

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, 4th Floor
Albany, New York 12233-3506

AC-EA
WR:2011:0005
January 23, 2012

SUBJECT: State Pollutant Discharge Elimination System (SPDES) Discharge Monitoring Report (DMR) for the Period December 1 through December 31, 2011, SPDES Permit No. NY-0000973, West Valley Demonstration Project (WVDP) and Storm Water Monitoring Results for July 1, 2011 through December 31, 2011

Dear Mr. Haugh:

Please find enclosed the West Valley Demonstration Project SPDES DMR for the reporting period December 1 through December 31, 2011, including net iron and Total Dissolved Solids (TDS) concentration sheets, provided in Attachment A. Please note that there was no discharge at outfall 007 and internal outfall 01B during this period. All results for this report are within effluent discharge limits specified in the permit, with one issue noted below.

The second outfall 001 BOD₅ result for the sample collected on December 13, 2011, is not available due to a laboratory instrument readout error. The sample was reanalyzed out of holding time and produced a non-detect value of <2.0 mg/L. This value was qualified as un-reliable because the reanalysis was performed past the hold time.

The pre-discharge sample collected from Lagoon-3 that was collected on November 22, 2011 was reported at 2.1 mg/L, and the first composite collected from the discharge on December 8, 2011 was reported at <2.0 mg/L. Although the second composite sample was analyzed out of holding time, the reported result of <2.0 mg/L is supported by the two previous results and was reported on the DMR. Historically, as outfall 001 is a batch discharge, BOD₅ results for both composite samples are generally identical. Due to the BOD₅ value flagged as unreliable, the calculated UOD result for the second composite was also flagged unreliable and was also reported on the DMR.

Also provided, in Attachment B, are storm water discharge monitoring results for the semi-annual monitoring period of July 1 through December 31, 2011. All storm water discharge monitoring results are within applicable permit limits, specified on page 14 of the permit, for oil and grease. Please note the following, specific to this round of storm water monitoring:

Previous efforts to collect all of the outfalls during this semi-annual period proved difficult to complete while maintaining the sampling criteria required of storm water events. As the period was coming to an end, the decision was made to collect the outfalls where mobilization could occur prior to the start of precipitation and, collect storm water at outfalls that were either at base flow conditions or showing minimal flow from the previous event.

As such, the six outfalls S-04, S-33, S-34, S-14, S-35 and S-36 were collected on October 27, 2011, from a storm event that started on October 26, 2011 and carried into October 27, 2011. A previous event that occurred on October 20, 2011, in the amount of 0.26 inches is listed as the previous measurable flow-generating event.

On October 26, 2011, there was a short duration event that started at 0325 and lasted until 0555 that produced 0.16 inches of precipitation. However, this short duration event did not produce significant outfall flow, and could not be sampled.

A larger event that started at 1950 on October 26 and carried into October 27 did produce flow at the outfalls sufficient for sampling, resulting in an event with a total of 0.71 inches of precipitation. Due to the nature of this event there was base flow present at these locations when the first-flush grab samples were collected.

Outfall S-09 that was collected on November 14, 2011 was sampled after 48 hours from the previous storm event of >0.10 inches of rain that occurred on November 12, 2011. No flow was evident at the outfall at the start of sampling. This outfall is the proposed replacement for the permitted outfall S-09 that was removed from service due to construction of the North Plateau Permeable Treatment Wall completed in 2010. A Sampling and Analysis plan was forwarded to NYSDEC and the complete suite of analysis will be provided to NYSDEC in a separate report (Storm Water Permit Application – Form 2F) at a later date.

Outfall S-09 was inadvertently delivered to the contract laboratory after the holding time had expired for Nitrite as N and was flagged “R” unreliable during the data validation process.

Outfall S-43 was sampled for lead as a first flush only sample in accordance with the WVDP SPDES Permit, dated July 1, 2011. During this monitoring period the reported lead result was 0.0009 mg/L. The action level is 0.006 mg/L.

Storm water sampling was conducted on August 9; October 27; and November 14, 2011 and pH was measured at the on-site rain gauge on each of these dates and recorded as 6.1; 6.7; and 6.7 SU respectively.

As required by the SPDES permit, page 26 of 32, Special Conditions – Industry Best Management Practices, the WVDP hereby certifies in writing that the BMP/SWPPP has been reviewed with minor updates made to site facilities (Attachment C).

