

Mr. C. S. Haugh, P.E.  
Chief, Source Surveillance  
New York State Department of Environmental Conservation  
Division of Water  
Bureau of Watershed Programs  
625 Broadway, 4<sup>th</sup> Floor  
Albany, New York 12233-3506

AC-EA  
WR:2012:0016  
March 26, 2012

SUBJECT: State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period February 1 through February 29, 2012, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP)

Dear Mr. Haugh:

The West Valley Demonstration Project SPDES DMR for the reporting period February 1 through February 29, 2012, including the Net Iron and Total Dissolved Solids (TDS) concentration sheets, is provided as Attachment A.

All results for this report are within effluent discharge limits specified in the permit.

Please note there was no discharge at internal outfall 01B during this period, and that the Wastewater Treatment Facility was brought back on line during this monitoring period.

As required in Title 6 of the New York Codes, Rules, and Regulations (6NYCRR) Part 750-2.5(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) identification numbers for the laboratories performing analysis for this DMR are as follows:

1. TestAmerica Buffalo: NY Lab No. 10026;
2. URS Corp: NY Lab No. 10474; and
3. General Engineering Laboratories: NY Lab No. 11501.

Also, 6NYCRR Part 750-2.5(e)(3) requires reporting of Method Detection Limits (MDLs), where monitoring is not performed under ELAP. To that end, the MDLs for Settleable Solids and Total Residual Chlorine analyses, performed by the CHBWV Wastewater Treatment Facility, are 0.1 ml/L and 0.01 mg/L, respectively.

If you have any questions, please contact Moira Maloney of the U.S. Department of Energy West Valley Demonstration Project (DOE-WVDP) at (716) 942-4255 or Dave Klenk of my staff at (716) 942-4061.

Very truly yours,



J. D. Rendall, Manager  
Regulatory Strategy

JDR:DPK:bnj

Attachment: A) SPDES DMR for February 1 through February 29, 2012 Monitoring Period

cc: M. A. Jackson, NYSDEC-Region 9 DOW  
E. W. Wohlers, Cattaraugus County Health Department  
J. M. Dundas, DOE-WVDP, AC-DOE  
M. P. Krentz, DOE-WVDP, AC-DOE  
M. N. Maloney, DOE-WVDP, AC-DOE  
W. N. Kean, WSMS, AC-URS  
D. P. Klenk, CHBWV, AC-EA  
J. D. Rendall, CHBWV, AC-EA  
R. L. Scharf, CHBWV, WV-PL6  
B. N. Jeffery (Letter Log), CHBWV, AC-BUS

\* Without attachments

**ATTACHMENT A**  
**SPDES DISCHARGE MONITORING REPORT - FEBRUARY 1 THROUGH FEBRUARY 29, 2012**  
**NET IRON EFFLUENT CONCENTRATION CALCULATION**  
**WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973**

$$\begin{aligned} \text{OUTFALL 001} &= M1 = \frac{(X1 + X2) V1}{2} = 4166944.09 \text{ mg/month} \\ X1 &= 0.443 \text{ mg/L} \\ X2 &= 0.517 \text{ mg/L} \\ V1 &= 8681133.53 \text{ L/month} \end{aligned}$$

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$$\begin{aligned} \text{OUTFALL 007} &= M7 = \frac{(X1 + X2) V7}{2} = 20712.95 \text{ mg/month} \\ X1 &= 0.128 \text{ mg/L} \\ X2 &= 0.123 \text{ mg/L} \\ V7 &= 165043.44 \text{ L/month} \end{aligned}$$


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$$\begin{aligned} \text{RAW WATER} &= MRW = \frac{(X1 + X2 + X3 + X4 + X5) VRW}{5} = 2382701.35 \text{ mg/month} \\ X1 &= 3.23 \text{ mg/L} \\ X2 &= 0.579 \text{ mg/L} \\ X3 &= 0.293 \text{ mg/L} \\ X4 &= 0.266 \text{ mg/L} \\ X5 &= 0.397 \text{ MG/l} \\ VRW &= 2500211.28 \text{ L/month} \end{aligned}$$

$$\text{IRON DISCHARGE CONCENTRATION} = \frac{M1 + M7 - MRW}{V1 + V7} = 0.20 \text{ mg/L}$$

**ATTACHMENT A (Cont'd)**  
**SPDES DISCHARGE MONITORING REPORT - FEBRUARY 1 THROUGH FEBRUARY 29, 2012**  
**TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION - MONITORING POINT 116**  
**WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973**

Date: February 1, 2012

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.287 \text{ MGD})(879 \text{ mg/L}) + (1.747 \text{ MGD})(224 \text{ mg/L}) + (0.324 \text{ MGD})(88 \text{ mg/L})) / (2.358 \text{ MGD}) \\ &= 285 \text{ mg/L} \end{aligned}$$

