Project: National Heatset Printing Site - 1 Adams Boulevard, Farmingdale, NY - Site Management
Contractors: EA Engineering and Preferred Environmental Services

EA Engineering Job No: 1447429
Site No: 152140
EA Project Manager: James Hayward

DAILY REPORT

Day: S | M | T | W | **TH** | F | S
Date: 3-May-12
REPORT No.
PAGE No. 1

PREPARED BY: Rob Peterson TITLE: Geologist

WEATHER	Bright Sun	Partly Cloudy	Overcast	Rain	Snow
TEMP	To 32	32-50	50-70	70-85	85 and up
WIND	Light	Moderate	High		
HUMIDITY	Dry	Moderate	Humid		
WIND DIR	NE	NW	SE	SW	
	N	S	E	W	

AVERAGE FIELD FORCE

Name of Contractor	Title	Hours Worked	Remarks
Rob Peterson	Geologist	10:10 - 11:03	EA Engineering

VISITORS

Name	Time (From - To)	Representing	Remarks
None	NA	NA	NA

EQUIPMENT AT THE SITE I = Idle W = Working

1. Camera - W	3. Pressure Gauges - W	5. Vacuum Pump - W
2. PID - W	4. Velocity & Temperature Meter - W	

OPERATION & MAINTENANCE ACTIVITIES

EA/Preferred Site Representative: Rob Peterson - EA

DESCRIPTION OF WORK PERFORMED AND OBSERVED

On April 30, 2012 Verizon installed a phone line to Treatment System #2. The phone line was connected to an auto-dialer (Sensaphone) mounted near the control panel inside Treatment System #2 (see attached photos). The Sensaphone was installed by Gray Electric on May 1, 2012 and programmed by EA. The following parameters were programmed: Date & Time, zones (Temp. & System Power Supply), alarm limits, voice messages (zones & site ID), and dial out telephone numbers. Currently the dial out number is set for Rob Peterson (EA). The Sensaphone telephone number is 631-752-5140 and the alarm acknowledgment code is 555. Once the Sensaphone was programmed, EA simulated a power loss alarm and the Sensaphone dialed out and performed correctly. Verizon was unable to install a phone line to Treatment System #1 due to a missing ground wire on the connection box. Gray Electric installed a ground wire and Treatment System #1 Sensaphone on May 1, 2012. Gray Electric noticed that an additional relay in the control box must be installed in order for the Sensaphone to monitor system power supply. The current relay is in full use. Verizon and Gray are scheduled to install the phone line and additional relay on May 9, 2012.

10:10 - Rob Peterson (EA) on-site. System #1 and System #2 operating upon arrival.

10:15 - Start System #2 O&M. NOTE: VOC monitoring of influent and effluent was collected in parts per billion (ppb) to achieve greater definition in concentration data (see pages 3 & 5 for concentrations).

10:34 - System #2 O&M complete. System performing satisfactorily.

10:45 - Start System #1 O&M. NOTE: VOC monitoring of influent and effluent was collected in parts per billion (ppb) to achieve greater definition in concentration data (see pages 3 & 5 for concentrations).

11:00 - System #1 O&M complete. System performing satisfactorily.

11:03 - O&M for both systems complete. EA locked both systems and all parties off-site.

[x] - Designates report is continued on additional pages

EA Engineering

6712 Brooklawn Parkway, Suite 104, Syracuse, New York 13211

National Heatset Printing Site, Farmingdale, NY
Contract No. D004441, Site No. 152140
Monitoring Table May 03, 2012

