

**National Heatset Printing Site**  
**On-site DDC System**  
**Operation and Maintenance Reports**  
**(22 March 2011 – 29 March 2012)**

**March 2011**

Project: National Heatset Printing Site - 1 Adams Boulevard, Farmingdale, NY - Site Management  
Contractors: \_\_\_\_\_  
AECOM Job No: \_\_\_\_\_  
Site No: \_\_\_\_\_  
AECOM Project Manager: \_\_\_\_\_

EA Engineering  
6712 Brooklawn Pkwy., Suite 104  
Syracuse, NY 13211  
Telephone: 315-431-4610

### DAILY REPORT

Day: 

S	M	T	W	TH	F	S
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Date: 22-Mar-11  
REPORT No. 31  
PAGE No. 1  
PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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	11:00 - 14:25	EA

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	NA

### EQUIPMENT AT THE SITE

I = Idle W = Working

1. Camera - W	3. Pressure Gauges - W	5. Vacuum Pump - W
2. PID - W		

### OPERATION & MAINTENANCE ACTIVITIES

EA Representative: Rob Peterson
DESCRIPTION OF WORK PERFORMED AND OBSERVED
11:00 - EA arrived on-site. Both system running upon arrival.
11:15 - Start of O&M on System #2.
12:15 - Start of O&M on System #1.
12:45 - Bill Schlageter (Preferred Environmental) arrives onsite to inspect SVE system, extraction wells, and vapor monitoring wells.
14:00 - EA troubleshoots SVE system auto-dialer. Auto-dialer re-configured and checks all connections. Auto-dialer will not call-out manually and will not accept calls.
EA will re-inspect auto-dialer during next weeks O&M
14:45 - EA locks all three systems and leaves site. Both systems running upon departure.

☒ x - Designates report is continued on additional pages

EA Representative: Rob Peterson

Project Manager: Don Conan

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**National Heatset Printing Site, Farmingdale, NY**  
**Contract No. , Site No. 152140**  
**Monitoring Table March 22, 2011**

DATE: 3/22/11

DAY: Tuesday

EA TECHNICIAN: Rob Peterson

Weather: 45F, Partly Cloudy

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

**I: System Data Collection**

Total Run Time Meter Reading: 5540 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
12:15	Extracted From Well	TI-01	17.0	62.6	DDC-1
12:16	Extracted From Well	TI-02	17.0	62.6	DDC-2
12:21	Pre-Heater Outlet	TI-03	31.5	88.7	Post Shell and Tubing
12:22	Pre-Heater Input	TI-04	19.0	66.2	Before Shell and Tubing
12:15	After Cooler Outlet	TI-05	43.5	110.3	Post Cooler Reading
12:22	After Cooler Input	TI-06	51.0	123.8	Before Cooler Reading
12:21	Blower Outlet	TI-07	64.0	147.2	Going to Pre-heater
12:20	Between GAC Units	TI-08	33.0	91.4	After GAC #1
12:20	GAC Unit Output	TI-09	31.0	87.8	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
12:16	FI-01	Extracted From DDC-1	250
12:17	FI-02	Extracted From DDC-2	225

Comments:

1) Flow meter F0-1 is functioning.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
12:19	Discharge to Well	PI-01	2.5 PSI	DDC-1
12:19	Discharge to Well	PI-02	2.2 PSI	DDC-2
12:23	Drum	PI-03	-49.0 in. H2O	Vacuum Reading Inlet Blower

DATE: 3/22/11

DAY: Tuesday

TECHNICIAN: Rob Peterson

Weather: 45F, Partly Cloudy

### TCE Groundwater Treatment System #1

Influent Port		
TIME	PID VOC ppm	Temp Deg. F
12:31	3.0	

Comments:

#### GAC Unit Information

Between GAC Unit #1 and GAC Unit #2		
TIME	PID VOC ppm	Temp Deg. F
12:43	2.6	

Comments:

Effluent Port		
TIME	PID VOC ppm	Temp Deg. F
12:50	1.4	

Comments:

## II: System Maintenance and Observations

Inspection of Water Column in DDC Wells	
Well#	Comments
DDC-1	Bubbling over screen (sufficient).
DDC-2	Bubbling over screen (sufficient).


Inspection of Sumps Associated with DDC Wells	
Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Approximately 1.0 inch of water in sump.

Liquid Levels in Knock-Out Tanks
Comments: No liquid detected in either knock-out tank.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Additional Comments:	None
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## III: System Evaluation

 System is operating satisfactorily

### Recommendations

Keep close watch on FO-1 gauge to ensure same is properly operating. Operating within 10% of previous reading.

## IV: Sampling / Lab Data

N/A
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DATE: 3/22/11

DAY: Tuesday

EA TECHNICIAN: Rob Peterson

Weather: 45F, Partly Cloudy

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2 STATUS: ON OFF

I: System Data Collection

Total Run Time Meter Reading: 5504 hours

System Running at 43.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:18	Carbon Unit Inlet	CA01	20.0	68.0	Carbon Unit #1
11:25	Pre-Heater	PHA01	31.7	89.0	After Shell and Tubing
11:27	Blower Panel	B01	66.0	145.0	Discharge Blower
11:24	After Cooler Outlet	AC01	32.2	90.0	Post Cooler Piping
11:25	Pre-Heater	PHB01	58.9	138.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
11:20	WD01	Injected Air to DDC-3	190
11:20	WD02	Injected Air to DDC-4	170

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
11:23	Knock-Out Tank	T01	-1.0 in. Hg	Vacuum gauge on knock-out tank
11:19	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
11:22	Discharge to Wells	WD2	1.8 PSI	Pressure reading on piping prior to splicing off to both wells
11:27	Blower Panel	BP01	-3.0 in.Hg	
11:17	Carbon Unit #2 Outlet	CA2	-4.5 in. Hg	Vacuum exiting GAC #2
11:40	DDC-3	N/A	0.5 PSI	Pressure gauge on well head
11:50	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 3/22/11

DAY: Tuesday

EA TECHNICIAN: Rob Peterson

Weather: 45F, Partly Cloudy

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
11:38	0.5	N/A

Comments:

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
11:42	0.4	N/A

Comments:

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
11:45	0.4	N/A

Comments:

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling over screen (sufficient)
DDC-4	Bubbling over screen (sufficient)

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	~1.0 inch of water in sump.
DDC-4	~1.5 inches of water in sump.

#### Liquid Levels in Knock-Out Tanks

Comments: 1.75 inches of liquid detected in Knock-Out Tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:

None

## III: System Evaluation



System is operating satisfactorily

Recommendations

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## IV: Sampling / Lab Data

N/A

Project: National Heatset Printing Site - 1 Adams Boulevard, Farmingdale, NY - Site Management  
 Contractors: \_\_\_\_\_  
 AECOM Job No: \_\_\_\_\_  
 Site No: \_\_\_\_\_  
 AECOM Project Manager: \_\_\_\_\_

EA Engineering  
 6712 Brooklawn Pkwy., Suite 104  
 Syracuse, NY 13211  
 Telephone: 315-431-4610

### DAILY REPORT

Day: 

S	M	T	W	TH	F	S
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 Date: 31-Mar-11  
 REPORT No. 32  
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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	11:00 - 13:00	EA

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	NA

### EQUIPMENT AT THE SITE

I = Idle W = Working

1. Camera - W	3. Pressure Gauges - W	5. Vacuum Pump - W
2. PID - W		

### OPERATION & MAINTENANCE ACTIVITIES

EA Representative: Rob Peterson
DESCRIPTION OF WORK PERFORMED AND OBSERVED
11:00 - EA arrived on-site. Both system running upon arrival.
11:04 - Start of O&M on System #2.
11:50 - Start of O&M on System #1.
12:30 - EA troubleshoots SVE system auto-dialer. Auto-dialer re-configured and checks all connections. Auto-dialer will not call-out manually and will not accept calls.
EA calls Phonetics, Inc. Technical support for assistance. EA discovers phone line is not working (no dial tone).
Verizon will be on-site 07 April 2011 to repair phone line.
13:15 - EA locks all three systems and leaves site. Both systems running upon departure.

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 - Designates report is continued on additional pages

EA Representative: Rob Peterson

Project Manager: Don Conan

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**National Heatset Printing Site, Farmingdale, NY**  
**Contract No. , Site No. 152140**  
**Monitoring Table March 31, 2011**

DATE: 3/31/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 43F, Overcast, Rain

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

**I: System Data Collection**

Total Run Time Meter Reading: 5755.4 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:50	Extracted From Well	TI-01	16.0	60.8	DDC-1
11:51	Extracted From Well	TI-02	15.5	59.9	DDC-2
11:55	Pre-Heater Outlet	TI-03	30.0	86.0	Post Shell and Tubing
11:56	Pre-Heater Input	TI-04	17.0	62.6	Before Shell and Tubing
11:50	After Cooler Outlet	TI-05	40.0	104.0	Post Cooler Reading
11:56	After Cooler Input	TI-06	49.0	120.2	Before Cooler Reading
11:55	Blower Outlet	TI-07	62.0	143.6	Going to Pre-heater
11:54	Between GAC Units	TI-08	31.0	87.8	After GAC #1
11:54	GAC Unit Output	TI-09	29.0	84.2	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
11:51	FI-01	Extracted From DDC-1	250
11:51	FI-02	Extracted From DDC-2	225

Comments:

1) Flow meter F0-1 is functioning.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
11:52	Discharge to Well	PI-01	2.5 PSI	DDC-1
11:52	Discharge to Well	PI-02	2.2 PSI	DDC-2
11:57	Drum	PI-03	-51.0 in. H2O	Vacuum Reading Inlet Blower

DATE: 3/31/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 45F, Partly Cloudy

### TCE Groundwater Treatment System #1

Influent Port		
TIME	PID VOC ppm	Temp Deg. F
11:59	2.4	NR

Comments: NR = Not Recorded

#### GAC Unit Information

Between GAC Unit #1 and GAC Unit #2		
TIME	PID VOC ppm	Temp Deg. F
12:05	2.5	NR

Comments:

Effluent Port		
TIME	PID VOC ppm	Temp Deg. F
12:09	1.8	NR

Comments:

## II: System Maintenance and Observations

Inspection of Water Column in DDC Wells	
Well#	Comments
DDC-1	Bubbling over screen (sufficient).
DDC-2	Bubbling over screen (sufficient).

Inspection of Sumps Associated with DDC Wells	
Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Approximately 1.0 inch of water in sump.

Liquid Levels in Knock-Out Tanks
Comments: No liquid detected in either knock-out tank.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Additional Comments:	None
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## III: System Evaluation

☒ System is operating satisfactorily

☐ Recommendations

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## IV: Sampling / Lab Data

N/A
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DATE: 3/31/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 45F, Partly Cloudy

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2 STATUS: ON OFF

I: System Data Collection

Total Run Time Meter Reading: 215.9 hours

System Running at 43.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:17	Carbon Unit Inlet	CA01	16.0	60.8	Carbon Unit #1
11:13	Pre-Heater	PHA01	26.7	80.0	After Shell and Tubing
11:14	Blower Panel	B01	66.0	145.0	Discharge Blower
11:12	After Cooler Outlet	AC01	26.7	80.0	Post Cooler Piping
11:13	Pre-Heater	PHB01	51.7	125.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
11:04	WD01	Injected Air to DDC-3	180
11:04	WD02	Injected Air to DDC-4	160

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
11:11	Knock-Out Tank	T01	-0.2 in. Hg	Vacuum gauge on knock-out tank
11:16	Carbon-Unit #1 Outlet	CA1	-5.4 in. Hg	Vacuum exiting GAC #1
11:10	Discharge to Wells	WD2	1.8 PSI	Pressure reading on piping prior to splicing off to both wells
11:14	Blower Panel	BP01	-2.5 in.Hg	
11:15	Carbon Unit #2 Outlet	CA2	-4.7 in. Hg	Vacuum exiting GAC #2
11:44	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
11:33	DDC-4	N/A	0.3 PSI	Pressure gauge on well head

DATE: 3/22/11

DAY: Tuesday

EA TECHNICIAN: Rob Peterson

Weather: 45F, Partly Cloudy

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
11:20	0.5	N/A

Comments:

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
11:26	0.4	N/A

Comments:

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
11:30	0.5	N/A

Comments:

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling over screen (sufficient)
DDC-4	Bubbling over screen (sufficient)

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	~1.0 inch of water in sump.
DDC-4	~1.0 inches of water in sump.

### Liquid Levels in Knock-Out Tanks

Comments: 1.75 inches of liquid detected in Knock-Out Tank.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:

None

## III: System Evaluation



System is operating satisfactorily

Recommendations

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## IV: Sampling / Lab Data

N/A

**April 2011**

Project: National Heatset Printing Site - 1 Adams Boulevard, Farmingdale, NY - Site Management  
Contractors: \_\_\_\_\_  
AECOM Job No: \_\_\_\_\_  
Site No: \_\_\_\_\_  
AECOM Project Manager: \_\_\_\_\_

EA Engineering  
6712 Brooklawn Pkwy., Suite 104  
Syracuse, NY 13211  
Telephone: 315-431-4610

### DAILY REPORT

Day: 

S	M	T	W	TH	F	S
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Date: 7-Apr-11  
REPORT No. 33  
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	08:20 - 12:00	EA

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	NA

### EQUIPMENT AT THE SITE

I = Idle W = Working

1. Camera - W	3. Pressure Gauges - W	5. Vacuum Pump - W
2. PID - W		

### OPERATION & MAINTENANCE ACTIVITIES

EA Representative: Rob Peterson
DESCRIPTION OF WORK PERFORMED AND OBSERVED
08:20 - EA arrived on-site. Both system running upon arrival.
08:30 - Start of O&M on System #2.
08:48 - Start of O&M on System #1.
11:00 - Verizon on-site to repair broken phone line for SVE auto-dialer.
12:00 - Verizon finishes phone line repair. SVE auto-dialer is now operational. EA locks all three systems and leaves site. Both systems running upon departure.

☒ - Designates report is continued on additional pages

EA Representative: Rob Peterson

Project Manager: Don Conan

Page 1 of 5

**National Heatset Printing Site, Farmingdale, NY**  
**Contract No. , Site No. 152140**  
**Monitoring Table April 07, 2011**

DATE: 4/7/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 45F, Overcast, Rain showers

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

**I: System Data Collection**

Total Run Time Meter Reading: 5920.5 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
8:49	Extracted From Well	TI-01	17.0	62.6	DDC-1
8:49	Extracted From Well	TI-02	17.0	62.6	DDC-2
8:47	Pre-Heater Outlet	TI-03	32.0	89.6	Post Shell and Tubing
8:48	Pre-Heater Input	TI-04	20.0	68.0	Before Shell and Tubing
8:49	After Cooler Outlet	TI-05	44.0	111.2	Post Cooler Reading
8:49	After Cooler Input	TI-06	51.0	123.8	Before Cooler Reading
8:48	Blower Outlet	TI-07	65.0	149.0	Going to Pre-heater
8:51	Between GAC Units	TI-08	33.0	91.4	After GAC #1
8:51	GAC Unit Output	TI-09	31.0	87.8	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
8:50	FI-01	Extracted From DDC-1	250
8:50	FI-02	Extracted From DDC-2	225

Comments:

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
8:51	Discharge to Well	PI-01	2.5 PSI	DDC-1
8:51	Discharge to Well	PI-02	2.2 PSI	DDC-2
8:47	Drum	PI-03	-50.0 in. H2O	Vacuum Reading Inlet Blower

DATE: 4/7/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 45F, Overcast, Rain showers

### TCE Groundwater Treatment System #1

Influent Port		
TIME	PID VOC ppm	Temp Deg. F
8:54	3.0	NR

Comments: NR = Not Recorded

#### GAC Unit Information

Between GAC Unit #1 and GAC Unit #2		
TIME	PID VOC ppm	Temp Deg. F
8:57	2.4	NR

Comments:

Effluent Port		
TIME	PID VOC ppm	Temp Deg. F
9:00	1.1	NR

Comments:

## II: System Maintenance and Observations

Inspection of Water Column in DDC Wells	
Well#	Comments
DDC-1	Bubbling over screen (sufficient).
DDC-2	Bubbling over screen (sufficient).

Inspection of Sumps Associated with DDC Wells	
Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Approximately 1.0 inch of water in sump.

Liquid Levels in Knock-Out Tanks
Comments: No liquid detected in either knock-out tank.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Additional Comments:	None
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## III: System Evaluation

☒ System is operating satisfactorily

☐ Recommendations

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## IV: Sampling / Lab Data

N/A
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DATE: 4/7/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 45F, Overcast, Rain showers

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS: ON      OFF

I: System Data Collection

Total Run Time Meter Reading: 5885.3 hours

System Running at 43.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
8:43	Carbon Unit Inlet	CA01	17.0	62.6	Carbon Unit #1
8:39	Pre-Heater	PHA01	26.7	80.0	After Shell and Tubing
8:40	Blower Panel	B01	66.0	145.0	Discharge Blower
8:38	After Cooler Outlet	AC01	27.2	81.0	Post Cooler Piping
8:39	Pre-Heater	PHB01	54.4	130.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
8:35	WD01	Injected Air to DDC-3	180
8:35	WD02	Injected Air to DDC-4	140

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
8:38	Knock-Out Tank	T01	-1.2 in. Hg	Vacuum gauge on knock-out tank
8:42	Carbon-Unit #1 Outlet	CA1	-5.5 in. Hg	Vacuum exiting GAC #1
8:37	Discharge to Wells	WD2	1.8 PSI	Pressure reading on piping prior to splicing off to both wells
8:41	Blower Panel	BP01	-2.7 in.Hg	
8:42	Carbon Unit #2 Outlet	CA2	-5.0 in. Hg	Vacuum exiting GAC #2
9:10	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
9:15	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 4/7/11DAY: ThursdayEA TECHNICIAN: Rob PetersonWeather: 45F, Overcast, Rain Showers**TCE Groundwater Treatment System #2****GAC Unit Information****Influent Port GAC#1**

TIME	PID VOC ppm	Temp Deg. F
8:43	0.6	NR

Comments: NR = Not Recorded

**Influent Port GAC#2**

TIME	PID VOC ppm	Temp Deg. F
8:45	0.6	NR

Comments:

**Effluent**

TIME	PID VOC ppm	Temp Deg. F
8:47	0.5	NR

Comments:

**II: System Maintenance and Observations****Inspection of Water Column in DDC Wells**

Well#	Comments
DDC-3	Bubbling over screen (sufficient)
DDC-4	Bubbling over screen (sufficient)

**Inspection of Sumps Associated with DDC Wells**

Well#	Comments
DDC-3	~1.0 inch of water in sump.
DDC-4	~1.0 inches of water in sump.

Liquid Levels in Knock-Out Tanks
Comments: 2 inches of liquid detected in Knock-Out Tank.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:	None
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**III: System Evaluation**☒ System is operating satisfactorily☐ Recommendations

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**IV: Sampling / Lab Data**

N/A
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Project: National Heatset Printing Site - 1 Adams Boulevard, Farmingdale, NY - Site Management  
Contractors: \_\_\_\_\_  
AECOM Job No: \_\_\_\_\_  
Site No: \_\_\_\_\_  
AECOM Project Manager: \_\_\_\_\_

EA Engineering  
6712 Brooklawn Pkwy., Suite 104  
Syracuse, NY 13211  
Telephone: 315-431-4610

### DAILY REPORT

Day: 

S	M	T	W	TH	F	S
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Date: 21-Apr-11  
REPORT No. 34  
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	08:20 - 12:00	EA

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	NA

### EQUIPMENT AT THE SITE

I = Idle W = Working

1. Camera - W	3. Pressure Gauges - W	5. Vacuum Pump - W
2. PID - W		

### OPERATION & MAINTENANCE ACTIVITIES

EA Representative: Rob Peterson
DESCRIPTION OF WORK PERFORMED AND OBSERVED
10:15 - EA arrived on-site. Both system running upon arrival.
10:20 - Start of O&M on System #2.
11:00 - Start of O&M on System #1.
11:30 - EA locks both systems and leaves site. Both systems running upon departure.

☒ - Designates report is continued on additional pages

EA Representative: Rob Peterson

Project Manager: Don Conan

Page 1 of 5

**National Heatset Printing Site, Farmingdale, NY**  
**Contract No. , Site No. 152140**  
**Monitoring Table April 21, 2011**

DATE: 4/21/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 50F, Partly Cloudy

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

**I: System Data Collection**

Total Run Time Meter Reading: 6258.2 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:03	Extracted From Well	TI-01	16.0	60.8	DDC-1
11:03	Extracted From Well	TI-02	16.0	60.8	DDC-2
11:00	Pre-Heater Outlet	TI-03	28.0	82.4	Post Shell and Tubing
11:02	Pre-Heater Input	TI-04	17.0	62.6	Before Shell and Tubing
11:03	After Cooler Outlet	TI-05	29.0	84.2	Post Cooler Reading
11:03	After Cooler Input	TI-06	46.0	114.8	Before Cooler Reading
11:02	Blower Outlet	TI-07	60.0	140.0	Going to Pre-heater
11:06	Between GAC Units	TI-08	28.0	82.4	After GAC #1
11:06	GAC Unit Output	TI-09	28.0	82.4	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
11:04	FI-01	Extracted From DDC-1	250
11:04	FI-02	Extracted From DDC-2	225

Comments:

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
11:06	Discharge to Well	PI-01	2.7 PSI	DDC-1
11:06	Discharge to Well	PI-02	2.5 PSI	DDC-2
11:00	Drum	PI-03	-50.0 in. H2O	Vacuum Reading Inlet Blower

DATE: 4/21/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 50F, Partly Cloudy

### TCE Groundwater Treatment System #1

Influent Port		
TIME	PID VOC ppm	Temp Deg. F
11:08	3.0	NR

Comments: NR = Not Recorded

#### GAC Unit Information

Between GAC Unit #1 and GAC Unit #2		
TIME	PID VOC ppm	Temp Deg. F
11:11	2.4	NR

Comments:

Effluent Port		
TIME	PID VOC ppm	Temp Deg. F
11:14	1.1	NR

Comments:

## II: System Maintenance and Observations

Inspection of Water Column in DDC Wells	
Well#	Comments
DDC-1	Bubbling over screen (sufficient).
DDC-2	Bubbling over screen (sufficient).

Inspection of Sumps Associated with DDC Wells	
Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Approximately 1.0 inch of water in sump.

Liquid Levels in Knock-Out Tanks
Comments: No liquid detected in either knock-out tank.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Additional Comments:	None
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## III: System Evaluation

☒ System is operating satisfactorily

☐ Recommendations

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## IV: Sampling / Lab Data

N/A
-----

DATE: 4/21/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 50F, Partly Cloudy

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2 STATUS: ON OFF

I: System Data Collection

Total Run Time Meter Reading: 6223 hours

System Running at 43.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:20	Carbon Unit Inlet	CA01	18.0	64.4	Carbon Unit #1
10:23	Pre-Heater	PHA01	32.2	90.0	After Shell and Tubing
10:24	Blower Panel	B01	75.0	167.0	Discharge Blower
10:23	After Cooler Outlet	AC01	35.0	95.0	Post Cooler Piping
10:24	Pre-Heater	PHB01	62.8	145.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
10:21	WD01	Injected Air to DDC-3	140
10:21	WD02	Injected Air to DDC-4	140

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
10:22	Knock-Out Tank	T01	-2.5 in. Hg	Vacuum gauge on knock-out tank
10:20	Carbon-Unit #1 Outlet	CA1	-6.5 in. Hg	Vacuum exiting GAC #1
10:22	Discharge to Wells	WD2	2.1 PSI	Pressure reading on piping prior to splicing off to both wells
10:24	Blower Panel	BP01	-3.5 in.Hg	
10:22	Carbon Unit #2 Outlet	CA2	-6.0 in. Hg	Vacuum exiting GAC #2
10:37	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
10:48	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 4/21/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 45F, Partly Cloudy

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
10:26	0.6	NR

Comments: NR = Not Recorded

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
10:29	0.6	NR

Comments:

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
10:34	0.5	NR

Comments:

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling over screen (sufficient)
DDC-4	Bubbling over screen (sufficient)

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	~1.0 inch of water in sump.
DDC-4	~1.0 inches of water in sump.

Liquid Levels in Knock-Out Tanks
Comments: 2 inches of liquid detected in Knock-Out Tank.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:	None
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## III: System Evaluation

☒ System is operating satisfactorily

☐ Recommendations

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## IV: Sampling / Lab Data

N/A
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Project: National Heatset Printing Site - 1 Adams Boulevard, Farmingdale, NY - Site Management  
Contractors: \_\_\_\_\_  
AECOM Job No: \_\_\_\_\_  
Site No: \_\_\_\_\_  
AECOM Project Manager: \_\_\_\_\_

EA Engineering  
6712 Brooklawn Pkwy., Suite 104  
Syracuse, NY 13211  
Telephone: 315-431-4610

### DAILY REPORT

Day: 

S	M	T	W	TH	F	S
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Date: 29-Apr-11  
REPORT No. 35  
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	10:45 - 11:45	EA

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	NA

### EQUIPMENT AT THE SITE

I = Idle W = Working

1. Camera - W	3. Pressure Gauges - W	5. Vacuum Pump - W
2. PID - W		

### OPERATION & MAINTENANCE ACTIVITIES

EA Representative: Rob Peterson
DESCRIPTION OF WORK PERFORMED AND OBSERVED
10:45 - EA arrived on-site. Both system running upon arrival.
10:47 - Start of O&M on System #2.
11:20 - Start of O&M on System #1.
11:45 - EA locks both systems and leaves site. Both systems running upon departure.

☒ - Designates report is continued on additional pages

EA Representative: Rob Peterson

Project Manager: Don Conan

Page 1 of 5



**National Heatset Printing Site, Farmingdale, NY**  
**Contract No. , Site No. 152140**  
**Monitoring Table April 29, 2011**

DATE: 4/29/11

DAY: Friday

EA TECHNICIAN: Rob Peterson

Weather: 75F, Sunny

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

**I: System Data Collection**

Total Run Time Meter Reading: 6450.7 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:24	Extracted From Well	TI-01	17.0	62.6	DDC-1
11:24	Extracted From Well	TI-02	17.0	62.6	DDC-2
11:21	Pre-Heater Outlet	TI-03	31.0	87.8	Post Shell and Tubing
11:23	Pre-Heater Input	TI-04	20.0	68.0	Before Shell and Tubing
11:23	After Cooler Outlet	TI-05	34.0	93.2	Post Cooler Reading
11:22	After Cooler Input	TI-06	48.0	118.4	Before Cooler Reading
11:22	Blower Outlet	TI-07	63.0	145.4	Going to Pre-heater
11:26	Between GAC Units	TI-08	31.0	87.8	After GAC #1
11:26	GAC Unit Output	TI-09	29.0	84.2	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
11:20	FI-01	Extracted From DDC-1	250
11:20	FI-02	Extracted From DDC-2	225

Comments:

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
11:25	Discharge to Well	PI-01	3.0 PSI	DDC-1
11:25	Discharge to Well	PI-02	2.6 PSI	DDC-2
11:21	Drum	PI-03	-51.0 in. H2O	Vacuum Reading Inlet Blower

DATE: 4/29/11

DAY: Friday

EA TECHNICIAN: Rob Peterson

Weather: 75F, Sunny

### TCE Groundwater Treatment System #1

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
11:28	2.7	NR

Comments: NR = Not Recorded

#### GAC Unit Information

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
11:34	2.5	NR

Comments:

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
11:38	1.6	NR

Comments:

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Bubbling over screen (sufficient).
DDC-2	Bubbling over screen (sufficient).

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Approximately 1.0 inch of water in sump.