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Date: February 7, 2012

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= (0.287 \text{ MGD})(887 \text{ mg/L}) + (0.182 \text{ MGD})(136 \text{ mg/L}) + (0.324 \text{ MGD})(85 \text{ mg/L}) / (0.793 \text{ MGD}) \\ &= 387 \text{ mg/L} \end{aligned}$$

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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).                                |

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

**NAME:** U.S. DEPT OF ENERGY  
**ADDRESS:** 1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585  
**FACILITY:** WEST VALLEY DEMONSTRATION PROJ  
**LOCATION:** 10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799

**ATTN:** BRYAN C BOWER, DIRECTOR

|                      |                         |
|----------------------|-------------------------|
| NY0000973            | 001-M                   |
| <b>PERMIT NUMBER</b> | <b>DISCHARGE NUMBER</b> |

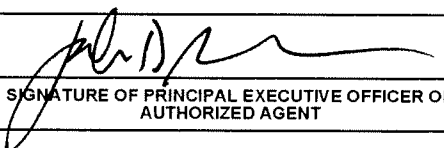
**DMR Mailing ZIP CODE:** 14171-9799

**MAJOR**  
(SUBR 09)  
OUTFALL 001 MONTHLY PROC WW, GW, STO  
External Outfall

| MONITORING PERIOD |            |            |            |
|-------------------|------------|------------|------------|
| MM/DD/YYYY        |            | MM/DD/YYYY |            |
| FROM              | 02/01/2012 | TO         | 02/29/2012 |

No Discharge ☐

| PARAMETER                   |                    | QUANTITY OR LOADING |       |       | QUALITY OR CONCENTRATION |                  |                    |       | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|-----------------------------|--------------------|---------------------|-------|-------|--------------------------|------------------|--------------------|-------|--------|-----------------------|-------------|
|                             |                    | VALUE               | VALUE | UNITS | VALUE                    | VALUE            | VALUE              | UNITS |        |                       |             |
| Sulfate (as S)              | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | 60               | 60                 | mg/L  | 0      | 01/BA                 | 24          |
| 00154 1 0<br>Effluent Gross | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon. MO AVG | Req. Mon. DAILY MX | mg/L  |        | Once Per Batch        | COMP24      |
| Oxygen demand, ultimate     | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | <8.12            | <8.94              | mg/L  | 0      | 02/BA                 | CA          |
| 00181 1 0<br>Effluent Gross | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon. MO AVG | 22 DAILY MX        | mg/L  |        | Twice Per Batch       | CALCTD      |
| Oxygen, dissolved (DO)      | SAMPLE MEASUREMENT | *****               | ***** | ***** | 13                       | *****            | 13                 | mg/L  | 0      | 02/BA                 | GR          |
| 00300 1 0<br>Effluent Gross | PERMIT REQUIREMENT | *****               | ***** | ***** | 3 MINIMUM                | *****            | Req. Mon. MAXIMUM  | mg/L  |        | Twice Per Batch       | GRAB        |
| BOD, 5-day, 20 deg. C       | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | <2.0             | <2.0               | mg/L  | 0      | 02/BA                 | 24          |
| 00310 1 0<br>Effluent Gross | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon. MO AVG | 10 DAILY MX        | mg/L  |        | Twice Per Batch       | COMP24      |
| pH                          | SAMPLE MEASUREMENT | *****               | ***** | ***** | 7.4                      | *****            | 7.4                | SU    | 0      | 01/BA                 | GR          |
| 00400 1 0<br>Effluent Gross | PERMIT REQUIREMENT | *****               | ***** | ***** | 6.5 MINIMUM              | *****            | 8.5 MAXIMUM        | SU    |        | Once Per Batch        | GRAB        |
| Solids, total suspended     | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | <4.0             | <4.0               | mg/L  | 0      | 02/BA                 | 24          |
| 00530 1 0<br>Effluent Gross | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | 30 MO AVG        | 45 DAILY MX        | mg/L  |        | Twice Per Batch       | COMP24      |
| Solids, settleable          | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | 0.1              | 0.1                | mL/L  | 0      | 02/BA                 | GR          |
| 00545 1 0<br>Effluent Gross | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon. MO AVG | 3 DAILY MX         | mL/L  |        | Twice Per Batch       | GRAB        |

|                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       |              |            |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br><br>J. D. Rendall, Manager<br><br>TYPED OR PRINTED | I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. | <br>SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE    | DATE       |
|                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       | 716 942-4602 | 03/19/2012 |
|                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       | AREA Code    | NUMBER     |
|                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       | MMDD/YYYY    |            |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: U.S. DEPT OF ENERGY  
ADDRESS: 1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585  
FACILITY: WEST VALLEY DEMONSTRATION PROJ  
LOCATION: 10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799

ATTN: BRYAN C BOWER, DIRECTOR

|               |                  |
|---------------|------------------|
| NY0000973     | 001-M            |
| PERMIT NUMBER | DISCHARGE NUMBER |

DMR Mailing ZIP CODE: 14171-9799

MAJOR

(SUBR 09)

