



Los Alamos Technical Associates, Inc.

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November 10, 2015

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

SUBJECT: November 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 November 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.

A handwritten signature in blue ink, appearing to read 'Nathan Canaris', is written over a light blue rectangular background.

Nathan Canaris
Project Manager

Attachments

cc: Sharon Trocher- USEPA
Payson Long – NYS DEC
Tom Cimorelli –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: November 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: November 10, 2015

CURRENT ACTIVITIES

LATA's technician visited the Vestal Area 4 Site for the regularly scheduled monthly O&M visit on November 7, 2015 to perform the routine monthly inspection and testing of the facilities and equipment.

Work performed during the November 7th 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 |
|--------------------------|---------------------------|
| 10/12/15 | 18,333.1 |
| 11/7/15 | 18,334.1 |
| 1.0 hrs. run time | |

OUTSTANDING ISSUES/RESOLUTIONS

NONE

PLANS FOR NEXT MONTH

Plans for the December 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 | Dec |
| kwh used | 2204 | 0 * | 6735 | 502 | 320 | 400 | 305 | 357 | 324 | 433 | | |
| Cost | \$249.30 | \$0.00 | \$1,203.79 | \$93.37 | \$283.90 | \$304.41 | \$295.20 | \$292.74 | \$289.40 | \$296.82 | | |
| LATA | | | | | | | | | | | | |

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

2015 YTD Total Usage (kwh) = 11,580
2015 YTD Total Cost = \$3,398.93

- (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.

SITE PHOTO LOG

Main Building





Cell 1



Cell 2



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: 11/7/2015
Weather: Cloudy, 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 18334.1

SVE Pumping Unit

| | | |
|---------------------------------|--------------|-------|
| Injection Blower Temp | <u>165</u> | °F |
| Injection Blower Temp Setting | <u>--</u> | |
| Pressure After Injection Blower | <u><4</u> | " H2O |
| Vacuum Blower Temp | <u>130</u> | °F |
| Vacuum Blower Temp Setting | <u>--</u> | |
| Vacuum After Filter | <u>16</u> | " H2O |
| Pressure After Vacuum Blower | <u>6</u> | " H2O |

| | | | |
|------------------------|---|-----------------------------|---|
| Grease Seals Checked | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Date of last Grease <u>11/15/2011</u> |
| Oil Levels Checked | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Date of Last Oil Change <u>11/15/2011</u> |
| Belts Checked for Wear | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Belt Guard in Place <u>Yes</u> |

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

Comments

General Site Observations

Check and Note Condition of Site

| | | |
|----------------------------------|--|----------------------------------|
| Grass around Buildings | <input checked="" type="checkbox"/> OK | <input type="checkbox"/> Trimmed |
| Vines and Weeds around Buildings | <input checked="" type="checkbox"/> OK | <input type="checkbox"/> Trimmed |

Comments

NA

Field Activity Checklist

| | | |
|--|---|--|
| SVE Wellhead air Flows Measured | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| SVE Wells Sampled | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Carbon Changeout Performed | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Water Removal Performed | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Exterior of Main building and Cell Buildings Inspected | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

Summary of Process Air Sampling

NA

Summary of Other Activities

NA



Site Name VESTAL Sampled By: S. Samaroo Date 11/7/2015

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 1 110 F

Pressure Between GAC Unit 1 and GAC Unit 2 30 "H₂O

Pressure Before GAC Unit 2 7 " H₂O
Temperature Before GAC Unit 2 62 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 °F
Pressure at Injection Manifold 110 "H₂O
Temperature at Injection Manifold 52 °F
Vacuum at Vacuum Manifold 51 "H₂O
Temperature at Vacuum Manifold 52 °F
Vacuum at Knockout Tank 28 "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 °F
Pressure at Injection Manifold 112 "H₂O
Temperature at Injection Manifold 54 °F
Vacuum at Vacuum Manifold 42 "H₂O
Temperature at Vacuum Manifold 53 °F
Vacuum at Knockout Tank 20 "H₂O
Water Pimp Pressure Relief Settings -- psi

Comments -NONE

Signature of Operator/Tech Sunil Samaroo Date 11/7/2015

Daily Quality Control Report

[illegible]

Daily Quality Control Report (continued)

Project: VESTAL

Report no.:

Project no.: 60402566.11130644

Date: 11/07/2015

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

Sheet 2 of 2

By: Sunil Samaroo Title: Environmental Scientist