Los Alamos Technical Associates, Inc.

756 Park Meadow Road / Westerville, Ohio 43081 / (614) 508-1200 (phone) / (614) 508-1201 (fax) / www.lata.com

December 14, 2015

Mr. Matthew Ward
Project Manager
US Army Corps of Engineers
Kansas City District
601 East 12th Street
Kansas City, Missouri 64106

SUBJECT: December 2015 Operating Report for the Vestal Well Field 1-1 Superfund Site, Area 4, Vestal, New York

Dear Mr. Ward:

Attached is the monthly report for December 2015 on the activities being performed at the Vestal Well field 1-1 Superfund Site, Area 4, Vestal, New York. This report details the activities and data collected at the site over the operating period.

If you have any questions, please feel free call me at (614) 508-1200.

Sincerely,
LOS ALAMOS TECHNICAL ASSOCIATES, INC.

Nathan Canaris
Project Manager

Attachments

cc: Sharon Trocher- USEPA
Payson Long – NYS DEC
Tom Cimarelli –USACE-NYD
Timothy Leonard – USACE- NYD
Frank Bales –USACE-NWK
File

TO: Matthew Ward, Project Manager
United States Army Corps of Engineers (USACE)

FROM: Nathan Canaris, Project Manager
Los Alamos Technical Associates, Inc. (LATA)

SUBJECT: December 2015 Monthly Report on Activities at the Vestal Well field 1-1 Superfund Site, Area 4, Vestal, New York

LATA Project # 11202
Contract # W912DQ-09-D-3003,
Task Order # 008

DATE: December 14, 2015

CURRENT ACTIVITIES

LATA's technician visited the Vestal Area 4 Site for the regularly scheduled monthly O&M visit on December 11, 2015 to perform the routine monthly inspection and testing of the facilities and equipment.

Work performed during the December 11th visit was; inspect the main treatment system and cell buildings and surrounding areas for issues, inspect the equipment in the main building and ancillary buildings, re-start the system to verify operation, and collect data and equipment readings in the main building and ancillary buildings. Details and photos of the visit are attached. The site inspection forms detailing the data readings collected and observations during the site visit are attached to this report.

No other operational issues were noted during the inspection. Both the distribution buildings and the adjacent parking lot area were inspected and no issues were noted.

There were no communications or concerns with local municipalities or others during this inspection.

Blower Run Hours

Date	Hour Meter Reading
11/07/15	18,334.1
12/11/15	18,334.8
	0.7 hrs. run time

OUTSTANDING ISSUES/RESOLUTIONS

NONE

PLANS FOR NEXT MONTH

Plans for the January visit includes inspection and collection of SVE system readings and its components and other maintenance as required.

TOTAL ELECTRICITY USAGE
DW96941964 Vestal Well Field

Year	2008			2009											
Month	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
kwh used	1105	2417	3728	4141	4004	2995	1847	475	350	311	347	552	2011	1918	4134
Cost	$389.66	$483.00	$588.73	$716.13	$492.59	$428.00	$331.56	$190.91	$292.77	$282.02	$350.19	$233.91	$382.99	$372.20	$776.85

2009 YTD Total Usage (kwh) = 23,085
2009 YTD Total Cost = $4,850.12

Entire Year Using Renewable Electricity Delivered by New York State Electric & Gas

Year	2010											
Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
kwh used	3360	3567	2892	585	1189	400	303	342	308	1184	3113	4022
Cost	$481.87	$569.27	$533.39	$212.58	$227.32	$160.27	$145.14	$136.06	$131.83	$267.07	$459.14	$547.56

2010 YTD Total Usage (kwh) = 21,265
2010 YTD Total Cost = $3,871.50

Entire Year Using Renewable Electricity Delivered by New York State Electric & Gas

Year	2011											
Month	Jan	Feb	Mar	Apr	May (1)	June	July (1)	Aug	Sept (2)	Oct	Nov	Dec
kwh used	4040	3667	3341	2172	286	319	293	0	678	1473	3257	4579
Cost	$460.89	$493.33	$415.59	$338.11	-$457.97	$144.99	-$130.93	$0.00	$346.60	$317.96	$487.69	$588.15

2011 YTD Total Usage (kwh) = 24,105
2011 YTD Total Cost = $3,004.41

Entire Year Using Renewable Electricity Delivered by New York State Electric & Gas