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in either knock-out tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Additional Comments:

None

## III: System Evaluation



System is operating satisfactorily



Recommendations

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## IV: Sampling / Lab Data

N/A

DATE: 4/29/11

DAY: Friday

EA TECHNICIAN: Rob Peterson

Weather: 75F, Sunny

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2 STATUS: ON OFF

I: System Data Collection

Total Run Time Meter Reading: 6415 hours  
System Running at 43.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:47	Carbon Unit Inlet	CA01	26.0	78.8	Carbon Unit #1
10:50	Pre-Heater	PHA01	37.8	100.0	After Shell and Tubing
10:51	Blower Panel	B01	75.0	190.0	Discharge Blower
10:49	After Cooler Outlet	AC01	42.2	108.0	Post Cooler Piping
10:50	Pre-Heater	PHB01	71.1	160.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
10:46	WD01	Injected Air to DDC-3	140
10:46	WD02	Injected Air to DDC-4	140

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
10:48	Knock-Out Tank	T01	-2.5 in. Hg	Vacuum gauge on knock-out tank
10:47	Carbon-Unit #1 Outlet	CA1	-6.5 in. Hg	Vacuum exiting GAC #1
10:47	Discharge to Wells	WD2	2.1 PSI	Pressure reading on piping prior to splicing off to both wells
10:51	Blower Panel	BP01	-3.5 in.Hg	
10:48	Carbon Unit #2 Outlet	CA2	-6.0 in. Hg	Vacuum exiting GAC #2
11:05	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
11:13	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 4/29/11

DAY: Friday

EA TECHNICIAN: Rob Peterson

Weather: 75F, Sunny

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
10:53	0.5	NR

Comments: NR = Not Recorded

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
10:55	0.5	NR

Comments:

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
10:58	0.5	NR

Comments:

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling over screen (sufficient)
DDC-4	Bubbling over screen (sufficient)

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	~1.0 inch of water in sump.
DDC-4	~1.0 inches of water in sump.

Liquid Levels in Knock-Out Tanks
Comments: No liquid detected in Knock-Out Tank.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:	None
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## III: System Evaluation

☒ System is operating satisfactorily

☐ Recommendations

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## IV: Sampling / Lab Data

N/A
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**May 2011**

Project: National Heatset Printing Site - 1 Adams Boulevard, Farmingdale, NY - Site Management  
Contractors: \_\_\_\_\_  
AECOM Job No: \_\_\_\_\_  
Site No: \_\_\_\_\_  
AECOM Project Manager: \_\_\_\_\_

EA Engineering  
6712 Brooklawn Pkwy., Suite 104  
Syracuse, NY 13211  
Telephone: 315-431-4610

### DAILY REPORT

Day: 

S	M	T	W	TH	F	S
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Date: 12-May-11  
REPORT No. 36  
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	10:00 - 11:00	EA

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	NA

### EQUIPMENT AT THE SITE

I = Idle W = Working

1. Camera - W	3. Pressure Gauges - W	5. Vacuum Pump - W
2. PID - W		

### OPERATION & MAINTENANCE ACTIVITIES

EA Representative: Rob Peterson
DESCRIPTION OF WORK PERFORMED AND OBSERVED
10:00 - EA arrived on-site. Both system running upon arrival.
10:05 - Start of O&M on System #2.
10:35 - Start of O&M on System #1.
11:00 - EA locks both systems and leaves site. Both systems running upon departure.

☒ - Designates report is continued on additional pages

EA Representative: Rob Peterson

Project Manager: Don Conan

Page 1 of 5

**National Heatset Printing Site, Farmingdale, NY**  
**Contract No. , Site No. 152140**  
**Monitoring Table May 12, 2011**

DATE: 5/12/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 75F, Sunny

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

**I: System Data Collection**

Total Run Time Meter Reading: 6762 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:34	Extracted From Well	TI-01	17.0	62.6	DDC-1
10:34	Extracted From Well	TI-02	18.0	64.4	DDC-2
10:31	Pre-Heater Outlet	TI-03	30.0	86.0	Post Shell and Tubing
10:33	Pre-Heater Input	TI-04	19.0	66.2	Before Shell and Tubing
10:33	After Cooler Outlet	TI-05	31.0	87.8	Post Cooler Reading
10:32	After Cooler Input	TI-06	45.0	113.0	Before Cooler Reading
10:32	Blower Outlet	TI-07	60.0	140.0	Going to Pre-heater
10:36	Between GAC Units	TI-08	29.0	84.2	After GAC #1
10:36	GAC Unit Output	TI-09	27.0	80.6	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
10:30	FI-01	Extracted From DDC-1	250
10:30	FI-02	Extracted From DDC-2	225

Comments:

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
10:35	Discharge to Well	PI-01	2.8 PSI	DDC-1
10:35	Discharge to Well	PI-02	2.5 PSI	DDC-2
10:31	Drum	PI-03	-51.0 in. H2O	Vacuum Reading Inlet Blower

DATE: 5/12/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 75F, Sunny

### TCE Groundwater Treatment System #1

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
10:37	2.6	NR

Comments: NR = Not Recorded

#### GAC Unit Information

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
10:40	2.2	NR

Comments:

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
10:44	2.0	NR

Comments:

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Bubbling over screen (sufficient).
DDC-2	Bubbling over screen (sufficient).

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Approximately 1.0 inch of water in sump.

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in either knock-out tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Additional Comments:

None

## III: System Evaluation



System is operating satisfactorily



Recommendations

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## IV: Sampling / Lab Data

N/A



DATE: 5/12/11

DAY: Tuesday

EA TECHNICIAN: Rob Peterson

Weather: 75F, Sunny

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2 STATUS: ON OFF

I: System Data Collection

Total Run Time Meter Reading: 6726 hours  
System Running at 43.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:06	Carbon Unit Inlet	CA01	25.0	77.0	Carbon Unit #1
10:09	Pre-Heater	PHA01	35.0	95.0	After Shell and Tubing
10:10	Blower Panel	B01	86.7	188.0	Discharge Blower
10:08	After Cooler Outlet	AC01	38.9	102.0	Post Cooler Piping
10:09	Pre-Heater	PHB01	70.0	158.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
10:05	WD01	Injected Air to DDC-3	140
10:05	WD02	Injected Air to DDC-4	140

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
10:07	Knock-Out Tank	T01	-3.0 in. Hg	Vacuum gauge on knock-out tank
10:06	Carbon-Unit #1 Outlet	CA1	-7.0 in. Hg	Vacuum exiting GAC #1
10:11	Discharge to Wells	WD2	2.4 PSI	Pressure reading on piping prior to splicing off to both wells
10:51	Blower Panel	BP01	-4.5 in.Hg	
10:07	Carbon Unit #2 Outlet	CA2	-6.5 in. Hg	Vacuum exiting GAC #2
10:23	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
10:27	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 4/29/11

DAY: Friday

EA TECHNICIAN: Rob Peterson

Weather: 75F, Sunny

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
10:13	0.5	NR

Comments: NR = Not Recorded

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
10:15	0.5	NR

Comments:

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
10:17	0.5	NR

Comments:

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling over screen (sufficient)
DDC-4	Bubbling over screen (sufficient)

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	~1.0 inch of water in sump.
DDC-4	~1.0 inches of water in sump.

Liquid Levels in Knock-Out Tanks
Comments: Two inches detected in Knock-Out Tank.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:	None
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## III: System Evaluation

☒ System is operating satisfactorily

☐ Recommendations

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## IV: Sampling / Lab Data

N/A
-----

**Picture 1**



**View of graffiti on SVE unit.**

**Picture 2**



**View of graffiti on SVE unit.**

Picture 3



View of graffiti on SVE unit.

Picture 4



View of graffiti on National Heatset building.



Project: National Heatset Printing Site - 1 Adams Boulevard, Farmingdale, NY - Site Management  
Contractors: \_\_\_\_\_  
AECOM Job No: \_\_\_\_\_  
Site No: \_\_\_\_\_  
AECOM Project Manager: \_\_\_\_\_

EA Engineering  
6712 Brooklawn Pkwy., Suite 104  
Syracuse, NY 13211  
Telephone: 315-431-4610

### DAILY REPORT

Day: 

S	M	T	W	TH	F	S
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Date: 19-May-11  
REPORT No. 37  
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	10:30 - 12:00	EA

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	NA

### EQUIPMENT AT THE SITE

I = Idle W = Working

1. Camera - W	3. Pressure Gauges - W	5. Vacuum Pump - W
2. PID - W		

### OPERATION & MAINTENANCE ACTIVITIES

EA Representative: Rob Peterson
DESCRIPTION OF WORK PERFORMED AND OBSERVED
10:30 - EA arrived on-site. Both system running upon arrival.
10:32 - Start of O&M on System #2.
11:00 - Start of O&M on System #1.
11:20 - EA troubleshoots System #2. System is collecting large quantities of water from DDC wells. This is due to a higher groundwater table from inclement weather. EA decides to lower air flow and continue running the system. Blower is able to keep up with influx of water.
11:00 - EA locks both systems and leaves site. Both systems running upon departure.

☒ - Designates report is continued on additional pages

EA Representative: Rob Peterson

Project Manager: Don Conan

Page 1 of 5

**National Heatset Printing Site, Farmingdale, NY**  
**Contract No. , Site No. 152140**  
**Monitoring Table May 19, 2011**

DATE: 5/19/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 65F, Overcast

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

**I: System Data Collection**

Total Run Time Meter Reading: 6930.7 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:03	Extracted From Well	TI-01	17.0	62.6	DDC-1
11:03	Extracted From Well	TI-02	17.0	62.6	DDC-2
11:01	Pre-Heater Outlet	TI-03	31.0	87.8	Post Shell and Tubing
11:02	Pre-Heater Input	TI-04	20.0	68.0	Before Shell and Tubing
11:02	After Cooler Outlet	TI-05	34.0	93.2	Post Cooler Reading
11:02	After Cooler Input	TI-06	48.0	118.4	Before Cooler Reading
11:01	Blower Outlet	TI-07	64.0	147.2	Going to Pre-heater
11:05	Between GAC Units	TI-08	31.0	87.8	After GAC #1
11:05	GAC Unit Output	TI-09	28.0	82.4	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
11:06	FI-01	Extracted From DDC-1	250
11:06	FI-02	Extracted From DDC-2	225

Comments:

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
11:04	Discharge to Well	PI-01	3.2 PSI	DDC-1
11:04	Discharge to Well	PI-02	2.8 PSI	DDC-2
11:01	Drum	PI-03	-51.0 in. H2O	Vacuum Reading Inlet Blower

DATE: 5/19/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 65F, Overcast

### TCE Groundwater Treatment System #1

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
11:08	2.6	NR

Comments: NR = Not Recorded

#### GAC Unit Information

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
11:10	2.2	NR

Comments:

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
11:12	2.0	NR

Comments:

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Bubbling over screen (sufficient).
DDC-2	Bubbling over screen (sufficient).

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Approximately 1.0 inch of water in sump.

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in either knock-out tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Additional Comments:

None

## III: System Evaluation



System is operating satisfactorily



Recommendations

--

## IV: Sampling / Lab Data

N/A

DATE: 5/19/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 65F, Overcast

TCE Groundwater Treatment System #2      STATUS: ON      OFF

### I: System Data Collection

Total Run Time Meter Reading: 6895 hours

System Running at 43.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:33	Carbon Unit Inlet	CA01	27.0	80.6	Carbon Unit #1
10:36	Pre-Heater	PHA01	37.8	100.0	After Shell and Tubing
10:37	Blower Panel	B01	93.3	200.0	Discharge Blower
10:35	After Cooler Outlet	AC01	41.1	106.0	Post Cooler Piping
10:36	Pre-Heater	PHB01	77.8	172.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
10:32	WD01	Injected Air to DDC-3	140
10:32	WD02	Injected Air to DDC-4	140

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
10:35	Knock-Out Tank	T01	-4.0 in. Hg	Vacuum gauge on knock-out tank
10:33	Carbon-Unit #1 Outlet	CA1	-8.0 in. Hg	Vacuum exiting GAC #1
10:38	Discharge to Wells	WD2	2.5 PSI	Pressure reading on piping prior to splicing off to both wells
10:39	Blower Panel	BP01	-4.0 in.Hg	
10:39	Carbon Unit #2 Outlet	CA2	-7.5 in. Hg	Vacuum exiting GAC #2
11:30	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
11:35	DDC-4	N/A	0.4 PSI	Pressure gauge on well head



DATE: 5/19/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 65F, Overcast

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
10:40	0.5	NR

Comments: NR = Not Recorded

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
10:43	0.5	NR

Comments:

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
10:45	0.5	NR

Comments:

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling over screen (sufficient)
DDC-4	Bubbling over screen (sufficient)

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	NR
DDC-4	NR

Liquid Levels in Knock-Out Tanks
Comments: Two inches detected in Knock-Out Tank.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:	None
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## III: System Evaluation

☒ System is operating satisfactorily

☐ Recommendations

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## IV: Sampling / Lab Data

N/A
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Project: National Heatset Printing Site - 1 Adams Boulevard, Farmingdale, NY - Site Management  
Contractors: \_\_\_\_\_  
AECOM Job No: \_\_\_\_\_  
Site No: \_\_\_\_\_  
AECOM Project Manager: \_\_\_\_\_

EA Engineering  
6712 Brooklawn Pkwy., Suite 104  
Syracuse, NY 13211  
Telephone: 315-431-4610

### DAILY REPORT

Day: 

S	M	T	W	TH	F	S
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Date: 19-May-11  
REPORT No. 37  
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	11:00 - 12:00	EA

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	NA

### EQUIPMENT AT THE SITE

I = Idle W = Working

1. Camera - W	3. Pressure Gauges - W	5. Vacuum Pump - W
2. PID - W		

### OPERATION & MAINTENANCE ACTIVITIES

EA Representative: Rob Peterson
DESCRIPTION OF WORK PERFORMED AND OBSERVED
11:00 - EA arrived on-site. Both system running upon arrival.
11:05 - Start of O&M on System #2.
11:35 - Start of O&M on System #1.
12:00 - EA locks both systems and leaves site. Both systems running upon departure.

☒ - Designates report is continued on additional pages

EA Representative: Rob Peterson

Project Manager: Don Conan

Page 1 of 5

**National Heatset Printing Site, Farmingdale, NY**  
**Contract No. , Site No. 152140**  
**Monitoring Table May 24, 2011**

DATE: 5/24/11

DAY: Tuesday

EA TECHNICIAN: Rob Peterson

Weather: 75F, Overcast

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

**I: System Data Collection**

Total Run Time Meter Reading: 7050.7 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:35	Extracted From Well	TI-01	17.0	62.6	DDC-1
11:35	Extracted From Well	TI-02	17.0	62.6	DDC-2
11:36	Pre-Heater Outlet	TI-03	31.0	87.8	Post Shell and Tubing
11:36	Pre-Heater Input	TI-04	20.0	68.0	Before Shell and Tubing
11:36	After Cooler Outlet	TI-05	34.0	93.2	Post Cooler Reading
11:37	After Cooler Input	TI-06	48.0	118.4	Before Cooler Reading
11:37	Blower Outlet	TI-07	64.0	147.2	Going to Pre-heater
11:38	Between GAC Units	TI-08	31.0	87.8	After GAC #1
11:38	GAC Unit Output	TI-09	28.0	82.4	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
11:37	FI-01	Extracted From DDC-1	250
11:37	FI-02	Extracted From DDC-2	225

Comments:

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
11:39	Discharge to Well	PI-01	3.2 PSI	DDC-1
11:40	Discharge to Well	PI-02	2.8 PSI	DDC-2
11:40	Drum	PI-03	-51.0 in. H2O	Vacuum Reading Inlet Blower

DATE: 5/24/11

DAY: Tuesday

EA TECHNICIAN: Rob Peterson

Weather: 75F, Overcast

### TCE Groundwater Treatment System #1

Influent Port		
TIME	PID VOC ppm	Temp Deg. F
11:42	2.6	NR

Comments: NR = Not Recorded

#### GAC Unit Information

Between GAC Unit #1 and GAC Unit #2		
TIME	PID VOC ppm	Temp Deg. F
11:44	2.2	NR

Comments:

Effluent Port		
TIME	PID VOC ppm	Temp Deg. F
11:46	2.0	NR

Comments:

## II: System Maintenance and Observations

Inspection of Water Column in DDC Wells	
Well#	Comments
DDC-1	Bubbling over screen (sufficient).
DDC-2	Bubbling over screen (sufficient).

Inspection of Sumps Associated with DDC Wells	
Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Approximately 1.0 inch of water in sump.

Liquid Levels in Knock-Out Tanks
Comments: No liquid detected in either knock-out tank.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Additional Comments:	None
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## III: System Evaluation

☒ System is operating satisfactorily

☐ Recommendations

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## IV: Sampling / Lab Data

N/A
-----

DATE: 5/24/11

DAY: Tuesday

EA TECHNICIAN: Rob Peterson

Weather: 75F, Overcast

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

### **I: System Data Collection**

Total Run Time Meter Reading: 7050.7 hours

System Running at 43.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:05	Carbon Unit Inlet	CA01	27.0	80.6	Carbon Unit #1
11:05	Pre-Heater	PHA01	37.8	100.0	After Shell and Tubing
11:06	Blower Panel	B01	93.3	200.0	Discharge Blower
11:06	After Cooler Outlet	AC01	41.1	106.0	Post Cooler Piping
11:06	Pre-Heater	PHB01	77.8	172.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
11:07	WD01	Injected Air to DDC-3	140
11:07	WD02	Injected Air to DDC-4	140

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
11:08	Knock-Out Tank	T01	-4.0 in. Hg	Vacuum gauge on knock-out tank
11:08	Carbon-Unit #1 Outlet	CA1	-8.0 in. Hg	Vacuum exiting GAC #1
11:09	Discharge to Wells	WD2	2.5 PSI	Pressure reading on piping prior to splicing off to both wells
11:06	Blower Panel	BP01	-4.0 in.Hg	
11:10	Carbon Unit #2 Outlet	CA2	-7.5 in. Hg	Vacuum exiting GAC #2
11:18	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
11:25	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 5/24/11

DAY: Tuesday

EA TECHNICIAN: Rob Peterson

Weather: 75F, Overcast

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
11:12	0.5	NR

Comments: NR = Not Recorded

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
11:14	0.5	NR

Comments:

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
11:16	0.5	NR

Comments:

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling over screen (sufficient)
DDC-4	Bubbling over screen (sufficient)

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	NR
DDC-4	NR

Liquid Levels in Knock-Out Tanks
Comments: Two inches detected in Knock-Out Tank.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:	None
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## III: System Evaluation

☒ System is operating satisfactorily

☐ Recommendations

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## IV: Sampling / Lab Data

N/A
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**June 2011**

Project: National Heatset Printing Site - 1 Adams Boulevard, Farmingdale, NY - Site Management  
Contractors: \_\_\_\_\_  
AECOM Job No: \_\_\_\_\_  
Site No: \_\_\_\_\_  
AECOM Project Manager: \_\_\_\_\_

EA Engineering  
6712 Brooklawn Pkwy., Suite 104  
Syracuse, NY 13211  
Telephone: 315-431-4610

### DAILY REPORT

Day: 

S	M	T	W	TH	F	S
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Date: 19-May-11  
REPORT No. 37  
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	09:30 - 10:40	EA

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	NA

### EQUIPMENT AT THE SITE

I = Idle W = Working

1. Camera - W	3. Pressure Gauges - W	5. Vacuum Pump - W
2. PID - W		

### OPERATION & MAINTENANCE ACTIVITIES

EA Representative: Rob Peterson
DESCRIPTION OF WORK PERFORMED AND OBSERVED
09:30 - EA arrived on-site. Both system running upon arrival.
09:40 - Start of O&M on System #2. Upon arrival system #2 was off (blower over heated). EA reset system and lowered blower output frequency from 43 Hz to 41 Hz. Hopefully this will decrease water intake from DDC wells and reduce stress on blower.
10:06 - Start of O&M on System #1.
10:40 - EA locks both systems and leaves site. Both systems running upon departure.

☒ - Designates report is continued on additional pages

EA Representative: Rob Peterson

Project Manager: Don Conan

Page 1 of 5



**National Heatset Printing Site, Farmingdale, NY**  
**Contract No. , Site No. 152140**  
**Monitoring Table June 1, 2011**

DATE: 6/1/11

DAY: Wednesday

EA TECHNICIAN: Rob Peterson

Weather: 78F, Overcast

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

**I: System Data Collection**

Total Run Time Meter Reading: 7242 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:09	Extracted From Well	TI-01	19.0	66.2	DDC-1
10:09	Extracted From Well	TI-02	22.0	71.6	DDC-2
10:06	Pre-Heater Outlet	TI-03	34.0	93.2	Post Shell and Tubing
10:07	Pre-Heater Input	TI-04	23.0	73.4	Before Shell and Tubing
10:08	After Cooler Outlet	TI-05	36.0	96.8	Post Cooler Reading
10:07	After Cooler Input	TI-06	51.0	123.8	Before Cooler Reading
10:07	Blower Outlet	TI-07	67.0	152.6	Going to Pre-heater
10:12	Between GAC Units	TI-08	34.0	93.2	After GAC #1
10:12	GAC Unit Output	TI-09	33.0	91.4	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
11:10	FI-01	Extracted From DDC-1	250
11:10	FI-02	Extracted From DDC-2	225

Comments:

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
10:11	Discharge to Well	PI-01	3.1 PSI	DDC-1
10:11	Discharge to Well	PI-02	2.8 PSI	DDC-2
10:06	Drum	PI-03	-51.0 in. H2O	Vacuum Reading Inlet Blower

DATE: 6/1/11

DAY: Wednesday

EA TECHNICIAN: Rob Peterson

Weather: 78F, Overcast

### TCE Groundwater Treatment System #1

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
10:35	2.6	NR

Comments: NR = Not Recorded

#### GAC Unit Information

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
10:37	2.2	NR

Comments:

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
10:39	2.0	NR

Comments:

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Bubbling over screen (sufficient).
DDC-2	Bubbling over screen (sufficient).

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Approximately 1.0 inch of water in sump.

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in either knock-out tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Additional Comments:

None

## III: System Evaluation



System is operating satisfactorily



Recommendations

--

## IV: Sampling / Lab Data

N/A

DATE: 6/1/11

DAY: Wednesday

EA TECHNICIAN: Rob Peterson

Weather: 78F, Overcast

TCE Groundwater Treatment System #2      STATUS: ON      OFF

### I: System Data Collection

Total Run Time Meter Reading: 6953 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
9:45	Carbon Unit Inlet	CA01	26.0	78.8	Carbon Unit #1
9:46	Pre-Heater	PHA01	26.7	80.0	After Shell and Tubing
9:47	Blower Panel	B01	62.8	145.0	Discharge Blower
9:45	After Cooler Outlet	AC01	28.9	84.0	Post Cooler Piping
9:47	Pre-Heater	PHB01	46.1	115.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
9:41	WD01	Injected Air to DDC-3	140
9:41	WD02	Injected Air to DDC-4	140

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
9:45	Knock-Out Tank	T01	-1 in. Hg	Vacuum gauge on knock-out tank
9:42	Carbon-Unit #1 Outlet	CA1	-4.0 in. Hg	Vacuum exiting GAC #1
9:42	Discharge to Wells	WD2	3.4 PSI	Pressure reading on piping prior to splicing off to both wells
9:48	Blower Panel	BP01	-1.8 in.Hg	
9:48	Carbon Unit #2 Outlet	CA2	-4.4 in. Hg	Vacuum exiting GAC #2
9:59	DDC-3	N/A	0.2 PSI	Pressure gauge on well head
10:04	DDC-4	N/A	0.2 PSI	Pressure gauge on well head

DATE: 6/1/11

DAY: Wednesday

EA TECHNICIAN: Rob Peterson

Weather: 78F, Overcast

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
9:50	0.5	NR

Comments: NR = Not Recorded

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
9:54	0.5	NR

Comments:

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
9:56	0.5	NR

Comments:

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling over screen (sufficient)
DDC-4	Bubbling over screen (sufficient)

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	NR
DDC-4	NR

### Liquid Levels in Knock-Out Tanks

Comments: Two inches detected in Knock-Out Tank.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:

None

## III: System Evaluation

☒ System is operating satisfactorily

Recommendations

## IV: Sampling / Lab Data

N/A

Project: National Heatset Printing Site - 1 Adams Boulevard, Farmingdale, NY - Site Management  
Contractors: \_\_\_\_\_  
AECOM Job No: \_\_\_\_\_  
Site No: \_\_\_\_\_  
AECOM Project Manager: \_\_\_\_\_

EA Engineering  
6712 Brooklawn Pkwy., Suite 104  
Syracuse, NY 13211  
Telephone: 315-431-4610

### DAILY REPORT

Day: 

S	M	T	W	TH	F	S
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Date: 7-Jun-11  
REPORT No. 40  
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	11:35 - 12:40	EA

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	NA

### EQUIPMENT AT THE SITE

I = Idle W = Working

1. Camera - W	3. Pressure Gauges - W	5. Vacuum Pump - W
2. PID - W		

### OPERATION & MAINTENANCE ACTIVITIES

EA Representative: Rob Peterson
DESCRIPTION OF WORK PERFORMED AND OBSERVED
11:35 - EA arrived on-site. Both system running upon arrival.
11:39 - Start of O&M on System #2.
12:00 - Start of O&M on System #1.
12:40 - EA locks both systems and leaves site. Both systems running upon departure.

☒ x - Designates report is continued on additional pages

EA Representative: Rob Peterson

Project Manager: Don Conan

Page 1 of 5

**National Heatset Printing Site, Farmingdale, NY**  
**Contract No. , Site No. 152140**  
**Monitoring Table June 7, 2011**

DATE: 6/7/11

DAY: Tuesday

EA TECHNICIAN: Rob Peterson

Weather: 90F, Sunny

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

**I: System Data Collection**

Total Run Time Meter Reading: 7387.4 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
12:01	Extracted From Well	TI-01	21.0	69.8	DDC-1
12:02	Extracted From Well	TI-02	23.0	73.4	DDC-2
12:00	Pre-Heater Outlet	TI-03	38.0	100.4	Post Shell and Tubing
12:01	Pre-Heater Input	TI-04	26.0	78.8	Before Shell and Tubing
12:01	After Cooler Outlet	TI-05	42.0	107.6	Post Cooler Reading
12:00	After Cooler Input	TI-06	54.0	129.2	Before Cooler Reading
12:00	Blower Outlet	TI-07	70.0	158.0	Going to Pre-heater
12:03	Between GAC Units	TI-08	38.0	100.4	After GAC #1
12:03	GAC Unit Output	TI-09	35.0	95.0	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
12:02	FI-01	Extracted From DDC-1	250
12:02	FI-02	Extracted From DDC-2	225

Comments:

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
12:02	Discharge to Well	PI-01	3.0 PSI	DDC-1
12:02	Discharge to Well	PI-02	2.7 PSI	DDC-2
12:00	Drum	PI-03	-52.0 in. H2O	Vacuum Reading Inlet Blower

DATE: 6/7/11

DAY: Tuesday

EA TECHNICIAN: Rob Peterson

Weather: 90F, Sunny

### TCE Groundwater Treatment System #1

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
12:05	2.6	NR

Comments: NR = Not Recorded

#### GAC Unit Information

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
12:08	2.2	NR

Comments:

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
12:15	2.0	NR

Comments:

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Bubbling over screen (sufficient).
DDC-2	Bubbling over screen (sufficient).

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Approximately 1.0 inch of water in sump.

