



Department of Energy

Portsmouth/Paducah Project Office
1017 Majestic Drive, Suite 200
Lexington, Kentucky 40513
(859) 219-4000

JAN 22 2014

Mr. Todd Mullins
Federal Facility Agreement Manager
Division of Waste Management
Kentucky Department for Environmental Protection
200 Fair Oaks Lane, 2nd Floor
Frankfort, Kentucky 40601

PPPO-02-2191605-14

Ms. Jennifer Tufts
Federal Facility Agreement Manager
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street
Atlanta, Georgia 30303

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

Dear Mr. Mullins, Ms. Tufts, and Ms. Webb:

**TRANSMITTAL OF REPLACEMENT PAGE FOR TABLE 2 OF THE U.S.
DEPARTMENT OF ENERGY PADUCAH GASEOUS DIFFUSION PLANT FEDERAL
FACILITY AGREEMENT SEMIANNUAL PROGRESS REPORT FOR THE FIRST
HALF OF FISCAL YEAR 2013 PADUCAH, KENTUCKY (DOE/LX/07-1290/V1)**

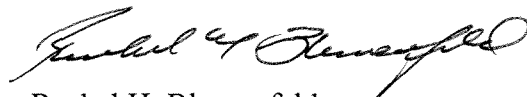
Reference: Letter from J. Woodard to T. Mullins, J. Tufts, and A. Webb, "U.S. Department of Energy Paducah Gaseous Diffusion Plant Federal Facility Agreement Semiannual Progress Report for the Second Half of Fiscal Year 2013, Paducah, Kentucky (DOE/LX/07-1290/V2)," (PPPO-02-2157260-14B), dated November 14, 2013

Enclosed is the certified replacement page for Table 2 of the *U.S. Department of Energy Paducah Gaseous Diffusion Plant Federal Facility Agreement Semiannual Progress Report for the First Half of Fiscal Year 2013, Paducah, Kentucky*, DOE/LX/07-1290/V1. The enclosed replacement page has been prepared to correct the amount of trichloroethene (TCE) removed from the Northwest Plume Pump-and-Treat system. The error in reporting was attributed to a calculation error that duplicated the amount of TCE removed from the system in 1996. This error was discovered during an independent assessment of the data presented in Table 2 of the

report that was conducted in November 2013 and noted in the transmittal letter for the *U.S. Department of Energy Paducah Gaseous Diffusion Plant Federal Facility Agreement Semiannual Progress Report for the Second Half of Fiscal Year 2013, Paducah, Kentucky*, DOE/LX/07-1290/V2. This error was unique to the Northwest Plume calculations and impacted only the progress report for the first half of fiscal year 2013.

If you have any questions or require additional information, please contact Jennifer Woodard at (270) 441-6820.

Sincerely,



Rachel H. Blumenfeld
Acting Paducah Site Lead
Portsmouth/Paducah Project Office

Enclosures:

1. Certification Page
2. Table 2-Replacement Page

e-copy w/enclosures:

brandy.mitchell@lataky.com, LATA/Kevil
brian.begley@ky.gov, KDEP/Frankfort
craig.jones@lataky.com, LATA/Kevil
darla.bowen@lataky.com, LATA/Kevil
gaye.brewer@ky.gov, KDEP/Paducah
jana.white@lataky.com, LATA/Kevil
jeffrey.gibson@ky.gov, KDEP/Frankfort
jennifer.woodard@lex.doe.gov, PPPO/PAD
leo.williamson@ky.gov, KDEP/Frankfort
mark.duff@lataky.com, LATA/Kevil
myrna.redfield@lataky.com, LATA/Kevil
pad.dmc@swiftstaley.com, SST/Kevil
reinhard.knerr@lex.doe.gov, PPPO/PAD
rob.seifert@lex.doe.gov, PPPO/PAD
stephaniec.brock@ky.gov, KYRHB/Frankfort
sunny.osborne@lataky.com, LATA/Kevil
todd.mullins@ky.gov, KDEP/Frankfort
tracey.duncan@lex.doe.gov, P2S/PAD
tufts.jennifer@epamail.epa.gov, EPA/Atlanta

CERTIFICATION

Document Identification: **Replacement Pages for Table 2 of the *U.S. Department of Energy Paducah Gaseous Diffusion Plant Federal Facility Agreement Semiannual Progress Report for the First Half of Fiscal Year 2013, Paducah, Kentucky (DOE/LX/07-1290/V1)***

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 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



Craig S. Jones, Manager of Projects

01/22/14
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 assure 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 (DOE)



Rachel H. Blumenfeld, Acting Paducah Site Lead
Portsmouth/Paducah Project Office

1/22/14
Date Signed

**FEDERAL FACILITY AGREEMENT
SEMIANNUAL REPORT
FIRST HALF OF FISCAL YEAR 2013**

**Facility: Paducah Gaseous Diffusion Plant
Plant EPA I.D. No.: KY8-890-008-982
Reporting Period: 10/1/2012–3/31/2013**

GROUNDWATER OPERABLE UNIT

The scope of the GWOU includes performing investigations, baseline risk assessments, evaluating removal/remedial alternatives, and selecting and implementation of actions necessary to achieve protection of human health and the environment from exposure to groundwater contamination that could result in an unacceptable risk.

Within the GWOU are these projects: C-400 IRA Phases, Southwest Plume Sources Remediation, Dissolved-Phase Plumes, Northeast Plume IRA, and Northwest Plume IRA.

The overall objective of the GWOU is to remove/mitigate ongoing sources and to remediate the groundwater to target contaminant concentrations. The most predominant contaminant of concern in the groundwater of all three plumes is TCE. Table 2 provides an overall broad picture of the TCE mass removed by various actions through December 31, 2012. Additionally, the table provides the current understanding of the remaining estimated mass yet to be addressed. Some of the mass amounts still are continuing to be updated or estimated and are listed as to be determined (TBD).

Table 2. Cumulative TCE Removed and Remaining TCE Estimate at Paducah

Source Area	Cumulative TCE Removed (gal)*	Remaining TCE Estimate (gal)
Northwest Plume Pump-and-Treat	2,880	TBD
Northeast Plume Pump-and-Treat	279	TBD
C-400 Six-Phase Treatability Study	1,900	N/A
C-400 Phase I	535	TBD
C-400 Phase IIa and Phase IIb	0	600–7,000**
Dissolved-Phase Plume	N/A	1,600
Southwest Plume***	0	70**
SWMU 4***	0	TBD
Other sources (i.e., SWMU 91, LASAGNA™)	246	TBD
Total	5,840	2,270–8,670

* Cumulative through December 31, 2012.

** This estimate is currently under review.

*** Additional investigation is ongoing.