OUTFALL 001 MONTHLY PROC WW, GW, STO  
External Outfall

| MONITORING PERIOD |    |            |  |
|-------------------|----|------------|--|
| MM/DD/YYYY        |    | MM/DD/YYYY |  |
| FROM 02/01/2012   | TO | 02/29/2012 |  |

No Discharge ☐

| PARAMETER                        |                    | QUANTITY OR LOADING |       |       | QUALITY OR CONCENTRATION |                     |                       |       | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|----------------------------------|--------------------|---------------------|-------|-------|--------------------------|---------------------|-----------------------|-------|--------|-----------------------|-------------|
|                                  |                    | VALUE               | VALUE | UNITS | VALUE                    | VALUE               | VALUE                 | UNITS |        |                       |             |
| Oil & Grease                     | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | <1.5                | <1.5                  | mg/L  | 0      | 01/BA                 | GR          |
| 00556 1 0<br>Effluent Gross      | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon.<br>MO AVG | .15<br>DAILY MX       | mg/L  |        | Once Per Batch        | GRAB        |
| Nitrogen, nitrite total (as N)   | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | <0.02               | <0.02                 | mg/L  | 0      | 01/BA                 | 24          |
| 00615 1 0<br>Effluent Gross      | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon.<br>MO AVG | .1<br>DAILY MX        | mg/L  |        | Once Per Batch        | COMP24      |
| Nitrogen, nitrate total (as N)   | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | 0.80                | 0.80                  | mg/L  | 0      | 01/BA                 | 24          |
| 00620 1 0<br>Effluent Gross      | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon.<br>MO AVG | Req. Mon.<br>DAILY MX | mg/L  |        | Once Per Batch        | COMP24      |
| Nitrogen, Kjeldahl, total (as N) | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | 1.1                 | 1.3                   | mg/L  | 0      | 02/BA                 | 24          |
| 00625 1 0<br>Effluent Gross      | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon.<br>MO AVG | Req. Mon.<br>DAILY MX | mg/L  |        | Twice Per Batch       | COMP24      |
| Sulfide, dissolved, (as S)       | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | <0.05               | <0.05                 | mg/L  | 0      | 01/BA                 | 24          |
| 00746 1 0<br>Effluent Gross      | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon.<br>MO AVG | .4<br>DAILY MX        | mg/L  |        | Once Per Batch        | COMP24      |
| Arsenic, total recoverable       | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | 0.002               | 0.002                 | mg/L  | 0      | 01/BA                 | 24          |
| 00978 1 0<br>Effluent Gross      | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon.<br>MO AVG | .15<br>DAILY MX       | mg/L  |        | Once Per Batch        | COMP24      |
| Cobalt, total recoverable        | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | <0.0006             | <0.0006               | mg/L  | 0      | 01/BA                 | GR          |
| 00979 1 0<br>Effluent Gross      | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon.<br>MO AVG | .005<br>DAILY MX      | mg/L  |        | Once Per Batch        | GRAB        |

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |        |            |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|------------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. | TELEPHONE    |        | DATE       |
| J. D. Rendall, Manager                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 716 942-4602 |        | 03/19/2012 |
| TYPED OR PRINTED                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AREA Code    | NUMBER | MMDD/YYYY  |

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: U.S. DEPT OF ENERGY  
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WASHINGTON, DC 20585  
FACILITY: WEST VALLEY DEMONSTRATION PROJ  
LOCATION: 10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799  
ATTN: BRYAN C BOWER, DIRECTOR

|               |                  |
|---------------|------------------|
| NY0000973     | 001-M            |
| PERMIT NUMBER | DISCHARGE NUMBER |

DMR Mailing ZIP CODE: 14171-9799

MAJOR  
(SUBR 09)  
OUTFALL 001 MONTHLY PROC WW, GW, STO  
External Outfall

| MONITORING PERIOD |            |            |            |
|-------------------|------------|------------|------------|
| MM/DD/YYYY        |            | MM/DD/YYYY |            |
| FROM              | 02/01/2012 | TO         | 02/29/2012 |