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in either knock-out tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Additional Comments:

None

## III: System Evaluation



System is operating satisfactorily



Recommendations

--

## IV: Sampling / Lab Data

N/A

DATE: 6/7/11

DAY: Tuesday

EA TECHNICIAN: Rob Peterson

Weather: 90F, Sunny

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

### **I: System Data Collection**

Total Run Time Meter Reading: 7099.5 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:39	Carbon Unit Inlet	CA01	34.0	93.2	Carbon Unit #1
11:41	Pre-Heater	PHA01	40.6	105.0	After Shell and Tubing
11:42	Blower Panel	B01	93.3	200.0	Discharge Blower
11:41	After Cooler Outlet	AC01	47.8	118.0	Post Cooler Piping
11:42	Pre-Heater	PHB01	76.7	170.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
11:39	WD01	Injected Air to DDC-3	145
11:39	WD02	Injected Air to DDC-4	135

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
11:41	Knock-Out Tank	T01	-2.3 in. Hg	Vacuum gauge on knock-out tank
11:39	Carbon-Unit #1 Outlet	CA1	-6.0 in. Hg	Vacuum exiting GAC #1
11:40	Discharge to Wells	WD2	3.1 PSI	Pressure reading on piping prior to splicing off to both wells
11:43	Blower Panel	BP01	-5.3 in. Hg	Vacuum exiting GAC #2
11:40	Carbon Unit #2 Outlet	CA2	-5.3 in. Hg	Vacuum exiting GAC #2
11:50	DDC-3	N/A	0.2 PSI	Pressure gauge on well head
11:55	DDC-4	N/A	0.2 PSI	Pressure gauge on well head



DATE: 6/7/11

DAY: Tuesday

EA TECHNICIAN: Rob Peterson

Weather: 90F, Sunny

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
11:45	0.5	NR

Comments: NR = Not Recorded

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
11:47	0.5	NR

Comments:

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
11:49	0.5	NR

Comments:

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling over screen (sufficient)
DDC-4	Bubbling over screen (sufficient)

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	NR
DDC-4	NR

Liquid Levels in Knock-Out Tanks
Comments: Two inches detected in Knock-Out Tank.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:	None
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## III: System Evaluation

☒ System is operating satisfactorily

☐ Recommendations

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## IV: Sampling / Lab Data

N/A
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Project: National Heatset Printing Site - 1 Adams Boulevard, Farmingdale, NY - Site Management  
Contractors: \_\_\_\_\_  
AECOM Job No: \_\_\_\_\_  
Site No: \_\_\_\_\_  
AECOM Project Manager: \_\_\_\_\_

EA Engineering  
6712 Brooklawn Pkwy., Suite 104  
Syracuse, NY 13211  
Telephone: 315-431-4610

### DAILY REPORT

Day: 

S	M	T	W	TH	F	S
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Date: 16-Jun-11  
REPORT No. 41  
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	11:15 - 12:15	EA

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	NA

### EQUIPMENT AT THE SITE

I = Idle W = Working

1. Camera - W	3. Pressure Gauges - W	5. Vacuum Pump - W
2. PID - W		

### OPERATION & MAINTENANCE ACTIVITIES

EA Representative: Rob Peterson
DESCRIPTION OF WORK PERFORMED AND OBSERVED
11:15 - EA arrived on-site. System #1 was off upon arrival.
11:19 - Start of O&M on System #2.
11:40 - Start of O&M on System #1. System was off upon arrival (Alarm: High Temperature Blower Air). EA reset/restarted system and allowed system to equilibrate before conducting O&M.
12:15 - EA locks both systems and leaves site. Both systems running upon departure.

☒ - Designates report is continued on additional pages

EA Representative: Rob Peterson

Project Manager: Jim Hayward

Page 1 of 5

**National Heatset Printing Site, Farmingdale, NY**  
**Contract No. , Site No. 152140**  
**Monitoring Table June 16, 2011**

DATE: 6/16/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 89F, Sunny

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

**I: System Data Collection**

Total Run Time Meter Reading: 7389.6 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:48	Extracted From Well	TI-01	20.0	68.0	DDC-1
11:48	Extracted From Well	TI-02	22.0	71.6	DDC-2
11:45	Pre-Heater Outlet	TI-03	27.0	80.6	Post Shell and Tubing
11:47	Pre-Heater Input	TI-04	24.0	75.2	Before Shell and Tubing
11:47	After Cooler Outlet	TI-05	26.0	78.8	Post Cooler Reading
11:47	After Cooler Input	TI-06	33.0	91.4	Before Cooler Reading
11:46	Blower Outlet	TI-07	38.0	100.4	Going to Pre-heater
11:49	Between GAC Units	TI-08	24.0	75.2	After GAC #1
11:49	GAC Unit Output	TI-09	22.0	71.6	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
11:48	FI-01	Extracted From DDC-1	250
11:48	FI-02	Extracted From DDC-2	225

Comments:

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
11:49	Discharge to Well	PI-01	3.0 PSI	DDC-1
11:49	Discharge to Well	PI-02	2.5 PSI	DDC-2
11:46	Drum	PI-03	-52.0 in. H2O	Vacuum Reading Inlet Blower

DATE: 6/16/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 89F, Sunny

### TCE Groundwater Treatment System #1

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
11:51	2.6	NR

Comments: NR = Not Recorded

#### GAC Unit Information

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
11:53	2.2	NR

Comments:

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
11:54	2.0	NR

Comments:

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Bubbling over screen (sufficient).
DDC-2	Bubbling over screen (sufficient).

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	NR

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in either knock-out tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Additional Comments:

None

## III: System Evaluation



System is operating satisfactorily



Recommendations

--

## IV: Sampling / Lab Data

N/A

DATE: 6/16/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 89F, Sunny

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

### **I: System Data Collection**

Total Run Time Meter Reading: 7315 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:19	Carbon Unit Inlet	CA01	30.0	86.0	Carbon Unit #1
11:22	Pre-Heater	PHA01	43.3	110.0	After Shell and Tubing
11:23	Blower Panel	B01	93.3	200.0	Discharge Blower
11:22	After Cooler Outlet	AC01	46.1	115.0	Post Cooler Piping
11:22	Pre-Heater	PHB01	75.6	168.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
11:20	WD01	Injected Air to DDC-3	145
11:20	WD02	Injected Air to DDC-4	135

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
11:21	Knock-Out Tank	T01	-2.5 in. Hg	Vacuum gauge on knock-out tank
11:19	Carbon-Unit #1 Outlet	CA1	-6.3 in. Hg	Vacuum exiting GAC #1
11:21	Discharge to Wells	WD2	3.0 PSI	Pressure reading on piping prior to splicing off to both wells
11:23	Blower Panel	BP01	-6.0 in.Hg	
11:21	Carbon Unit #2 Outlet	CA2	-5.5 in. Hg	Vacuum exiting GAC #2
11:34	DDC-3	N/A	0.2 PSI	Pressure gauge on well head
11:38	DDC-4	N/A	0.2 PSI	Pressure gauge on well head

DATE: 6/16/11

DAY: Thursday

EA TECHNICIAN: Rob Peterson

Weather: 89F, Sunny

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
11:25	0.5	NR

Comments: NR = Not Recorded

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
11:28	0.5	NR

Comments:

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
11:30	0.5	NR

Comments:

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling over screen (sufficient)
DDC-4	Bubbling over screen (sufficient)

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	NR
DDC-4	NR

Liquid Levels in Knock-Out Tanks
Comments: One inches detected in Knock-Out Tank.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:	None
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## III: System Evaluation

☒ System is operating satisfactorily

☐ Recommendations

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## IV: Sampling / Lab Data

N/A
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**July 2011**

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: Jim Hayward

### DAILY REPORT

Day: 

S	M	T	W	TH	F	S
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Date: 11-Jul-11  
REPORT No. \_\_\_\_\_  
PAGE No. 1  
PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	7:50 - 9:30	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
7:50 - Preferred on-site and both systems running upon arrival.
7:59 - Start of O&M on System #1.
8:45 - Start of O&M on System #2.
9:25 - O&M for both systems completed.
9:30 - Preferred locked both systems and all parties off site. Both systems were running upon departure.

☒ x - Designates report is continued on additional pages

EA/Preferred Site Representative: Thomas Fitzpatrick (Preferred)

Project Manager: Jim Hayward Page 1 of 7



# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table July 11, 2011**

DATE: 7/11/11

DAY: Monday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Bright Sun

TCE Groundwater Treatment System #1 STATUS: ON OFF

## I: System Data Collection

Run Time Meter Reading (since last shut down): 138.2 hours

Total Run Time Meter Reading: 7984.0 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
8:00	Extracted From Well	TI-01	21.0	69.8	DDC-1
8:00	Extracted From Well	TI-02	23.0	73.4	DDC-2
8:02	Pre-Heater Outlet	TI-03	35.0	95.0	Post Shell and Tubing
8:01	Pre-Heater Input	TI-04	25.0	77.0	Before Shell and Tubing
8:01	After Cooler Outlet	TI-05	37.0	98.6	Post Cooler Reading
8:01	After Cooler Input	TI-06	56.0	132.8	Before Cooler Reading
8:02	Blower Outlet	TI-07	65.0	149.0	Going to Pre-heater
8:03	Between GAC Units	TI-08	36.0	96.8	After GAC #1
8:04	GAC Unit Output	TI-09	34.0	93.2	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
7:59	FI-01	Extracted From DDC-1	252
7:59	FI-02	Extracted From DDC-2	224

Comments:

1) Flow meter F0-1 is functioning.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
8:00	Discharge to Well	PI-01	2.7 PSI	DDC-1
8:00	Discharge to Well	PI-02	2.4 PSI	DDC-2
8:00	Drum	PI-03	-49.0 in. H2O	Vacuum Reading Going to Blower

DATE: 7/11/11

DAY: Monday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Bright Sun

### TCE Groundwater Treatment System #1

#### GAC Unit Information

##### Influent Port

TIME	PID VOC ppm	Temp Deg. F
8:08	0.0	96.4

Comments: None

##### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
8:12	0.0	88.5

Comments: None

##### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
8:17	0.0	96.0

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

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

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	About 1.5 inches of water in sump.

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in either knock-out tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:

*None*

## III: System Evaluation



System is operating satisfactorily

EA recommends / implements the following....

Observe FO-1 gauge weekly to ensure proper operation.

## IV: Sampling / Lab Data

N/A

DATE: 7/11/11

DAY: Monday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Bright Sun

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2 STATUS: ON OFF

I: System Data Collection

Total Run Time Meter Reading: 7683.7 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
9:04	Carbon Unit Inlet	CA01	33.0	91.4	Carbon Unit #1
9:01	Pre-Heater	PHA01	40.6	105.0	After Shell and Tubing
9:02	Blower Panel	B01	85.0	185.0	Exiting Blower
9:01	After Cooler Outlet	AC01	44.4	112.0	Post Cooler Piping
9:02	Pre-Heater	PHB01	70.0	158.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
8:59	WD01	Injected Air to DDC-3	175
8:59	WD02	Injected Air to DDC-4	126

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
9:00	Knock-Out Tank	T01	-0.0 in. Hg	Vacuum gauge on knock-out tank
9:04	Carbon-Unit #1 Outlet	CA1	-4.5 in. Hg	Vacuum exiting GAC #1
9:00	Discharge to Wells	WD2	3.0 PSI	Pressure reading on piping prior to splicing off to both wells
9:03	Blower Panel	BP01	-4.0 in. Hg	Vacuum coming off of blower
9:03	Carbon Unit #2 Outlet	CA2	-3.9 in. Hg	Vacuum exiting GAC #2
8:55	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
8:49	DDC-4	N/A	0.2 PSI	Pressure gauge on well head

DATE: 7/11/11DAY: MondayTECHNICIAN: Thomas FitzpatrickWeather: 80 Deg. Bright Sun**TCE Groundwater Treatment System #2****GAC Unit Information****Influent Port GAC#1**

TIME	PID VOC ppm	Temp Deg. F
9:07	0.0	87.2

Comments: None

**Influent Port GAC#2**

TIME	PID VOC ppm	Temp Deg. F
9:11	0.0	91.3

Comments: None

**Effluent**

TIME	PID VOC ppm	Temp Deg. F
9:15	0.0	90.4

Comments: None

**II: System Maintenance and Observations****Inspection of Water Column in DDC Wells**

Well#	Comments
DDC-3	Bubbling is sufficient in well.
DDC-4	Bubbling is sufficient in well.

**Inspection of Sumps Associated with DDC Wells**

Well#	Comments
DDC-3	1.5 inches of water in this sump.
DDC-4	Over 1.5 feet of water in this sump

**Liquid Levels in Knock-Out Tanks**

Comments: No liquid detected in Knock-Out Tank.

**Oil Level on Blower**

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:

*The sump pump associated with DDC-4 was pulled from it sump on 7/05/11 and inspected (Rule Pumps Computerized Sump Pump 8" Cord, 1800 GPH A53S (D)).*

*The electric connection on the pump was evaluated and determined that power was being provided to the sump pump. The pump was then placed in a five gallon bucket full of water. The pump did not operate when placed in the bucket of water. The pump may need to be replaced.*

**III: System Evaluation**

System is operating satisfactorily

EA recommends / implements the following....

*May need to replace sump pump in DDC-4***IV: Sampling / Lab Data**

N/A

**PHOTOGRAPHIC LOG**  
**Date: 7-11-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 351	7/11/2011	8:02 AM	View of the two Knock-out Drums associated with System #1. No water was detected in either site glass.	
Picture 359	7/11/2011	8:12 AM	View of the Photoionization Detector screening air from a tedlar bag.	

## Photos (07.11.11)



Picture 351 - View of the two Knock-out Drums associated with System #1. No water was detected in either site glass.



Picture 359 - View of the Photoionization Detector screening air from a tedlar bag.

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: Jim Hayward

### DAILY REPORT

Day: 

S	M	T	W	TH	F	S
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Date: 18-Jul-11  
REPORT No. \_\_\_\_\_  
PAGE No. 1  
PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	11:16 - 12:50	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
11:16 - Preferred on-site and both systems running upon arrival.
11:21 - Start of O&M on System #2.
12:10 - Start of O&M on System #1.
12:45 - O&M for both systems completed.
12:50 - Preferred locked both systems and all parties off site. Both systems were running upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative: Thomas Fitzpatrick (Preferred)

Project Manager: Jim Hayward

Page 1 of 7

# EA Engineering

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



323 Merrick Avenue - North Merrick, New York 11566 Tel: (516) 546-1100 Fax : (516) 213-8156

**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table July 18, 2011**

DATE: 7/18/11

DAY: Monday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Bright Sun

TCE Groundwater Treatment System #1 STATUS: ON OFF

## I: System Data Collection

Run Time Meter Reading (since last shut down): 310.5 hours

Total Run Time Meter Reading: 8156.2 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
12:15	Extracted From Well	TI-01	23.0	73.4	DDC-1
12:15	Extracted From Well	TI-02	26.0	78.8	DDC-2
12:16	Pre-Heater Outlet	TI-03	38.5	101.3	Post Shell and Tubing
12:16	Pre-Heater Input	TI-04	28.0	82.4	Before Shell and Tubing
12:15	After Cooler Outlet	TI-05	41.5	106.7	Post Cooler Reading
12:16	After Cooler Input	TI-06	54.0	129.2	Before Cooler Reading
12:16	Blower Outlet	TI-07	69.0	156.2	Going to Pre-heater
12:17	Between GAC Units	TI-08	39.0	102.2	After GAC #1
12:17	GAC Unit Output	TI-09	37.0	98.6	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
12:13	FI-01	Extracted From DDC-1	252
12:13	FI-02	Extracted From DDC-2	216

Comments:

1) Flow meter F0-1 is functioning.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
12:14	Discharge to Well	PI-01	2.6 PSI	DDC-1
12:14	Discharge to Well	PI-02	2.4 PSI	DDC-2
12:14	Drum	PI-03	-48.5 in. H2O	Vacuum Reading Going to Blower



DATE: 7/18/11

DAY: Monday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Bright Sun

### TCE Groundwater Treatment System #1

#### GAC Unit Information

##### Influent Port

TIME	PID VOC ppm	Temp Deg. F
12:30	1.7	102.9

Comments: None

##### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
12:36	1.7	102.5

Comments: None

##### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
12:33	0.0	100.3

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

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

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	No water detected in sump.

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in either knock-out tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:

*None*

## III: System Evaluation



System is operating satisfactorily

EA recommends / implements the following....

Observe FO-1 gauge weekly to ensure gauge is properly operating.

## IV: Sampling / Lab Data

N/A

DATE: 7/18/11

DAY: Monday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Bright Sun

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS: ON      OFF

I: System Data Collection

Total Run Time Meter Reading: 7854.3 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:35	Carbon Unit Inlet	CA01	34.0	93.2	Carbon Unit #1
11:23	Pre-Heater	PHA01	40.6	105.0	After Shell and Tubing
11:24	Blower Panel	B01	86.7	188.0	Exiting Blower
11:23	After Cooler Outlet	AC01	46.7	116.0	Post Cooler Piping
11:24	Pre-Heater	PHB01	71.1	160.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
11:22	WD01	Injected Air to DDC-3	172
11:22	WD02	Injected Air to DDC-4	140

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
11:23	Knock-Out Tank	T01	-0.0 in. Hg	Vacuum gauge on knock-out tank
11:25	Carbon-Unit #1 Outlet	CA1	-4.5 in. Hg	Vacuum exiting GAC #1
11:23	Discharge to Wells	WD2	3.0 PSI	Pressure reading on piping prior to splicing off to both wells
11:24	Blower Panel	BP01	-4.0 in. Hg	Vacuum coming off of blower
11:24	Carbon Unit #2 Outlet	CA2	-3.9 in. Hg	Vacuum exiting GAC #2
11:32	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
11:40	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 7/18/11

DAY: Monday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Bright Sun

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
11:49	0.0	90.4

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
11:52	0.0	91.7

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
11:55	0.0	90.3

Comments: None

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling is sufficient in well.
DDC-4	Bubbling is sufficient in well.

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	1.5 inches of water in this sump.
DDC-4	Over 1.5 feet of water in this sump

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in Knock-Out Tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:

**None**

## III: System Evaluation



System is operating satisfactorily



EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 7-18-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 352	7/18/2011	11:22 AM	View of the control panel for System #2. Both systems were running upon arrival.	
Picture 356	7/18/2011	12:13 PM	View of FI-01 and FI-02 flow gauges associated with System #1.	

## Photos (07.18.11)



Picture 352 - View of the control panel for System #2. Both systems were running upon arrival.



Picture 356 - View of FI-01 and FI-02 flow gauges associated with System #1.

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
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Date: 27-Jul-11  
REPORT No. \_\_\_\_\_  
PAGE No. 1

PREPARED BY: Marc Morgenstern TITLE: Site Rep.

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
Marc Morgenstern	Technician	13:26 - 14:40	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

### 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: Marc Morgenstern - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
13:26 - Preferred on-site and both systems running upon arrival.
13:30 - Start of O&M on System #2.
13:55 - Start of O&M on System #1.
14:09 - High temperature blower air alarm for System #1 activated as the access door was left ajar.
14:20 - System #1 restarted.
14:35 - O&M for both systems completed.
14:40 - Preferred locked both systems and all parties off site. Both systems were running upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative:

Marc Morgenstern (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table July 27, 2011**

DATE: 7/27/11

DAY: Wednesday

TECHNICIAN: Marc Morgenstern

Weather: 80 Deg. Bright Sun

TCE Groundwater Treatment System #1 STATUS: ON OFF

## I: System Data Collection

Run Time Meter Reading (since last shut down): 528.2 hours

Total Run Time Meter Reading: 8,374.0 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
14:01	Extracted From Well	TI-01	23.0	73.4	DDC-1
14:00	Extracted From Well	TI-02	25.0	77.0	DDC-2
13:59	Pre-Heater Outlet	TI-03	38.0	100.4	Post Shell and Tubing
14:00	Pre-Heater Input	TI-04	26.0	78.8	Before Shell and Tubing
14:00	After Cooler Outlet	TI-05	40.0	104.0	Post Cooler Reading
14:00	After Cooler Input	TI-06	53.0	127.4	Before Cooler Reading
13:59	Blower Outlet	TI-07	69.0	156.2	Going to Pre-heater
14:03	Between GAC Units	TI-08	38.0	100.4	After GAC #1
14:04	GAC Unit Output	TI-09	36.0	96.8	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
14:01	FI-01	Extracted From DDC-1	252
14:02	FI-02	Extracted From DDC-2	220

Comments:

1) Flow meter F0-1 is functioning.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
14:02	Discharge to Well	PI-01	2.2 PSI	DDC-1
14:02	Discharge to Well	PI-02	2.0 PSI	DDC-2
13:59	Drum	PI-03	-49.0 in. H2O	Vacuum Reading Going to Blower

DATE: 7/27/11

DAY: Wednesday

TECHNICIAN: Marc Morqenstern

Weather: 80 Deg. Bright Sun

### TCE Groundwater Treatment System #1

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
14:07	1.1	98.4

Comments: None

#### GAC Unit Information

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
14:08	0.4	97.3

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
14:08	0.0	98.6

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

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

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	No water detected in this sump.

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in either knock-out tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:

*None*

## III: System Evaluation



System is operating satisfactorily

EA recommends / implements the following....

Observe FO-1 gauge weekly to ensure gauge is properly operating.

## IV: Sampling / Lab Data

N/A



DATE: 7/27/11

DAY: Wednesday

TECHNICIAN: Marc Morgenstern

Weather: 80 Deg. Bright Sun

GWTT EQUIPMENT INFORMATION

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

**I: System Data Collection**

Total Run Time Meter Reading: 8,072.5 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
13:37	Carbon Unit Inlet	CA01	35.0	95.0	Carbon Unit #1
13:36	Pre-Heater	PHA01	40.6	105.0	After Shell and Tubing
13:40	Blower Panel	B01	85.0	185.0	Exiting Blower
13:40	After Cooler Outlet	AC01	46.1	115.0	Post Cooler Piping
13:40	Pre-Heater	PHB01	71.1	160.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
13:36	WD01	Injected Air to DDC-3	182
13:36	WD02	Injected Air to DDC-4	140

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
13:37	Knock-Out Tank	T01	-0.0 in. Hg	Vacuum gauge on knock-out tank
13:37	Carbon-Unit #1 Outlet	CA1	-4.5 in. Hg	Vacuum exiting GAC #1
13:38	Discharge to Wells	WD2	2.7 PSI	Pressure reading on piping prior to splicing off to both wells
13:39	Blower Panel	BP01	-4.0 in. Hg	Vacuum coming off of blower
13:39	Carbon Unit #2 Outlet	CA2	-4.0 in. Hg	Vacuum exiting GAC #2
13:37	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
13:40	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 7/27/11

DAY: Wednesday

TECHNICIAN: Marc Morgenstern

Weather: 80 Deg. Bright Sun

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
13:42	0.4	90.6

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
13:42	0.0	92.2

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
13:43	0.0	88.3

Comments: None

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling is sufficient in well.
DDC-4	Bubbling is sufficient in well.

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	1.5 inches of water in this sump.
DDC-4	Over 1.5 feet of water in this sump

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in Knock-Out Tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:

**None**

## III: System Evaluation



System is operating satisfactorily



EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 7-27-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
P6280021	7/27/2011	1:42 PM	View of PID screening of air samples at the influent port for GAC#1 in System #2.	
P6280026	7/27/2011	1:40 PM	View of pressure gauge on well head of DDC-4 associated with System #2.	

## Photos (07.27.11)



**P6280021 - View of PID screening of air samples at the influent port for GAC#1 in System #2.**



**P6280026 - View of pressure gauge on well head of DDC-4 associated with System #2.**

**August 2011**

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
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 Date: 4-Aug-11  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	8:51 - 10:30	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
8:51 - Preferred on-site and both systems running upon arrival.
9:12 - Start of O&M on System #2.
10:00 - Start of O&M on System #1.
10:28 - O&M for both systems completed.
10:30 - Preferred locked both systems and all parties off-site. Both systems were running upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table August 4, 2011**

DATE: 8/4/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 75 Deg. Partly Cloudy

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

## I: System Data Collection

Run Time Meter Reading (since last shut down): 187.6 hours

Total Run Time Meter Reading: 8,561.6 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:02	Extracted From Well	TI-01	22.0	71.6	DDC-1
10:03	Extracted From Well	TI-02	23.0	73.4	DDC-2
10:03	Pre-Heater Outlet	TI-03	34.5	94.1	Post Shell and Tubing
10:04	Pre-Heater Input	TI-04	25.0	77.0	Before Shell and Tubing
10:03	After Cooler Outlet	TI-05	37.0	98.6	Post Cooler Reading
10:03	After Cooler Input	TI-06	49.0	120.2	Before Cooler Reading
10:04	Blower Outlet	TI-07	64.0	147.2	Going to Pre-heater
10:04	Between GAC Units	TI-08	35.0	95.0	After GAC #1
10:04	GAC Unit Output	TI-09	33.0	91.4	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
10:01	FI-01	Extracted From DDC-1	252
10:01	FI-02	Extracted From DDC-2	224

Comments:

1) Flow meter F0-1 is functioning.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
10:02	Discharge to Well	PI-01	2.4 PSI	DDC-1
10:02	Discharge to Well	PI-02	2.2 PSI	DDC-2
10:02	Drum	PI-03	-49.0 in. H2O	Vacuum Reading Going to Blower

DATE: 8/4/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 75 Deg. Partly Cloudy

### TCE Groundwater Treatment System #1

#### GAC Unit Information

##### Influent Port

TIME	PID VOC ppm	Temp Deg. F
10:05	3.5	97.3

Comments: None

##### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
10:11	2.9	94.4

Comments: None

##### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
10:08	1.5	89.7

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

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

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	No water detected in this well.

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in either knock-out tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:

**None**

## III: System Evaluation



System is operating satisfactorily

EA recommends / implements the following....

Continue to observe FO-1 gauge to ensure proper operation.

## IV: Sampling / Lab Data

N/A



DATE: 8/4/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 75 Deg. Partly Cloudy

GWTT EQUIPMENT INFORMATION

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

**I: System Data Collection**

Total Run Time Meter Reading: 8,260.1 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
9:13	Carbon Unit Inlet	CA01	32.0	89.6	Carbon Unit #1
9:11	Pre-Heater	PHA01	38.9	102.0	After Shell and Tubing
9:12	Blower Panel	B01	85.0	185.0	Exiting Blower
9:11	After Cooler Outlet	AC01	42.8	109.0	Post Cooler Piping
9:12	Pre-Heater	PHB01	68.3	155.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
9:09	WD01	Injected Air to DDC-3	152
9:09	WD02	Injected Air to DDC-4	140

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
9:10	Knock-Out Tank	T01	-0.9 in. Hg	Vacuum gauge on knock-out tank
9:13	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
9:10	Discharge to Wells	WD2	2.7 PSI	Pressure reading on piping prior to splicing off to both wells
9:12	Blower Panel	BP01	-4.0 in. Hg	Vacuum coming off of blower
9:13	Carbon Unit #2 Outlet	CA2	-4.4 in. Hg	Vacuum exiting GAC #2
9:20	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
9:36	DDC-4	N/A	0.2 PSI	Pressure gauge on well head

DATE: 8/4/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 75 Deg. Partly Cloudy

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
9:49	0.4	88.6

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
9:46	0.3	88.3

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
9:49	0.1	86.7

Comments: None

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling is sufficient in well.
DDC-4	Bubbling is sufficient in well.

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	1.5 inches of water in this sump.
DDC-4	1.5 inches of water in this sump

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in Knock-Out Tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:

**None**

## III: System Evaluation



System is operating satisfactorily

EA recommends / implements the following....

Change-out of sump pump in DDC-4

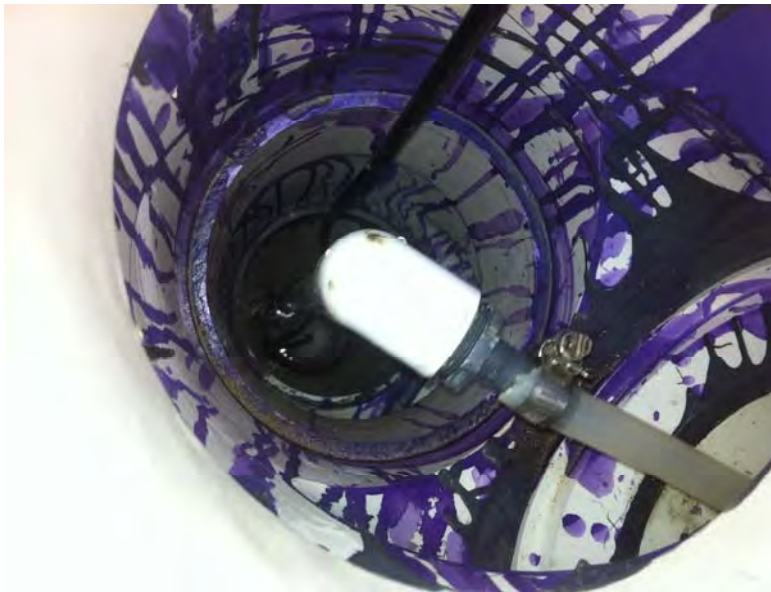
## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 8-04-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 355	8/4/2011	1:42 PM	View of sump pump associated with DDC-4. Only 1.5 inches of water was detected within the sump.	
Picture 362	8/4/2011	10:04 AM	View of temperature gauge TI-07 reading 64.0 degrees Celsius.	

## Photos (08.04.11)



Picture 355 - View of sump pump associated with DDC-4. Only 1.5 inches of water was detected within the sump.



Picture 362 - View of temperature gauge TI-07 reading 64.0 degrees Celsius.