DATE: 05/03/2012 **DAY:** Thursday **TECHNICIAN:** Rob Peterson

Weather: 58F, Cloudy

TCE Groundwater Treatment System #1 **STATUS:** ON OFF

I: System Data Collection

Total Run Time Meter Reading: 10,993.0 **hours**
System Running at: 30.0 **Hz**

Temperature Monitoring

Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:46	Extracted From Well	TI-01	14.0	57.2	DDC-1
10:46	Extracted From Well	TI-02	14.0	57.2	DDC-2
10:48	Pre-Heater Outlet	TI-03	22.0	71.6	Post Shell and Tubing
10:47	Pre-Heater Input	TI-04	15.0	59.0	Before Shell and Tubing
10:47	After Cooler Outlet	TI-05	20.0	68.0	Post Cooler Reading
10:47	After Cooler Input	TI-06	33.0	91.4	Before Cooler Reading
10:49	Blower Outlet	TI-07	43.0	109.4	Going to Pre-heater
10:49	Between GAC Units	TI-08	21.0	69.8	After GAC #1
10:49	GAC Unit Output	TI-09	21.0	69.8	After GAC #2

Flow Readings

Time	IF-ID	Location	Flow (SCFM)
10:45	FI-01	Extracted From DDC-1	---
10:45	FI-02	Extracted From DDC-2	190

Comments:
1) Flow meter F0-1 not functioning. Air flow visually inspected at DDC-1 well head. Determined that DDC-1 bubbling sufficiently. Replacement flow meter is currently on back order and is expected to be installed mid May 2012.

Pressure/Vacuum Monitoring

Time	Location	PI/VI-ID	Pressure	Comments
10:46	Discharge to Well	PI-01	2.2 PSI	DDC-1
10:46	Discharge to Well	PI-02	2.3 PSI	DDC-2
10:48	Drum	PI-03	-29.0 in. H2O	Vacuum Reading Going to Blower

DATE: 05/03/2012 **DAY:** Thursday **TECHNICIAN:** Rob Peterson

Weather: 58F, Cloudy

TCE Groundwater Treatment System #1

GAC Unit Information

Influent Port

TIME	PID VOC ppb	Temp Deg. F
10:51	3958	71

Comments: Measurements collected in parts per billion (ppb) to achieve greater definition for concentration data. Conversion: 3.9 ppm.

Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppb	Temp Deg. F
10:55	2781	69

Comments: Measurements collected in parts per billion (ppb) to achieve greater definition for concentration data. Conversion: 2.7 ppm.

Effluent Port

TIME	PID VOC ppb	Temp Deg. F
10:59	909	68

Comments: Measurements collected in parts per billion (ppb) to achieve greater definition for concentration data. Conversion: 0.9 ppm.

II: System Maintenance and Observations

Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Bubbling in well sufficient.
DDC-2	Bubbling in well sufficient.

Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	0.5-inch of water detected within sump. Sump pump non-operational

Liquid Levels in Knock-Out Tanks

Comments: No water detected in K/O tanks.

Oil Level on Blower

Comments: Oil levels satisfactory. Oil was changed on 19 April 2012 with Omega SB-220 oil.

Additional Comments:	
	DDC-2 sump pump is currently on back order and will be installed mid May 2012. Water will be removed weekly via whale pump until pump is replaced.
	Knock Out Tank #1 pump is non-operational. Pump is currently on back order and will be replaced mid May 2012. Water will be drained manually if accumulation occurs within Knock Out Tank #1.
	Flow meter F0-1 not functioning. Air flow visually inspected at DDC-1 well head. Determined that DDC-1 bubbling sufficiently. Replacement flow meter is currently on back order and is expected to be installed mid May 2012.
	On April 30, 2012 Verizon was unable to install a phone line to Treatment System #1 due to a missing ground wire on the connection box. Gray Electric installed a ground wire and Treatment System #1 Sensaphone on May 1, 2012. Gray Electric noticed that an additional relay in the control box must be installed in order for the Sensaphone to monitor system power supply. The current relay is in full use. Verizon and Gray are scheduled to install the phone line and additional relay on May 9, 2012.

III: System Evaluation

☒ **System is operating satisfactorily**

EA recommends / implements the following….