No Discharge ☐

| PARAMETER                                |                    | QUANTITY OR LOADING |                       |       | QUALITY OR CONCENTRATION |                     |                       |       | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|------------------------------------------|--------------------|---------------------|-----------------------|-------|--------------------------|---------------------|-----------------------|-------|--------|-----------------------|-------------|
|                                          |                    | VALUE               | VALUE                 | UNITS | VALUE                    | VALUE               | VALUE                 | UNITS |        |                       |             |
| Selenium, total recoverable              | SAMPLE MEASUREMENT | *****               | *****                 | ***** | *****                    | 0.0006              | 0.0006                | mg/L  | 0      | 01/BA                 | GR          |
| 00981 1 0<br>Effluent Gross              | PERMIT REQUIREMENT | *****               | *****                 | ***** | *****                    | Req. Mon.<br>MO AVG | 004<br>DAILY MX       | mg/L  |        | Once Per Batch        | GRAB        |
| Iron, total (as Fe)                      | SAMPLE MEASUREMENT | *****               | *****                 | ***** | *****                    | 0.480               | 0.517                 | mg/L  | 0      | 02/BA                 | 24          |
| 01045 1 0<br>Effluent Gross              | PERMIT REQUIREMENT | *****               | *****                 | ***** | *****                    | Req. Mon.<br>MO AVG | Req. Mon.<br>DAILY MX | mg/L  |        | Twice Per Batch       | COMP24      |
| Aluminum, total (as Al)                  | SAMPLE MEASUREMENT | *****               | *****                 | ***** | *****                    | 0.32                | 0.32                  | mg/L  | 0      | 01/BA                 | 24          |
| 01105 1 0<br>Effluent Gross              | PERMIT REQUIREMENT | *****               | *****                 | ***** | *****                    | 2<br>MO AVG         | 4<br>DAILY MX         | mg/L  |        | Once Per Batch        | COMP24      |
| Vanadium, total recoverable              | SAMPLE MEASUREMENT | *****               | *****                 | ***** | *****                    | 0.0011              | 0.0011                | mg/L  | 0      | 01/BA                 | GR          |
| 01128 1 0<br>Effluent Gross              | PERMIT REQUIREMENT | *****               | *****                 | ***** | *****                    | Req. Mon.<br>MO AVG | 014<br>DAILY MX       | mg/L  |        | Once Per Batch        | GRAB        |
| Nitrogen, ammonia, total (as NH3)        | SAMPLE MEASUREMENT | *****               | *****                 | ***** | *****                    | 0.34                | 0.36                  | mg/L  | 0      | 02/BA                 | 24          |
| 34726 1 0<br>Effluent Gross              | PERMIT REQUIREMENT | *****               | *****                 | ***** | *****                    | 15<br>MO AVG        | 2.1<br>DAILY MX       | mg/L  |        | Twice Per Batch       | COMP24      |
| Flow, in conduit or thru treatment plant | SAMPLE MEASUREMENT | 0.287               | 0.363                 | MGD   | *****                    | *****               | *****                 | ***** | 0      | 02/BA                 | CN          |
| 50050 1 0<br>Effluent Gross              | PERMIT REQUIREMENT | Req. Mon.<br>MO AVG | Req. Mon.<br>DAILY MX | MGD   | *****                    | *****               | *****                 | ***** |        | Twice Per Batch       | CONTIN      |
| Chlorine, total residual                 | SAMPLE MEASUREMENT | *****               | *****                 | ***** | *****                    | 0.04                | 0.04                  | mg/L  | 0      | 01/BA                 | GR          |
| 50060 1 0<br>Effluent Gross              | PERMIT REQUIREMENT | *****               | *****                 | ***** | *****                    | Req. Mon.<br>MO AVG | .1<br>DAILY MX        | mg/L  |        | Once Per Batch        | GRAB        |

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |        |            |  |
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| J. D. Rendall, Manager                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 716 942-4602 |        | 03/19/2012 |  |
| TYPED OR PRINTED                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AREA Code    | NUMBER | MM/DD/YYYY |  |

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| NY0000973     | 001-M            |
| PERMIT NUMBER | DISCHARGE NUMBER |

DMR Mailing ZIP CODE: 14171-9799

MAJOR

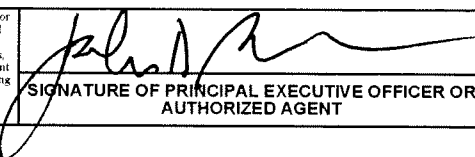
(SUBR 09)

OUTFALL 001 MONTHLY PROC WW, GW, STO  
External Outfall

| MONITORING PERIOD |    |            |  |
|-------------------|----|------------|--|
| MM/DD/YYYY        |    | MM/DD/YYYY |  |
| FROM 02/01/2012   | TO | 02/29/2012 |  |

No Discharge ☐

| PARAMETER                               |                    | QUANTITY OR LOADING |       |       | QUALITY OR CONCENTRATION |                     |                       |       | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|-----------------------------------------|--------------------|---------------------|-------|-------|--------------------------|---------------------|-----------------------|-------|--------|-----------------------|-------------|
|                                         |                    | VALUE               | VALUE | UNITS | VALUE                    | VALUE               | VALUE                 | UNITS |        |                       |             |
| Solids, total dissolved                 | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | 883                 | 887                   | mg/L  | 0      | 02/BA                 | GR          |
| 70295 1 0<br>Effluent Gross             | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon.<br>MO AVG | Req. Mon.<br>DAILY MX | mg/L  |        | Twice Per<br>Batch    | GRAB        |
| Mercury, total (as Hg)                  | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | 42                  | 42                    | ng/L  | 0      | 01/BA                 | GR          |
| 71900 1 0<br>Effluent Gross             | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | 50<br>MO AVG        | Req. Mon.<br>DAILY MX | ng/L  |        | Once Per<br>Batch     | GRAB        |
| Surfactants (linear alkylate sulfonate) | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | 0.036               | 0.036                 | mg/L  | 0      | 01/BA                 | GR          |
| 81646 1 0<br>Effluent Gross             | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon.<br>MO AVG | Req. Mon.<br>DAILY MX | mg/L  |        | Once Per<br>Batch     | GRAB        |

