Department of Energy

Portsmouth/Paducah Project Office
1017 Majestic Drive, Suite 200
Lexington, Kentucky 40513
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MAY 23 2012

Ms. April Webb, Hazardous Waste Branch Manager
Kentucky Department for Environmental Protection
Division of Waste Management
200 Fair Oaks Lane, 2nd Floor
Frankfort, Kentucky 40601

PPPO-02-1443714-12B

Dear Ms. Webb:

SOLID WASTE MANAGEMENT UNIT ASSESSMENT REPORTS - SOLID WASTE MANAGEMENT UNITS 569 AND 570, PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY, MCCRACKEN COUNTY, KY8-890-008-982, AGENCY INTEREST NO. 3059

Reference: Letter from R. Knerr to A. Webb, "Notification of New Solid Waste Management Units for Sample Return Accumulation Areas, Paducah Gaseous Diffusion Plant, Paducah, Kentucky, McCracken County KY8-890-008-982, Agency Interest No. 3059," (PPPO-02-1410121-12), dated February 23, 2012

In accordance with Condition AAZZ1, T-151, of the Hazardous Waste Facility Permit (KY8-890-008-982), the U.S. Department of Energy is submitting Solid Waste Management Unit (SWMU) Assessment Reports for newly identified SWMU 569 and SWMU 570. Notification of these new SWMUs was submitted on February 23, 2012.

If you have any questions or require additional information, please contact Rob Seifert at (270) 441-6823.

Sincerely,

Reinhard Knerr
Paducah Site Lead
Portsmouth/Paducah Project Office

Enclosures:
1. Certification Page
2. SAR for SWMU 569
3. SAR for SWMU 570

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CERTIFICATION

Document Identification: **Solid Waste Management Unit Assessment Reports—Solid Waste Management Units 569 and 570**

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 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.

LATA Environmental Services of Kentucky, LLC

Mark J. Duff, Paducah Project Manager

5-23-12
Date Signed

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 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.

U.S. Department of Energy

Reinhard Knerr, Paducah Site Lead
Portsmouth/Paducah Project Office

5/23/12
Date Signed

C-743-T17 Sample Return Refrigerator
Solid Waste Management Unit (SWMU) Assessment Report

SWMU/AOC NUMBER: 569

DATE OF ORIGINAL SAR: 05/22/12

DATE OF SAR REVISIONS: NA

REGULATORY STATUS: SWMU

LOCATION: Sample storage refrigerator in the southwest corner of C-743-T17 trailer

APPROXIMATE DIMENSION OR CAPACITY: 6 ft x 2 ft

FUNCTION: Storage of samples returned from analytical laboratories

BRIEF HISTORY: Unused portions of samples were returned after laboratory analysis, if the laboratory was not required to dispose of them. From mid-2004 to late August 2011, returned samples were located in refrigerator within Trailer C-743-T17. On February 23, 2012, DOE provided notification to the Kentucky Hazardous Waste Branch of the discovery of a new SWMU for the sample storage refrigerator in the southwest corner of the C-743-T17 trailer. The waste items discovered in this area included hazardous waste, low-level waste, mixed waste, polychlorinated biphenyl waste, and solid waste with hazardous constituents below regulatory thresholds. In early September 2011, this area was designated as a satellite accumulation area (S-743-T17-05). The waste was categorized and transferred to lab packs stored at a permitted storage facility. Following the removal of the sample returns, the satellite accumulation area was closed out on November 3, 2011. This SWMU assessment report documents that applicable closure requirements have been achieved, and no hazardous waste closure plan or certification is required for this unit.

PRESENT OPERATIONAL STATUS: Inactive for waste storage. Refrigerator is being used for staging samples for transfer to an analytical laboratory.

DATES OPERATED: Mid-2004 to November 1, 2011

SITE/PROCESS DESCRIPTION: Waste storage area.

WASTE DESCRIPTION: Excess samples returned from the laboratory. Wastes were accumulated in small sample bottles ranging in size from 20 milliliters to 1 liter. A list of samples stored in this unit in included below.

WASTE QUANTITY: A total of approximately 41 gal of hazardous waste and 3 gal of low-level waste was removed. Currently no waste remains in this unit.