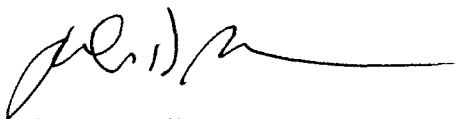
As required in Title 6 of the New York Codes, Rules, and Regulations (6NYCRR) Part 750-2.5(e)(3), the New York Environmental Laboratory Accreditation Program (NYELAP) numbers for the laboratories performing analysis for this DMR are as follows:

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

- Attachments: A) SPDES DMR for December 1 through December 31, 2011 Monitoring Period
- B) Storm Water Discharge Monitoring Results for July 1 through December 31, 2011 Monitoring Period
- C) BMP/SWPP Certification

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

* Without attachments

ATTACHMENT A
SPDES DISCHARGE MONITORING REPORT - DECEMBER 1 THROUGH DECEMBER 31, 2011
NET IRON EFFLUENT CONCENTRATION CALCULATION
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT NO. NY-0000973

$$\text{OUTFALL 001} = M1 = \frac{(X1 + X2) V1}{2} = 4397062.87 \text{ mg/month}$$

$$X1 = 0.536 \text{ mg/L}$$

$$X2 = 0.741 \text{ mg/L}$$

$$V1 = 6886551.10 \text{ L/month}$$

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

$$X1 = 0.00 \text{ mg/L}$$

$$X2 = 0.00 \text{ mg/L}$$

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

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

$$\text{RAW WATER} = MRW = \frac{(X1 + X2 + X3 + X4) VRW}{4} = 2173210.62 \text{ mg/month}$$

$$X1 = 1.46 \text{ mg/L}$$

$$X2 = 0.573 \text{ mg/L}$$

$$X3 = 0.575 \text{ mg/L}$$

$$X4 = 0.459 \text{ mg/L}$$

$$VRW = 2834314.46 \text{ L/month}$$

$$\text{IRON DISCHARGE CONCENTRATION} = \frac{M1 + M7 + M8 - MRW}{V1 + V7 + V8} = 0.32 \text{ mg/L}$$

ATTACHMENT A (Cont'd)
SPDES DISCHARGE MONITORING REPORT - DECEMBER 1 THROUGH DECEMBER 31, 2011
TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION CALCULATION - MONITORING POINT 116
WEST VALLEY DEMONSTRATION PROJECT, SPDES PERMIT No. NY-0000973

Date: December 7, 2011

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= ((0.265 \text{ MGD})(742 \text{ mg/L}) + (1.075 \text{ MGD})(160 \text{ mg/L}) + (0.324 \text{ MGD})(119 \text{ mg/L})) / (1.664 \text{ MGD}) \\ &= 245 \text{ mg/L} \end{aligned}$$

Date: December 13, 2011

$$\begin{aligned} C4 &= ((Q1)(C1) + (Q2)(C2) + (Q3)(C3)) / Q4 \\ &= (0.265 \text{ MGD})(822 \text{ mg/L}) + (0.364 \text{ MGD})(201 \text{ mg/L}) + (0.324 \text{ MGD})(91 \text{ mg/L}) / (0.953 \text{ MGD}) \\ &= 336 \text{ mg/L} \end{aligned}$$

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
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 12/01/2011	TO	12/31/2011	

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	*****	*****	*****	*****	45	45	mg/L	0	1/BA	24
00154 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Once Per Batch	COMP24
Oxygen demand, ultimate	SAMPLE MEASUREMENT	*****	*****	*****	*****	<4.46	<4.65	mg/L	0	2/BA	CA
00181 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	22 DAILY MX	mg/L		Twice Per Batch	CALCTD
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	*****	*****	*****	9.4	*****	13.4	mg/L	0	2/BA	GR
00300 1 0 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	2/BA	24
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	10 DAILY MX	mg/L		Twice Per Batch	COMP24
pH	SAMPLE MEASUREMENT	*****	*****	*****	7.9	*****	7.9	SU	0	1/BA	GR
00400 1 0 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	2/BA	24
00530 1 0 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	2/BA	GR
00545 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	3 DAILY MX	mL/L		Twice 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 TYPED OR PRINTED		716 942-4602	01/19/2012
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code	NUMBER
			MM/DD/YYYY

