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

August 15, 2017

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

SUBJECT: August 2017 Operating Report for the Vestal Well Field 1-1 Superfund Site, Area 4,

Vestal, New York

Dear Mr. Young:

Attached is the monthly report for August 2017 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: Damian Duda – USEPA

Payson Long – NYS DEC

Tom Cimarelli –USACE-NYD Timothy Leonard – USACE-NYD

Jason Lecuyer – USACE-NYL

Andrew Smith – USACE-NYD

File

TO: Travis Young, Project Manager

United States Army Corps of Engineers (USACE)

FROM: Nathan Canaris, Project Manager

Los Alamos Technical Associates, Inc. (LATA)

SUBJECT: August 2017 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: August 15, 2017

CURRENT ACTIVITIES

LATA's project manager and technician visited the Vestal Area 4 Site for the regularly scheduled monthly O&M visit on August 2, 2017 to perform the routine monthly inspection and testing of the facilities and equipment.

Work performed during the August 2^{nd} 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.

Prior to re-starting the system, the system was de-energized at the main breaker panel and tagged out, and the electrical closet was closed. After de-energizing the system, both of the Roots® injection and vacuum blowers were greased and the oil changed. Shell Gadus® S2 U1000 #2 grease was added to the drive end bearings using a hand operated grease gun until traces of clean grease came out of the relief fitting in accordance with the manufacturer's operation manual. Oil levels in the blowers were checked and found to be within the manufacturer's specified range. The blowers were then drained of oil, the overflow drain was opened and the top vent plug removed. The blowers were then refilled with Roots® Synthetic VG-220 oil until oil flowed from the overflow drain port in accordance with the manufacturer's operation manual. The overflow valve drain was then closed and the top vent plug reinstalled. The belt guard for the blowers was then removed for inspection of the belts and sheaves. The belts were found to be properly aligned and in good condition, without excessive wear. The General Electric® motor that drives the blowers was inspected in accordance with the manufacturer's operation manual. The motor was clean and the ventilating openings were clear. In accordance with the manufacturer's operation manual for this 40 HP motor, which is mounted in a horizontal configuration and operated infrequently, the lubrication interval is 7 years. Overgreasing can damage the motor, so no lubrication was performed on the motor. Following this inspection the belt guard was reinstalled.

The injection blower filter was visually inspected and observed to not be significantly fouled. The Xchanger® heat exchangers were visually inspected and observed to not be significantly fouled. No material or debris was within the manufacturer's recommended clearance around the heat exchanger base. The knockout tank and water storage tank were visually inspected to confirm there was no water present in either tank. All aboveground piping, valves and fittings were visually inspected for cracks or leaks.

Following the inspections described above, the system was re-energized at the main breaker panel and the system was re-started for collection of data and equipment readings. While the system was operating, all aboveground piping, valves and fittings were again visually inspected for cracks or leaks. No cracks or leaks were observed. The pressure differential across the vacuum blower filter was observed to be 3" H₂O, which is less than the 15" H₂O pressure differential specified in the O&M manual that requires replacement of the filter. Following collection of data and equipment readings, the system was then shut down.

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.

The insulation inside the treatment building was inspected. The insulation is in acceptable condition, though some deterioration over time has occurred. One small section of wood on the south wall of the treatment building had previously deteriorated and had been patched with wood in February 2014. It was observed that the pieces of wood which had been used to patch this hole had been knocked loose. This will be repaired during the September site inspection.

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

Blower Run Hours

Date	Hour Meter
	Reading
07/06/17	18,355.2
08/02/17	18,356.5
	1.3 hrs. run time

OUTSTANDING ISSUES/RESOLUTIONS

NONE

PLANS FOR NEXT MONTH

Plans for the September visit includes inspection and collection of SVE system readings and its components, other maintenance as required, and handoff of the keys to the gate, main building, and treatment cells to the on-site USACE representative.