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
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 Date: 11-Aug-11  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	10:21 - 11:40	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
10:21 - Preferred on-site and both systems running upon arrival.
10:27 - Start of O&M on System #2.
11:06 - Start of O&M on System #1.
11:35 - O&M for both systems completed.
11:40 - Preferred locked both systems and all parties off-site. Both systems were running upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative: Thomas Fitzpatrick (Preferred) Project Manager: James Hayward Page 1 of 7

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**  
**Contract No. , Site No. 152140**  
**Monitoring Table August 11, 2011**

DATE: 8/11/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Bright Sun

TCE Groundwater Treatment System #1 STATUS: ON OFF

## I: System Data Collection

Run Time Meter Reading (since last shut down): 356.7 hours

Total Run Time Meter Reading: 8,730.9 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:00	Extracted From Well	TI-01	22.0	71.6	DDC-1
11:08	Extracted From Well	TI-02	24.0	75.2	DDC-2
11:08	Pre-Heater Outlet	TI-03	36.0	96.8	Post Shell and Tubing
11:09	Pre-Heater Input	TI-04	26.0	78.8	Before Shell and Tubing
11:09	After Cooler Outlet	TI-05	39.0	102.2	Post Cooler Reading
11:09	After Cooler Input	TI-06	50.0	122.0	Before Cooler Reading
11:10	Blower Outlet	TI-07	63.5	146.3	Going to Pre-heater
11:10	Between GAC Units	TI-08	36.0	96.8	After GAC #1
11:10	GAC Unit Output	TI-09	34.0	93.2	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
11:06	FI-01	Extracted From DDC-1	252
11:06	FI-02	Extracted From DDC-2	225

Comments:

1) Flow meter F0-1 is functioning.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
11:07	Discharge to Well	PI-01	2.4 PSI	DDC-1
11:07	Discharge to Well	PI-02	2.2 PSI	DDC-2
11:07	Drum	PI-03	-49.0 in. H2O	Vacuum Reading Going to Blower

DATE: 8/11/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Bright Sun

### TCE Groundwater Treatment System #1

#### GAC Unit Information

##### Influent Port

TIME	PID VOC ppm	Temp Deg. F
11:14	0.0	100.0

Comments: None

##### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
11:20	0.0	97.3

Comments: None

##### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
11:16	0.0	94.2

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

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

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	No water detected in this sump.

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in either knock-out tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:

*None*

## III: System Evaluation



System is operating satisfactorily

EA recommends / implements the following....

Replace FO-1 gauge.

## IV: Sampling / Lab Data

N/A

DATE: 8/11/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Bright Sun

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2 STATUS: ON OFF

I: System Data Collection

Total Run Time Meter Reading: 8,429.4 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:32	Carbon Unit Inlet	CA01	32.0	89.6	Carbon Unit #1
10:30	Pre-Heater	PHA01	40.0	104.0	After Shell and Tubing
10:31	Blower Panel	B01	85.0	180.0	Exiting Blower
10:30	After Cooler Outlet	AC01	43.3	110.0	Post Cooler Piping
10:30	Pre-Heater	PHB01	68.3	155.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
10:28	WD01	Injected Air to DDC-3	182
10:28	WD02	Injected Air to DDC-4	147

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
10:30	Knock-Out Tank	T01	-0.0 in. Hg	Vacuum gauge on knock-out tank
10:32	Carbon-Unit #1 Outlet	CA1	-4.5 in. Hg	Vacuum exiting GAC #1
10:29	Discharge to Wells	WD2	2.7 PSI	Pressure reading on piping prior to splicing off to both wells
10:31	Blower Panel	BP01	-4.0 in. Hg	Vacuum coming off of blower
10:31	Carbon Unit #2 Outlet	CA2	-4.0 in. Hg	Vacuum exiting GAC #2
10:52	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
10:56	DDC-4	N/A	0.5 PSI	Pressure gauge on well head



DATE: 8/11/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Bright Sun

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
10:37	0.0	87.7

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
10:41	0.0	87.7

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
10:44	0.0	90.1

Comments: None

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling is sufficient in well.
DDC-4	Bubbling is sufficient in well.

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	No water detected in this sump.
DDC-4	1.5 inches of water in this sump

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in Knock-Out Tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 3/9/2011 with Omega SB-220 oil.

Addition Comments:

**None**

## III: System Evaluation

☒ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 8-11-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 357	8/11/2011	10:37 AM	Field Screening of the influent ports in System #2 resulted in a reading of 0.0 ppm.	
Picture 358	8/11/2011	11:06 AM	View of the control panel associated with System #1. No alarms were tripped upon arrival.	

## Photos (08.11.11)



Picture 357 - Field Screening of the influent ports in System #2 resulted in a reading of 0.0 ppm.



Picture 358 - View of the control panel associated with System #1. No alarms were tripped upon arrival.

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
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Date: 17-Aug-11  
REPORT No.                       
PAGE No. 1  
PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	10:50 - 14:50	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
10:50 - Preferred on-site and both systems were off upon arrival. The Variable Frequency Drive (VFD) associated with System #2 displayed "Mom Power Loss" alarm.
11:24 - Began changing oil in System #2 blower.
12:00 - Turned System #2 on. Began changing oil in System #1 blower.
13:06 - Turned System #1 on. Began O&M on System #2.
13:55 - Started O&M on System #1.
14:20 - O&M for both systems complete.
14:30 - Preferred locked both systems and all parties off-site. Both systems running upon departure.

x
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 - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table August 17, 2011**

DATE: 8/17/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Partly Cloudy

**TCE Groundwater Treatment System #1 STATUS: ON OFF** \* System was off upon arrival with all alarms lit on control panel. The System shut down early Sunday morning after running 66.6 hours after previous O&M inspection on 8-11-11.

## I: System Data Collection

Run Time Meter Reading (since last shut down): 423.4 hours

Total Run Time Meter Reading: 8,797.5 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
14:00	Extracted From Well	TI-01	22.0	71.6	DDC-1
14:00	Extracted From Well	TI-02	23.0	73.4	DDC-2
14:01	Pre-Heater Outlet	TI-03	34.0	93.2	Post Shell and Tubing
14:00	Pre-Heater Input	TI-04	25.0	77.0	Before Shell and Tubing
14:00	After Cooler Outlet	TI-05	38.0	100.4	Post Cooler Reading
14:00	After Cooler Input	TI-06	47.0	116.6	Before Cooler Reading
14:01	Blower Outlet	TI-07	61.0	141.8	Going to Pre-heater
14:01	Between GAC Units	TI-08	33.0	91.4	After GAC #1
14:01	GAC Unit Output	TI-09	31.0	87.8	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
13:59	FI-01	Extracted From DDC-1	146
13:59	FI-02	Extracted From DDC-2	225

Comments:

1) Flow meter F0-1 is functioning.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
13:58	Discharge to Well	PI-01	3.0 PSI	DDC-1
13:58	Discharge to Well	PI-02	2.7 PSI	DDC-2
13:58	Drum	PI-03	-47.0 in. H2O	Vacuum Reading Going to Blower

DATE: 8/17/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Partly Cloudy

### TCE Groundwater Treatment System #1

#### GAC Unit Information

##### Influent Port

TIME	PID VOC ppm	Temp Deg. F
14:09	4.6	97.8

Comments: None

##### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
14:14	2.3	92.2

Comments: None

##### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
14:11	1.6	89.7

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

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

#### Inspection of Sumps Associated with DDC Wells


Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	No water detected in this sump.

Liquid Levels in Knock-Out Tanks
Comments: No liquid detected in either knock-out tank.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed during this O&M (8-17-2011) visit with Omega SB-220 oil.

Addition Comments:
<i>A dripping was noted on DDC-1 well head. Visual inspection was limited due to the lack of access in the well vault, but it appeared that the dripping was emanating from the bottom of the well head. When System #1 was off, no water was observed within the bottom of the well vault. Shortly after the system was turned on, water was noted to be accumulating on the bottom of the well vault, along with a constant drip from the well head. In conclusion, water infiltration was a result of recent rainfall and an elevated groundwater table.</i>

## III: System Evaluation

 System is operating satisfactorily  
EA recommends / implements the following....

Keep close watch on FO-1 gauge to ensure proper operation.

## IV: Sampling / Lab Data

N/A

DATE: 8/17/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Partly Cloudy

GWTT EQUIPMENT INFORMATION

**TCE Groundwater Treatment System #2 STATUS: ON OFF** \*The Variable Frequency Drive (VFD) displayed "Mom Power Loss" alarm. The System shut down Sunday 8-14-11 after running 74.4 hours after previous O&M inspection on 8-11-11.

**I: System Data Collection**

Total Run Time Meter Reading: 8,533.8 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
13:19	Carbon Unit Inlet	CA01	32.0	89.6	Carbon Unit #1
13:17	Pre-Heater	PHA01	40.6	105.0	After Shell and Tubing
13:18	Blower Panel	B01	85.0	185.0	Exiting Blower
13:17	After Cooler Outlet	AC01	46.1	115.0	Post Cooler Piping
13:18	Pre-Heater	PHB01	73.9	165.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
13:16	WD01	Injected Air to DDC-3	182
13:16	WD02	Injected Air to DDC-4	126

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
13:16	Knock-Out Tank	T01	-1.4 in. Hg	Vacuum gauge on knock-out tank
13:19	Carbon-Unit #1 Outlet	CA1	-5.1 in. Hg	Vacuum exiting GAC #1
13:16	Discharge to Wells	WD2	3.2 PSI	Pressure reading on piping prior to splicing off to both wells
13:18	Blower Panel	BP01	-2.1 in. Hg	Vacuum coming off of blower
13:19	Carbon Unit #2 Outlet	CA2	-4.6 in. Hg	Vacuum exiting GAC #2
13:30	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
13:34	DDC-4	N/A	0.1 PSI	Pressure gauge on well head

DATE: 8/17/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Partly Cloudy

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
13:47	0.7	90.4

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
13:47	0.5	91.7

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
13:50	0.1	88.1

Comments: None

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling is sufficient in well.
DDC-4	Bubbling is sufficient in well.

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	No water detected in this sump.
DDC-4	1.5 inches of water in this sump

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in Knock-Out Tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed during this O&M visit (8-17-11) with Omega SB-220 oil.

Addition Comments:

**None**

## III: System Evaluation



System is operating satisfactorily



EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A



**PHOTOGRAPHIC LOG**  
**Date: 8-17-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 355	8/17/2011	11:00 AM	While System #1 was off, no water was observed pooling outside the casing of DDC-1.	
Picture 401	8/17/2011	14:10 PM	View of pooled water that accumulated after System #1 was turned on.	

## Photos (08.17.11)



**Picture 355 - While System #1 was off, no water was observed pooling outside the casing of DDC-1.**



**Picture 401 - View of pooled water that accumulated after System #1 was turned on.**

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
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Date: 23-Aug-11  
REPORT No. \_\_\_\_\_  
PAGE No. 1  
PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	9:25 - 10:49	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
9:25 - Preferred on-site. Both systems running.
9:32 - Start O&M on System #2
10:18 - Start O&M on System #1.
10:40 - O&M for both systems complete.
10:49 - Preferred locked both systems and all parties off-site. Both systems running upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table August 23, 2011**

DATE: 8/23/11

DAY: Tuesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 70 Deg. Bright Sun

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

## I: System Data Collection

Run Time Meter Reading (since last shut down): 141.2 hours

Total Run Time Meter Reading: 8,938.8 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:23	Extracted From Well	TI-01	20.0	68.0	DDC-1
10:23	Extracted From Well	TI-02	22.0	71.6	DDC-2
10:24	Pre-Heater Outlet	TI-03	34.0	93.2	Post Shell and Tubing
10:24	Pre-Heater Input	TI-04	24.0	75.2	Before Shell and Tubing
10:23	After Cooler Outlet	TI-05	36.5	97.7	Post Cooler Reading
10:24	After Cooler Input	TI-06	49.0	120.2	Before Cooler Reading
10:24	Blower Outlet	TI-07	64.0	147.2	Going to Pre-heater
10:24	Between GAC Units	TI-08	34.0	93.2	After GAC #1
10:24	GAC Unit Output	TI-09	32.0	89.6	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
10:21	FI-01	Extracted From DDC-1	243
10:21	FI-02	Extracted From DDC-2	225

Comments:

1) Flow meter F0-1 is functioning.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
10:22	Discharge to Well	PI-01	3.1 PSI	DDC-1
10:22	Discharge to Well	PI-02	2.7 PSI	DDC-2
10:23	Drum	PI-03	-47.0 in. H2O	Vacuum Reading Going to Blower

DATE: 8/23/11

DAY: Tuesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 70 Deg. Bright Sun

### TCE Groundwater Treatment System #1

#### GAC Unit Information

##### Influent Port

TIME	PID VOC ppm	Temp Deg. F
10:28	4.9	97.5

Comments: None

##### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
10:34	4.2	94.0

Comments: None

##### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
10:31	2.6	88.5

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

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

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	No water detected in this sump.

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in either knock-out tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

**None**

## III: System Evaluation



System is operating satisfactorily

EA recommends / implements the following....

Flow meter F0-1 needs to be replaced.

## IV: Sampling / Lab Data

N/A

DATE: 8/23/11

DAY: Tuesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 70 Deg. Bright Sun

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS: ON      OFF

**I: System Data Collection**

Total Run Time Meter Reading: 8,675.3 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
9:39	Carbon Unit Inlet	CA01	29.0	84.2	Carbon Unit #1
9:37	Pre-Heater	PHA01	39.4	103.0	After Shell and Tubing
9:38	Blower Panel	B01	85.0	185.0	Exiting Blower
9:37	After Cooler Outlet	AC01	42.2	108.0	Post Cooler Piping
9:38	Pre-Heater	PHB01	70.6	159.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
9:36	WD01	Injected Air to DDC-3	189
9:36	WD02	Injected Air to DDC-4	140

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
9:37	Knock-Out Tank	T01	-0.5 in. Hg	Vacuum gauge on knock-out tank
9:39	Carbon-Unit #1 Outlet	CA1	-4.8 in. Hg	Vacuum exiting GAC #1
9:36	Discharge to Wells	WD2	3.3 PSI	Pressure reading on piping prior to splicing off to both wells
9:38	Blower Panel	BP01	-2.0 in. Hg	Vacuum coming off of blower
9:38	Carbon Unit #2 Outlet	CA2	-4.2 in. Hg	Vacuum exiting GAC #2
10:00	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
10:10	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 8/23/11

DAY: Tuesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 70 Deg. Bright Sun

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
9:49	1.1	81.1

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
9:51	1.0	85.4

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
9:54	0.6	84.7

Comments: None

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling is sufficient in well.
DDC-4	Bubbling is sufficient in well.

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	.5 inches of water in this sump
DDC-4	About 1 foot of water in this sump

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in Knock-Out Tank.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

**None**

## III: System Evaluation

☒ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 8-23-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 268	8/23/2011	10:21 AM	View of FI-01 and FI-02 gauges reading 243 SCFM and 225 SCFM, respectively.	
Picture 367	8/23/2011	10:33 AM	View of a knock-out tank associated with System #1. No water was observed within the site glass.	



## Photos (08.23.11)



**Picture 268 - View of FI-01 and FI-02 gauges reading 243 SCFM and 225 SCFM, respectively.**



**Picture 367 - View of a knock-out tank associated with System #1. No water was observed within the site glass.**

**September 2011**

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
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 Date: 9-Sep-11  
 REPORT No. \_\_\_\_\_  
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	11:25 - 13:55	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
11:25 - Preferred on-site and both systems were off upon arrival.
11:42 - Start O&M on System #2
12:08 - 4.5-inches of water noted within site glass of knock-out tank. No water was observed within site glass on initial startup of System #2.
12:20 - Pressure gauge on DDC-4 well head was reading 1.3 PSI. Turbulent water and high pressure within pipes were also noted.
12:30 - System #2 was shut off due to high groundwater levels from recent precipitation. Elevated water table increased pressure within system and introduced water into the airlines. Spoke to Jim Hayward (EA) - leave system off until GW levels recede.
12:47 - Start O&M on System #1.
12:58 - Pump associated with Knock-out tank No. 1 was observed to be consistently running, and was noted to have a possible leak. The float within the knock-out tank was readjusted, which turned the pump off. The wing nuts on the back of the pump were also tightened to fix the possible leak.
13:20 - A foot of water seen within sump associated with DDC-2. Sump pump may need to be replaced.
13:50 - O&M for both systems are complete.
13:55 - Preferred locked both systems and all parties off-site. System #1 was on upon departure, while System #2 was left off.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative: Thomas Fitzpatrick (Preferred) Project Manager: James Hayward Page 1 of 7

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table September 09, 2011**

DATE: 9/9/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Bright Sun

**TCE Groundwater Treatment System #1 STATUS: ON OFF** \* All alarms were triggered upon arrival. The control panel was reset and system was then restarted.

## I: System Data Collection

Run Time Meter Reading (since last shut down): 15.5 hours

Total Run Time Meter Reading: 9,065.3 hours - System only ran for 15.70 hours

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
12:50	Extracted From Well	TI-01	17.0	62.6	DDC-1
12:50	Extracted From Well	TI-02	22.0	71.6	DDC-2
12:51	Pre-Heater Outlet	TI-03	34.5	94.1	Post Shell and Tubing
12:51	Pre-Heater Input	TI-04	24.0	75.2	Before Shell and Tubing
12:50	After Cooler Outlet	TI-05	41.0	105.8	Post Cooler Reading
12:51	After Cooler Input	TI-06	53.0	127.4	Before Cooler Reading
12:51	Blower Outlet	TI-07	67.0	152.6	Going to Pre-heater
12:52	Between GAC Units	TI-08	33.0	91.4	After GAC #1
12:52	GAC Unit Output	TI-09	32.0	89.6	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
12:48	FI-01	Extracted From DDC-1	225
12:48	FI-02	Extracted From DDC-2	225

Comments:

1) Flow meter F0-1 is functioning.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
12:49	Discharge to Well	PI-01	3.8 PSI	DDC-1
12:49	Discharge to Well	PI-02	3.4 PSI	DDC-2
12:50	Drum	PI-03	-50.0 in. H2O	Vacuum Reading Going to Blower

DATE: 9/9/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Bright Sun

### TCE Groundwater Treatment System #1

#### GAC Unit Information

##### Influent Port

TIME	PID VOC ppm	Temp Deg. F
12:56	4.7	96.4

Comments: None

##### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
13:02	3.1	92.8

Comments: None

##### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
12:59	1.7	91.7

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

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

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Over a foot of water was detected within this sump.

#### Liquid Levels in Knock-Out Tanks

Comments: .5 inches was detected in Knock-Out Tank No 2. No water was detected in Knock-Out Tank No. 1.

#### Oil Level on Blower


Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

#### Addition Comments:

*Pump associated with Knock-out tank No. 1 was observed to be consistently running, and was noted to have a possible leak. The float within the knock-out tank was readjusted, which turned the pump off. The wing nuts on the back of the pump were also tightened to fix the possible leak.*

*A foot of water present within sump associated with DDC-2. Sump pump may need to be replaced.*

## III: System Evaluation

 System is operating satisfactorily  
EA recommends / implements the following....

*May need to replace DDC-2 sump pump.*

## IV: Sampling / Lab Data

N/A

DATE: 9/9/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Bright Sun

GWTT EQUIPMENT INFORMATION

**TCE Groundwater Treatment System #2 STATUS: ON OFF** High level K.O. tank alarm. Upon inspection, no water was observed in K.O. tank site glass. Alarm was reset and system restarted.

**I: System Data Collection**

Total Run Time Meter Reading: 8,789.0 hours - System only ran for 0.9 hours since 8-30-11  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:47	Carbon Unit Inlet	CA01	25.0	77.0	Carbon Unit #1
11:46	Pre-Heater	PHA01	27.8	82.0	After Shell and Tubing
11:47	Blower Panel	B01	85.0	170.0	Exiting Blower
11:46	After Cooler Outlet	AC01	36.1	97.0	Post Cooler Piping
11:46	Pre-Heater	PHB01	56.7	134.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
11:45	WD01	Injected Air to DDC-3	189
11:45	WD02	Injected Air to DDC-4	126

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
11:45	Knock-Out Tank	T01	-0.5 in. Hg	Vacuum gauge on knock-out tank
11:47	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
11:45	Discharge to Wells	WD2	3.8 PSI	Pressure reading on piping prior to splicing off to both wells
11:47	Blower Panel	BP01	-1.6 in. Hg	Vacuum coming off of blower
11:47	Carbon Unit #2 Outlet	CA2	-4.5 in. Hg	Vacuum exiting GAC #2
12:27	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
12:20	DDC-4	N/A	1.3 PSI	Pressure gauge on well head

DATE: 9/9/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 80 Deg. Bright Sun

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
11:59	0.7	81.4

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
12:04	0.9	83.6

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
12:11	0.3	85.8

Comments: None

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Bubbling is sufficient in well.
DDC-4	Bubbling is sufficient in well.

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	.5 inches of water in this sump
DDC-4	Over 1 foot of water in this sump

#### Liquid Levels in Knock-Out Tanks

Comments: No liquid detected in Knock-Out Tank upon initial startup of system. At 12:00 PM, the site glass was gauged again and 4.5-inches of water was detected.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*Pressure gauge on DDC-4 well head was reading 1.3 PSI. Turbulent water and high pressure was observed within air return line. System #2 was shut down due to elevated groundwater table, which increased system pressure and introduced water into air lines.*

## III: System Evaluation



System is operating satisfactorily



EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A
-----

**PHOTOGRAPHIC LOG**  
**Date: 9-09-11**  
**EA Job No.**  
**National Heatset Printing Site**

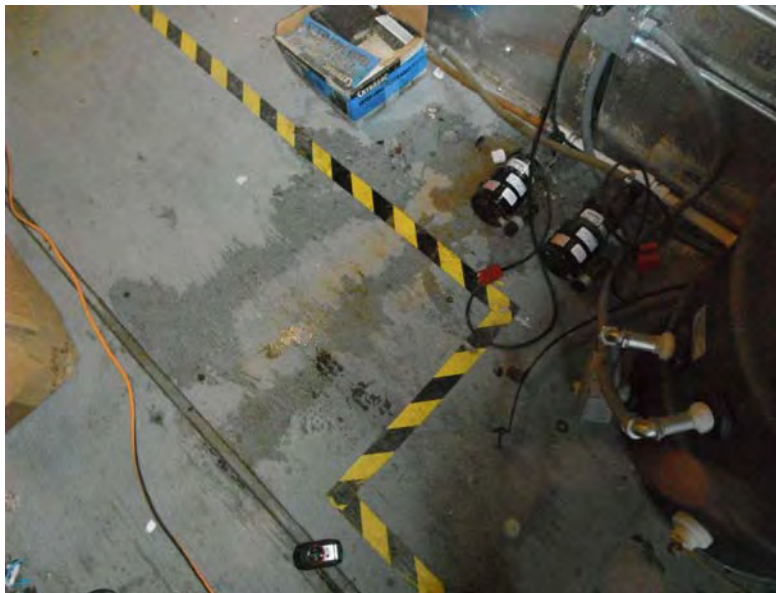
PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 401	9/9/2011	12:20 PM	View of the pressure gauge attached to DDC-4. The pressure went down to 0.4 PSI after the system was turned off, due to a previous pressure reading of 1.3 PSI, when the system was on.	
Picture 414	9/9/2011	12:58 PM	View of the pumps associated with the Knock-Out tanks in System #2. The pump connected to Knock-Out No. 1 was observed to be leaking.	



## Photos (09.9.11)



**Picture 401** - View of the pressure gauge attached to DDC-4. The pressure went down to 0.4 PSI after the system was turned off, due to a previous pressure reading of 1.3 PSI, when the system was on.



**Picture 414** - View of the pumps associated with the Knock-Out tanks in System #2. The pump connected to Knock-Out No. 1 was observed to be leaking.

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: 20-Sep-11  
REPORT No. \_\_\_\_\_  
PAGE No. 1  
PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	11:00 - 14:10	Preferred

**VISITORS**

Name	Time (From - To)	Representing	Remarks
Walter Howard	to 12:55	AECOM	None
Two (2) engineers	to 12:55	AECOM	None

**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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
11:00 - Preferred on-site to meet up with AECOM to discuss system operations. Both systems were off upon arrival.
11:30 - System #2 was restarted.
12:49 - Start of O&M on System #2.
12:55 - AECOM off-site.
13:22 - Start of O&M on System #1.
13:40 - A foot of water observed within DDC-2 sump. The sump pump may need to be replaced.
13:45 - Water was removed from DDC-2 sump via a whale pump. It took approximately 5 minutes for sump and lines to clear of water.
14:05 - O&M for both systems are complete.
14:10 - Preferred locked both systems and all parties off-site. Both systems were running upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative: Thomas Fitzpatrick (Preferred) Project Manager: James Hayward Page 1 of 7

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table September 20, 2011**

DATE: 9/20/11

DAY: Tuesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 65 Deg. Rain

**TCE Groundwater Treatment System #1 STATUS: ON OFF** \* "Alarm High Water K.O. Drum" alarm triggered.

## I: System Data Collection

Run Time Meter Reading (since last shut down): 1.1 hours

Total Run Time Meter Reading: 9,120.4 hours System only ran for 55.1 hours since 9-9-11

System Running at 35.7 Hz. \* The output frequency was lowered due to higher pressures from water build-up within lines and sump.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
13:28	Extracted From Well	TI-01	17.0	62.6	DDC-1
13:28	Extracted From Well	TI-02	17.0	62.6	DDC-2
13:29	Pre-Heater Outlet	TI-03	29.0	84.2	Post Shell and Tubing
13:29	Pre-Heater Input	TI-04	19.0	66.2	Before Shell and Tubing
13:29	After Cooler Outlet	TI-05	38.0	100.4	Post Cooler Reading
13:29	After Cooler Input	TI-06	42.0	107.6	Before Cooler Reading
13:29	Blower Outlet	TI-07	59.0	138.2	Going to Pre-heater
13:29	Between GAC Units	TI-08	30.0	86.0	After GAC #1
13:29	GAC Unit Output	TI-09	27.0	80.6	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
13:29	FI-01	Extracted From DDC-1	---
13:29	FI-02	Extracted From DDC-2	180-252

Comments:

1) Flow meter F0-1 not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
13:27	Discharge to Well	PI-01	3.6 PSI	DDC-1
13:27	Discharge to Well	PI-02	3.2 PSI	DDC-2
13:27	Drum	PI-03	-38.0 in. H2O	Vacuum Reading Going to Blower

DATE: 9/20/11

DAY: Tuesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 65 Deg. Rain

### TCE Groundwater Treatment System #1

#### GAC Unit Information

##### Influent Port

TIME	PID VOC ppm	Temp Deg. F
13:34	7.3	87.4

Comments: None

##### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
13:36	4.1	84.0

Comments: None

##### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
13:32	2.6	77.9

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

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

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Over a foot of water was detected within sump. Water was removed via a whale pump.

#### Liquid Levels in Knock-Out Tanks

Comments: 1.5 inches was detected in Knock-Out Tank No 2. No water was detected in Knock-Out Tank No. 1.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*The pump associated with Knock-Out Tank #1 was noted to be leaking despite tightening wing nuts from the O&M performed on 9-9-11. Pump may need to be replaced.*

## III: System Evaluation



System is operating satisfactorily

EA recommends / implements the following....