IV: Sampling / Lab Data

N/A

DATE: 05/03/2012 **DAY:** Thursday **TECHNICIAN:** Rob Peterson

Weather: 58F, Cloudy

TCE Groundwater Treatment System #2 **STATUS:** ON OFF

I: System Data Collection

Total Run Time Meter Reading: 13,690.8 hours.
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:16	Carbon Unit Inlet	CA01	23.0	73.4	Carbon Unit #1
10:17	Pre-Heater	PHA01	29.4	85.0	After Shell and Tubing
10:18	Blower Panel	B01	66.0	150.8	Exiting Blower
10:17	After Cooler Outlet	AC01	31.1	88.0	Post Cooler Piping
10:18	Pre-Heater	PHB01	55.6	132.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
10:15	WD01	Injected Air to DDC-3	157
10:15	WD02	Injected Air to DDC-4	160

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
10:17	Knock-Out Tank	T01	0.0 in. Hg	Vacuum gauge on knock-out tank
10:15	Carbon-Unit #1 Outlet	CA1	-4.9 in. Hg	Vacuum exiting GAC #1
10:16	Discharge to Wells	WD2	2.3 PSI	Pressure reading on piping prior to splicing off to both wells
10:18	Blower Panel	BP01	-1.0 in. Hg	Vacuum coming off of blower
10:16	Carbon Unit #2 Outlet	CA2	-4.3 in. Hg	Vacuum exiting GAC #2
10:30	DDC-3	N/A	0.0 PSI	Pressure gauge on well head
10:34	DDC-4	N/A	0.0 PSI	Pressure gauge on well head

DATE: 05/03/2012 **DAY:** Thursday **TECHNICIAN:** Rob Peterson

Weather: 58F, Cloudy

TCE Groundwater Treatment System #2

GAC Unit Information

Influent Port GAC#1

TIME	PID VOC ppb	Temp Deg. F
10:20	827	63.1

Comments: Measurements collected in parts per billion (ppb) to achieve greater definition for concentration data. Conversion: 0.8 ppm.

Influent Port GAC#2

TIME	PID VOC ppb	Temp Deg. F
10:24	722	61.1

Comments: Measurements collected in parts per billion (ppb) to achieve greater definition for concentration data. Conversion: 0.7 ppm.

Effluent

TIME	PID VOC ppb	Temp Deg. F
10:28	800	65.5

Comments: Measurements collected in parts per billion (ppb) to achieve greater definition for concentration data. Conversion: 0.8 ppm.

II: System Maintenance and Observations

Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling was sufficient.
DDC-4	Bubbling was sufficient.

Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	0.5-inch of water detected in sump. Sump pump operating satisfactorily.
DDC-4	0.5-inch of water detected in sump. Sump pump operating satisfactorily.

Additional Comments:	On April 30, 2012 Verizon installed a phone line to Treatment System #2. The phone line was connected to an auto-dialer (Sensaphone) mounted near the control panel inside Treatment System #2 (see attached photos). The Sensaphone was installed by Gray Electric on May 1, 2012 and programmed by EA. The following parameters were programmed: Date & Time, zones (Temp. & System Power Supply), alarm limits, voice messages (zones & site ID), and dial out telephone numbers. Currently the dial out number is set for Rob Peterson (EA). The Sensaphone telephone number is 631-752-5140 and the alarm acknowledgment code is 555. Once the Sensaphone was programmed, EA simulated a power loss alarm and the Sensaphone dialed out and performed correctly.

Liquid Levels in Knock-Out Tanks

Comments: No water was detected within site-glass.

Oil Level on Blower

Comments: Oil levels were satisfactory. Oil was changed on 19 April 2012 with Omega SB-220 oil.