TOTAL ELECTRICITY USAGE DW96941964 Vestal Well Field

Entire Ye	ar Using Re	enewable El	ectricity De	livered by N	lew York St	ate Electric	& Gas				2009 Y	TD Total U: 2009 YTD	sage (kwh) Total Cost	
2010 Jan 3360 \$481.87	Feb 3567 \$569.27	Mar 2892 \$533.39	Apr 585 \$212.58	May 1189 \$227.32	June 400 \$160.27	July 303 \$145.14	Aug 342 \$136.06	Sept 308 \$131.83	Oct 1184 \$267.07	Nov 3113 \$459.14	Dec 4022 \$547.56			
											2010 Y	TD Total U: 2010 YTD	sage (kwh) Total Cost	
2011		enewable El						0	0-4	Mari	D	1		
Jan 4040 \$460.89	Feb 3667 \$493.33	Mar 3341 \$415.59	Apr 2172 \$338.11	May (1) 286 -\$457.97	June 319 \$144.99	July (1) 293 -\$130.93	Aug 0 \$0.00	Sept (2) 678 \$346.60	Oct 1473 \$317.96	Nov 3257 \$487.69	Dec 4579 \$588.15			
Entire Ye	ar Using Re	enewable El	ectricity De	livered by N	lew York St	ate Electric	& Gas				2011 Y	TD Total U: 2011 YTD	sage (kwh) Total Cost	= 2 = \$3
2012 Jan 4027 \$523.86	Feb 4141 \$549.93	Mar 1516 \$287.00	Apr 515 \$155.04	May 334 \$138.66	June 344 \$161.01	July 289 \$134.87	Aug 325 \$154.12	Sept 303 \$316.80	Oct 0	Nov 1065 \$302.85	Dec 2601 \$520.97			
Account	Holder - SI	naw						LATA			2012 Y	TD Total U:	sage (kwh) Total Cost	
														- 40
Entire Ye	ar Using Re	enewable El	ectricity De	livered by N	lew York St	ate Electric	& Gas					7		
	ar Using Re Feb 2875 \$522.94	Mar 2257 \$485.38	Apr 740 \$394.71	May 377 \$345.18	June 358 \$347.92	July 344 \$351.75	& Gas Aug 354 \$349.49	Sept 314 \$344.31	Oct 641 123.75 *	Nov 2658 \$515.42	Dec 3161 \$677.78			
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(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



Picture 1 - Main Treatment Building Exterior



Picture 2 - Main Treatment Building Interior



Picture 3 - Greasing the Injection and Vacuum Blowers



Picture 4 - Refilling the Injection and Vacuum Blowers With Oil



Picture 5 - Distribution Cell 1 Exterior



Picture 6 - Distribution Cell 1 Interior



Picture 7 - Distribution Cell 2 Exterior



Picture 8 - Distribution Cell 2 Interior

SITE VISIT SHEETS



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

Field Data Reading Sheet

Site Name Project Number: Date: Weather:

VESTAL	Sampled By:	J. Patel
60402566.1113064		
8/2/2017		
Overcast 80s		
⊒'		

Instrun	nent -	lden	titic	atior

					PH)		Other
Make/Model	Cal info		N/	1				NA
M	lain Equipmer	nt Building						
Main Control Panel				Contro	l Box	Locked No Lock	Control D	Ooor Locked No Lock
Hour Meter Reading - SVE Unit	18356.5		_					
Injection Blower Temp Injection Blower Temp Setting Pressure After Injection Blower Vacuum Blower Temp Vacuum Blower Temp Setting Vacuum After Filter Pressure AfterVacuum Blower	SVE Pumpi	ng Unit 218 2 150 17 14	- - - -	" E	F H2O F H2O H2O			
Grease Seals Checked Oil Levels Checked Belts Checked for Wear Alarms Present (described below if	✓ Yes✓ Yes✓ Yes✓ Yes	□ No □ No □ No □ Yes ☑	No		D	Date of last Grease <u>8</u> ate of Last Oil Change <u>8</u> Belt Guard in Place <u>7</u>	/2/2017	
Comments - Checked oil levels in with Shell Gadus S2 U1000 #2 greater	plowers. Drain ase. Inspected	belts for wear and	of oil a align	and refill ment	led wi	th Roots Synthetic VF-2	20 oil. Gre	ased drive end bearings
Check and Note Condition of Site Grass around Buildings Vines and Weeds around Buildings Comments - Removed vines from		□ Trimmed						
SVE Wellhead air Flows Measured SVE Wells Sampled Carbon Changeout Performed Water Removal Performed Exterior of Main building and Cell				Yes Yes Yes Yes Yes	> > > >	No No No No		
Summary of Process Air Sampling	NY A							
	NA							
Summary of Other Activities - Sn	nall hole in sou	th wall of buildin	g whi	ch had p	revio	usly been patched require	es repair	



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

Field Data Reading Sheet

Site Name VESTAL Sampled By: J. Patel Date 8/2/2017

	VESTAL	Sampieu by. J. 1 atei	Date	0/2/2017
		Carbon Bed System		
nd nining valves	fittings and other	er components for cracks or leaks		