*Knock-Out Tank #1 pump may need to be replaced*

## IV: Sampling / Lab Data

N/A

DATE: 9/20/11

DAY: Tuesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 65 Deg. Rain

GWTT EQUIPMENT INFORMATION

**TCE Groundwater Treatment System #2      STATUS:   ON      OFF   High level K.O. tank alarm triggered upon arrival. Upon inspection, no water was seen through site glass attached to same. System was reset then restarted.**

**I: System Data Collection**

Total Run Time Meter Reading: 8,791.1 hours - System was restarted upon arrival after left to come back to equilibrium over past two weeks  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
12:55	Carbon Unit Inlet	CA01	18.0	64.4	Carbon Unit #1
12:51	Pre-Heater	PHA01	35.6	96.0	After Shell and Tubing
12:52	Blower Panel	B01	85.0	180.0	Exiting Blower
12:51	After Cooler Outlet	AC01	40.6	105.0	Post Cooler Piping
12:52	Pre-Heater	PHB01	69.4	157.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
12:50	WD01	Injected Air to DDC-3	189
12:50	WD02	Injected Air to DDC-4	125

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
12:51	Knock-Out Tank	T01	-0.5 in. Hg	Vacuum gauge on knock-out tank
12:55	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
12:56	Discharge to Wells	WD2	3.6 PSI	Pressure reading on piping prior to splicing off to both wells
12:52	Blower Panel	BP01	-1.3 in. Hg	Vacuum coming off of blower
12:52	Carbon Unit #2 Outlet	CA2	-4.4 in. Hg	Vacuum exiting GAC #2
13:06	DDC-3	N/A	0.5 PSI	Pressure gauge on well head
13:00	DDC-4	N/A	0.6 PSI	Pressure gauge on well head

DATE: 9/20/11DAY: TuesdayTECHNICIAN: Thomas FitzpatrickWeather: 65 Deg. Rain**TCE Groundwater Treatment System #2****GAC Unit Information****Influent Port GAC#1**

TIME	PID VOC ppm	Temp Deg. F
12:58	1.6	79.1

Comments: None

**Influent Port GAC#2**

TIME	PID VOC ppm	Temp Deg. F
13:01	1.6	79.3

Comments: None

**Effluent**

TIME	PID VOC ppm	Temp Deg. F
13:04	0.5	82.9

Comments: None

**II: System Maintenance and Observations****Inspection of Water Column in DDC Wells**

Well#	Comments
DDC-3	Bubbling is sufficient in well.
DDC-4	Bubbling is sufficient in well.

**Inspection of Sumps Associated with DDC Wells**

Well#	Comments
DDC-3	.5 inches of water in this sump
DDC-4	Over 1 foot of water in this sump

**Liquid Levels in Knock-Out Tanks**

Comments: No liquid detected in Knock-Out Tank upon initial startup of system. Five inches of water was detected after system was turned on.

**Oil Level on Blower**

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

**None****III: System Evaluation**

System is operating satisfactorily



EA recommends / implements the following....

--

**IV: Sampling / Lab Data**

N/A

**PHOTOGRAPHIC LOG**  
**Date: 9-20-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 390	9/20/2011	12:56 PM	Five inches of water was noted in the site glass of the knock-out tank in System #2.	
Picture 398	9/20/2011	13:30 PM	One and a half inches of water was detected within the site glass of Knock-Out Tank #2 in System #1.	

## Photos (09.20.11)



**Picture 390** - Five inches of water was noted in the site glass of the knock-out tank in System #2.



**Picture 398** - One and a half inches of water was detected within the site glass of Knock-Out Tank #2 in System #1.



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
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Date: 30-Sep-11  
REPORT No.                       
PAGE No. 1  
PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	11:14 - 13:24	Preferred

**VISITORS**

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

**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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
11:14 - Preferred on-site and both systems were off upon arrival.
11:18 - Restart of System #2.
11:21 - Restart of System #1.
11:45 - Start discharging water from DDC-2 sump via a whale pump. The sump had a consistent flow of water going to it making it impossible to empty.
12:10 - Meters were gauged within System #2.
12:22 - System #1 was manually shut down due to a high pitch noise apparently emanating from the lines within system shed, as well as the consistent flow of water to the sump.
12:34 - Start of O&M on System #1.
13:20 - O&M for both systems are complete.
13:24 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative: Thomas Fitzpatrick (Preferred)                      Project Manager: James Hayward                      **Page 1 of 7**

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table September 30, 2011**

DATE: 9/30/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 75 Deg. Bright Sun

**TCE Groundwater Treatment System #1 STATUS: ON OFF** \* "Alarm High Water K.O. Drum" alarm triggered. No water was observed in either knock-out tank upon arrival.

## I: System Data Collection

Run Time Meter Reading (since last shut down): 6.1 hours

Total Run Time Meter Reading: 9,126.4 hours - System Shut down after 61.10 hours - System left off due to high pitch noise emanating from system, System Running at 35.7 Hz. \* The output frequency was lowered due to higher pressures from water build-up within lines and sump.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
12:17	Extracted From Well	TI-01	22.0	71.6	DDC-1
12:13	Extracted From Well	TI-02	17.0	62.6	DDC-2
12:16	Pre-Heater Outlet	TI-03	31.0	87.8	Post Shell and Tubing
12:14	Pre-Heater Input	TI-04	20.0	68.0	Before Shell and Tubing
12:14	After Cooler Outlet	TI-05	40.0	104.0	Post Cooler Reading
12:14	After Cooler Input	TI-06	50.0	122.0	Before Cooler Reading
12:15	Blower Outlet	TI-07	64.0	147.2	Going to Pre-heater
12:15	Between GAC Units	TI-08	31.0	87.8	After GAC #1
12:15	GAC Unit Output	TI-09	27.0	80.6	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
12:11	FI-01	Extracted From DDC-1	---
12:11	FI-02	Extracted From DDC-2	354

Comments:

1) Flow meter FI-01 not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
12:11	Discharge to Well	PI-01	4.2 PSI	DDC-1
12:11	Discharge to Well	PI-02	3.2 PSI	DDC-2
12:13	Drum	PI-03	-42.0 in. H2O	Vacuum Reading Going to Blower

DATE: 9/30/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 75 Deg. Bright Sun

## TCE Groundwater Treatment System #1 - System shut down due to high pitch noise emanating from system

GAC Unit Information

### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: System was shut off prior to gauging sampling ports to minimize time system was on.

### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: System was shut off prior to gauging sampling ports to minimize time system was on.

### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: System was shut off prior to gauging sampling ports to minimize time system was on.

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Could hear injected air going into well but no bubbling was noted. Floor in manhole was observed to be dry.
DDC-2	Bubbling in well is sufficient.

### Inspection of Sumps Associated with DDC Wells


Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Over a foot of water was detected within sump.

Liquid Levels in Knock-Out Tanks
Comments: No water was detected within knock-out tank. Floor beneath pump for KO is wet.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:
<i>A foot of water seen within DDC-2 sump. The sump pump may need to be replaced. Water was discharged from the sump via a whale pump. The sump had a consistent flow of water going to it making it impossible to empty.</i>

## III: System Evaluation

 System is operating satisfactorily  
EA recommends / implements the following....

*DDC-2 sump pump may need to be replaced*

## IV: Sampling / Lab Data

N/A
-----

DATE: 9/30/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 75 Deg. Bright Sun

GWTT EQUIPMENT INFORMATION

**TCE Groundwater Treatment System #2 STATUS: ON OFF High level K.O. tank alarm triggered upon arrival. Upon inspection, no water was seen through site glass attached to same. System was reset then restarted.**

**I: System Data Collection**

Total Run Time Meter Reading: 8,871.2 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
12:37	Carbon Unit Inlet	CA01	29.0	84.2	Carbon Unit #1
12:36	Pre-Heater	PHA01	37.8	100.0	After Shell and Tubing
12:36	Blower Panel	B01	85.0	180.0	Exiting Blower
12:36	After Cooler Outlet	AC01	44.4	112.0	Post Cooler Piping
12:36	Pre-Heater	PHB01	71.1	160.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
12:35	WD01	Injected Air to DDC-3	189
12:35	WD02	Injected Air to DDC-4	112

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
12:35	Knock-Out Tank	T01	-1.0 in. Hg	Vacuum gauge on knock-out tank
12:31	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
12:31	Discharge to Wells	WD2	3.5 PSI	Pressure reading on piping prior to splicing off to both wells
12:37	Blower Panel	BP01	-1.7 in. Hg	Vacuum coming off of blower
12:37	Carbon Unit #2 Outlet	CA2	-4.5 in. Hg	Vacuum exiting GAC #2
12:48	DDC-3	N/A	0.9 PSI	Pressure gauge on well head
12:51	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 9/30/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 75 Deg. Bright Sun

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
12:39	0.0	83.6

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
12:41	0.0	84.5

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
12:44	0.0	83.6

Comments: None

## II: System Maintenance and Observations

### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-3	Low bubbling was noted.
DDC-4	Significantly more bubbling was noted within DDC-4 than DDC-3.

### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-3	.5 inches of water in this sump
DDC-4	Over 1 foot of water in this sump

#### Addition Comments:

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contained water.*

*Treatment System #2 Knock-Out Tank pump not discharging water. Pump is receiving power and operating, but will not discharge water. Pump may need to be replaced.*

#### Liquid Levels in Knock-Out Tanks

Comments: 4.5 inches of water in site glass for KO Drum.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation



System is operating satisfactorily

EA recommends / implements the following....

*Knock-Out Tank pump may need to be replaced.*

## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 9-30-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 387	9/30/2011	11:18 AM	The "High Level K.O. Tank" alarm was noted to be triggered upon arrival.	
Picture 410	9/30/2011	11:45 AM	Over a foot of water was noted within the sump associated with DDC-2.	

## Photos (09.30.11)



**Picture 387** - The "High Level K.O. Tank" alarm was noted to be triggered upon arrival.



**Picture 410** - Over a foot of water was noted within the sump associated with DDC-2.

**October 2011**



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: 7-Oct-11  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	10:27 - 12:25	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
Leo Orellana	10:45 - 11:15	Finkelstein Realty	Landlord

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
10:27 - Preferred on-site. System #2 was operating upon arrival. System #1 off since 30 September 2011.
10:30 - Start of O&M on System #2.
10:45 - Finkelstein Realty (Leo Orellana) on-site to confirm the electrical service meter that was turned off by LIPA.
11:00 - Electrical service meter #99791288 was confirmed to be stationed 15 feet away from the System #1 shed.
11:15 - Finkelstein Realty off-site.
11:40 - Water from within the sump associated with DDC-4 was pumped out in an effort to reduce the amount of water within the pipes.
12:00 - System #1 was "Bumped" to remove any moisture that may have been in the blower.
12:20 - O&M for both systems are complete.
12:25 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table October 07, 2011**

DATE: 10/07/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 70 Deg. Bright Sun

**TCE Groundwater Treatment System #1**

**STATUS: ON**

**OFF**

\* System shutdown since 30 September due to high pitched noise emanating from blower.

## I: System Data Collection

Total Run Time Meter Reading: 9126.4 hours - System Shut down after 61.10 hours - System left off due to high pitch noise emanating from system, System Running at N/A Hz. \* The output frequency was lowered due to higher pressures from water build-up within lines and sump.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter F0-1 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 10/07/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 70 Deg. Bright Sun

### TCE Groundwater Treatment System #1 - System shut down due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	None
DDC-2	None

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	None

#### Liquid Levels in Knock-Out Tanks

Comments: None


#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*The system was "Bumped" in an effort to remove moisture that may have been present from within the blower.*

## III: System Evaluation

 System is operating satisfactorily  
EA recommends / implements the following....

Coordinate with subcontractor to troubleshoot system.

## IV: Sampling / Lab Data

N/A

DATE: 10/07/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 70 Deg. Bright Sun

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS: ON      OFF

**I: System Data Collection**

Total Run Time Meter Reading: 9,038.5 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:36	Carbon Unit Inlet	CA01	26.0	78.8	Carbon Unit #1
10:35	Pre-Heater	PHA01	35.0	95.0	After Shell and Tubing
10:35	Blower Panel	B01	79.4	175.0	Exiting Blower
10:39	After Cooler Outlet	AC01	38.9	102.0	Post Cooler Piping
10:35	Pre-Heater	PHB01	68.3	155.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
10:33	WD01	Injected Air to DDC-3	196
10:33	WD02	Injected Air to DDC-4	119

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
10:34	Knock-Out Tank	T01	-0.0 in. Hg	Vacuum gauge on knock-out tank
10:36	Carbon-Unit #1 Outlet	CA1	-4.9 in. Hg	Vacuum exiting GAC #1
10:34	Discharge to Wells	WD2	3.6 PSI	Pressure reading on piping prior to splicing off to both wells
10:35	Blower Panel	BP01	-1.5 in. Hg	Vacuum coming off of blower
10:36	Carbon Unit #2 Outlet	CA2	-4.4 in. Hg	Vacuum exiting GAC #2
11:35	DDC-3	N/A	0.5 PSI	Pressure gauge on well head
11:31	DDC-4	N/A	0.6 PSI	Pressure gauge on well head

DATE: 10/07/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 70 Deg. Bright Sun

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
11:19	1.2	71.2

Comments:

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
11:22	1.3	77.3

Comments:

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
11:26	0.7	76.6

Comments:

## 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	.5 inches of water in this sump
DDC-4	Over 1 foot of water in this sump

Addition Comments:

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contain water.*

### Liquid Levels in Knock-Out Tanks

Comments: No water was detected within the K.O. tank.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation



System is operating satisfactorily



EA recommends / implements the following....

Collect air samples from carbon vessels.

## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 10-07-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 391	10/7/2011	10:30 AM	No water was noted within K.O. tank associated with System #2 upon arrival.	
Picture 393	10/7/2011	11:00 AM	Electrical service meter number- 99791288, was confirmed to be 15 feet away from System #1 shed.	

## Photos (10.07.11)



**Picture 391** - No water was noted within K.O. tank associated with System #2 upon arrival.



**Picture 393** - Electrical service meter number- 99791288, was confirmed to be 15 feet away from System #1 shed.

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
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 Date: 14-Oct-11  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	11:37 - 12:40	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
11:37 - Preferred on-site. Systems #2 operating upon arrival. System #1 off since 30 September 2011.
11:40 - Start of O&M on System #2.
12:25 - Water within DDC-4 sump was pumped out via whale pump.
12:35 - O&M for both systems are complete.
12:40 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7



# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table October 14, 2011**

DATE: 10/14/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 70 Deg. Overcast

**TCE Groundwater Treatment System #1 STATUS: ON OFF** \* System shutdown since 30 September 2011 due to a high pitched noise emanating from blower.

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours - System Shut down after 61.10 hours - System left off due to high pitch noise emanating from system,  
System Running at N/A Hz. \* The output frequency was lowered due to higher pressures from water build-up within lines and sump.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter F0-1 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 10/14/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 70 Deg. Overcast

### TCE Groundwater Treatment System #1 - System shut down due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

Liquid Levels in Knock-Out Tanks
Comments: None

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:	<b>System was left off on 9-30-11 due to a high pitched noise emanating from the lines from within system shed.</b>
--------------------	---

## III: System Evaluation

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

--

## IV: Sampling / Lab Data

N/A
-----

DATE: 10/14/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 70 Deg. Overcast

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS: ON      OFF

**I: System Data Collection**

Total Run Time Meter Reading: 9,207.7 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:46	Carbon Unit Inlet	CA01	30.0	86.0	Carbon Unit #1
11:45	Pre-Heater	PHA01	37.8	100.0	After Shell and Tubing
11:45	Blower Panel	B01	85.0	185.0	Exiting Blower
11:44	After Cooler Outlet	AC01	42.8	109.0	Post Cooler Piping
11:45	Pre-Heater	PHB01	71.1	160.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
11:43	WD01	Injected Air to DDC-3	189
11:43	WD02	Injected Air to DDC-4	128

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
11:44	Knock-Out Tank	T01	-0.5 in. Hg	Vacuum gauge on knock-out tank
11:46	Carbon-Unit #1 Outlet	CA1	-4.9 in. Hg	Vacuum exiting GAC #1
11:45	Discharge to Wells	WD2	3.8 PSI	Pressure reading on piping prior to splicing off to both wells
11:45	Blower Panel	BP01	-2.0 in. Hg	Vacuum coming off of blower
11:45	Carbon Unit #2 Outlet	CA2	-4.4 in. Hg	Vacuum exiting GAC #2
12:10	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
12:17	DDC-4	N/A	0.3 PSI	Pressure gauge on well head

DATE: 10/14/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 70 Deg. Overcast

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
11:48	0.0	80.4

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
11:55	0.0	80.7

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
12:00	0.0	81.6

Comments: None

## 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	.5 inches of water in this sump
DDC-4	Over 1 foot of water in this sump

Addition Comments:

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contain water.*

### Liquid Levels in Knock-Out Tanks

Comments: No water was detected within the K.O. tank.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation



System is operating satisfactorily



EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 10-14-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 386	10/14/2011	11:40 AM	View of control panel associated with System #2.	
Picture 393	10/14/2011	12:25 PM	The sump associated with DDC-4 was noted to have over a foot of water.	

## Photos (10.14.11)



**Picture 386** - View of control panel associated with System #2.



**Picture 393** - The sump associated with DDC-4 was noted to posses over a foot of water from within.

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: 19-Oct-11  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	11:37 - 12:40	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
LIPA	9:30:00 AM - 10:30:00 am	LIPA	N/A

### 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: Thomas Fitzpatrick - Preferred
<b>DESCRIPTION OF WORK PERFORMED AND OBSERVED</b>
9:00 - Preferred on-site. Both systems off upon arrival. System #1 has been off since 30 September 2011, while System #2 had a "Mom Power Loss" alert.
9:10 - Water from DDC-4 sump was pumped out via whale pump.
9:15 - Restart of System #2.
9:20 - It was noted that there was no power within the System #1 shed.
9:30 - LIPA on site. Confirmed that power were running to the electrical service meters. Control Panel next to electrical service meter # 99791288 was observed to be locked by LIPA and breaker turned off.
10:30 - LIPA off-site.
11:09 - Start of O&M on System #2.
11:40 - O&M completed
12:00 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

x
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 - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table October 19, 2011**

DATE: 10/19/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 65 Deg. Rain

**TCE Groundwater Treatment System #1**      **STATUS:   ON      OFF** \* System shutdown since 30 September 2011 due to a high pitched noise emanating from blower.

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours - System Shut down after 61.10 hours - System left off due to high pitch noise emanating from system, System Running at N/A Hz. \* The output frequency was lowered due to higher pressures from water build-up within lines and sump.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter F0-1 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower



DATE: 10/19/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 65 Deg. Rain

### TCE Groundwater Treatment System #1 - System shut down due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

#### Liquid Levels in Knock-Out Tanks

Comments: N/A

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

**System was left off on 9-30-11 due to a high pitched noise emanating from the lines from within system shed.**

**No power at System #1.**

## III: System Evaluation



System is operating satisfactorily

EA recommends / implements the following....

Clarify electrical issue with LIPA and troubleshoot System #1.

## IV: Sampling / Lab Data

N/A

DATE: 10/19/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 65 Deg. Rain

GWTT EQUIPMENT INFORMATION

**TCE Groundwater Treatment System #2**      **STATUS: ON**      **OFF - \* A "Mom Power Loss" alarm was displayed on the VFD upon arrival. The system was reset then restarted.**

**I: System Data Collection**

Total Run Time Meter Reading: 9,276.5 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:02	Carbon Unit Inlet	CA01	25.0	77.0	Carbon Unit #1
11:05	Pre-Heater	PHA01	35.0	95.0	After Shell and Tubing
11:06	Blower Panel	B01	79.4	175.0	Exiting Blower
11:05	After Cooler Outlet	AC01	37.8	100.0	Post Cooler Piping
11:06	Pre-Heater	PHB01	66.7	152.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
11:04	WD01	Injected Air to DDC-3	189
11:04	WD02	Injected Air to DDC-4	112

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
11:05	Knock-Out Tank	T01	-0.5 in. Hg	Vacuum gauge on knock-out tank
11:07	Carbon-Unit #1 Outlet	CA1	-4.9 in. Hg	Vacuum exiting GAC #1
11:05	Discharge to Wells	WD2	3.3 PSI	Pressure reading on piping prior to splicing off to both wells
11:06	Blower Panel	BP01	-1.3 in. Hg	Vacuum coming off of blower
11:06	Carbon Unit #2 Outlet	CA2	-4.4 in. Hg	Vacuum exiting GAC #2
11:23	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
11:25	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 10/19/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 65 Deg. Rain

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
11:11	0.0	72.3

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
11:15	0.0	76.0

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
11:18	0.0	77.3

Comments: None

## 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	.5 inches of water in this sump
DDC-4	Over 1 foot of water in this sump

Addition Comments:

*Water was noted to be over a foot in DDC-4 sump.  
Water was discharged from sump via whale pump.*

### Liquid Levels in Knock-Out Tanks

Comments: No water was detected within the K.O. tank.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation



System is operating satisfactorily



EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 10-19-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 387	10/19/2011	9:05 AM	View of the variable frequency drive (VFD) for System #2, with the alarm of, "Mom Power Loss".	
Picture 442	10/19/2011	9:30 AM	An electrical conduit emanating from the electrical service meter #99791288 to the System #1 shed.	

## Photos (10.19.11)



**Picture 387 - View of the variable frequency drive (VFD) for System #2, with the alarm of, "Mom Power Loss".**



**Picture 442 - An electrical conduit emanating from the electrical service meter #99791288 to the System #1 shed.**

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: 28-Oct-11  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	10:20 - 11:25	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
10:20 - Preferred on-site. System #2 operating upon arrival. System #1 off since 30 September 2011.
10:24 - Start of O&M on System #2.
11:10 - Water from DDC-4 sump pumped out.
11:20 - O&M completed.
11:25 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table October 28, 2011**

DATE: 10/28/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 55 Deg. Bright Sun

**TCE Groundwater Treatment System #1 STATUS: ON OFF** \* System shutdown since 30 September 2011 due to a high pitched noise emanating from blower.

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours - System Shut down after 61.10 hours - System left off due to high pitch noise emanating from system, System Running at N/A Hz. \* The output frequency was lowered due to higher pressures from water build-up within lines and sump.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter F0-1 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 10/28/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 55 Deg. Bright Sun

### TCE Groundwater Treatment System #1 - System shut down due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

#### Liquid Levels in Knock-Out Tanks

Comments: N/A

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*None*

## III: System Evaluation

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A



DATE: 10/28/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 55 Deg. Bright Sun

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS: ON      OFF

**I: System Data Collection**

Total Run Time Meter Reading: 9,491.8 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:31	Carbon Unit Inlet	CA01	21.0	69.8	Carbon Unit #1
10:30	Pre-Heater	PHA01	31.7	89.0	After Shell and Tubing
10:30	Blower Panel	B01	46.1	115.0	Exiting Blower
10:28	After Cooler Outlet	AC01	31.7	89.0	Post Cooler Piping
10:30	Pre-Heater	PHB01	62.8	145.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
10:28	WD01	Injected Air to DDC-3	196
10:28	WD02	Injected Air to DDC-4	112

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
10:29	Knock-Out Tank	T01	-0.75 in. Hg	Vacuum gauge on knock-out tank
10:31	Carbon-Unit #1 Outlet	CA1	-5.1 in. Hg	Vacuum exiting GAC #1
10:29	Discharge to Wells	WD2	3.4 PSI	Pressure reading on piping prior to splicing off to both wells
10:31	Blower Panel	BP01	-1.0 in. Hg	Vacuum coming off of blower
10:31	Carbon Unit #2 Outlet	CA2	-4.5 in. Hg	Vacuum exiting GAC #2
10:50	DDC-3	N/A	0.6 PSI	Pressure gauge on well head
10:55	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 10/28/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 55 Deg. Bright Sun

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
10:38	1.3	72.4

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
10:42	1.1	70.1

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
10:46	0.5	70.1

Comments: None

## 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	No water detected in this sump
DDC-4	Over 1 foot of water in this sump

Addition Comments:

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contain water.*

### Liquid Levels in Knock-Out Tanks

Comments: No water was detected within the K.O. tank.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation



System is operating satisfactorily



EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 10-28-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 387	10/28/2011	10:24 AM	View of System #2 control panel, showing no alarms triggered upon arrival.	
Picture 397	10/28/2011	10:42 AM	Sample ports were screened utilizing a vacuum pump, drawing air from the pipes to a tedlar bag.	

## Photos (10.28.11)



**Picture 387** - View of System #2 control panel, showing no alarms triggered upon arrival.



**Picture 397** - Sample ports were screened utilizing a vacuum pump, drawing air from the pipes to a tedlar bag.

**November 2011**

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: 4-Nov-11  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	12:47 - 13:56	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
12:47 - Preferred on-site. System #2 operating upon arrival. System #1 off since 30 September 2011.
13:04 - Start of O&M on System #2.
13:32 - Water from DDC-4 sump was pumped out in an effort to reduce the amount of water within return pipes.
13:45 - System #1 shed site glasses were checked and no water was noted within same.
13:52 - O&M completed.
13:56 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

x
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 - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table November 4, 2011**

DATE: 11/4/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 55 Deg. Bright Sun

**TCE Groundwater Treatment System #1 STATUS: ON OFF** \* System shutdown since 30 September 2011 due to a high pitched noise emanating from blower.

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours

System Running at N/A Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter F0-1 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 11/4/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 55 Deg. Bright Sun

### TCE Groundwater Treatment System #1 - System shut down 9-30-11 due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

#### Liquid Levels in Knock-Out Tanks

Comments: N/A

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

## III: System Evaluation

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A



DATE: 11/4/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 55 Deg. Bright Sun

GWTT EQUIPMENT INFORMATION

**TCE Groundwater Treatment System #2**      **STATUS:    ON      OFF \* "High Level K.O. Tank" Alarm was triggered.**

**I: System Data Collection**

Total Run Time Meter Reading: 9,559.7 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
13:08	Carbon Unit Inlet	CA01	13.0	55.4	Carbon Unit #1
13:06	Pre-Heater	PHA01	21.1	70.0	After Shell and Tubing
13:07	Blower Panel	B01	54.4	130.0	Exiting Blower
13:08	After Cooler Outlet	AC01	23.9	75.0	Post Cooler Piping
13:07	Pre-Heater	PHB01	46.1	115.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
13:05	WD01	Injected Air to DDC-3	196
13:05	WD02	Injected Air to DDC-4	119

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
13:05	Knock-Out Tank	T01	-1.0 in. Hg	Vacuum gauge on knock-out tank
13:08	Carbon-Unit #1 Outlet	CA1	-5.1 in. Hg	Vacuum exiting GAC #1
13:05	Discharge to Wells	WD2	3.4 PSI	Pressure reading on piping prior to splicing off to both wells
13:07	Blower Panel	BP01	-0.5 in. Hg	Vacuum coming off of blower
13:07	Carbon Unit #2 Outlet	CA2	-4.5 in. Hg	Vacuum exiting GAC #2
13:20	DDC-3	N/A	0.5 PSI	Pressure gauge on well head
13:25	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 11/4/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 55 Deg. Bright Sun

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
13:10	2.0	64.0

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
13:13	1.6	67.0

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
13:16	0.5	58.9

Comments: None

## 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	1-inch of water detected in this sump
DDC-4	Over 1 foot of water in this sump

Addition Comments:

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contained water.*

### Liquid Levels in Knock-Out Tanks

Comments: No water was detected within the K.O. tank.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation



System is operating satisfactorily



EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 11-4-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 415	11/4/2011	12:47 PM	View of System #2 control panel, showing, "High Level K.O." alarm triggered.	
Picture 421	11/4/2011	13:20 PM	The sump associated with DDC-3 was observed to have 1-inch of water within the casing.	

## Photos (11.4.11)



**Picture 415** - View of System #2 control panel, showing, "High Level K.O." alarm triggered.



**Picture 421** - The sump associated with DDC-3 was observed to have 1-inch of water within the casing.

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: 11-Nov-11  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	9:18 - 10:05	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
9:18 - Preferred on-site. System #1 was left off during the O&M visit of 9-30-11, while System #2 was on upon arrival.
9:19 - Start of O&M on System #2.
9:53 - Water from within the sump associated with DDC-4 was pumped out in an effort to reduce the amount of water within return pipes.
10:00 - O&M completed.
10:05 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table November 11, 2011**

DATE: 11/11/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 60 Deg. Bright Sun

**TCE Groundwater Treatment System #1 STATUS: ON OFF** \* System shutdown since 30 September 2011 due to a high pitched noise emanating from blower.