III: System Evaluation

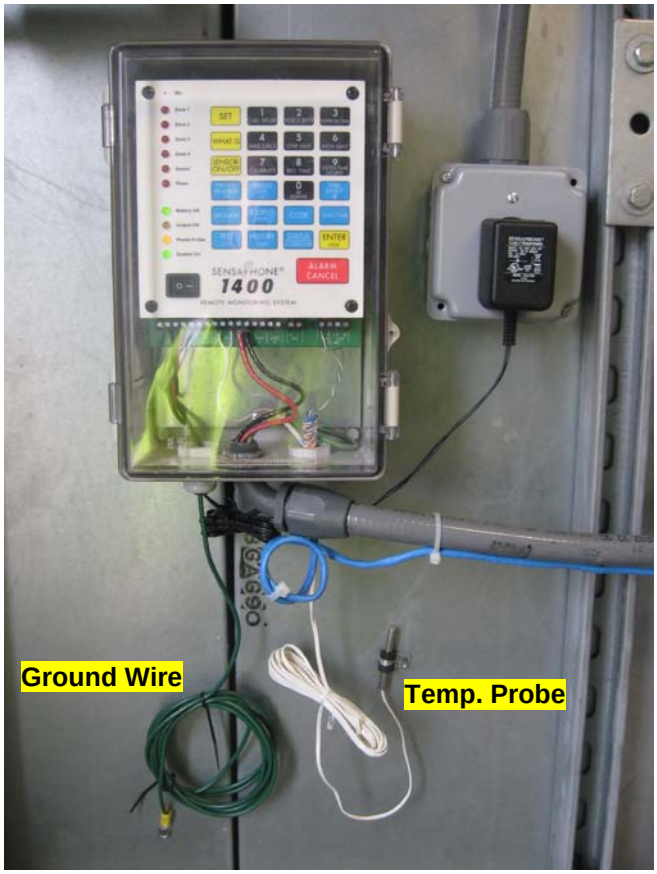
☒ **System is operating satisfactorily**

EA recommends / implements the following….

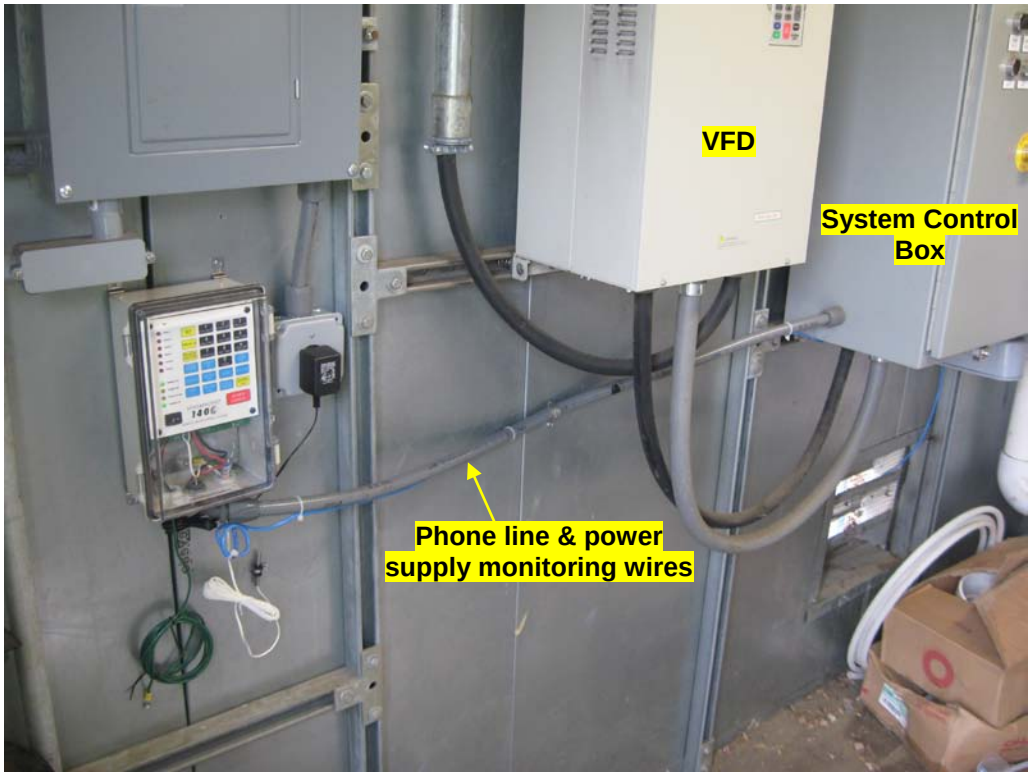
IV: Sampling / Lab Data

N/A

National Heatset On-site DDC O&M Photolog
03 May 2012



View of Treatment System #2 Sensaphone.