Check all aboveground piping, valves, Check Carbon Beds connections and a	•	-	ts for cracks or leaks.					
Pressure Before GAC Unit 1 Temperature Before GAC Unit 1	- -	37 131	'' H2O _F					
Pressure Between GACUnit 1 and GA	C Unit 2	28	_''H2O					
Pressure Before GAC Unit 2 Temperature Before GAC Unit 2	-	6 86	'' H2O _F					
Check all aboveground piping, valves, Check Carbon Beds connections and a	_	other componen	orage Unit ts for cracks or leaks.					
Volume of Water in Storage Tank Water in Containment Vessel	_	0 □ Yes	_ Gallons ☑No	Amount	0	Inches		
		(Cell 1 Distribution Buildi	ng				
Check all aboveground piping, valves,	fittings and				als			
Building Locked Control Box Locked Control Box Disconnect On Selector Switch Vacuum Status Light	 ✓ Yes ✓ Yes ✓ Yes ☐ MAN ✓ OFF 	□ No □ No □No □ OFF □ ON	240 V Disconnect On ☑ AUTO	☑ Yes	□ No			
Electrical Heat Breaker Heater Thermostat Setting Pressure at Injection Manifold Temperature at Injection Manifold Vacuum at Vacuum Manifold Temperature at Vacuum Manifold Vacuum at Knockout Tank Water Pump Pressure Relief Settings	121 70 50 72 18	□No PF "H2O PF "H2O PF "H2O PF "H2O						
			Cell 2 Distribution Buildin	_				
Check all aboveground piping, valves,	fittings and	other componen	ts for cracks or leaks and a	dequacy of se	als			
Building Locked Control Box Locked Control Box Disconnect On Selector Switch Vacuum Status Light	 ✓ Yes ✓ Yes ✓ HAN ✓ OFF 	□ _{No} □ _{No} □ _{No} □ OFF □ON	240 V Disconnect On ☑AUTO	☑ Yes	□No			
Electrical Heat Breaker Heater Thermostat Setting Pressure at Injection Manifold Temperature at Injection Manifold Vacuum at Vacuum Manifold Temperature at Vacuum Manifold Vacuum at Knockout Tank Water Pump Pressure Relief Settings	143 70 40 72 28.5	□ No "F "'H2O "F "'H2O "F "'H2O						
Comments								
		-						
Signature of Operator/Tech	Jay Patel						Date	8/2/2017

Daily Quality Control Report

Date: 08/02/2017	Report No.																					
Project: VESTAL	Day:	Su	М	Т	W	Γh	F	Sa														
Project no.: 60402566.11130644	Weather:	Clear	Clo	udy	Over	cast	Rain	Snow														
Project Manager: Nathan Canaris	Temp.	To 32°		32° - 50°																°-)°	70° - 85°	85° up
Project QC Officer:	Wind:	Still	Mode	Moderate		jh																
	Humidity:	Dry	Mode	erate	Hig	jh																
Personnel onsite:						J																
Jay Patel (AECOM)																						
Sampling equipment on site:																						
N/A																						
Work performed:																						
Performed general site observations and m			•			_	main															
equipment building, Cell 1 distribution buil																						
Greased and changed oil in the injection at	nd vacuum l	olowers	. Che	cked	belts	for al	ignmen	t and														
wear. Visually inspected blower drive motor for	cleanliness	and to e	encure	veni	tilatin	g oner	ninge w	ere														
clear.	Cicammess	and to t	ZIISUIC	V CIII	inatin	g oper	migs w	CIC														
Visually inspected injection blower filter f	or fouling.																					
Visually inspected heat exchangers for fou	ling and to	verify n	o deb	ris is	withi	n 2' o	f the he	eat														
exchanger base.																						
Visually inspected the KO tank and water																						
Visually inspected aboveground piping, va	llves and fit	tings fo	r crac	ks or	leaks	prior	to syste	em														
restart. Visually inspected aboveground piping, va	lyos and fit	tings fo	r oroo	lza or	laalza	ofton	grigtom															
restart.	uves and m	ungs 10	i ciac	V2 OL	icaks	arter	system															
Removed vines from perimeter fencing.																						

Sheet __1__ of __2__

Daily Quality Control Report (continued)

Report no.:

Project: VESTAL

Project no.: 60402566.11130644 **Date**: 08/02/2017 **Quality control activities (including field calibrations):** N/A Health and safety levels and activities: Reviewed Lock Out/Tag Out procedures and AHA Problems encountered/corrective actions taken: Small hole in south wall of treatment building which had previously been patched requires repair. This will be conducted on the next month's site visit. **Special notes: Tomorrow's expectations:** Sheet 2 of 2 By: _Jay Patel______Title:_Staff Geologist_