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |              |            |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------|------------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | <small>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</small> |  | TELEPHONE    | DATE       |
| J. D. Rendall, Manager                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       | 716 942-4602 | 03/19/2012 |
| TYPED OR PRINTED                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       | AREA Code    | NUMBER     |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: U.S. DEPT OF ENERGY  
ADDRESS: 1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585  
FACILITY: WEST VALLEY DEMONSTRATION PROJ  
LOCATION: 10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799

|               |                  |
|---------------|------------------|
| NY0000973     | 007-M            |
| PERMIT NUMBER | DISCHARGE NUMBER |

DMR Mailing ZIP CODE: 14171-9799

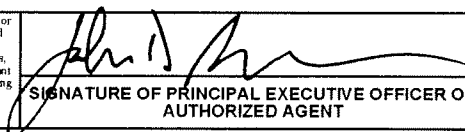
MAJOR  
(SUBR 09)  
SANITARY, NC COOLING WATER, UTILITY WA  
External Outfall

ATTN: BRYAN C BOWER, DIRECTOR

| MONITORING PERIOD |    |            |  |
|-------------------|----|------------|--|
| MM/DD/YYYY        |    | MM/DD/YYYY |  |
| FROM 02/01/2012   | TO | 02/29/2012 |  |

No Discharge ☐

| PARAMETER                   |                    | QUANTITY OR LOADING |       |       | QUALITY OR CONCENTRATION |                  |                   |       | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|-----------------------------|--------------------|---------------------|-------|-------|--------------------------|------------------|-------------------|-------|--------|-----------------------|-------------|
|                             |                    | VALUE               | VALUE | UNITS | VALUE                    | VALUE            | VALUE             | UNITS |        |                       |             |
| Oxygen demand, ultimate     | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | <4.44            | <4.44             | mg/L  | 0      | 01/30                 | CA          |
| 00181 1 0<br>Effluent Gross | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon. MO AVG | 22 DAILY MX       | mg/L  |        | Monthly               | CALCTD      |
| Oxygen, dissolved (DO)      | SAMPLE MEASUREMENT | *****               | ***** | ***** | 12                       | *****            | 12                | mg/L  | 0      | 02/30                 | GR          |
| 00300 1 0<br>Effluent Gross | PERMIT REQUIREMENT | *****               | ***** | ***** | 3 MINIMUM                | *****            | Req. Mon. MAXIMUM | mg/L  |        | Twice Per Month       | GRAB        |
| BOD, 5-day, 20 deg. C       | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | <2.3             | 2.5               | mg/L  | 0      | 02/30                 | 24          |
| 00310 1 0<br>Effluent Gross | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon. MO AVG | 10 DAILY MX       | mg/L  |        | Twice Per Month       | COMP24      |
| pH                          | SAMPLE MEASUREMENT | *****               | ***** | ***** | 6.7                      | *****            | 7.7               | SU    | 0      | 02/30                 | GR          |
| 00400 1 0<br>Effluent Gross | PERMIT REQUIREMENT | *****               | ***** | ***** | 6.5 MINIMUM              | *****            | 8.5 MAXIMUM       | SU    |        | Twice Per Month       | GRAB        |
| Solids, total suspended     | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | <4.0             | <4.0              | mg/L  | 0      | 02/30                 | 24          |
| 00530 1 0<br>Effluent Gross | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | 30 MO AVG        | 45 DAILY MX       | mg/L  |        | Twice Per Month       | COMP24      |
| Solids, settleable          | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | <0.1             | <0.1              | ml/L  | 0      | 02/30                 | GR          |
| 00545 1 0<br>Effluent Gross | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon. MO AVG | 3 DAILY MX        | ml/L  |        | Twice Per Month       | GRAB        |
| Oil & Grease                | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | <1.4             | <1.4              | mg/L  | 0      | 02/30                 | GR          |
| 00556 1 0<br>Effluent Gross | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Req. Mon. MO AVG | 15 DAILY MX       | mg/L  |        | Twice Per Month       | GRAB        |

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       |              |            |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER     | I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. | <br>SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE    | DATE       |
| J. D. Rendall, Manager<br>TYPED OR PRINTED |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       | 716 942-4602 | 03/19/2012 |
|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       | AREA Code    | NUMBER     |
|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       | MM/DD/YYYY   |            |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: U.S. DEPT OF ENERGY  
ADDRESS: 1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585  
FACILITY: WEST VALLEY DEMONSTRATION PROJ  
LOCATION: 10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799

|               |                  |
|---------------|------------------|
| NY0000973     | 007-M            |
| PERMIT NUMBER | DISCHARGE NUMBER |