Year	2012											
Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
kwh used	4027	4141	1516	515	334	344	289	325	303	0	1065	2601
Cost	$523.86	$549.93	$287.00	$155.04	$138.66	$161.01	$134.87	$154.12	$316.80		$302.85	$520.97
	Account Holder - Shaw								**LATA**			

2012 YTD Total Usage (kwh) = 15,460
2012 YTD Total Cost = $3,245.11

Entire Year Using Renewable Electricity Delivered by New York State Electric & Gas

Year	2013											
Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
kwh used	2594	2875	2257	740	377	358	344	354	314	641	2658	3161
Cost	$316.55	$522.94	$485.38	$394.71	$345.18	$347.92	$351.75	$349.49	$344.31	123.75 *	$515.42	$677.78
							LATA					

*- NYSEG error on October billing. LATA notified NYSEG of error and will get corrected bill

2013 YTD Total Usage (kwh) = 16,673
2013 YTD Total Cost = $4,775.18

Entire Year Using Renewable Electricity Delivered by New York State Electric & Gas

Year	2014											
Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
kwh used	3356	3211	2684	1007	373	391	286	350	324	352	1713	2204
Cost	$793.03	$570.31	$581.33	$359.97	$296.86	$294.20	$44.15	$294.56	$292.42	$295.25	$415.87	$239.73
							LATA					

2014 YTD Total Usage (kwh) = 16,251
2014 YTD Total Cost = $4,477.68

Year	2015											
Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov (4)	Dec
kwh used	2204	0 *	6735	502	320	400	305	357	324	433	993	
Cost	$249.30	$0.00	$1,203.79	$93.37	$283.90	$394.41	$295.20	$292.74	$289.40	$296.82	-$9.48	
							LATA					

*- NYSEG was not able to perform actual meter reading due to snow.

2015 YTD Total Usage (kwh) = 12,573
2015 YTD Total Cost = $3,389.45

(1) = May and July 2011 cost is a previous deposit with interest credited back to account.
(2) = Usage and costs in September 2011 cover August 2011 as well.
(3) = Usage and costs in March 2015 cover February 2015 as well.
(4) = November 2015 cost is a previous deposit with interest credited back to account

SITE PHOTO LOG

Main Building

Cell 1

Cell 2

- Lock replaced on control panel

SITE VISIT SHEETS

Los Alamos Technical Associates, Inc.
756 Park Meadow Road
Westerville, OH 43081

Field Data Reading Sheet

Site Name **VESTAL** **Sampled By:** **S. Samaroo**
Project Number: **60402566.1113064**
Date: **12/11/2015**
Weather: **Sunny, 50s**

Instrument Identification

Make/Model / Cal info	PID	Other
	NA	**NA**

Main Equipment Building

Main Control Panel _____ Control Box Locked **No Lock** Control Door Locked **No Lock**

Hour Meter Reading - SVE Unit **18334.8**

SVE Pumping Unit

Injection Blower Temp	**165**	**°F**
Injection Blower Temp Setting	**--**	
Pressure After Injection Blower	**<4**	**" H2O**
Vacuum Blower Temp	**130**	**°F**
Vacuum Blower Temp Setting	**--**	
Vacuum After Filter	**16**	**" H2O**
Pressure AfterVacuum Blower	**6**	**" H2O**

Grease Seals Checked ☑ Yes ☐ No — Date of last Grease 11/15/2011
Oil Levels Checked ☑ Yes ☐ No — Date of Last Oil Change 11/15/2011
Belts Checked for Wear ☑ Yes ☐ No — Belt Guard in Place Yes

Alarms Present (described below if Yes) ☐ Yes ☑ No

Comments

General Site Observations

Check and Note Condition of Site
Grass around Buildings ☑ OK ☐ Trimmed
Vines and Weeds around Buildings ☑ OK ☐ Trimmed

Comments
NA

Field Activity Checklist

SVE Wellhead air Flows Measured	☐ Yes	☑ No
SVE Wells Sampled	☐ Yes	☑ No
Carbon Changeout Performed	☐ Yes	☑ No
Water Removal Performed	☐ Yes	☑ No
Exterior of Main building and Cell Buildings Inspected	☑ Yes	☐ No