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours - System Shut down 9-30-11 due to high pitch noise emanating from system,  
System Running at N/A Hz. \*

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter F0-1 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 11/11/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 60 Deg. Bright Sun

### TCE Groundwater Treatment System #1 - System shut down due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

#### Liquid Levels in Knock-Out Tanks

Comments: N/A

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*None*

## III: System Evaluation

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

DATE: 11/11/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 60 Deg. Bright Sun

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS: ON      OFF

**I: System Data Collection**

Total Run Time Meter Reading: 9,724.9 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
9:24	Carbon Unit Inlet	CA01	21.0	69.8	Carbon Unit #1
9:23	Pre-Heater	PHA01	31.7	89.0	After Shell and Tubing
9:23	Blower Panel	B01	76.7	170.0	Exiting Blower
9:22	After Cooler Outlet	AC01	32.2	90.0	Post Cooler Piping
9:23	Pre-Heater	PHB01	62.8	145.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
9:20	WD01	Injected Air to DDC-3	196
9:20	WD02	Injected Air to DDC-4	112

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
9:22	Knock-Out Tank	T01	-1.0 in. Hg	Vacuum gauge on knock-out tank
9:24	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
9:22	Discharge to Wells	WD2	3.4 PSI	Pressure reading on piping prior to splicing off to both wells
9:23	Blower Panel	BP01	-1.1 in. Hg	Vacuum coming off of blower
9:24	Carbon Unit #2 Outlet	CA2	-4.5 in. Hg	Vacuum exiting GAC #2
9:41	DDC-3	N/A	0.7 PSI	Pressure gauge on well head
9:47	DDC-4	N/A	0.4 PSI	Pressure gauge on well head



DATE: 11/11/11

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 60 Deg. Bright Sun

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
9:31	2.0	64.5

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
9:34	2.0	71.5

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
9:37	1.0	70.5

Comments: None

## 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	No water detected in this sump
DDC-4	Over 1 foot of water in this sump

Addition Comments:

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contained water.*

Liquid Levels in Knock-Out Tanks
Comments: No water was detected within the K.O. tank.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation

☒ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A
-----

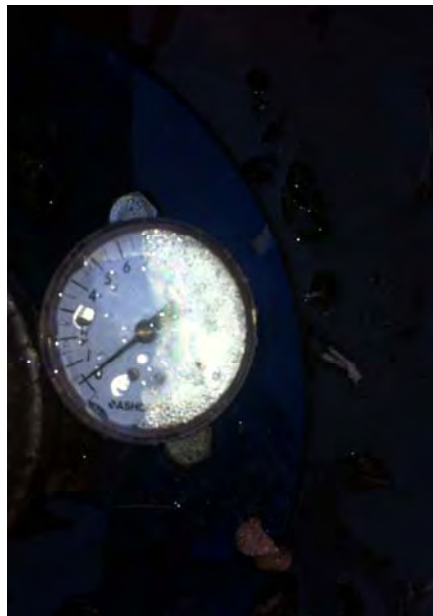
**PHOTOGRAPHIC LOG**  
**Date: 11-11-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 437	11/11/2011	10:24 AM	No water was detected within site-glass of the K.O. Tank in the System #2 shed.	
Picture 442	11/11/2011	10:42 AM	The pressure gauge on DDC-4 read 0.4 PSI.	

## Photos (11.11.11)



Picture 437 - No water was detected within site-glass of the K.O. Tank in the System #2 shed.



Picture 442 - The pressure gauge on DDC-4 read 0.4 PSI.

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: 16-Nov-11  
REPORT No. \_\_\_\_\_  
PAGE No. 1  
PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	8:00 - 10:00	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
Bob Casey	8:00 - 8:58	EA Engineering	None
John Norris	8:00 - 8:40	Gray Electric	None

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
8:00 - Preferred on-site. System #2 operating upon arrival. System #1 off since 30 September 2011. Bob Casey (EA) and John Norris (Gray Electric) on-site.
8:05 - Start troubleshooting SVE system.
8:30 - Gray Electric determined that the SVE control starter and heating control needed to be replaced for the blower.
8:35 - The electric service meters were verified by Gray Electric and EA; Meter No. 99791288 – confirmed to be associated with System #1 ; Meter No. 96928508 associated with System #2; Meter No. 99750394 associated with the SVE System and Meter No. 99799923 is a dead meter apparently formerly associated with system shed removed from the property.
8:40 - John Norris off-site.
8:50 - Start of O&M on System #2.
8:58 - Bob Casey off-site.
9:40 - Water from DDC-4 sump was pumped out in an effort to reduce the amount of water within return pipes.
9:50 - O&M completed.
10:00 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table November 16, 2011**

DATE: 11/16/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 60 Deg. Rain

**TCE Groundwater Treatment System #1**      **STATUS: ON OFF** \* System shutdown since 30 September 2011 due to a high pitched noise emanating from blower.

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours - System Shut down 9-30-11  
System Running at N/A Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter F0-1 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 11/16/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 60 Deg. Rain

### TCE Groundwater Treatment System #1 - System shut down due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

#### Liquid Levels in Knock-Out Tanks

Comments: N/A

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*None*

## III: System Evaluation

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

DATE: 11/16/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 60 Deg. Rain

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS: ON      OFF

**I: System Data Collection**

Total Run Time Meter Reading: 9,844.6 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
9:02	Carbon Unit Inlet	CA01	25.0	77.0	Carbon Unit #1
9:01	Pre-Heater	PHA01	34.4	94.0	After Shell and Tubing
9:01	Blower Panel	B01	79.4	175.0	Exiting Blower
9:01	After Cooler Outlet	AC01	36.1	97.0	Post Cooler Piping
9:01	Pre-Heater	PHB01	69.4	157.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
8:57	WD01	Injected Air to DDC-3	189
8:57	WD02	Injected Air to DDC-4	112

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
8:59	Knock-Out Tank	T01	-1.0 in. Hg	Vacuum gauge on knock-out tank
9:02	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
8:59	Discharge to Wells	WD2	3.3 PSI	Pressure reading on piping prior to splicing off to both wells
9:02	Blower Panel	BP01	-1.1 in. Hg	Vacuum coming off of blower
9:02	Carbon Unit #2 Outlet	CA2	-4.5 in. Hg	Vacuum exiting GAC #2
9:22	DDC-3	N/A	0.5 PSI	Pressure gauge on well head
9:29	DDC-4	N/A	0.3 PSI	Pressure gauge on well head

DATE: 11/16/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 60 Deg. Rain

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
9:12	2.2	71.5

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
9:14	2.2	76.4

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
9:17	1.0	73.7

Comments: None

## 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	1-inch of water detected in this sump
DDC-4	Over 1 foot of water in this sump

Addition Comments:

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contained water.*

### Liquid Levels in Knock-Out Tanks

Comments: No water was detected within the K.O. tank.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation



System is operating satisfactorily



EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A



**PHOTOGRAPHIC LOG**  
**Date: 11-16-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 1427	11/16/2011	8:50 AM	View of control panel associated with System #2, which was on upon arrival.	
Picture 1449	11/16/2011	8:30 AM	The Control Starter, along with the heating control for the blower needs to be replaced for the SVE System.	

## Photos (11.16.11)



**Picture 1427** - View of control panel associated with System #2, which was on upon arrival.



**Picture 1449** - The Control Starter, along with the heating control for the blower needs to be replaced for the SVE System.

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
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 Date: 23-Nov-11  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	9:00 - 10:45	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
9:00 - Preferred on-site. System #1 off since 30 September 2011. System #2 was off upon arrival with a, "High Level KO Tank" alarm.
9:05 - Restarted System #2.
9:18 - Water from DDC-4 sump was pumped out in an effort to reduce the amount of water within return pipes.
9:25 - Start System #2 O&M.
10:00 - Start troubleshooting System #2 knock-out tank pump.
10:40 - O&M completed.
10:45 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

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# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table November 23, 2011**

DATE: 11/23/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 60 Deg. Rain

**TCE Groundwater Treatment System #1**  
pitched noise emanating from blower.

**STATUS: ON OFF** \* System shutdown since 30 September 2011 due to a high

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours -  
System Running at N/A Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter F0-1 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 11/23/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 60 Deg. Rain

### TCE Groundwater Treatment System #1 - System shut down due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

#### Liquid Levels in Knock-Out Tanks

Comments: N/A

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Additional Comments:

*None*

## III: System Evaluation

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

DATE: 11/23/11DAY: WednesdayTECHNICIAN: Thomas FitzpatrickWeather: 60 Deg. Rain

## GWTT EQUIPMENT INFORMATION

**TCE Groundwater Treatment System #2      STATUS:    ON      OFF \* "High Level KO Tank" alarm was triggered upon arrival.****I: System Data Collection**

Total Run Time Meter Reading: 9,927.6 hours - Ran for 83 hours (3.5 days before shut down)  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
9:30	Carbon Unit Inlet	CA01	14.0	57.2	Carbon Unit #1
9:29	Pre-Heater	PHA01	23.9	75.0	After Shell and Tubing
9:29	Blower Panel	B01	60.0	140.0	Exiting Blower
9:28	After Cooler Outlet	AC01	25.0	77.0	Post Cooler Piping
9:29	Pre-Heater	PHB01	48.9	120.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
9:27	WD01	Injected Air to DDC-3	196
9:27	WD02	Injected Air to DDC-4	112

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
9:28	Knock-Out Tank	T01	-0.8 in. Hg	Vacuum gauge on knock-out tank
9:31	Carbon-Unit #1 Outlet	CA1	-5.1 in. Hg	Vacuum exiting GAC #1
9:27	Discharge to Wells	WD2	3.4 PSI	Pressure reading on piping prior to splicing off to both wells
9:30	Blower Panel	BP01	-0.8 in. Hg	Vacuum coming off of blower
9:30	Carbon Unit #2 Outlet	CA2	-4.7 in. Hg	Vacuum exiting GAC #2
9:39	DDC-3	N/A	0.2 PSI	Pressure gauge on well head
9:35	DDC-4	N/A	0.2 PSI	Pressure gauge on well head

DATE: 11/23/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 60 Deg. Rain

**TCE Groundwater Treatment System #2****GAC Unit Information****Influent Port GAC#1**

TIME	PID VOC ppm	Temp Deg. F
9:41	3.1	58.4

Comments: None

**Influent Port GAC#2**

TIME	PID VOC ppm	Temp Deg. F
9:44	2.9	66.0

Comments: None

**Effluent**

TIME	PID VOC ppm	Temp Deg. F
9:48	1.6	60.9

Comments: None

**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	1-inch of water detected in this sump
DDC-4	Over 1 foot of water in this sump

Additional Comments:

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contain water.*

*Upon restarting System #2, the site glass for the KO tank went from having no water within the site glass to 1-inch of water. Also, a slight high pitch noise was emanating from the pipes, which dissipated after 3 minutes. Water must have been within the pipes and have been blown out upon restarting the system.*

*The pump associated with the KO tank was noted to be running prior to restarting the system and continued to run after it was restarted, even though water within the site glass remained unchanged. The power to the pump was tripped from the control panel and the pump shut off and remained off.*

Liquid Levels in Knock-Out Tanks
Comments: No water was detected within the K.O. tank before System #2 was restarted. Upon restarting the system, 1-inch of water was observed within site glass.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

**III: System Evaluation**

☒ System is operating satisfactorily  
☐ EA recommends / implements the following....

**IV: Sampling / Lab Data**

N/A
-----

**PHOTOGRAPHIC LOG**  
**Date: 11-23-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 480	11/23/2011	9:00 AM	No water was detected within the site glass of the KO tank prior to restating the system.	
Picture 484	11/23/2011	9:05 AM	1-inch of water was observed within site glass once System #2 was restarted.	



## Photos (11.23.11)



**Picture 480** - No water was detected within the site glass of the KO tank prior to restating the system.



**Picture 484** - 1-inch of water was observed within site glass once System #2 was restarted.

**December 2011**

Project: EA Engineering and Preferred Environmental Services  
 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
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 Date: 1-Dec-11  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	8:30 - 9:24	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
8:30 - Preferred on-site. System #2 operating upon arrival. System #1 off since 30 September 2011.
8:32 - Start of O&M on System #2.
9:05 - Water from DDC-4 sump was pumped out in an effort to reduce the amount of water within return pipes.
9:18 - O&M completed.
9:24 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

x
---

 - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table December 1, 2011**

DATE: 12/1/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Bright Sun

**TCE Groundwater Treatment System #1**      **STATUS: ON**      **OFF** \* System shutdown on 30 September 2011 due to a high pitched noise emanating from blower.

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours - System Shut down 9-30-11  
System Running at N/A Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter FI-01 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 12/1/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Bright Sun

### TCE Groundwater Treatment System #1 - System shut down 9-30-11 due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

#### Liquid Levels in Knock-Out Tanks

Comments: N/A

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*None*

## III: System Evaluation

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

DATE: 12/1/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Bright Sun

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS: ON      OFF

**I: System Data Collection**

Total Run Time Meter Reading: 10,118.6 hours   ran for eight (8) days  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
8:34	Carbon Unit Inlet	CA01	20.0	68.0	Carbon Unit #1
8:37	Pre-Heater	PHA01	29.4	85.0	After Shell and Tubing
8:38	Blower Panel	B01	71.1	160.0	Exiting Blower
8:37	After Cooler Outlet	AC01	29.4	85.0	Post Cooler Piping
8:37	Pre-Heater	PHB01	60.0	140.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
8:35	WD01	Injected Air to DDC-3	189
8:35	WD02	Injected Air to DDC-4	105

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
8:36	Knock-Out Tank	T01	-0.8 in. Hg	Vacuum gauge on knock-out tank
8:38	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
8:36	Discharge to Wells	WD2	3.3 PSI	Pressure reading on piping prior to splicing off to both wells
8:38	Blower Panel	BP01	-0.8 in. Hg	Vacuum coming off of blower
8:38	Carbon Unit #2 Outlet	CA2	-4.5 in. Hg	Vacuum exiting GAC #2
8:55	DDC-3	N/A	0.6 PSI	Pressure gauge on well head
9:02	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 12/1/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Bright Sun

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
8:46	0.0	64.2

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
8:50	0.0	70.8

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
8:53	0.0	66.9

Comments: None

## 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	1-inch of water detected in this sump
DDC-4	Over 1 foot of water in this sump

Addition Comments:

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contained water.*

### Liquid Levels in Knock-Out Tanks

Comments: 2 3/8 inches of water detected within site glass.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation

☒ System is operating satisfactorily

☐ EA recommends / implements the following....

--

## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 12-1-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 478	12/1/2011	9:32 AM	System #2 was on upon arrival.	
Picture 479	12/1/2011	8:32 AM	About two and 3/8 inches of water was noted within the knock-out tank's site glass in System #2.	



## Photos (12.1.11)



**Picture 478** - System #2 was on upon arrival.



**Picture 479** - About two and 3/8 inches of water was noted within the knock-out tank's site glass in System #2.

Project: EA Engineering and Preferred Environmental Services  
 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: 8-Dec-11  
 REPORT No. \_\_\_\_\_  
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	9:56 - 13:05	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
9:56 - Preferred on-site. System #1 off since 30 September 2011. System #2 off due to, "High Level KO Tank" alarm.
10:00 - System #2 knock-out tank sight glass full of water. Knock-out tank pump is running, but not discharging water.
10:20 - Called Gould Pumps (1-866-325-4210) to troubleshoot knock-out tank pump. Observations made during troubleshoot process: 1) The PVC union connecting the knock-out tank and pump was unobstructed; 2) While the pump was on, the discharge line from the pump was opened and it was observed to be discharging ~2 gpm, compared to normal operation of 20-30 gpm. 3) Pump drive shaft rotating properly.
11:40 - Determined that the pump should be opened and inspected for internal flaws and install an "air bleeder" on the discharge line.
11:50 - Knock-out tank drained via PVC union located on bottom.
12:22 - Start of O&M on System #2.
12:47 - Water from DDC-4 sump was pumped out in an effort to reduce the amount of water within return pipes.
13:05 - O&M completed.
13:05 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



323 Merrick Avenue - North Merrick, New York 11566 Tel: (516) 546-1100 Fax : (516) 213-8156

**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table December 8, 2011**

DATE: 12/8/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Bright Sun

**TCE Groundwater Treatment System #1**      **STATUS: ON**      **OFF** \* System shutdown since 30 September 2011 due to a high pitched noise emanating from blower.

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours - System Shut down 9-30-11  
System Running at N/A Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter FI-01 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 12/8/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Bright Sun

### TCE Groundwater Treatment System #1 - System shut down 9-30-11 due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

#### Liquid Levels in Knock-Out Tanks

Comments: N/A

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*None*

## III: System Evaluation

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

DATE: 12/8/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Bright Sun

GWTT EQUIPMENT INFORMATION

**TCE Groundwater Treatment System #2      STATUS:    ON      OFF \* System was off with a, "High Level KO Tank" alarm**

**I: System Data Collection**

Total Run Time Meter Reading: 10,276.8 hours; ran for six and one-half (6.5) days  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
12:26	Carbon Unit Inlet	CA01	9.0	48.2	Carbon Unit #1
12:25	Pre-Heater	PHA01	15.0	59.0	After Shell and Tubing
12:25	Blower Panel	B01	48.9	120.0	Exiting Blower
12:24	After Cooler Outlet	AC01	15.0	59.0	Post Cooler Piping
12:25	Pre-Heater	PHB01	32.2	90.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
12:23	WD01	Injected Air to DDC-3	189
12:23	WD02	Injected Air to DDC-4	112

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
12:24	Knock-Out Tank	T01	-1.0 in. Hg	Vacuum gauge on knock-out tank
12:26	Carbon-Unit #1 Outlet	CA1	-5.4 in. Hg	Vacuum exiting GAC #1
12:23	Discharge to Wells	WD2	3.4 PSI	Pressure reading on piping prior to splicing off to both wells
12:26	Blower Panel	BP01	-0.2 in. Hg	Vacuum coming off of blower
12:25	Carbon Unit #2 Outlet	CA2	-5.0 in. Hg	Vacuum exiting GAC #2
12:40	DDC-3	N/A	1.1 PSI	Pressure gauge on well head
12:45	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 12/8/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Bright Sun

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
12:33	2.3	53.7

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
12:35	1.8	62.4

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
12:39	0.2	58.4

Comments: None

## 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	1-inch of water detected in this sump
DDC-4	Over 1 foot of water in this sump

Addition Comments:

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contain water.*

### Liquid Levels in Knock-Out Tanks

Comments: Site glass was full upon arrival. Knock-out tank was then drained. When system was turned on, the site glass was noted to rise to contain 5-inches of water.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation



System is operating satisfactorily



EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

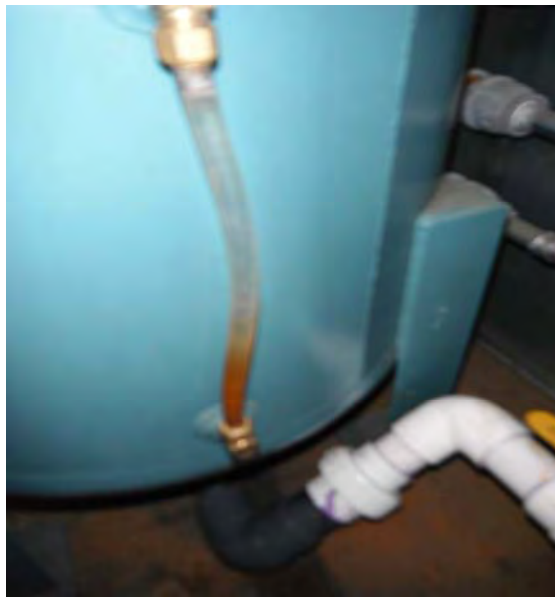
**PHOTOGRAPHIC LOG**  
**Date: 12-8-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 505	12/8/2011	9:56 AM	System #2 was off upon arrival, with a, "High Level KO Tank" alarm.	
Picture 506	12/8/2011	9:58 AM	The site glass on the knock-out tank within System #2 was full upon arrival.	

## Photos (12.8.11)



**Picture 505** - System #2 was off upon arrival, with a "High Level KO Tank" alarm.



**Picture 506** - The site glass on the knock-out tank within System #2 was full upon arrival.



Project: EA Engineering and Preferred Environmental Services  
 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
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 Date: 14-Dec-11  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	10:10 - 11:30	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
10:10 - Preferred on-site. System #2 operating upon arrival, no alarms triggered. System #1 off since 30 September 2011.
10:15 - Start of O&M on System #2.
11:00 - Water from DDC-4 sump was pumped out in an effort to reduce the amount of water within return pipes.
11:12 - Water from System #2 knock-out tank was drained via PVC union located on bottom of tank.
11:25 - O&M for System #2 is complete.
11:30 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



323 Merrick Avenue - North Merrick, New York 11566 Tel: (516) 546-1100 Fax : (516) 213-8156

**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table December 14, 2011**

DATE: 12/14/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Bright Sun

**TCE Groundwater Treatment System #1**

**STATUS: ON**

**OFF**

\* System shutdown since 30 September 2011 due to a high pitched noise emanating from blower.

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours - System Shut down 9-30-11

System Running at N/A Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter FI-01 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 12/14/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Bright Sun

### TCE Groundwater Treatment System #1 - System shut down 9-30-11 due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

#### Liquid Levels in Knock-Out Tanks

Comments: N/A

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*None*

## III: System Evaluation

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

DATE: 12/14/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Bright Sun

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS:    ON      OFF \* System was off, no alarms triggered.

**I: System Data Collection**

Total Run Time Meter Reading: 10,359.4 hours; ran for three and a half (3.5) days  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:23	Carbon Unit Inlet	CA01	10.0	50.0	Carbon Unit #1
10:21	Pre-Heater	PHA01	13.9	57.0	After Shell and Tubing
10:22	Blower Panel	B01	43.3	110.0	Exiting Blower
10:21	After Cooler Outlet	AC01	16.1	61.0	Post Cooler Piping
10:22	Pre-Heater	PHB01	32.2	90.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
10:20	WD01	Injected Air to DDC-3	189
10:20	WD02	Injected Air to DDC-4	119

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
10:21	Knock-Out Tank	T01	-0.5 in. Hg	Vacuum gauge on knock-out tank
10:23	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
10:21	Discharge to Wells	WD2	3.4 PSI	Pressure reading on piping prior to splicing off to both wells
10:22	Blower Panel	BP01	-0.5 in. Hg	Vacuum coming off of blower
10:23	Carbon Unit #2 Outlet	CA2	-4.6 in. Hg	Vacuum exiting GAC #2
10:40	DDC-3	N/A	0.5 PSI	Pressure gauge on well head
10:45	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 12/14/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Bright Sun

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
10:26	1.4	56.8

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
10:29	1.5	59.5

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
10:35	0.0	52.5

Comments: None

## 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	1-inch of water detected in this sump
DDC-4	Over 1 foot of water in this sump

Addition Comments:

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contain water.*

### Liquid Levels in Knock-Out Tanks

Comments: 6-inches of water was detected within site glass upon arrival. The tank was drained.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation



System is operating satisfactorily



EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 12-14-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 519	12/14/2011	9:56 AM	System #2 was off upon arrival, with no alarms triggered.	
Picture 526	12/14/2011	9:58 AM	The sump associated with DDC-4 was purged after it was observed to contain over a foot of water from within.	

## Photos (12.14.11)



**Picture 519 - System #2 was off upon arrival, with no alarms triggered.**



**Picture 526 - The sump associated with DDC-4 was purged after it was observed to contain over a foot of water from within.**

Project: EA Engineering and Preferred Environmental Services  
 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
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 Date: 21-Dec-11  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	7:50 - 12:50	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
Rob Peterson	7:50 - 12:50	EA Engineering	None
John Norris	7:57 - 11:40	Gray Electric	None

### 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: Thomas Fitzpatrick - Preferred
<b>DESCRIPTION OF WORK PERFORMED AND OBSERVED</b>
7:50 - Preferred on-site. System #2 operating upon arrival. System #1 off since 30 September 2011. EA already on-site performing groundwater sampling.
7:55 - System #2 shut down in order to replace knock-out pump.
7:57 - Gray Electric on-site. Began draining water from System #2 knock-out tank. Knock-out tank pump removed.
8:30 - Gray Electric began replacing control starter for the SVE system.
10:00 - Gray Electric wired new knock-out tank pump for System #2.
10:10 - Preferred reconnects knock-out tank plumbing.
11:40 - Gray Electric off-site.
11:47 - System #2 was restarted and the weekly O&M was resumed.
12:30 - Water from DDC-4 sump was pumped out in an effort to reduce the amount of water within return pipes.
12:45 - O&M for System #2 is complete.
11:50 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

x
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 - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7



# EA Engineering

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



323 Merrick Avenue - North Merrick, New York 11566 Tel: (516) 546-1100 Fax : (516) 213-8156

**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table December 21, 2011**

DATE: 12/21/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Rain

**TCE Groundwater Treatment System #1**      **STATUS: ON**      **OFF** \* System shutdown since 30 September 2011 due to a high pitched noise emanating from blower.

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours - System Shut down 9-30-11  
System Running at N/A Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter FI-01 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 12/21/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Rain

### TCE Groundwater Treatment System #1 - System shut down 9-30-11 due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

#### Liquid Levels in Knock-Out Tanks

Comments: N/A

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*None*

## III: System Evaluation

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

DATE: 12/21/11

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Rain

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS: ON      OFF

**I: System Data Collection**

Total Run Time Meter Reading: 10,525.2 hours ran for seven (7) days  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:58	Carbon Unit Inlet	CA01	12.0	53.6	Carbon Unit #1
11:57	Pre-Heater	PHA01	22.8	73.0	After Shell and Tubing
11:58	Blower Panel	B01	65.6	150.0	Exiting Blower
11:57	After Cooler Outlet	AC01	25.6	78.0	Post Cooler Piping
11:57	Pre-Heater	PHB01	47.8	118.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
11:56	WD01	Injected Air to DDC-3	189
11:56	WD02	Injected Air to DDC-4	118

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
11:57	Knock-Out Tank	T01	-0.5 in. Hg	Vacuum gauge on knock-out tank
11:59	Carbon-Unit #1 Outlet	CA1	-4.8 in. Hg	Vacuum exiting GAC #1
11:57	Discharge to Wells	WD2	3.3 PSI	Pressure reading on piping prior to splicing off to both wells
11:58	Blower Panel	BP01	-1.1 in. Hg	Vacuum coming off of blower
11:58	Carbon Unit #2 Outlet	CA2	-4.2 in. Hg	Vacuum exiting GAC #2
12:15	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
12:20	DDC-4	N/A	0.5 PSI	Pressure gauge on well head

DATE: 12/21/11DAY: WednesdayTECHNICIAN: Thomas FitzpatrickWeather: 50 Deg. Rain**TCE Groundwater Treatment System #2****GAC Unit Information****Influent Port GAC#1**

TIME	PID VOC ppm	Temp Deg. F
12:03	8.5	62.5

Comments: None

**Influent Port GAC#2**

TIME	PID VOC ppm	Temp Deg. F
12:06	8.3	65.8

Comments: None

**Effluent**

TIME	PID VOC ppm	Temp Deg. F
12:09	1.4	64.5

Comments: None

**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	1-inch of water detected in this sump
DDC-4	Over 1 foot of water in this sump

**Addition Comments:**

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contain water.*

*System #2 knock-out tank pump was disconnected and replaced with a new Gould's Pump (Model number: GT073). The electrical wiring was disconnected and reconnected by Gray Electric, while the PVC plumbing was repaired by Preferred Environmental Services.*

**Liquid Levels in Knock-Out Tanks**

Comments: 5-inches of water was detected within site glass upon arrival. The tank was then drained and only 1-inch of water was observed within the site-glass.

**Oil Level on Blower**

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

**III: System Evaluation**

System is operating satisfactorily



EA recommends / implements the following....

**IV: Sampling / Lab Data**

N/A
-----

**PHOTOGRAPHIC LOG**  
**Date: 12-21-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 521	12/21/2011	7:55 AM	Five inches of water was observed in the site glass of the knock-out tank in System #2, upon arrival.	
Picture 528	12/21/2011	11:47 AM	The knock-out pump was replaced and the piping reconnected within the System #2 shed.	

## Photos (12.21.11)



**Picture 521** - Five inches of water was observed in the site glass of the knock-out tank in System #2, upon arrival.



**Picture 528** - The knock-out pump was replaced and the piping reconnected within the System #2 shed.

Project: EA Engineering and Preferred Environmental Services  
 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: 29-Dec-11  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	8:57 - 10:10	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
8:57 - Preferred on-site. System #1 off since 30 September 2011, while System #2 was off due to a, "Momentary Power Loss".
9:00 - System #2 knock-out tank pump was heated up with a space heater .
9:07 - System #2 was restarted.
9:18 - Start of O&M on System #2.
9:55 - Water from DDC-4 sump was pumped out in an effort to reduce the amount of water within return pipes.
10:05 - O&M for System #2 is complete.
10:10 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table December 29, 2011**

DATE: 12/29/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 40 Deg. Partly Cloudy

**TCE Groundwater Treatment System #1**      **STATUS: ON OFF** \* System shutdown since 30 September 2011 due to a high pitched noise emanating from blower.