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

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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			
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FROM 12/01/2011	TO	12/31/2011	

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	*****	*****	*****	*****	<1.4	<1.4	mg/L	0	1/BA	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	15 DAILY MX	mg/L		Once Per Batch	GRAB
Nitrogen, nitrite total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.02	<0.02	mg/L	0	1/BA	24
00615 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	1 DAILY MX	mg/L		Once Per Batch	COMP24
Nitrogen, nitrate total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.39	0.39	mg/L	0	1/BA	24
00620 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Once Per Batch	COMP24
Nitrogen, Kjeldahl, total (as N)	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.32	0.36	mg/L	0	2/BA	24
00625 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Twice Per Batch	COMP24
Sulfide, dissolved, (as S)	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.05	<0.05	mg/L	0	1/BA	24
00746 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	4 DAILY MX	mg/L		Once Per Batch	COMP24
Arsenic, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.0018	0.0018	mg/L	0	1/BA	24
00978 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	15 DAILY MX	mg/L		Once Per Batch	COMP24
Cobalt, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.0003	0.0003	mg/L	0	1/BA	GR
00979 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	005 DAILY MX	mg/L		Once Per Batch	GRAB

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NY0000973
PERMIT NUMBER

001-M
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 14171-9799
MAJOR
(SUBR 09)
OUTFALL 001 MONTHLY PROC WW, GW, STO
External Outfall
No Discharge ☐

MONITORING PERIOD			
MM/DD/YYYY		MM/DD/YYYY	
FROM 12/01/2011		TO 12/31/2011	

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	*****	*****	*****	*****	0.002	0.002	mg/L	0	1/BA	GR
00981 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	004 DAILY MX	mg/L		Once Per Batch	GRAB
Iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.639	0.741	mg/L	0	2/BA	24
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Twice Per Batch	COMP24
Aluminum, total (as Al)	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.55	0.55	mg/L	0	1/BA	24
01105 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	2 MO AVG	4 DAILY MX	mg/L		Once Per Batch	COMP24
Vanadium, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.0011	<0.0011	mg/L	0	1/BA	GR
01128 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	014 DAILY MX	mg/L		Once Per Batch	GRAB
Nitrogen, ammonia, total (as NH3)	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.098	0.11	mg/L	0	2/BA	24
04726 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	1.5 MO AVG	2.1 DAILY MX	mg/L		Twice Per Batch	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.265	0.335	MGD	*****	*****	*****	*****	0	2/BA	CN
00050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	*****	*****	*****	*****		Twice Per Batch	CONTIN
Chlorine, total residual	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.06	0.06	mg/L	0	1/BA	GR
00060 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	1 DAILY MX	mg/L		Once Per Batch	GRAB

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OUTFALL 001 MONTHLY PROC WW, GW, STO
External Outfall

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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 70295 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	782	822	mg/L	0	2/BA	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Twice Per Batch	GRAB
Mercury, total (as Hg) 71900 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	11	11	ng/L	0	1/BA	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	50 MO AVG	Req. Mon. DAILY MX	ng/L		Once Per Batch	GRAB
Surfactants (linear alkylate sulfonate) 81646 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.013	<0.013	mg/L	0	1/BA	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Once Per Batch	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

J. D. Rendall, Manager

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

TELEPHONE

716 942-4602

AREA Code

NUMBER

DATE

01/19/2012

MM/DD/YYYY

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

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

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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	12/01/2011	TO	12/31/2011

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	*****	*****	*****	*****						
00181 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	22 DAILY MX	mg/L		Monthly	CALCTD
Oxygen, dissolved (DO)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	3 MINIMUM	*****	Req. Mon. MAXIMUM	mg/L		Twice Per Month	GRAB
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	10 DAILY MX	mg/L		Twice Per Month	COMP24
pH	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	6.5 MINIMUM	*****	8.5 MAXIMUM	SU		Twice Per Month	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	30 MO AVG	45 DAILY MX	mg/L		Twice Per Month	COMP24
Solids, settleable	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00545 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	3 DAILY MX	mL/L		Twice Per Month	GRAB
Oil & Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00556 1 0 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 ensure 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	01/19/2012
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA Code
			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	007-M
PERMIT NUMBER	DISCHARGE NUMBER