Summary of Process Air Sampling
NA

Summary of Other Activities
NA

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Field Data Reading Sheet

Site Name **VESTAL** **Sampled By: S. Samaroo** **Date** **12/11/2015**

Carbon Bed System

Check all aboveground piping, valves, fittings and other components for cracks or leaks.
Check Carbon Beds connections and associated instrumentation

Pressure Before GAC Unit 1	**40**	**" H2O**
Temperature Before GAC Unit 1	**106**	**F**
Pressure Between GACUnit 1 and GAC Unit 2	**30**	**"H2O**
Pressure Before GAC Unit 2	**8**	**" H2O**
Temperature Before GAC Unit 2	**48**	**F**

Water Storage Unit

Check all aboveground piping, valves, fittings and other components for cracks or leaks.
Check Carbon Beds connections and associated instrumentation

Volume of Water in Storage Tank **0** Gallons
Water in Containment Vessel ☐ Yes ☑ No Amount **0** **Inches**

Cell 1 Distribution Building

Check all aboveground piping, valves, fittings and other components for cracks or leaks and adequacy of seals

Building Locked	☑ Yes	☐ No				
Control Box Locked	☑ Yes	☐ No				
Control Box Disconnect On	☐ Yes	☐ No	240 V Disconnect On	☐ Yes	☐ No	
Selector Switch	☐ MAN	☐ OFF	☑ AUTO			
Vacuum Status Light	☑ OFF	☐ ON				

Electrical Heat Breaker	☑ Yes	☐ No
Heater Thermostat Setting	**38**	**^{o}F**
Pressure at Injection Manifold	**115**	**"H2O**
Temperature at Injection Manifold	**44**	**^{o}F**
Vacuum at Vacuum Manifold	**55**	**"H2O**
Temperature at Vacuum Manifold	**45**	**^{o}F**
Vacuum at Knockout Tank	**>30**	**"H2O**
Water Pump Pressure Relief Settings	**--**	**psi**

Cell 2 Distribution Building

Check all aboveground piping, valves, fittings and other components for cracks or leaks and adequacy of seals

Building Locked	☑ Yes	☐ No				
Control Box Locked	☑ Yes	☐ No				
Control Box Disconnect On	☐ Yes	☐ No	240 V Disconnect On	☐ Yes	☐ No	
Selector Switch	☐ MAN	☐ OFF	☑ AUTO			
Vacuum Status Light	☑ OFF	☐ ON				

Electrical Heat Breaker	☑ Yes	☐ No
Heater Thermostat Setting	**40**	**^{o}F**
Pressure at Injection Manifold	**120**	**"H2O**
Temperature at Injection Manifold	**42**	**^{o}F**
Vacuum at Vacuum Manifold	**45**	**"H2O**
Temperature at Vacuum Manifold	**44**	**^{o}F**
Vacuum at Knockout Tank	**19**	**"H2O**
Water Pimp Pressure Relief Settings	**--**	**psi**

Comments The lock on the Cell 2 control box was replaced.

Signature of Operator/Tech **Sunil Samaroo** **Date** **12/11/2015**

Daily Quality Control Report

Date: 12/11/2015		**Report No**.					
Project: VESTAL	**Day:**	Su	M	T	W	Th	F	Sa
Project no.: 60402566.11130644	**Weather:**	Clear	Cloudy		Overcast		Rain	Snow
Project Manager: Nathan Canaris	**Temp. (°F)**	To 32°	32° - 50°		50°- 70°		70° - 85°	85° up
Project QC Officer:	**Wind:**	Still	Moderate		High			
	Humidity:	Dry	Moderate		High			

Personnel onsite:

Sunil Samaroo (AECOM), Nathan Canaris (LATA)

Sampling equipment on site:

N/A

Work performed:

Performed general site observations, recorded system readings in main equipment building, Cell 1 distribution building, and Cell 2 distribution building.

Daily Quality Control Report (continued)

Project: VESTAL **Report no**.:

Project no.: 60402566.11130644 **Date**: 12/11/2015

Quality control activities (including field calibrations):
N/A
Health and safety levels and activities:
Problems encountered/corrective actions taken:
Special notes:
Tomorrow's expectations:

Sheet _2__ of _2__

By: _Sunil Samaroo_____Title:_Environmental Scientist_