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours - System Shut down 9-30-11  
System Running at N/A Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter F0-1 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower



DATE: 12/29/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 40 Deg. Partly Cloudy

### TCE Groundwater Treatment System #1 - System shut down 9-30-11 due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

#### Liquid Levels in Knock-Out Tanks

Comments: N/A

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*None*

## III: System Evaluation

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

DATE: 12/29/11

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 40 Deg. Partly Cloudy

GWTT EQUIPMENT INFORMATION

**TCE Groundwater Treatment System #2      STATUS:    ON      OFF \* System was off, with a VFD alarm of, "Mom Power Loss".**

**I: System Data Collection**

Total Run Time Meter Reading: 10,683.2 hours; ran for six and a half (6.5) days  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
9:22	Carbon Unit Inlet	CA01	5.0	41.0	Carbon Unit #1
9:21	Pre-Heater	PHA01	12.8	55.0	After Shell and Tubing
9:21	Blower Panel	B01	43.3	110.0	Exiting Blower
9:21	After Cooler Outlet	AC01	10.6	51.0	Post Cooler Piping
9:21	Pre-Heater	PHB01	32.8	91.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
9:18	WD01	Injected Air to DDC-3	189
9:18	WD02	Injected Air to DDC-4	115

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
9:21	Knock-Out Tank	T01	-1.5 in. Hg	Vacuum gauge on knock-out tank
9:22	Carbon-Unit #1 Outlet	CA1	-5.8 in. Hg	Vacuum exiting GAC #1
9:20	Discharge to Wells	WD2	3.2 PSI	Pressure reading on piping prior to splicing off to both wells
9:22	Blower Panel	BP01	-0.2 in. Hg	Vacuum coming off of blower
9:22	Carbon Unit #2 Outlet	CA2	-5.4 in. Hg	Vacuum exiting GAC #2
9:45	DDC-3	N/A	0.6 PSI	Pressure gauge on well head
9:50	DDC-4	N/A	0.5 PSI	Pressure gauge on well head

DATE: 12/29/11DAY: ThursdayTECHNICIAN: Thomas FitzpatrickWeather: 40 Deg. Partly Cloudy**TCE Groundwater Treatment System #2****GAC Unit Information****Influent Port GAC#1**

TIME	PID VOC ppm	Temp Deg. F
9:30	2.1	46.2

Comments: None

**Influent Port GAC#2**

TIME	PID VOC ppm	Temp Deg. F
9:34	1.9	52.5

Comments: None

**Effluent**

TIME	PID VOC ppm	Temp Deg. F
9:38	0.0	46.3

Comments: None

**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	1-inch of water detected in this sump
DDC-4	Over 1 foot of water in this sump

Addition Comments:

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contain water.*

*The pump associated with the knock-out tank on System #2 was disconnected and changed with a new Gould's Pump (Model number: GT073) on 12-21-11. Since then no water has been detected within the site glass of the knock-out tank within System #2.*

Liquid Levels in Knock-Out Tanks
Comments: No water was detected within site-glass.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

**III: System Evaluation**

☒ System is operating satisfactorily  
☐ EA recommends / implements the following....

**IV: Sampling / Lab Data**

N/A
-----

**PHOTOGRAPHIC LOG**  
**Date: 12-29-11**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 1784	12/29/2011	8:57 AM	View of System #2's Variable Frequency Drive (VFD) with a, "Mom Power Loss" alarm.	
Picture 1787	12/29/2011	9:50 AM	View of the pressure gauge on DDC-4 reading 0.5 PSI.	

## Photos (12.29.11)



**Picture 1784** - View of System #2's Variable Frequency Drive (VFD) with a, "Mom Power Loss" alarm.



**Picture 1787** - View of the pressure gauge on DDC-4 reading 0.5 PSI.

**January 2012**

Project: EA Engineering and Preferred Environmental Services  
 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
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 Date: 6-Jan-12  
 REPORT No. \_\_\_\_\_  
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	12:34 - 13:10	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
12:34 - Preferred on-site. System #1 off since 30 September 2011. System #2 was on upon arrival.
12:36 - Start of O&M on System #2.
12:59 - Water from DDC-4 sump was pumped out in an effort to reduce the amount of water within return pipes.
13:05 - O&M for System #2 is complete.
13:10 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

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# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table January 6, 2012**

DATE: 1/6/12

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 45 Deg. Partly Cloudy

**TCE Groundwater Treatment System #1 STATUS: ON OFF** \* System was left off 9-30-11 due to a high pitched noise emanating from the lines from within system shed.

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours - System Shut down 9-30-11  
System Running at N/A Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter FI-01 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower



DATE: 1/6/12

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 45 Deg. Partly Cloudy

### TCE Groundwater Treatment System #1 - System shut down 9-30-11 due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

Liquid Levels in Knock-Out Tanks
Comments: N/A

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:	<b>None</b>
--------------------	-------------

## III: System Evaluation

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A
-----

DATE: 1/6/12

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 45 Deg. Partly Cloudy

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS: ON      OFF

**I: System Data Collection**

Total Run Time Meter Reading: 10,878.7 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
12:40	Carbon Unit Inlet	CA01	17.0	62.6	Carbon Unit #1
12:38	Pre-Heater	PHA01	29.4	85.0	After Shell and Tubing
12:39	Blower Panel	B01	68.3	155.0	Exiting Blower
12:38	After Cooler Outlet	AC01	33.3	92.0	Post Cooler Piping
12:39	Pre-Heater	PHB01	58.9	138.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
12:37	WD01	Injected Air to DDC-3	188
12:37	WD02	Injected Air to DDC-4	140

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
12:38	Knock-Out Tank	T01	-0.0 in. Hg	Vacuum gauge on knock-out tank
12:40	Carbon-Unit #1 Outlet	CA1	-4.6 in. Hg	Vacuum exiting GAC #1
12:38	Discharge to Wells	WD2	3.3 PSI	Pressure reading on piping prior to splicing off to both wells
12:39	Blower Panel	BP01	-1.0 in. Hg	Vacuum coming off of blower
12:39	Carbon Unit #2 Outlet	CA2	-4.1 in. Hg	Vacuum exiting GAC #2
12:53	DDC-3	N/A	0.5 PSI	Pressure gauge on well head
12:58	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 1/6/12

DAY: Friday

TECHNICIAN: Thomas Fitzpatrick

Weather: 45 Deg. Partly Cloudy

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
12:45	3.3	65.1

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
12:48	2.9	67.6

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
12:51	2.0	66.0

Comments: None

## 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	1-inch of water detected in this sump
DDC-4	Over 1 foot of water in this sump

Addition Comments:

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contain water.*

### Liquid Levels in Knock-Out Tanks

Comments: 3-inches of water observed within site glass.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation

☒ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 1-6-12**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 528	1/6/2012	12:34 PM	System #2 was running upon arrival.	
Picture 536	1/6/2012	12:59 PM	The sump associated to DDC-4 was observed to contain over a foot of water. This water was pumped out in an effort to reduce the amount of water within return pipes.	

## Photos (1.6.12)



**Picture 528 - System #2 was running upon arrival.**



**Picture 536 - The sump associated to DDC-4 was observed to contain over a foot of water. This water was pumped out in an effort to reduce the amount of water within return pipes.**

Project: EA Engineering and Preferred Environmental Services  
 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: 12-Jan-12  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	9:48 - 10:40	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

### 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: Thomas Fitzpatrick - Preferred
<b>DESCRIPTION OF WORK PERFORMED AND OBSERVED</b>
9:48 - Preferred on-site. System #1 was left off during the O&M visit of 9-30-11 and it was noted that the lock on the electrical service panel has been removed, while the knife switch is still in the off position. System #2 was running upon arrival.
9:58 - Start of O&M on System #2.
10:25 - Water from within the sump associated with DDC-4 was pumped out in an effort to reduce the amount of water within return pipes.
10:35 - O&M for System #2 is complete.
10:40 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

x
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 - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



323 Merrick Avenue - North Merrick, New York 11566 Tel: (516) 546-1100 Fax : (516) 213-8156

**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table January 12, 2012**

DATE: 1/12/12

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Rain

**TCE Groundwater Treatment System #1**

**STATUS: ON**

**OFF**

\* System shutdown since 30 September 2011 due to a high pitched noise emanating from blower.

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours - System Shut down 9-30-11

System Running at N/A Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter F0-1 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 1/12/12

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Rain

**TCE Groundwater Treatment System #1 - System shut down 9-30-11 due to high pitch noise emanating from system**

GAC Unit Information

**Influent Port**

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

**Between GAC Unit #1 and GAC Unit #2**

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

**Effluent Port**

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

**II: System Maintenance and Observations**

**Inspection of Water Column in DDC Wells**

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

**Inspection of Sumps Associated with DDC Wells**

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

**Liquid Levels in Knock-Out Tanks**

Comments: N/A

**Oil Level on Blower**

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

**None**

**III: System Evaluation**

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

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**IV: Sampling / Lab Data**

N/A



DATE: 1/12/12

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Rain

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS: ON      OFF

**I: System Data Collection**

Total Run Time Meter Reading: 11,020.1 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:01	Carbon Unit Inlet	CA01	18.0	64.4	Carbon Unit #1
10:00	Pre-Heater	PHA01	30.6	87.0	After Shell and Tubing
10:00	Blower Panel	B01	71.1	160.0	Exiting Blower
10:00	After Cooler Outlet	AC01	30.3	86.5	Post Cooler Piping
10:02	Pre-Heater	PHB01	62.8	145.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
9:59	WD01	Injected Air to DDC-3	185
9:59	WD02	Injected Air to DDC-4	115

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
10:00	Knock-Out Tank	T01	-1.5 in. Hg	Vacuum gauge on knock-out tank
10:01	Carbon-Unit #1 Outlet	CA1	-5.5 in. Hg	Vacuum exiting GAC #1
10:00	Discharge to Wells	WD2	3.1 PSI	Pressure reading on piping prior to splicing off to both wells
10:01	Blower Panel	BP01	-1.4 in. Hg	Vacuum coming off of blower
10:00	Carbon Unit #2 Outlet	CA2	-5.0 in. Hg	Vacuum exiting GAC #2
10:20	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
10:25	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 1/12/12

DAY: Thursday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Rain

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
10:05	4.6	59.7

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
10:09	5.2	64.0

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
10:12	2.0	64.7

Comments: None

## 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	1-inch of water detected in this sump
DDC-4	Over 1 foot of water in this sump

Addition Comments:

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contain water.*

Liquid Levels in Knock-Out Tanks
Comments: No water was observed within site-glass.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation

☒ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A
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**PHOTOGRAPHIC LOG**  
**Date: 1-12-12**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 530	1/12/2012	9:58 AM	The knock-out tank in System #2 had no water within its site-glass.	
Picture 534	1/12/2012	10:09 AM	Effluent air within the three sample ports in System #2 were screened.	

## Photos (1.12.12)



**Picture 530** - The knock-out tank in System #2 had no water within its site-glass.



**Picture 534** - Effluent air within the three sample ports in System #2 were screened.

Project: EA Engineering and Preferred Environmental Services  
 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: 18-Jan-12  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	9:17 - 10:03	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
9:17 - Preferred on-site. System #1 off since 30 September 2011. System #2 operating upon arrival.
9:19 - Start of O&M on System #2.
9:50 - Water from DDC-4 sump was pumped out in an effort to reduce the amount of water within return pipes.
9:57 - O&M for System #2 is complete.
10:03 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

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 - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

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# EA Engineering

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



**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table January 18, 2012**

DATE: 1/18/12

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 45 Deg. Partly Cloudy

**TCE Groundwater Treatment System #1 STATUS: ON OFF** \* System was left off 9-30-11 due to a high pitched noise emanating from the lines from within system shed.

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours - System Shut down 9-30-11

System Running at N/A Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter F0-1 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 1/18/12

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 45 Deg. Partly Cloudy

### TCE Groundwater Treatment System #1 - System shut down 9-30-11 due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

#### Liquid Levels in Knock-Out Tanks

Comments: N/A

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*None*

## III: System Evaluation

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

DATE: 1/18/12

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 45 Deg. Partly Cloudy

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS: ON      OFF

**I: System Data Collection**

Total Run Time Meter Reading: 11,163.5 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
9:24	Carbon Unit Inlet	CA01	18.0	64.4	Carbon Unit #1
9:22	Pre-Heater	PHA01	29.4	85.0	After Shell and Tubing
9:23	Blower Panel	B01	68.3	155.0	Exiting Blower
9:22	After Cooler Outlet	AC01	27.8	82.0	Post Cooler Piping
9:23	Pre-Heater	PHB01	57.8	136.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
9:21	WD01	Injected Air to DDC-3	182
9:21	WD02	Injected Air to DDC-4	136

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
9:22	Knock-Out Tank	T01	-0.5 in. Hg	Vacuum gauge on knock-out tank
9:24	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
9:22	Discharge to Wells	WD2	3.2 PSI	Pressure reading on piping prior to splicing off to both wells
9:23	Blower Panel	BP01	-0.9 in. Hg	Vacuum coming off of blower
9:24	Carbon Unit #2 Outlet	CA2	-4.4 in. Hg	Vacuum exiting GAC #2
9:39	DDC-3	N/A	0.5 PSI	Pressure gauge on well head
9:45	DDC-4	N/A	0.4 PSI	Pressure gauge on well head



DATE: 1/18/12

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 45 Deg. Partly Cloudy

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
9:28	3.6	59.1

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
9:32	3.7	64.7

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
9:34	2.8	64.5

Comments: None

## 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	A half an inch of water detected in this sump
DDC-4	Over 1 foot of water in this sump

Addition Comments:

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contain water.*

### Liquid Levels in Knock-Out Tanks

Comments: 5.5-inches of water was observed within site glass upon arrival. At 9:48 the site glass was re-gauged and was observed to be free of water.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation



System is operating satisfactorily



EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 1-18-12**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 529	1/18/2012	9:39 AM	The sump associated with DDC-3 was observed to only contain a half inch of water.	
Picture 532	1/18/2012	10:48 AM	The knock-out tank within System #2 was observed to contain 5.5-inches of water within the site glass upon arrival. During the O&M visit the water was completely discharged from the tank to the DDC-3 well.	

## Photos (1.18.12)



**Picture 529** - The sump associated with DDC-3 was observed to only contain a half inch of water.



**Picture 532** - The knock-out tank within System #2 was observed to contain 5.5-inches of water within the site glass upon arrival. During the O&M visit the water was completely discharged from the tank to the DDC-3 well.

Project: EA Engineering and Preferred Environmental Services  
 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: 25-Jan-12  
 REPORT No.                       
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	9:53- 11:50	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
Rob Peterson	9:53 - 10:40	EA Engineering	N/A

### 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: Thomas Fitzpatrick - Preferred
DESCRIPTION OF WORK PERFORMED AND OBSERVED
9:53 - Preferred on-site, System #2 operating. Rob Peterson (EA) already onsite. EA indicated that Gray Electric had already been on-site to confirm that power is being supplied to System #1. System #1 was left off until Wastach Environmental can troubleshoot the system.
10:12 - Start of O&M on System #2.
10:40 - EA off-site.
10:45 - DDC-3 sump pump was observed to be consistently running, even if not submerged in water. Preferred attempted to troubleshoot the problem by removing the pump from the sump and inspecting the outer casing for clogs, as well as toggling the power supply.
11:10 - Called Rule Pumps' customer support line (978-281-0573) and talked to Neil who instructed Preferred that the pump likely failed due to a circuitry issue. The pump is within its three (3) year warranty, so Rule Pumps will replace existing pump. The sump pump was left off, so that the motor does not burn out.
11:30 - Water from DDC-4 sump was pumped out in an effort to reduce the amount of water within return pipes.
11:45 - O&M for System #2 is complete.
11:50 - Preferred locked both systems and all parties off-site. System #1 was left off, while System #2 was left on upon departure.

x
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 - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



323 Merrick Avenue - North Merrick, New York 11566 Tel: (516) 546-1100 Fax : (516) 213-8156

**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table January 25, 2012**

DATE: 1/25/12

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 40 Deg. Partly Cloudy

**TCE Groundwater Treatment System #1**  
pitched noise emanating from blower.

**STATUS: ON OFF** \* System shutdown since 30 September 2011 due to a high

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours - System Shut down 9-30-11  
System Running at N/A Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter F0-1 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 1/25/12

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 40 Deg. Partly Cloudy

### TCE Groundwater Treatment System #1 - System shut down 9-30-11 due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

#### Liquid Levels in Knock-Out Tanks

Comments: N/A

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*None*

## III: System Evaluation

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

DATE: 1/25/12

DAY: Wednesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 40 Deg. Partly Cloudy

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS: ON      OFF

**I: System Data Collection**

Total Run Time Meter Reading: 11,332.3 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:17	Carbon Unit Inlet	CA01	18.0	64.4	Carbon Unit #1
10:15	Pre-Heater	PHA01	28.9	84.0	After Shell and Tubing
10:16	Blower Panel	B01	68.3	155.0	Exiting Blower
10:15	After Cooler Outlet	AC01	28.3	83.0	Post Cooler Piping
10:16	Pre-Heater	PHB01	57.8	136.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
10:12	WD01	Injected Air to DDC-3	180
10:12	WD02	Injected Air to DDC-4	126

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
10:14	Knock-Out Tank	T01	-0.8 in. Hg	Vacuum gauge on knock-out tank
10:17	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
10:14	Discharge to Wells	WD2	3.2 PSI	Pressure reading on piping prior to splicing off to both wells
10:16	Blower Panel	BP01	-0.8 in. Hg	Vacuum coming off of blower
10:16	Carbon Unit #2 Outlet	CA2	-4.5 in. Hg	Vacuum exiting GAC #2
10:45	DDC-3	N/A	0.5 PSI	Pressure gauge on well head
11:00	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 1/25/12DAY: WednesdayTECHNICIAN: Thomas FitzpatrickWeather: 40 Deg. Partly Cloudy**TCE Groundwater Treatment System #2****GAC Unit Information****Influent Port GAC#1**

TIME	PID VOC ppm	Temp Deg. F
10:21	3.7	62.0

Comments: None

**Influent Port GAC#2**

TIME	PID VOC ppm	Temp Deg. F
10:30	3.7	65.8

Comments: None

**Effluent**

TIME	PID VOC ppm	Temp Deg. F
10:33	2.9	64.3

Comments: None

**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	A half an inch of water detected in this sump
DDC-4	Over 1 foot of water in this sump

**Addition Comments:**

*Water was noted to be over a foot in the sump associated with DDC-4. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contain water.*

*DDC-3 sump pump was observed to be consistently running, even if not submerged in water. Preferred attempted to troubleshoot the problem by removing the pump from the sump and inspecting the outer casing for clogs, as well as toggling the power supply. Preferred proceeded to call Rule Pumps' customer support line(1978-281-0573) and talk to Neil who instructed Preferred that the pump likely failed due to a circuitry issue. The pump is within its three (3)year warranty, so Rule Pumps will replace existing pump. The sump pump was left off, so that the motor does not burn out.*

**Liquid Levels in Knock-Out Tanks**

Comments: 5.5-inches of water was observed within site glass upon arrival.

**Oil Level on Blower**

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

**III: System Evaluation**

System is operating satisfactorily

EA recommends / implements the following....

Replace DDC-03 sump pump.

**IV: Sampling / Lab Data**

N/A



**PHOTOGRAPHIC LOG**  
**Date: 1-25-12**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 536	1/25/2012	10:15 AM	View of PHA01 temperature gauge reading 84 degrees Fahrenheit.	
Picture 539	1/25/2012	10:45 AM	The sump pump associated with DDC-3 was observed to be consistently running, even if not submerged in water.	

## Photos (1.25.12)



**Picture 536** - View of PHA01 temperature gauge reading 84 degrees Fahrenheit.



**Picture 539** - The sump pump associated with DDC-3 was observed to be consistently running, even if not submerged in water.

Project: EA Engineering and Preferred Environmental Services  
 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: 31-Jan-12  
 REPORT No. \_\_\_\_\_  
 PAGE No. 1  
 PREPARED BY: Thomas Fitzpatrick TITLE: Site Rep.

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
Thomas Fitzpatrick	Technician	9:17- 11:20	Preferred

### VISITORS

Name	Time (From - To)	Representing	Remarks
Rob Peterson	9:30 - 11:20	EA Engineering	N/A

### 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: Thomas Fitzpatrick - Preferred
<b>DESCRIPTION OF WORK PERFORMED AND OBSERVED</b>
9:17 - Preferred on-site. System #2 operating upon arrival. System #1 off since 30 September 2011.
9:19 - Start of O&M on System #2.
9:30 - Rob Peterson (EA) on-site.
9:45 - Water from DDC-3 sump was pumped out in an effort to reduce the amount of water within return pipes.
9:52 - Water from DDC-4 sump was pumped out in an effort to reduce the amount of water within return pipes.
10:01 - O&M for System #2 is complete. Preferred joined EA Engineering to assist in the O&M for the on-site SVE system.
11:20 - Preferred locked both systems and Preferred off-site. System #1 was left off, while System #2 was left on upon departure. EA remains on-site.

x
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 - Designates report is continued on additional pages

EA/Preferred Site Representative:

Thomas Fitzpatrick (Preferred)

Project Manager: James Hayward

Page 1 of 7

# EA Engineering

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



323 Merrick Avenue - North Merrick, New York 11566 Tel: (516) 546-1100 Fax : (516) 213-8156

**National Heatset Printing Site, Farmingdale, NY**

**Contract No. , Site No. 152140**

**Monitoring Table January 31, 2012**

DATE: 1/31/12

DAY: Tuesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Partly Cloudy

**TCE Groundwater Treatment System #1**

**STATUS: ON**

**OFF**

\* System shutdown since 30 September 2011 due to a high pitched noise emanating from blower.

## I: System Data Collection

Total Run Time Meter Reading: 9,126.4 hours - System Shut down 9-30-11

System Running at N/A Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
	Extracted From Well	TI-01	---	---	DDC-1
	Extracted From Well	TI-02	---	---	DDC-2
	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
	After Cooler Input	TI-06	---	---	Before Cooler Reading
	Blower Outlet	TI-07	---	---	Going to Pre-heater
	Between GAC Units	TI-08	---	---	After GAC #1
	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
	FI-01	Extracted From DDC-1	---
	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter F0-1 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
	Discharge to Well	PI-01	--- PSI	DDC-1
	Discharge to Well	PI-02	--- PSI	DDC-2
	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 1/31/12

DAY: Tuesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Partly Cloudy

### TCE Groundwater Treatment System #1 - System shut down 9-30-11 due to high pitch noise emanating from system

GAC Unit Information

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

## II: System Maintenance and Observations

#### Inspection of Water Column in DDC Wells

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

#### Inspection of Sumps Associated with DDC Wells

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

Liquid Levels in Knock-Out Tanks
Comments: N/A

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:	<i>None</i>
--------------------	-------------

## III: System Evaluation

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A
-----

DATE: 1/31/12

DAY: Tuesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Partly Cloudy

GWTT EQUIPMENT INFORMATION

TCE Groundwater Treatment System #2      STATUS: ON      OFF

**I: System Data Collection**

Total Run Time Meter Reading: 11,475.5 hours  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
9:23	Carbon Unit Inlet	CA01	25.0	77.0	Carbon Unit #1
9:22	Pre-Heater	PHA01	33.3	92.0	After Shell and Tubing
9:23	Blower Panel	B01	73.9	165.0	Exiting Blower
9:21	After Cooler Outlet	AC01	36.1	97.0	Post Cooler Piping
9:22	Pre-Heater	PHB01	65.0	149.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
9:20	WD01	Injected Air to DDC-3	168
9:20	WD02	Injected Air to DDC-4	112

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
9:21	Knock-Out Tank	T01	-0.5 in. Hg	Vacuum gauge on knock-out tank
9:24	Carbon-Unit #1 Outlet	CA1	-4.9 in. Hg	Vacuum exiting GAC #1
9:21	Discharge to Wells	WD2	3.2 PSI	Pressure reading on piping prior to splicing off to both wells
9:23	Blower Panel	BP01	-1.4 in. Hg	Vacuum coming off of blower
9:23	Carbon Unit #2 Outlet	CA2	-4.2 in. Hg	Vacuum exiting GAC #2
9:35	DDC-3	N/A	0.4 PSI	Pressure gauge on well head
9:50	DDC-4	N/A	0.4 PSI	Pressure gauge on well head

DATE: 1/31/12

DAY: Tuesday

TECHNICIAN: Thomas Fitzpatrick

Weather: 50 Deg. Partly Cloudy

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
9:26	5.8	65.4

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
9:28	5.7	68.5

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
9:30	4.1	69.7

Comments: None

## 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	Over 1 foot of water in this sump
DDC-4	Over 1 foot of water in this sump

Addition Comments:

*Water was noted to be over a foot in DDC-4 and DDC-3 sumps. Water was discharged from the sump via a whale pump. The lines leading back to the system shed most likely contain water.*

### Liquid Levels in Knock-Out Tanks

Comments: No water was observed within site glass.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation

☒ System is operating satisfactorily

☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

**PHOTOGRAPHIC LOG**  
**Date: 1-31-12**  
**EA Job No.**  
**National Heatset Printing Site**

PHOTO	DATE	TIME	DESCRIPTION	COMMENTS
Picture 528	1/31/2012	9:19 AM	System #2 was observed to be running upon arrival.	
Picture 532	1/31/2012	9:21 AM	View of T01, vacuum gauge attached to knock-out tank within System #2, reading -0.5 in.Hg.	



## Photos (1.31.12)



**Picture 528** -System #2 was observed to be running upon arrival.



**Picture 532** - View of T01, vacuum gauge attached to knock-out tank within System #2, reading -0.5 in.Hg.

**February 2012**

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
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 Date: 8-Feb-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	11:15 - 12:05	EA Engineering

### VISITORS

Name	Time (From - To)	Representing	Remarks
N/A	N/A	N/A	N/A

### 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
11:15 - Rob Peterson (EA) onsite. System #1 was left off during the O&M visit of 9-30-11.
11:25 - Start of System #2 O&M.
12:00 - System #2 O&M complete.
12:03 - System #1 still has power. System will be restarted once blower and other components have been inspected. System off since 09-30-2011.
12:05 - EA checked SVE System. System still running properly.
12:07 - EA locked all system trailers. EA off-site.

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 - Designates report is continued on additional pages

EA/Preferred Site Representative: Thomas Fitzpatrick (Preferred) Project Manager: James Hayward

Page 1 of 5

# EA Engineering

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

National Heatset Printing Site, Farmingdale, NY

Contract No. , Site No. 152140

Monitoring Table February 08, 2012

DATE: 02/08/2012

DAY: Wednesday

TECHNICIAN: Rob Peterson

Weather: 38F, Overcast

TCE Groundwater Treatment System #1 STATUS: ON OFF \*System shutdown since 30 September 2011.

## I: System Data Collection

Total Run Time Meter Reading: N/A hours - System Shut down 9-30-11

System Running at N/A Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
--	Extracted From Well	TI-01	---	---	DDC-1
--	Extracted From Well	TI-02	---	---	DDC-2
--	Pre-Heater Outlet	TI-03	---	---	Post Shell and Tubing
--	Pre-Heater Input	TI-04	---	---	Before Shell and Tubing
--	After Cooler Outlet	TI-05	---	---	Post Cooler Reading
--	After Cooler Input	TI-06	---	---	Before Cooler Reading
--	Blower Outlet	TI-07	---	---	Going to Pre-heater
--	Between GAC Units	TI-08	---	---	After GAC #1
--	GAC Unit Output	TI-09	---	---	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
--	FI-01	Extracted From DDC-1	---
--	FI-02	Extracted From DDC-2	---

Comments:

1) Flow meter F0-1 was not functioning

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
--	Discharge to Well	PI-01	--- PSI	DDC-1
--	Discharge to Well	PI-02	--- PSI	DDC-2
--	Drum	PI-03	--- in. H2O	Vacuum Reading Going to Blower

DATE: 02/08/2012

DAY: Wednesday

TECHNICIAN: Rob Peterson

Weather: 38F, Overcast

**TCE Groundwater Treatment System #1 - System shut down 9-30-11 due to high pitch noise emanating from system**

GAC Unit Information

**Influent Port**

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None.

