
| Flow                                  | Total Flow, gallons                                                              | N.R.             | 198,000                 |                                                                                                   |
|                                       | Maximum Flow rate, gallons per minute                                            | 4,600            | N.R.                    |                                                                                                   |
|                                       | Method of flow measurement                                                       | Staff Gauge      |                         |                                                                                                   |
| Rainfall Event and Monitoring Summary | Date(s) of event monitored                                                       | 5/25/21          | 5/25/21                 |                                                                                                   |
|                                       | Duration of storm event, in minutes                                              | N.R.             | 30                      | Rain started at 1445 EDT on 5/25/21 and ended at 1515 EDT on 5/25/21.                             |
|                                       | Date and Time of sample collection                                               | 5/25/21<br>1430  | 5/25/21<br>1720         |                                                                                                   |
|                                       | Sampling Duration (Minutes)                                                      | Instantaneous    | 180                     |                                                                                                   |
|                                       | Total rainfall during event, in inches                                           | N.R.             | 0.31                    | .                                                                                                 |
|                                       | Number of hours between event sampled and previous measurable (> 0.1 inch) event | N.R.             | 376                     | Precipitation of 0.31 inches was recorded on 5/9/21 at 2245 EDT. No flow at outfall upon arrival. |

**STORM WATER DISCHARGE MONITORING DATA**  
**FOR OUTFALL GROUP 8, OUTFALL S27**  
**Monitoring Period: January 1 through June 30, 2021**

| Parameter Group                       | Parameter                                                                        | Results, in mg/L |                         | Permit No. NY-0000973<br>Compliance Limit                                                                    |
|---------------------------------------|----------------------------------------------------------------------------------|------------------|-------------------------|--------------------------------------------------------------------------------------------------------------|
|                                       |                                                                                  | First Flush Grab | Flow-weighted Composite |                                                                                                              |
| Group A Parameters                    | pH                                                                               | 7.7 S.U.         | N.R.                    | Not specified in permit.                                                                                     |
|                                       | Oil and Grease                                                                   | 2.7              | N.R.                    | 15 mg/L                                                                                                      |
|                                       | BOD-5                                                                            | 7.5              | 8.2                     | Not specified in permit.<br>N.R. = Not Required.                                                             |
|                                       | Total Suspended Solids (TSS)                                                     | 210              | 110                     |                                                                                                              |
|                                       | Total Dissolved Solids (TDS)                                                     | 2700             | 1700                    |                                                                                                              |
|                                       | Phosphorus, Total                                                                | 0.52             | 0.14                    |                                                                                                              |
| Group B Parameters                    | Aluminum                                                                         | 6.0              | 0.99                    |                                                                                                              |
|                                       | Iron                                                                             | 6.0              | 0.95                    |                                                                                                              |
|                                       | Copper, Total Recoverable (TR)                                                   | 0.012            | 0.0056                  |                                                                                                              |
|                                       | Lead (TR)                                                                        | 0.034            | 0.0095                  |                                                                                                              |
|                                       | Zinc (TR)                                                                        | 0.084            | 0.023                   |                                                                                                              |
| Group C Parameters                    | Total Nitrogen (as N)                                                            | 2.8              | 2.1                     |                                                                                                              |
|                                       | TKN                                                                              | 2.6              | 1.9                     |                                                                                                              |
|                                       | Nitrate Nitrogen (as N)                                                          | 0.16             | 0.084                   |                                                                                                              |
|                                       | Nitrite Nitrogen (as N)                                                          | 0.080            | 0.079                   |                                                                                                              |
|                                       | Ammonia Nitrogen (as NH3)                                                        | 0.072            | 0.057                   |                                                                                                              |
|                                       | Cadmium, TR                                                                      | N.R.             | N.R.                    |                                                                                                              |
|                                       | Chromium, TR                                                                     | N.R.             | N.R.                    |                                                                                                              |
|                                       | Hexavalent Chromium, TR                                                          | N.R.             | N.R.                    |                                                                                                              |
|                                       | Selenium, TR                                                                     | N.R.             | N.R.                    |                                                                                                              |
|                                       | Vanadium, TR                                                                     | N.R.             | N.R.                    |                                                                                                              |
|                                       | Surfactant (as LAS)                                                              | < 0.013          | 0.014                   |                                                                                                              |
|                                       | Alpha BHC                                                                        | N.R.             | N.R.                    |                                                                                                              |
|                                       | Settleable Solids                                                                | N.R.             | N.R.                    |                                                                                                              |
|                                       | Sulfide                                                                          | N.R.             | N.R.                    |                                                                                                              |
|                                       | Paraquat Dichloride                                                              | N.R.             | N.R.                    |                                                                                                              |
| Flow                                  | Total Flow, gallons                                                              | N.R.             | 4,200                   |                                                                                                              |
|                                       | Maximum Flow rate, gallons per minute                                            | 37               | N.R.                    |                                                                                                              |
|                                       | Method of flow measurement                                                       | Staff Gauge      |                         |                                                                                                              |
| Rainfall Event and Monitoring Summary | Date(s) of event monitored                                                       | 4/29/21          | 4/29/21                 |                                                                                                              |
|                                       | Duration of storm event, in minutes                                              | N.R.             | 1,170                   | Rain started at 0430 EDT on 4/29/21 and ended at 2400 EDT on 4/29/21.                                        |
|                                       | Date and Time of sample collection                                               | 4/29/21 0940     | 4/29/21 1220            |                                                                                                              |
|                                       | Sampling Duration (Minutes)                                                      | Instantaneous    | 180                     |                                                                                                              |
|                                       | Total rainfall during event, in inches                                           | N.R.             | 0.30                    | An Additional 0.89 inches was recorded after sampling was completed for a storm total of 1.19 inches.        |
|                                       | Number of hours between event sampled and previous measurable (> 0.1 inch) event | N.R.             | 175                     | Precipitation of 0.33 inches was recorded on 4/21/21 at 2145 EDT. There was no flow at outfall upon arrival. |

## **Attachment C**

### **CHBWV Environmental Certification**

## CHBWV ENVIRONMENTAL CERTIFICATION

### 1. To be signed by a CHBWV Officer

I certify under penalty of law that I have reviewed the environmental submittal, including all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the document has been prepared in accordance with all applicable requirements and the information is, to the best of my knowledge and belief, true, accurate, and complete.

|                                             |                               |                |
|---------------------------------------------|-------------------------------|----------------|
| <u>E. A. Lowes/V.P. Regulatory Strategy</u> | <u><i>Elizabeth Lowes</i></u> | <u>7/20/21</u> |
| Name/Title (type or print)                  | Signature                     | Date signed    |