DMR Mailing ZIP CODE: 14171-9799

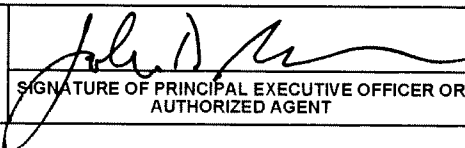
MAJOR  
(SUBR 09)  
SANITARY, NC COOLING WATER, UTILITY WA  
External Outfall

ATTN: BRYAN C BOWER, DIRECTOR

| MONITORING PERIOD |            |            |            |
|-------------------|------------|------------|------------|
| MM/DD/YYYY        |            | MM/DD/YYYY |            |
| FROM              | 02/01/2012 | TO         | 02/29/2012 |

No Discharge ☐

| PARAMETER                                                               |                    | QUANTITY OR LOADING |                    |       | QUALITY OR CONCENTRATION |                  |                    |       | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|-------------------------------------------------------------------------|--------------------|---------------------|--------------------|-------|--------------------------|------------------|--------------------|-------|--------|-----------------------|-------------|
|                                                                         |                    | VALUE               | VALUE              | UNITS | VALUE                    | VALUE            | VALUE              | UNITS |        |                       |             |
| Nitrogen, nitrite total (as N)<br>00615 1 0<br>Effluent Gross           | SAMPLE MEASUREMENT | *****               | *****              | ***** | *****                    | 0.04             | 0.04               | mg/L  | 0      | 01/30                 | 24          |
|                                                                         | PERMIT REQUIREMENT | *****               | *****              | ***** | *****                    | Req. Mon. MO AVG | 1 DAILY MX         | mg/L  |        | Monthly               | COMP24      |
| Nitrogen, Kjeldahl, total (as N)<br>00625 1 0<br>Effluent Gross         | SAMPLE MEASUREMENT | *****               | *****              | ***** | *****                    | <0.15            | <0.15              | mg/L  | 0      | 01/30                 | 24          |
|                                                                         | PERMIT REQUIREMENT | *****               | *****              | ***** | *****                    | Req. Mon. MO AVG | Req. Mon. DAILY MX | mg/L  |        | Monthly               | COMP24      |
| Iron, total (as Fe)<br>01045 1 0<br>Effluent Gross                      | SAMPLE MEASUREMENT | *****               | *****              | ***** | *****                    | 0.126            | 0.128              | mg/L  | 0      | 02/30                 | 24          |
|                                                                         | PERMIT REQUIREMENT | *****               | *****              | ***** | *****                    | Req. Mon. MO AVG | Req. Mon. DAILY MX | mg/L  |        | Twice Per Month       | COMP24      |
| Nitrogen, ammonia, total (as NH3)<br>34726 1 0<br>Effluent Gross        | SAMPLE MEASUREMENT | *****               | *****              | ***** | *****                    | 0.10             | 0.15               | mg/L  | 0      | 02/30                 | 24          |
|                                                                         | PERMIT REQUIREMENT | *****               | *****              | ***** | *****                    | 1.49 MO AVG      | 2.1 DAILY MX       | mg/L  |        | Twice Per Month       | COMP24      |
| Flow, in conduit or thru treatment plant<br>50050 1 0<br>Effluent Gross | SAMPLE MEASUREMENT | 0.004               | 0.007              | MGD   | *****                    | *****            | *****              | ***** | 0      | 01/30                 | CN          |
|                                                                         | PERMIT REQUIREMENT | Req. Mon. MO AVG    | Req. Mon. DAILY MX | MGD   | *****                    | *****            | *****              | ***** |        | Monthly               | CONTIN      |
| Chlorine, total residual<br>50060 1 0<br>Effluent Gross                 | SAMPLE MEASUREMENT | *****               | *****              | ***** | *****                    | 0.01             | 0.01               | mg/L  | 0      | 01/30                 | GR          |
|                                                                         | PERMIT REQUIREMENT | *****               | *****              | ***** | *****                    | Req. Mon. MO AVG | 1 DAILY MX         | mg/L  |        | Monthly               | GRAB        |
| Solids, total dissolved<br>70295 1 0<br>Effluent Gross                  | SAMPLE MEASUREMENT | *****               | *****              | ***** | *****                    | 1240             | 1260               | mg/L  | 0      | 02/30                 | GR          |
|                                                                         | PERMIT REQUIREMENT | *****               | *****              | ***** | *****                    | Req. Mon. MO AVG | Req. Mon. DAILY MX | mg/L  |        | Twice Per Month       | GRAB        |

|                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       |                                  |                          |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br>J. D. Rendall, Manager<br>TYPED OR PRINTED | I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT<br> | TELEPHONE                        | DATE                     |
|                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       | 716 942-4602<br>AREA Code NUMBER | 03/19/2012<br>MM/DD/YYYY |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: U.S. DEPT OF ENERGY  
ADDRESS: 1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585  
FACILITY: WEST VALLEY DEMONSTRATION PROJ  
LOCATION: 10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799  
ATTN: BRYAN C BOWER, DIRECTOR