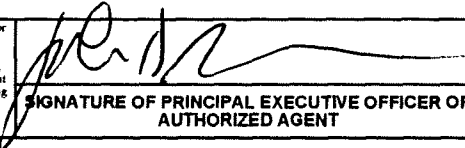
DMR Mailing ZIP CODE: 14171-9799

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

MONITORING PERIOD				
MM/DD/YYYY		TO	MM/DD/YYYY	
FROM 12/01/2011			12/31/2011	

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) 00615 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	1 DAILY MX	mg/L		Monthly	COMP24
Nitrogen, Kjeldahl, total (as N) 00625 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Monthly	COMP24
Iron, total (as Fe) 01045 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Twice Per Month	COMP24
Nitrogen, ammonia, total (as NH3) 34726 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	1.49 MO AVG	2.1 DAILY MX	mg/L		Twice Per Month	COMP24
Flow, in conduit or thru treatment plant 50050 1 0 Effluent Gross	SAMPLE MEASUREMENT				*****	*****	*****	*****			
	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	Mgal/d	*****	*****	*****	*****		Monthly	CONTIN
Chlorine, total residual 50060 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	1 DAILY MX	mg/L		Monthly	GRAB
Solids, total dissolved 70295 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	Req. Mon. DAILY MX	mg/L		Twice Per Month	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER J. D. Rendall, Manager 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	TELEPHONE 716 942-4602		DATE 01/19/2012 MM/DD/YYYY
			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	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 12/01/2011	TO	12/31/2011	

No Discharge ☒

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Mercury, total (as Hg)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
71900 10 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Reg. Mon. MO AVG	200 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.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE	
J. D. Rendall, Manager TYPED OR PRINTED			716 942-4602	01/19/2012	
			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
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		TO	MM/DD/YYYY
FROM 12/01/2011			12/31/2011

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 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	gal/d	*****	*****	*****	*****		Weekly	CONTIN
Mercury, total (as Hg)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
71900 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	50 DAILY MX	ng/L		Twice 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 TYPED OR PRINTED		716 942-4602 AREA Code NUMBER	01/19/2012 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

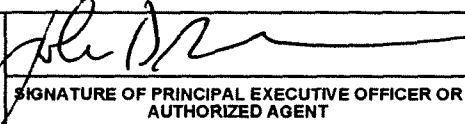
NY0000973	116-M
PERMIT NUMBER	DISCHARGE NUMBER

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

MONITORING PERIOD			
MM/DD/YYYY		MM/DD/YYYY	
FROM 12/01/2011	TO	12/31/2011	

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	*****	*****	*****	*****	291	336	mg/L	0	2/DS	CA
0295 Z 0 Instream Monitoring	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. MO AVG	500 DAILY MX	mg/L		Twice Per Discharge	CALCTD

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.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
J. D. Rendall, Manager TYPED OR PRINTED			716 942-4602	01/19/2012
			AREA Code	NUMBER
			MM/DD/YYYY	

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 12/01/2011	TO	12/31/2011	

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	*****	*****	*****	*****	0.32	0.32	mg/L	0	01/30	CA
01045 2 0 Effluent Net	PERMIT REQUIREMENT	*****	*****	*****	*****	Reg Mon. MO AVG	1 DAILY MX	mg/L		Monthly	CALCTD

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		01/19/2012
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code NUMBER MM/DD/YYYY

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

Attachment B

Storm Water Discharge Monitoring Results for July 1 through December 31, 2011 Monitoring Period