View of Treatment System #2 Sensaphone and connection to control panel.

National Heatset On-site DDC O&M Photolog

03 May 2012

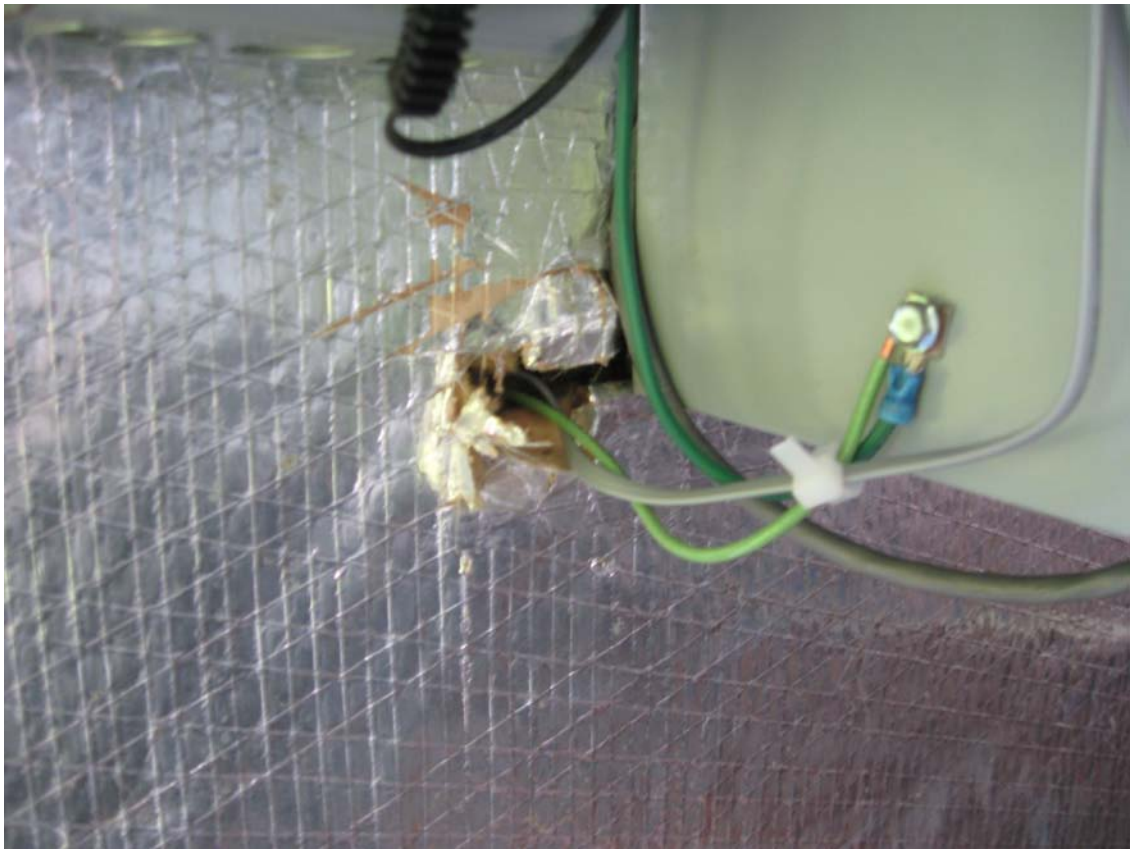
Verizon phone line connection box mounted to Treatment System #2 utility pole.

Close up view of Treatment System #2 phone line connection box.

National Heatset On-site DDC O&M Photolog

03 May 2012

View of Treatment System #1 Sensaphone mounted to system control panel.



Treatment System #1 grounding wires and sensor wires.

National Heatset On-site DDC O&M Photolog

03 May 2012

Verizon phone line connection box mounted to the exterior of Treatment System #1.