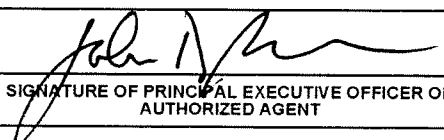
|               |                  |
|---------------|------------------|
| NY0000973     | 007-M            |
| PERMIT NUMBER | DISCHARGE NUMBER |

DMR Mailing ZIP CODE: 14171-9799  
MAJOR  
(SUBR 09)  
SANITARY, NC COOLING WATER, UTILITY WA  
External Outfall

| MONITORING PERIOD |            |            |            |
|-------------------|------------|------------|------------|
| MM/DD/YYYY        |            | MM/DD/YYYY |            |
| FROM              | 02/01/2012 | TO         | 02/29/2012 |

No Discharge ☐

| PARAMETER                   |                       | QUANTITY OR LOADING |       |       | QUALITY OR CONCENTRATION |                     |                 |       | NO.<br>EX | FREQUENCY<br>OF ANALYSIS | SAMPLE<br>TYPE |
|-----------------------------|-----------------------|---------------------|-------|-------|--------------------------|---------------------|-----------------|-------|-----------|--------------------------|----------------|
|                             |                       | VALUE               | VALUE | UNITS | VALUE                    | VALUE               | VALUE           | UNITS |           |                          |                |
| Mercury, total (as Hg)      | SAMPLE<br>MEASUREMENT | *****               | ***** | ***** | *****                    | 74.4                | 74.4            | ng/L  | 0         | 01/30                    | GR             |
| 71900 1.0<br>Effluent Gross | PERMIT<br>REQUIREMENT | *****               | ***** | ***** | *****                    | Reg. Mon.<br>MO AVG | 200<br>DAILY MX | ng/L  |           | Monthly                  | GRAB           |

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                          |              |            |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. | <br>SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR<br>AUTHORIZED AGENT | TELEPHONE    | DATE       |
| J. D. Rendall, Manager                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                          | 716 942-4602 | 03/19/2012 |
| TYPED OR PRINTED                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                          | AREA Code    | NUMBER     |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: U.S. DEPT OF ENERGY  
ADDRESS: 1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585  
FACILITY: WEST VALLEY DEMONSTRATION PROJ  
LOCATION: 10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799  
ATTN: BRYAN C BOWER, DIRECTOR

|               |                  |
|---------------|------------------|
| NY0000973     | 01B-M            |
| PERMIT NUMBER | DISCHARGE NUMBER |

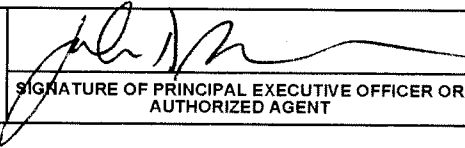
DMR Mailing ZIP CODE: 14171-9799

MAJOR  
(SUBR 09)  
MERCURY PRETREATMENT  
Internal Outfall

| MONITORING PERIOD |            |            |            |
|-------------------|------------|------------|------------|
| MM/DD/YYYY        |            | MM/DD/YYYY |            |
| FROM              | 02/01/2012 | TO         | 02/29/2012 |

No Discharge \*

| PARAMETER                   |                    | QUANTITY OR LOADING |                       |       | QUALITY OR CONCENTRATION |                     |                |       | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|-----------------------------|--------------------|---------------------|-----------------------|-------|--------------------------|---------------------|----------------|-------|--------|-----------------------|-------------|
|                             |                    | VALUE               | VALUE                 | UNITS | VALUE                    | VALUE               | VALUE          | UNITS |        |                       |             |
| Flow rate                   | SAMPLE MEASUREMENT |                     |                       |       | *****                    | *****               | *****          | ***** |        |                       |             |
| 00056 1 0<br>Effluent Gross | PERMIT REQUIREMENT | Reg. Mon.<br>MO AVG | Reg. Mon.<br>DAILY MX | gal/d | *****                    | *****               | *****          | ***** |        | Weekly                | CONTIN      |
| Mercury, total (as Hg)      | SAMPLE MEASUREMENT | *****               | *****                 | ***** | *****                    |                     |                |       |        |                       |             |
| 71900 1 0<br>Effluent Gross | PERMIT REQUIREMENT | *****               | *****                 | ***** | *****                    | Reg. Mon.<br>MO AVG | 50<br>DAILY MX | ng/L  |        | Twice Per<br>Batch    | GRAB        |

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       |              |            |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|
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| J. D. Rendall, Manager                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       | 716 942-4602 | 03/19/2012 |
| TYPED OR PRINTED                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                       | AREA Code    | NUMBER     |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

**NAME:** U.S. DEPT OF ENERGY  
**ADDRESS:** 1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585  
**FACILITY:** WEST VALLEY DEMONSTRATION PROJ  
**LOCATION:** 10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799  
**ATTN:** BRYAN C BOWER, DIRECTOR