SUMMARY OF ENVIRONMENTAL SAMPLING DATA: No sampling of environmental media has occurred.

DESCRIPTION OF RELEASE AND MEDIA AFFECTED: None Known

GROUNDWATER:	None Known
SURFACE WATER:	None Known
SOIL:	None Known
ECOLOGY AFFECTED: (i.e., threatened/endangered species)**:**	None Known

DOCUMENTATION OF NO RELEASE: There have been no known spills or releases of materials from this SWMU to the environment. The area was visually inspected for signs of spills/release and none were noted, nor any other documentation located to indicate spills/releases.

IMPACT ON OR BY OTHER SWMU/AOC: There is no evidence that this SWMU impacts or is being impacted by other SWMUs.

PRG COMPARISON: N/A

RFI NECESSARY: No. The waste in this SWMU was stored inside a building within a closed refrigerator. All wastes have been removed from this SWMU. This unit is being proposed for no further action since it is no longer active, has no evidence of releases to the environment, and is not believed to pose a risk to human health or the environment.

OPERABLE UNIT ASSIGNMENT: NA

SWMU 569 Waste Description and Quantity

Sample ID	Volume	RFD #	Disposition/Storage as of 11/01/2011
SOU211001SA001	1500mL	109207-01	C-752-A
SOU211001SA004	1000mL	109207-01	C-752-A
SOU215001SA001	900mL	109207-01	C-752-A
SOU216001SA001	900mL	109207-01	C-752-A
SOU222001SA001	700mL	109207-01	C-752-A
SOU2280045A001	900mL	109207-01	C-752-A
33508212CSW0771401	125mL	109207-01	C-752-A
33508212CSW0771402	125mL	109207-01	C-752-A
33580212CSW0771401B	125mL	109207-01	C-752-A
C410ZO53CABLE-01	250mL	109207-01	C-752-A
B1-DUSTCOLLMU-S	500mL	109207-01	C-752-A
B1-TSIEVESHAKEMU-S	500mL	109207-01	C-752-A
C1-BALLMILLSU-S	500mL	109207-01	C-752-A
C2-BLLMLLHPSU-S	500mL	109207-01	C-752-A
OFO10-10-FD-08	750mL	109207-01	C-752-A
CAXU350033-117A	250mL	109207-01	C-752-A
CAXU350033-1186	250mL	109207-01	C-752-A
CAXU350033-1186	500mL	109207-01	C-752-A
CAXU350033-118A	250mL	109207-01	C-752-A
CAXU350033-118A	500mL	109207-01	C-752-A
CAXU350033-118B	250mL	109207-01	C-752-A
CAXU350033-118C	500mL	109207-01	C-752-A
CAXU350033-118C	500mL	109207-01	C-752-A
CAXU350033-118C	500mL	109207-01	C-752-A
CAXU350033-118D	500mL	109207-01	C-752-A
CAXU350033-118H	1000mL	109207-01	C-752-A
CAXU350033-118I	1000mL	109207-01	C-752-A
CAXU350182-1156	200mL	109207-01	C-752-A
CAXU350182-115A	200mL	109207-01	C-752-A
CAXU350182-115B	200mL	109207-01	C-752-A
CAXU350182-115C	200mL	109207-01	C-752-A
CAXU350182-115H	200mL	109207-01	C-752-A
CAXU350394-117A	500mL	109207-01	C-752-A
CAXU350091-107A	250mL	109207-01	C-752-A
CAXU350091-107B	125mL	109207-01	C-752-A
CAXU350289-076A	125mL	109207-01	C-752-A
CAXU350289-076B	100mL	109207-01	C-752-A
T01U452712-0538A	100mL	109207-01	C-752-A
T01U452712-0538M	100mL	109207-01	C-752-A
TOLU467778-073A	250mL	109207-01	C-752-A
TOLU467778-073B	250mL	109207-01	C-752-A
TOLU467778-073D	250mL	109207-01	C-752-A