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 1, OUTFALL S04
Monitoring Period: July 1 through December 31, 2011**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	6.6 S.U.	N.R.	Not Specified in Permit
	Oil and Grease	3.0	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	< 4.0	< 4.0	
	Total Dissolved Solids (TDS)	333	326	
	Phosphorus, Total	< 0.005	< 0.005	
Group B Parameters	Aluminum	0.37	0.15	
	Iron	0.67	0.22	
	Copper, Total Recoverable (TR)	0.0018	0.0016	
	Lead (TR)	0.00027	0.00011	
	Zinc (TR)	0.0081	0.0042	
Group C Parameters	Total Nitrogen (as N)	< 1.0	< 1.0	
	TKN	0.99	0.99	
	Nitrate Nitrogen (as N)	< 0.011	< 0.011	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	< 0.009	0.025	
	Cadmium, TR	< 0.000018	< 0.000018	
	Chromium, TR	0.00048	0.0001	
	Hexavalent Chromium, TR	< 0.005	< 0.005	
	Selenium, TR	< 0.00044	< 0.00044	
	Vanadium, TR	0.00023	< 0.00018	
	Surfactant (as LAS)	N.R.	N.R.	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	316,000	
	Maximum Flow rate, gallons per minute	2,100	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/27/11	10/27/11	
	Duration of storm event, in minutes	N.R.	1075	Rain started at 1950 EDT on 10/26/11 and ended at 1345 EDT on 10/27/11.
	Date and Time of sample collection	10/27/11 1200	10/27/11 1455	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.71	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event (Please see cover letter)	N.R.	140	Precipitation of 0.26 inches was recorded on 10/20/11 at 2300 EST. Outfall was slightly above base flow conditions upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 2, OUTFALL S33/DUPLICATE
Monitoring Period: July 1 through December 31, 2011**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	6.9 S.U.	N.R.	Not Specified in Permit.
	Oil and Grease	2.6 / 3.6	N.R.	15 mg/L
	BOD-5	< 2.0 / < 2.0	< 2.0	Not specified in permit.
	Total Suspended Solids (TSS)	6.8 / 7.6	< 4.0	N.R. = Not Required.
	Total Dissolved Solids (TDS)	314 / 309	300	
	Phosphorus, Total	< 0.005 / 0.042	0.026	
Group B Parameters	Aluminum	0.084 / 0.075	0.099	
	Iron	0.86 / 1.1	0.86	
	Copper, Total Recoverable (TR)	0.0011 / 0.0012	0.00096	
	Lead (TR)	0.00019 / 0.00012	0.00013	
	Zinc (TR)	0.0038 / 0.0050	0.0044	
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)	<0.013 / <0.013	0.017	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	89,000	
	Maximum Flow rate, gallons per minute	580	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/27/11	10/27/11	
	Duration of storm event, in minutes	N.R.	1075	Rain started at 1950 EDT on 10/26/11 and ended at 1345 EDT on 10/27/11.
	Date and Time of sample collection	10/27/11 1205	10/27/11 1500	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.71	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event (Please see cover letter)	N.R.	140	Precipitation of 0.26 inches was recorded on 10/20/11 at 2300 EST. Outfall was above base flow conditions upon arrival.

STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 3, OUTFALL S09
Monitoring Period: July 1 through December 31, 2011

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	9.3 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.4	N.R.	15 mg/L
	BOD-5	3.6	4.1	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	6.4	142	
	Total Dissolved Solids (TDS)	188	87	
	Phosphorus, Total	0.40	0.66	
Group B Parameters	Aluminum	9.5	9.4	
	Iron	11	11	
	Copper, Total Recoverable (TR)	0.012	0.015	
	Lead (TR)	0.010	0.0084	
	Zinc (TR)	0.25	0.13	
Group C Parameters	Total Nitrogen (as N)	< 0.59	< 1.2	
	TKN	0.54	1.0	
	Nitrate Nitrogen (as N)	0.026	0.16	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.18	0.094	
	Cadmium, TR	N.R.	N.R.	
	Chromium, TR	N.R.	N.R.	
	Hexavalent Chromium, TR	N.R.	N.R.	
	Mercury, T (1631E)	0.000028	N.R.	
	Selenium, TR	N.R.	N.R.	
	Vanadium, TR	N.R.	N.R.	
	Surfactant (as LAS)	N.R.	N.R.	
	Alpha BHC	< 0.0000067	< 0.0000067	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	207,000	
	Maximum Flow rate, gallons per minute	3,400	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	11/14/11	11/14/11	
	Duration of storm event, in minutes	N.R.	385	Rain started at 1525 EST on 11/14/11 and ended at 2150 EST on 11/14/11.
	Date and Time of sample collection	11/14/11 1600	11/14/11 1900	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	1.06	An additional 0.33 inches was recorded after sampling ended for a storm total of 1.39 inches.
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	48	Precipitation of 0.42 inches was recorded on 11/12/11 at 1520 EST. No flow at outfall upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 4, OUTFALL S34
Monitoring Period: July 1 through December 31, 2011**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.6 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.4	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Nor Required.
	Total Suspended Solids (TSS)	15	4.4	
	Total Dissolved Solids (TDS)	172	158	
	Phosphorus, Total	0.044	< 0.005	
Group B Parameters	Aluminum	0.78	0.74	
	Iron	0.73	0.76	
	Copper, Total Recoverable (TR)	0.0019	0.0014	
	Lead (TR)	0.00057	0.00046	
	Zinc (TR)	0.014	0.014	
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)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	255,000	
	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	10/27/11	10/27/11	
	Duration of storm event, in minutes	N.R.	1075	Rain started at 1950 EDT on 10/26/11 and ended at 1345 EDT on 10/27/11.
	Date and Time of sample collection	10/27/11 1240	10/27/11 1520	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.71	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event (Please see cover letter)	N.R.	140	Precipitation of 0.26 inches was recorded on 10/20/11 at 2300 EST. Outfall was at base flow conditions upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 5, OUTFALL S14**