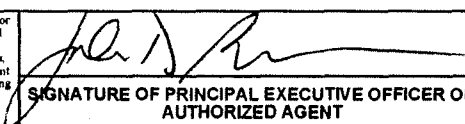
|                      |                         |
|----------------------|-------------------------|
| NY0000973            | 116-M                   |
| <b>PERMIT NUMBER</b> | <b>DISCHARGE NUMBER</b> |

**DMR Mailing ZIP CODE:** 14171-9799  
**MAJOR**  
(SUBR 09)  
**PSEUDO MON. POINT @FRANKS CRK**  
**Internal Outfall**

| MONITORING PERIOD |      |            |    |
|-------------------|------|------------|----|
| MM/DD/YYYY        |      | MM/DD/YYYY |    |
| 02/01/2012        | FROM | 02/29/2012 | TO |

**No Discharge** ☐

| PARAMETER                        |                           | QUANTITY OR LOADING |       |       | QUALITY OR CONCENTRATION |                   |                 |       | NO. EX | FREQUENCY OF ANALYSIS  | SAMPLE TYPE |
|----------------------------------|---------------------------|---------------------|-------|-------|--------------------------|-------------------|-----------------|-------|--------|------------------------|-------------|
|                                  |                           | VALUE               | VALUE | UNITS | VALUE                    | VALUE             | VALUE           | UNITS |        |                        |             |
| Solids, total dissolved          | <b>SAMPLE MEASUREMENT</b> | *****               | ***** | ***** | *****                    | 336               | 387             | mg/L  | 0      | 02/DS                  | CA          |
| 70295 Z 0<br>Instream Monitoring | <b>PERMIT REQUIREMENT</b> | *****               | ***** | ***** | *****                    | Reg Mon<br>MO AVG | 500<br>DAILY MX | mg/L  |        | Twice Per<br>Discharge | CALCTD      |

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |                  |                   |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------|-------------------|
| <b>NAME/TITLE PRINCIPAL EXECUTIVE OFFICER</b> | <small>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</small> |  | <b>TELEPHONE</b> | <b>DATE</b>       |
| J. D. Rendall, Manager                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       | 716 942-4602     | 03/19/2012        |
| <b>TYPED OR PRINTED</b>                       | <b>SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>AREA Code</b>                                                                      | <b>NUMBER</b>    | <b>MM/DD/YYYY</b> |

**COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)**

IF PSEUDO MONITORING POINT REPORT IS NOT REQUIRED DURING THE MONITORING PERIOD, EITHER CHECK THE NO DISCHARGE BOX OR ENTER 'NODIA' IN PLACE OF A MEASUREMENT TO INDICATE A GENERAL PERMIT EXEMPTION.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: U.S. DEPT OF ENERGY  
ADDRESS: 1000 INDEPENDENCE AVE SW  
WASHINGTON, DC 20585  
FACILITY: WEST VALLEY DEMONSTRATION PROJ  
LOCATION: 10282 ROCK SPRINGS ROAD  
WEST VALLEY, NY 14171-9799  
ATTN: BRYAN C BOWER, DIRECTOR

|               |                  |
|---------------|------------------|
| NY0000973     | SUM-N            |
| PERMIT NUMBER | DISCHARGE NUMBER |

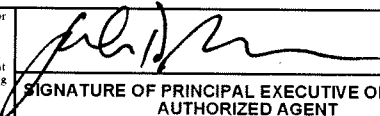
DMR Mailing ZIP CODE: 14171-9799

MAJOR  
(SUBR 09)  
SUM OF OUTFALLS 1 & 7  
Internal Outfall

| MONITORING PERIOD |    |            |  |
|-------------------|----|------------|--|
| MM/DD/YYYY        |    | MM/DD/YYYY |  |
| FROM 02/01/2012   | TO | 02/29/2012 |  |

No Discharge ☐

| PARAMETER                 |                    | QUANTITY OR LOADING |       |       | QUALITY OR CONCENTRATION |                     |               |       | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---------------------------|--------------------|---------------------|-------|-------|--------------------------|---------------------|---------------|-------|--------|-----------------------|-------------|
|                           |                    | VALUE               | VALUE | UNITS | VALUE                    | VALUE               | VALUE         | UNITS |        |                       |             |
| Iron, total (as Fe)       | SAMPLE MEASUREMENT | *****               | ***** | ***** | *****                    | 0.20                | 0.20          | mg/L  | 0      | 01/30                 | CA          |
| 01045 2 0<br>Effluent Net | PERMIT REQUIREMENT | *****               | ***** | ***** | *****                    | Reg. Mon.<br>MO AVG | 1<br>DAILY MX | mg/L  |        | Monthly               | CALCTD      |

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |              |            |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------|------------|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | <small>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</small> |  | TELEPHONE    | DATE       |
| J. D. Rendall, Manager                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       | 716 942-4602 | 03/19/2012 |
| TYPED OR PRINTED                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       | AREA Code    | NUMBER     |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)