Sample ID	Volume	RFD #	Disposition/Storage as of 11/01/2011
TPHU252007-054A	125mL	109207-01	C-752-A
TPHU252007-055A	100mL	109207-01	C-752-A
TPHU252007-055B	100mL	109207-01	C-752-A
TRLU900282-065A	100mL	109207-01	C-752-A
TRLU900282-065B	100mL	109207-01	C-752-A
SALVCAS09570	100mL	109207-01	C-752-A
MISCSLDCAS17667	500mL	109207-01	C-752-A
0301021	500mL	109207-01	C-752-A
0301021	500mL	109207-01	C-752-A
0301021-5	500mL	109207-01	C-752-A
0306-067	500mL	109207-01	C-752-A
EES-WDM-063	1L	109208-01	C-752-A
HC-1484-01	500ML	109208-01	C-752-A
5536A-01	500ML	109208-01	C-752-A
7611-01	500ML	109208-01	C-752-A
TSCAIPF01-108843-01	125ML	109208-01	C-752-A
TSCAIPF01-108843-01	125ML	109208-01	C-752-A
MLLW08PCB61905-01	1L	109208-01	C-752-A
104646-01-01	500ML	109208-01	C-752-A
108279COMP-01	500ML	109208-01	C-752-A
116003-01-01	500ML	109208-01	C-752-A
C746DWLDMTR-01	500ML	109208-01	C-752-A
104894-01	125ML	109208-01	C-752-A
104894-01 (QTY 2)	80ML	109208-01	C-752-A
104894-01D2	1L	109208-01	C-752-A
104894-02	160ML	109208-01	C-752-A
104894-02 (QTY 3)	1.25L	109208-01	C-752-A
107751-01-01 (OTY4)	2.25L	109208-01	C-752-A
107751-01-01D (QTY 3)	3L	109208-01	C-752-A
107751-01-01T (QTY 3)	3L	109208-01	C-752-A
UCLQ05-01-01	500ML	109208-01	C-752-A
WOP03-403-PIT-01	15L	109208-01	C-752-A
WWD08-07-01 (QTY 2)	1L (QTY2)	109208-01	C-752-A
WWD08-07-01 (QTY 2)	1L (QTY2)	109208-01	C-752-A
WWD09-08-01	2.75L	109208-01	C-752-A
WWD09-08-01	2L	109208-01	C-752-A
WWD09-08-01	2L	109208-01	C-752-A
WWD09-08-01	2.25L	109208-01	C-752-A
WWD09-08-01	2.5L	109208-01	C-752-A
WWD09-08-01	3L	109208-01	C-752-A
WOP09-ALKLIQ01	26L	109208-02	C-752-A
62155-01-01	1.75L	109208-02	C-752-A
30999COMP-01	1.75L	109208-02	C-752-A
SOU10-C403-WW10FT	12.5L	109208-02	C-752-A
SOU10-C403-WW20FT	5.5L	109208-02	C-752-A
LSL-SI-305401	125ML	109208-02	C-752-A