Monitoring Period: July 1 through December 31, 2011

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	7.3 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.4	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	< 4.0	< 4.0	
	Total Dissolved Solids (TDS)	635	653	
	Phosphorus, Total	< 0.005	< 0.005	
Group B Parameters	Aluminum	0.098	0.068	
	Iron	0.45	0.47	
	Copper, Total Recoverable (TR)	0.0020	0.0013	
	Lead (TR)	0.00010	0.000080	
	Zinc (TR)	0.0032	0.0020	
Group C Parameters	Total Nitrogen (as N)	< 1.5	< 1.2	
	TKN	1.5	1.2	
	Nitrate Nitrogen (as N)	0.021	< 0.011	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.036	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	< 0.00018	< 0.00018	
	Surfactant (as LAS)	< 0.013	0.029	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	< 0.1	< 0.1	
	Sulfide	< 0.052	< 0.052	
Flow	Total Flow, gallons	N.R.	406	
	Maximum Flow rate, gallons per minute	2.6	N.R.	
	Method of flow measurement	Weir		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/27/11	10/27/11	
	Duration of storm event, in minutes	N.R.	1075	Rain started at 1950 EDT on 10/26/11 and ended at 1345 EDT on 10/27/11.
	Date and Time of sample collection	10/27/11 1255	10/27/11 1535	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.71	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event (Please see cover letter)	N.R.	140	Precipitation of 0.26 inches was recorded on 10/20/11 at 2300 EST. Outfall was above base flow conditions upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 6, OUTFALL S36**

Monitoring Period: July 1 through December 31, 2011

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	7.2 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.4	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit.
	Total Suspended Solids (TSS)	42	8.8	N.R. = Not required.
	Total Dissolved Solids (TDS)	219	228	
	Phosphorus, Total	< 0.005	< 0.005	
Group B Parameters	Aluminum	1.8	0.43	
	Iron	3.1	0.79	
	Copper, Total Recoverable (TR)	0.0030	0.0016	
	Lead (TR)	0.0010	0.00047	
	Zinc (TR)	0.031	0.014	
Group C Parameters	Total Nitrogen (as N)	< 1.1	< 0.89	
	TKN	1.0	0.76	
	Nitrate Nitrogen (as N)	0.12	0.11	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.038	0.034	
	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	0.0011	0.00043	
	Surfactant (as LAS)	< 0.013	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	0.2	0.1	
	Sulfide	< 0.052	< 0.052	
Flow	Total Flow, gallons	N.R.	4,200	
	Maximum Flow rate, gallons per minute	12	N.R.	
	Method of flow measurement	Weir		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/27/11	10/27/11	
	Duration of storm event, in minutes	N.R.	1075	Rain started at 1950 EDT on 10/26/11 and ended at 1345 EDT on 10/27/11.
	Date and Time of sample collection	10/27/11 1240	10/27/11 1520	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during sampling event, in inches	N.R.	0.71	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event (Please see cover letter)	N.R.	140	Precipitation of 0.26 inches was recorded on 10/20/11 at 2300 EST. Outfall was above base flow conditions upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 7, OUTFALL S20
Monitoring Period: July 1 through December 31, 2011**