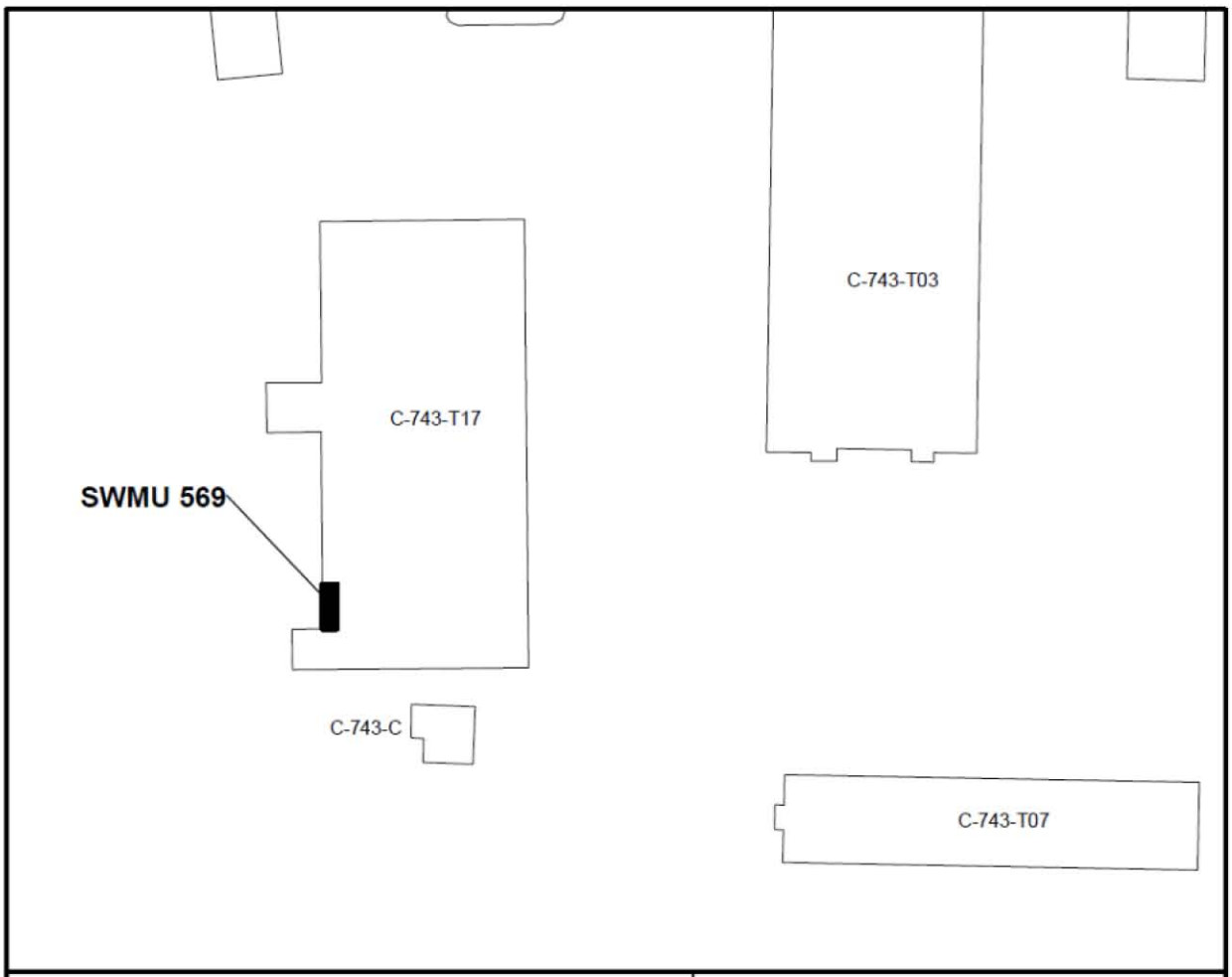
Sample ID	Volume	RFD #	Disposition/Storage as of 11/01/2011
LSL-SI-208401	125ML	109208-02	C-752-A
LSL-HC-0406-010	125ML	109208-02	C-752-A
LFL-SI-063201	125ML	109208-02	C-752-A
LFL-SI-208401D	125ML	109208-02	C-752-A
LFL-SI-42340101	125ML	109208-02	C-752-A
UP039-9469-02	2.250L	109208-02	C-752-A
UP039-14701-18	2000ML	109208-02	C-752-A
UP039-14701-18D	2.50L	109208-02	C-752-A
07PCB-06-COMP	1 L	109208-02	C-752-A
07PCB-02-COMP	2.5L	109208-02	C-752-A
07PCB-05-COMP	3L	109208-02	C-752-A
07PCB-03-COMPD	2.250L	109208-02	C-752-A
07PCB-05-COMP	2L	109208-02	C-752-A
07PCB-01-COMP	1.750L	109208-02	C-752-A
103813-01-01	400mL	109209-01	C-752-A
105282-04-01	500mL	109209-01	C-752-A
SI-0439-01	80mL	109209-01	C-752-A
SI-1300-01	80mL	109209-01	C-752-A
11059-03-01	80mL	109209-01	C-752-A
11059-07-01	80mL	109209-01	C-752-A
RC-11320-01	80mL	109209-01	C-752-A
101055-01-01	80mL	109209-01	C-752-A
101055-02-01	80mL	109209-01	C-752-A
5374-01-01	80mL	109209-01	C-752-A
22821-005-01	80mL	109209-01	C-752-A
22821-006-01	80mL	109209-01	C-752-A
22821-007-01	80mL	109209-01	C-752-A
102431-01-01	80mL	109209-01	C-752-A
55915-01-01	80mL	109209-01	C-752-A
05980-01-01	80mL	109209-01	C-752-A
14007-01-01	80mL	109209-01	C-752-A
14008-01-01	80mL	109209-01	C-752-A
2383-01-01	100mL	109209-01	C-752-A
57492-01-01	40mL	109209-01	C-752-A
57492-02-01	40mL	109209-01	C-752-A
SI-3096-01	80mL	109209-01	C-752-A
SI-3097-01	80mL	109209-01	C-752-A
SI-3503-01	80mL	109209-01	C-752-A
22601-025-01	80mL	109209-01	C-752-A
22604-095-01	80mL	109209-01	C-752-A
22604-136-01	80mL	109209-01	C-752-A
22604-146-01	80mL	109209-01	C-752-A
22610-024-01	80mL	109209-01	C-752-A
22610-044-01	80mL	109209-01	C-752-A
36425-01-01	80mL	109209-01	C-752-A
36445-05-01	80mL	109209-01	C-752-A

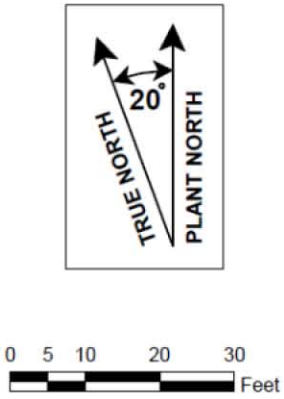
Sample ID	Volume	RFD #	Disposition/Storage as of 11/01/2011
22606-002-01	40mL	109209-01	C-752-A
22606-002-01	40mL	109209-01	C-752-A
22606-008-01	40mL	109209-01	C-752-A
22606-008-01D	40mL	109209-01	C-752-A
22606-012-01	40mL	109209-01	C-752-A
SI-0013-01	40mL	109209-01	C-752-A
SI-1420-01	40mL	109209-01	C-752-A
SI-1431-01	40mL	109209-01	C-752-A
32531-01-01	80mL	109209-01	C-752-A
24269-01-01	80mL	109209-01	C-752-A
51821-01-01	80mL	109209-01	C-752-A
49670-03A-01	80mL	109209-01	C-752-A
51289-01-01	120mL	109209-01	C-752-A
51289-02-01	120mL	109209-01	C-752-A
SLS05-01-01	300mL	109209-01	C-752-A
ULS05-01-01	500 ml	109209-01	C-752-A
6093-01	2L	109209-01	C-752-A
54012-01-01	4.75L	109209-01	C-752-A
107722-01-01	80ML	109216-01	C-733
107723-01-01	160ML	109216-01	C-733
107737-01-01	160ML	109216-01	C-733
107737-01-01	500ML	109216-01	C-733
107737-01-01	125ML	109216-01	C-733
107737-01-01	2L	109216-01	C-733
107737-01-01	13L	109216-01	C-733
107724-01-01	160ML	109216-01	C-733
TSCAL08-01-AQ	375ML	109216-01	C-733
TSCAL08-01-AQ	1L	109216-01	C-733
TSCAL08-01-OIL	375ML	109216-01	C-733
TSCAL08-01-OIL	1L	109216-01	C-733

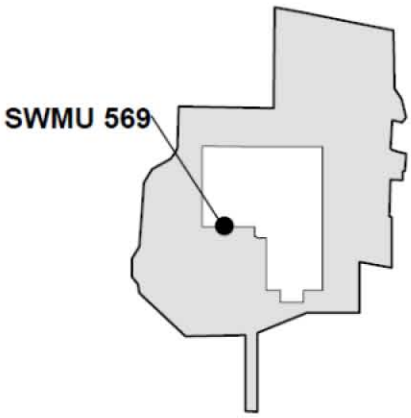
SWMU 569
C-743-T17 Sample Return Refrigerator
Views Facing West
September 6, 2011

SWMU 569
C-743-T17 Sample Return Refrigerator
Views Facing Southwest
September 6, 2011

SWMU 569
C-743-T17 Sample Return Refrigerator (Waste Removed)
Views Facing West
March 1, 2012







U.S. DEPARTMENT OF ENERGY
DOE PORTSMOUTH/PADUCAH PROJECT OFFICE
PADUCAH GASEOUS DIFFUSION PLANT

SWMU 569

LATA Environmental Services of Kentucky, LLC

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