Parameter Group	Parameter	Results in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.4 S.U.	N.R.	Not specified in permit.
	Oil and Grease	< 1.4	N.R.	15 mg/L
	BOD-5	2.5	< 2.0	Not specified in permit. N.R. = Not required.
	Total Suspended Solids (TSS)	8.0	4.8	
	Total Dissolved Solids (TDS)	23	15	
	Phosphorus, Total	< 0.005	< 0.005	
Group B Parameters	Aluminum	0.32	0.36	
	Iron	0.42	0.48	
	Copper, Total Recoverable (TR)	0.00098	0.00080	
	Lead (TR)	0.00035	0.00036	
	Zinc (TR)	0.0063	0.0058	
Group C Parameters	Total Nitrogen (as N)	< 0.93	< 0.48	
	TKN	0.22	< 0.15	
	Nitrate Nitrogen (as N)	0.69	0.31	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.10	0.034	
	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)	0.037	0.018	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	< 0.052	< 0.052	
Flow	Total Flow, gallons	N.R.	72,000	
	Maximum Flow rate, gallons per minute	580	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	8/9/11	8/9/11	
	Duration of storm event, in minutes	N.R.	815	Rain started at 0850 EDT on 8/9/11 and ended at 2225 EDT on 8/9/11.
	Date and Time of sample collection	8/9/11 0920	8/9/11 1200	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.27	An additional 0.56 inches was recorded after sampling was completed for 0.83 inches total..
	Number of hours between event sampled and previous measurable (> 0.1 inch) event	N.R.	136	Precipitation of 0.41 inches was recorded on 8/3/11 at 1545 EST. Outfall was at base flow conditions upon arrival.

**STORM WATER DISCHARGE MONITORING DATA
FOR OUTFALL GROUP 8, OUTFALL S35**

Monitoring Period: July 1 through December 31, 2011

Parameter Group	Parameter	Results, in mg/L		Permit No. NY-0000973 Compliance Limit
		First Flush Grab	Flow-weighted Composite	
Group A Parameters	pH	7.0 S.U.	N.R.	Not specified in permit.
	Oil and Grease	3.0	N.R.	15 mg/L
	BOD-5	< 2.0	< 2.0	Not specified in permit. N.R. = Not Required.
	Total Suspended Solids (TSS)	18	15	
	Total Dissolved Solids (TDS)	238	265	
	Phosphorus, Total	< 0.005	< 0.005	
Group B Parameters	Aluminum	1.4	1.2	
	Iron	0.78	0.82	
	Copper, Total Recoverable (TR)	0.0024	0.0020	
	Lead (TR)	0.0021	0.0016	
	Zinc (TR)	0.022	0.017	
Group C Parameters	Total Nitrogen (as N)	< 0.83	< 0.86	
	TKN	0.74	0.83	
	Nitrate Nitrogen (as N)	0.071	< 0.011	
	Nitrite Nitrogen (as N)	< 0.020	< 0.020	
	Ammonia Nitrogen (as NH3)	0.014	0.045	
	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	< 0.013	
	Alpha BHC	N.R.	N.R.	
	Settleable Solids	N.R.	N.R.	
	Sulfide	N.R.	N.R.	
Flow	Total Flow, gallons	N.R.	27,000	
	Maximum Flow rate, gallons per minute	164	N.R.	
	Method of flow measurement	Staff Gauge		
Rainfall Event and Monitoring Summary	Date(s) of event monitored	10/27/11	10/27/11	
	Duration of storm event, in minutes	N.R.	1075	Rain started at 1950 EDT on 10/26/11 and ended at 1345 EDT on 10/27/11.
	Date and Time of sample collection	10/27/11 1200	10/27/11 1440	
	Sampling Duration (Minutes)	Instantaneous	180	
	Total rainfall during event, in inches	N.R.	0.71	
	Number of hours between event sampled and previous measurable (> 0.1 inch) event (Please see cover letter)	N.R.	140	Precipitation of 0.26 inches was recorded on 10/20/11 at 2300 EST. Slight flow was evident at outfall upon arrival.

Attachment C

BMP/SWPPP CERTIFICATION

ATTACHMENT C

**WVDP SPDES Permit "Special Conditions – Industry Best Management Practices,"
Permittee Certification of Annual Review by December**

I certify under penalty of law that the annual review of the Clean Water Act /SPDES BMP and Storm Water Pollution Prevention Plan for the WVDP (WVDP-206) was completed by December 31, 2012, as per the "Special Conditions – Industry Best Practices" section of the SPDES Permit.

Bryan C. Bower, US Department of Energy, Project Director,
West Valley Demonstration Project

Name/Title (type or print)

Signature

Date signed

01-19-2012