**Between GAC Unit #1 and GAC Unit #2**

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

**Effluent Port**

TIME	PID VOC ppm	Temp Deg. F
---	---	---

Comments: None

**II: System Maintenance and Observations**

**Inspection of Water Column in DDC Wells**

Well#	Comments
DDC-1	Not inspected.
DDC-2	Not inspected.

**Inspection of Sumps Associated with DDC Wells**

Well#	Comments
DDC-1	No sump associated with this well.
DDC-2	Not inspected.

**Liquid Levels in Knock-Out Tanks**

Comments: N/A

**Oil Level on Blower**

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*None*

**III: System Evaluation**

☐ System is operating satisfactorily  
☐ EA recommends / implements the following....

--

**IV: Sampling / Lab Data**

N/A

DATE: 02/08/2012

DAY: Wednesday

TECHNICIAN: Rob Peterson

Weather: 38F. Overcast

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

### **I: System Data Collection**

Total Run Time Meter Reading: 11,669.5 hours.  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:32	Carbon Unit Inlet	CA01	19.0	66.2	Carbon Unit #1
11:34	Pre-Heater	PHA01	27.2	81.0	After Shell and Tubing
11:35	Blower Panel	B01	64.0	110.0	Exiting Blower
11:33	After Cooler Outlet	AC01	27.2	81.0	Post Cooler Piping
11:34	Pre-Heater	PHB01	56.7	134.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
11:25	WD01	Injected Air to DDC-3	170
11:25	WD02	Injected Air to DDC-4	120

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
11:31	Knock-Out Tank	T01	-0.5 in. Hg	Vacuum gauge on knock-out tank
11:33	Carbon-Unit #1 Outlet	CA1	-4.9 in. Hg	Vacuum exiting GAC #1
11:30	Discharge to Wells	WD2	3.15 PSI	Pressure reading on piping prior to splicing off to both wells
11:36	Blower Panel	BP01	-0.5 in. Hg	Vacuum coming off of blower
11:32	Carbon Unit #2 Outlet	CA2	-4.2 in. Hg	Vacuum exiting GAC #2
11:55	DDC-3	N/A	0.5 PSI	Pressure gauge on well head
12:00	DDC-4	N/A	0.5 PSI	Pressure gauge on well head

DATE: 02/08/2012

DAY: Wednesday

TECHNICIAN: Rob Peterson

Weather: 38F, Overcast

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
11:40	1.8	65.1

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
11:46	0.7	69.8

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
11:50	0.0	64.6

Comments: None

## 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	1-inch of water detected in this sump
DDC-4	5-inches of water detected in sump

Addition Comments:

*Water was discharged from DDC-4 sump via a whale pump. The lines leading back to the system shed most likely contain water.*

### Liquid Levels in Knock-Out Tanks

Comments: No water was detected within site-glass.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation



System is operating satisfactorily



EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

Project: National Heatset Printing Site - 1 Adams Boulevard, Farmingdale, NY - Site Management  
 Contractors: EA Engineering and Preferred Environmental Services  
 EA Engineering Job No: 1447429.0002.6  
 Site No: 152140  
 EA Project Manager: James Hayward

### DAILY REPORT

Day: 

S	M	T	W	TH	F	S
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 Date: 15-Feb-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 N	NW S	SE E	SW W	

### AVERAGE FIELD FORCE

Name of Contractor	Title	Hours Worked	Remarks
Rob Peterson	Geologist	12:55 - 15:30	EA Engineering

### VISITORS

Name	Time (From - To)	Representing	Remarks
Les Pennington	12:55 - 15:30	Wasatch	None

### 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
<b>DESCRIPTION OF WORK PERFORMED AND OBSERVED</b>
12:55 - Rob Peterson (EA) and Les Pennington (Wasatch) onsite. Collected baseline data from System #1 (run time meter reading, blower oil levels checked, water level measurements at DDC-1 and DDC-2 piezometers). See page 2 for baseline measurements.
13:30 - System #1 restarted. System allowed to run for 1-hour and equilibrate. During equilibration, air flow levels adjusted to achieve proper injection of air into DDC wells. Additional piezometer measurements collected to determine groundwater flow through DDC well heads.
13:50 - Start System #2 O&M.
14:35 - System #2 O&M complete. System performing satisfactory.
15:08 - Start System #1 O&M. No additional adjustments made to system. System performing satisfactory.
15:30 - O&M for both systems complete. EA locked both systems and all parties off-site.

x
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 - Designates report is continued on additional pages

EA/Preferred Site Representative: Rob Peterson (EA) Project Manager: James Hayward Page 1 of 5



# EA Engineering

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

National Heatset Printing Site, Farmingdale, NY

Contract No. , Site No. 152140

Monitoring Table February 08, 2012

DATE: 02/15/2012

DAY: Wednesday

TECHNICIAN: Rob Peterson

Weather: 45F, Overcast

TCE Groundwater Treatment System #1 STATUS: ON OFF \*System restarted.

## I: System Data Collection

Run Time Meter Reading (since last shut down): 1.3 hours \*Last shutdown on 09-30-2011

Total Run Time Meter Reading: 9127.7 hours

System Running at: 30.0 Hz

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
15:08	Extracted From Well	TI-01	10.0	50.0	DDC-1
15:08	Extracted From Well	TI-02	9.0	48.2	DDC-2
15:10	Pre-Heater Outlet	TI-03	18.0	64.4	Post Shell and Tubing
15:09	Pre-Heater Input	TI-04	10.0	50.0	Before Shell and Tubing
15:08	After Cooler Outlet	TI-05	25.0	77.0	Post Cooler Reading
15:09	After Cooler Input	TI-06	31.0	87.8	Before Cooler Reading
15:09	Blower Outlet	TI-07	41.0	105.8	Going to Pre-heater
15:12	Between GAC Units	TI-08	19.0	66.2	After GAC #1
15:12	GAC Unit Output	TI-09	17.0	62.6	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
15:13	FI-01	Extracted From DDC-1	---
15:13	FI-02	Extracted From DDC-2	190

Comments:  
1) Flow meter FI-01 not functioning. Air flow visually inspected at DDC-1 well head. Determined that DDC-1 performing satisfactory.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
15:11	Discharge to Well	PI-01	2.8 PSI	DDC-1
15:11	Discharge to Well	PI-02	2.5 PSI	DDC-2
15:10	Drum	PI-03	-30.0 in. H2O	Vacuum Reading Going to Blower

Baseline Piezometer Measurements			
Time	Well	DTW (ft)	TD (ft)
13:00	DDC-1-PD	14.09	82.85
	DDC-1-PS	14.19	27.60
13:08	DDC-2-PD	12.99	88.90
	DDC-2-PS	12.80	25.87

\*\*Baseline parameters collected prior to restart of system.

Piezometer Measurements			
Time	Well	DTW (ft)	TD (ft)
14:55	DDC-1-PD	16.28	82.85
	DDC-1-PS	10.03	27.60
15:00	DDC-2-PD	15.55	88.90
	DDC-2-PS	10.00	25.87

\*\*Measurements collected after system operated for 1-hour.

DATE: 02/15/2012

DAY: Wednesday

TECHNICIAN: Rob Peterson

Weather: 45F, Overcast

### TCE Groundwater Treatment System #1

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
15:23	14.6	64.3

Comments: Elevated PID reading due to system being off since 30 September 2011.

#### GAC Unit Information

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
15:17	0.0	69.1

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
15:20	0.0	59.3

Comments: None

## 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	~6-inches of water detected within sump.

#### Liquid Levels in Knock-Out Tanks

Comments: No water detected in K/O tanks.

#### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*System operating satisfactorily upon departure.*

## III: System Evaluation



System is operating satisfactorily

EA recommends / implements the following....

Replace FO-1 gauge, DDC-2 sump pump, K/O Pump, and three overhead lightbulbs in system trailer.

## IV: Sampling / Lab Data

N/A

DATE: 02/15/2012

DAY: Wednesday

TECHNICIAN: Rob Peterson

Weather: 45F, Overcast

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

### **I: System Data Collection**

Total Run Time Meter Reading: 11,839.9 hours.  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
13:59	Carbon Unit Inlet	CA01	19.0	66.2	Carbon Unit #1
13:57	Pre-Heater	PHA01	27.2	81.0	After Shell and Tubing
13:58	Blower Panel	B01	64.0	110.0	Exiting Blower
13:56	After Cooler Outlet	AC01	27.2	81.0	Post Cooler Piping
13:57	Pre-Heater	PHB01	56.7	134.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
13:55	WD01	Injected Air to DDC-3	170
13:55	WD02	Injected Air to DDC-4	120

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
13:56	Knock-Out Tank	T01	-0.5 in. Hg	Vacuum gauge on knock-out tank
13:59	Carbon-Unit #1 Outlet	CA1	-4.9 in. Hg	Vacuum exiting GAC #1
13:56	Discharge to Wells	WD2	3.15 PSI	Pressure reading on piping prior to splicing off to both wells
13:57	Blower Panel	BP01	-0.5 in. Hg	Vacuum coming off of blower
13:58	Carbon Unit #2 Outlet	CA2	-4.2 in. Hg	Vacuum exiting GAC #2
14:15	DDC-3	N/A	0.5 PSI	Pressure gauge on well head
14:25	DDC-4	N/A	0.5 PSI	Pressure gauge on well head

DATE: 02/15/2012

DAY: Wednesday

TECHNICIAN: Rob Peterson

Weather: 45F, Overcast

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
14:02	0.0	71.2

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
14:06	0.0	78.7

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
14:09	0.0	73.1

Comments: None

## 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	~5-inches of water detected in sump.
DDC-4	~5-inches of water detected in sump. Sump pump non-operational. See additional comments.

Addition Comments:

*Water was discharged from DDC-4 sump via a whale pump. The lines leading back to the system shed most likely contained water.*

### Liquid Levels in Knock-Out Tanks

Comments: No water was detected within site-glass.

### Oil Level on Blower

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation



System is operating satisfactorily

EA recommends / implements the following....

*Change-out of sump pump in DDC-4*

## IV: Sampling / Lab Data

N/A

Project: National Heatset Printing Site - 1 Adams Boulevard, Farmingdale, NY - Site Management  
 Contractors: EA Engineering and Preferred Environmental Services  
 EA Engineering Job No: 1447429.0002.6  
 Site No: 152140  
 EA Project Manager: James Hayward

### DAILY REPORT

Day: 

S	M	T	W	TH	F	S
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 Date: 15-Feb-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 N	NW S	SE E	SW W	

### AVERAGE FIELD FORCE

Name of Contractor	Title	Hours Worked	Remarks
Rob Peterson	Geologist	14:00 - 15:40	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
14:00 - Rob Peterson (EA) arrived onsite. System #1 and System #2 operating.
14:10 - Start System #2 O&M.
15:10 - System #2 O&M complete. System performing satisfactorily.
15:15 - Start System #1 O&M.
15:35 - System #1 O&M complete. System performing satisfactorily.
15:40 - O&M for both systems complete. EA locked both systems and all parties off-site.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative: Rob Peterson (EA)

Project Manager: James Hayward Page 1 of 5

# EA Engineering

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

National Heatset Printing Site, Farmingdale, NY

Contract No. , Site No. 152140

Monitoring Table February 08, 2012

DATE: 02/21/2012

DAY: Tuesday

TECHNICIAN: Rob Peterson

Weather: 47F, Partly Cloudy

TCE Groundwater Treatment System #1      STATUS: ON      OFF

## I: System Data Collection

Total Run Time Meter Reading: 9,273.4 hours

System Running at: 30.0 Hz

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
15:20	Extracted From Well	TI-01	14.0	57.2	DDC-1
15:20	Extracted From Well	TI-02	13.0	55.4	DDC-2
15:22	Pre-Heater Outlet	TI-03	25.0	77.0	Post Shell and Tubing
15:21	Pre-Heater Input	TI-04	16.0	60.8	Before Shell and Tubing
15:20	After Cooler Outlet	TI-05	32.0	89.6	Post Cooler Reading
15:21	After Cooler Input	TI-06	40.0	104.0	Before Cooler Reading
15:21	Blower Outlet	TI-07	51.0	123.8	Going to Pre-heater
15:22	Between GAC Units	TI-08	25.0	77.0	After GAC #1
15:23	GAC Unit Output	TI-09	24.0	75.2	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
15:18	FI-01	Extracted From DDC-1	---
15:18	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 performing satisfactory.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
15:19	Discharge to Well	PI-01	2.8 PSI	DDC-1
15:19	Discharge to Well	PI-02	2.5 PSI	DDC-2
15:22	Drum	PI-03	-40.0 in. H2O	Vacuum Reading Going to Blower

DATE: 02/21/2012

DAY: Tuesday

TECHNICIAN: Rob Peterson

Weather: 47F, Partly Cloudy

### TCE Groundwater Treatment System #1

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
15:26	2.8	76.7

Comments: None

#### GAC Unit Information

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
15:30	1.6	78.1

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
15:34	1.8	71.3

Comments: None

## 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	~5-inches 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 were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:	<b><i>Water was discharged from DDC-4 sump via a whale pump. The lines leading back to the system shed most likely contained water.</i></b>
--------------------	---

## III: System Evaluation

 System is operating satisfactorily  
EA recommends / implements the following....

*Replace FO-1 gauge, DDC-2 sump pump, K/O Pump, and three overhead lightbulbs in system trailer.*

## IV: Sampling / Lab Data

N/A

DATE: 02/21/2012

DAY: Tuesday

TECHNICIAN: Rob Peterson

Weather: 47F. Partly Cloudy

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

### **I: System Data Collection**

Total Run Time Meter Reading: 11,984.2 hours.  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
14:14	Carbon Unit Inlet	CA01	19.0	66.2	Carbon Unit #1
14:16	Pre-Heater	PHA01	30.0	86.0	After Shell and Tubing
14:17	Blower Panel	B01	70.0	158.0	Exiting Blower
14:15	After Cooler Outlet	AC01	34.4	94.0	Post Cooler Piping
14:16	Pre-Heater	PHB01	59.4	139.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
14:13	WD01	Injected Air to DDC-3	155
14:13	WD02	Injected Air to DDC-4	165

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
14:14	Knock-Out Tank	T01	-1.0 in. Hg	Vacuum gauge on knock-out tank
14:14	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
14:13	Discharge to Wells	WD2	2.6 PSI	Pressure reading on piping prior to splicing off to both wells
14:17	Blower Panel	BP01	-1.4 in. Hg	Vacuum coming off of blower
14:15	Carbon Unit #2 Outlet	CA2	-4.5 in. Hg	Vacuum exiting GAC #2
14:35	DDC-3	N/A	0.2 PSI	Pressure gauge on well head
14:40	DDC-4	N/A	0.2 PSI	Pressure gauge on well head



DATE: 02/21/2012

DAY: Tuesday

TECHNICIAN: Rob Peterson

Weather: 47F, Partly Cloudy

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
14:20	3.0	76.3

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
14:25	2.0	75.4

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
14:30	0.1	70.7

Comments: None

## 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	~5-inches of water detected in sump.
DDC-4	~7-inches of water detected in sump. Sump pump non-operational. See additional comments.

Addition Comments:

*Water was discharged from DDC-4 sump via a whale pump. The lines leading back to the system shed most likely contained water.*

Liquid Levels in Knock-Out Tanks
Comments: No water was detected within site-glass.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation



System is operating satisfactorily

EA recommends / implements the following....

*May need to replace DDC-04 sump.*

## IV: Sampling / Lab Data

N/A

**March 2012**

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
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 Date: 15-Feb-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 N	NW S	SE E	SW W	

### AVERAGE FIELD FORCE

Name of Contractor	Title	Hours Worked	Remarks
Rob Peterson	Geologist	12:20 - 14:00	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
12:20 - Rob Peterson (EA) arrived onsite. System #1 and System #2 operating.
12:25 - Start System #2 O&M.
13:00 - System #2 O&M complete. System performing satisfactorily.
13:15 - Start System #1 O&M.
13:46 - System #1 O&M complete. System performing satisfactorily.
14:00 - O&M for both systems complete. EA locked both systems and all parties off-site.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative: Rob Peterson (EA)

Project Manager: James Hayward

Page 1 of 5

# EA Engineering

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

National Heatset Printing Site, Farmingdale, NY

Contract No. , Site No. 152140

Monitoring Table February 08, 2012

DATE: 03/01/2012

DAY: Thursday

TECHNICIAN: Rob Peterson

Weather: 39F, Overcast

TCE Groundwater Treatment System #1      STATUS: ON      OFF

## I: System Data Collection

Total Run Time Meter Reading: 9,487.2 hours

System Running at: 30.0 Hz

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
13:31	Extracted From Well	TI-01	14.0	57.2	DDC-1
13:31	Extracted From Well	TI-02	13.0	55.4	DDC-2
13:33	Pre-Heater Outlet	TI-03	24.0	75.2	Post Shell and Tubing
13:32	Pre-Heater Input	TI-04	16.0	60.8	Before Shell and Tubing
13:32	After Cooler Outlet	TI-05	27.0	80.6	Post Cooler Reading
13:32	After Cooler Input	TI-06	35.0	95.0	Before Cooler Reading
13:33	Blower Outlet	TI-07	43.0	109.4	Going to Pre-heater
13:34	Between GAC Units	TI-08	24.0	75.2	After GAC #1
13:34	GAC Unit Output	TI-09	24.0	75.2	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
13:30	FI-01	Extracted From DDC-1	---
13:30	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.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
15:19	Discharge to Well	PI-01	2.3 PSI	DDC-1
15:19	Discharge to Well	PI-02	2.5 PSI	DDC-2
15:22	Drum	PI-03	-28.0 in. H2O	Vacuum Reading Going to Blower

DATE: 03/01/2012

DAY: Thursday

TECHNICIAN: Rob Peterson

Weather: 39F, Overcast

### TCE Groundwater Treatment System #1

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
13:38	0.6	71.7

Comments: None

#### GAC Unit Information

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
13:43	0.0	65.6

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
13:46	0.0	64.7

Comments: None

## 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	~8-inches 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 were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:	<i>Water was discharged from DDC-2 sump via a whale pump. The lines leading back to the system shed most likely contain water.</i>
--------------------	--

## III: System Evaluation

☒ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A
-----

DATE: 03/01/2012

DAY: Thursday

TECHNICIAN: Rob Peterson

Weather: 39F. Overcast

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

### **I: System Data Collection**

Total Run Time Meter Reading: 12,198.4 hours.  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
12:27	Carbon Unit Inlet	CA01	25.0	77.0	Carbon Unit #1
12:31	Pre-Heater	PHA01	31.7	89.0	After Shell and Tubing
12:32	Blower Panel	B01	71.0	159.8	Exiting Blower
12:31	After Cooler Outlet	AC01	30.6	87.0	Post Cooler Piping
12:32	Pre-Heater	PHB01	60.6	141.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
12:26	WD01	Injected Air to DDC-3	150
12:26	WD02	Injected Air to DDC-4	150

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
12:28	Knock-Out Tank	T01	-1.0 in. Hg	Vacuum gauge on knock-out tank
12:27	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
12:28	Discharge to Wells	WD2	2.6 PSI	Pressure reading on piping prior to splicing off to both wells
12:33	Blower Panel	BP01	-1.5 in. Hg	Vacuum coming off of blower
12:28	Carbon Unit #2 Outlet	CA2	-4.5 in. Hg	Vacuum exiting GAC #2
12:44	DDC-3	N/A	0.2 PSI	Pressure gauge on well head
12:47	DDC-4	N/A	0.2 PSI	Pressure gauge on well head

DATE: 03/01/2012

DAY: Thursday

TECHNICIAN: Rob Peterson

Weather: 39F, Overcast

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
12:34	0.0	66.0

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
12:37	0.0	64.6

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
12:40	0.0	65.8

Comments: None

## 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	~5-inches of water detected in sump.
DDC-4	~6-inches of water detected in sump. Sump pump non-operational. See additional comments.

Addition Comments:

*Water was discharged from DDC-4 and DDC-3 sumps via a whale pump. The lines leading back to the system shed most likely contain water.*

Liquid Levels in Knock-Out Tanks
Comments: No water was detected within site-glass.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation

☒ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A
-----

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
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 Date: 7-Mar-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	11:30 - 12:56	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
11:30 - Rob Peterson (EA) arrived onsite. System #1 and System #2 operating. EA begins pumping water from DDC-2, DDC-3, and DDC-4 sumps via whale pump.
12:20 - Start System #2 O&M.
12:37 - System #2 O&M complete. System performing satisfactorily.
12:42 - Start System #1 O&M.
12:54 - System #1 O&M complete. System performing satisfactorily.
12:56 - O&M for both systems complete. EA locked both systems and all parties off-site.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative: Rob Peterson (EA)

Project Manager: James Hayward

Page 1 of 5



# EA Engineering

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

National Heatset Printing Site, Farmingdale, NY

Contract No. , Site No. 152140

Monitoring Table February 08, 2012

DATE: 03/07/2012

DAY: Wednesday

TECHNICIAN: Rob Peterson

Weather: 50F, Sunny

TCE Groundwater Treatment System #1 STATUS: ON OFF

## I: System Data Collection

Total Run Time Meter Reading: 9,629.9 hours

System Running at: 30.0 Hz

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
12:44	Extracted From Well	TI-01	15.0	59.0	DDC-1
12:44	Extracted From Well	TI-02	14.0	57.2	DDC-2
12:45	Pre-Heater Outlet	TI-03	26.0	78.8	Post Shell and Tubing
12:44	Pre-Heater Input	TI-04	17.0	62.6	Before Shell and Tubing
12:44	After Cooler Outlet	TI-05	33.0	91.4	Post Cooler Reading
12:45	After Cooler Input	TI-06	39.0	102.2	Before Cooler Reading
12:45	Blower Outlet	TI-07	49.0	120.2	Going to Pre-heater
12:46	Between GAC Units	TI-08	26.0	78.8	After GAC #1
12:46	GAC Unit Output	TI-09	25.0	77.0	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
12:43	FI-01	Extracted From DDC-1	---
12:43	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.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
12:43	Discharge to Well	PI-01	2.4 PSI	DDC-1
12:43	Discharge to Well	PI-02	2.4 PSI	DDC-2
12:46	Drum	PI-03	-31.0 in. H2O	Vacuum Reading Going to Blower

DATE: 03/07/2012

DAY: Wednesday

TECHNICIAN: Rob Peterson

Weather: 50F, Sunny

### TCE Groundwater Treatment System #1

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
12:48	1.7	77.2

Comments: None

#### GAC Unit Information

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
12:51	0.0	76.5

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
12:54	0.0	73.7

Comments: None

## 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	~8-inches 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 were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:	<i>Water was discharged from DDC-2 sump via a whale pump. The lines leading back to the system shed most likely contain water.</i>
--------------------	--

## III: System Evaluation

☒ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A
-----

DATE: 03/07/2012

DAY: Wednesday

TECHNICIAN: Rob Peterson

Weather: 50F. Sunny

TCE Groundwater Treatment System #2      STATUS: ON      OFF

### I: System Data Collection

Total Run Time Meter Reading: 12,342.2 hours.  
System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
12:22	Carbon Unit Inlet	CA01	19.0	66.2	Carbon Unit #1
12:24	Pre-Heater	PHA01	29.4	85.0	After Shell and Tubing
12:25	Blower Panel	B01	65.0	149.0	Exiting Blower
12:24	After Cooler Outlet	AC01	32.2	90.0	Post Cooler Piping
12:25	Pre-Heater	PHB01	55.6	132.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
12:21	WD01	Injected Air to DDC-3	157
12:21	WD02	Injected Air to DDC-4	175

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
12:23	Knock-Out Tank	T01	-1.0 in. Hg	Vacuum gauge on knock-out tank
12:22	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
12:23	Discharge to Wells	WD2	2.4 PSI	Pressure reading on piping prior to splicing off to both wells
12:25	Blower Panel	BP01	-1.0 in. Hg	Vacuum coming off of blower
12:24	Carbon Unit #2 Outlet	CA2	-4.5 in. Hg	Vacuum exiting GAC #2
12:34	DDC-3	N/A	0.2 PSI	Pressure gauge on well head
12:36	DDC-4	N/A	0.2 PSI	Pressure gauge on well head

DATE: 03/07/2012

DAY: Wednesday

TECHNICIAN: Rob Peterson

Weather: 50F, Sunny

## TCE Groundwater Treatment System #2

### GAC Unit Information

#### Influent Port GAC#1

TIME	PID VOC ppm	Temp Deg. F
12:27	0.0	68.8

Comments: None

#### Influent Port GAC#2

TIME	PID VOC ppm	Temp Deg. F
12:29	0.0	67.6

Comments: None

#### Effluent

TIME	PID VOC ppm	Temp Deg. F
12:31	0.0	66.5

Comments: None

## 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	~7-inches of water detected in sump. Sump pump non-operational. See additional comments.
DDC-4	~8-inches of water detected in sump. Sump pump non-operational. See additional comments.

Addition Comments:

*Water was discharged from DDC-4 and DDC-3 sumps via a whale pump. The lines leading back to the system shed most likely contain water.*

Liquid Levels in Knock-Out Tanks
Comments: No water was detected within site-glass.

Oil Level on Blower
Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

## III: System Evaluation

☒ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A
-----

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
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 Date: 15-Mar-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	10:00 - 11:40	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
10:00 - Rob Peterson (EA) arrived onsite. System #1 and System #2 off upon arrival. EA begins pumping water from DDC-2, DDC-3, and DDC-4 sumps via whale pump.
10:43 - System #2 Alarm: Momentary Power Loss. System reset and restarted. System allowed to equilibrate for 20-minutes before conducting O&M.
10:52 - System #1 Alarm: Instrument Power Loss. System reset and restarted. System allowed to equilibrate for 20-minutes before conducting O&M.
EA concluded that both systems shutdown due to power failure in area on 14 March 2012.
11:05 - Start System #2 O&M.
11:22 - System #2 O&M complete. System performing satisfactorily.
11:25 - Start System #1 O&M.
11:35 - System #1 O&M complete. System performing satisfactorily.
11:40 - O&M for both systems complete. EA locked both systems and all parties off-site.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative: Rob Peterson (EA)

Project Manager: James Hayward

Page 1 of 5

# EA Engineering

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

National Heatset Printing Site, Farmingdale, NY

Contract No. , Site No. 152140

Monitoring Table February 08, 2012

DATE: 03/15/2012

DAY: Thursday

TECHNICIAN: Rob Peterson

Weather: 45F, Overcast

TCE Groundwater Treatment System #1 STATUS: ON OFF \*\*System off upon arrival (Alarm: Momentary Power Loss). System shutdown on 14 March 2012. System reset and restarted. System allowed to equilibrate for 20-minutes before conducting O&M.

## I: System Data Collection

Total Run Time Meter Reading: 9,818.8 hours

System Running at: 30.0 Hz

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:26	Extracted From Well	TI-01	12.0	53.6	DDC-1
11:26	Extracted From Well	TI-02	13.0	55.4	DDC-2
11:28	Pre-Heater Outlet	TI-03	18.0	64.4	Post Shell and Tubing
11:27	Pre-Heater Input	TI-04	12.0	53.6	Before Shell and Tubing
11:26	After Cooler Outlet	TI-05	18.0	64.4	Post Cooler Reading
11:27	After Cooler Input	TI-06	26.0	78.8	Before Cooler Reading
11:28	Blower Outlet	TI-07	35.0	95.0	Going to Pre-heater
11:29	Between GAC Units	TI-08	19.0	66.2	After GAC #1
11:29	GAC Unit Output	TI-09	16.0	60.8	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
11:25	FI-01	Extracted From DDC-1	---
11:25	FI-02	Extracted From DDC-2	195

Comments:

1) Flow meter F0-1 not functioning. Air flow visually inspected at DDC-1 well head. Determined that DDC-1 bubbling sufficiently.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
11:25	Discharge to Well	PI-01	2.5 PSI	DDC-1
11:25	Discharge to Well	PI-02	2.4 PSI	DDC-2
11:28	Drum	PI-03	-32.0 in. H2O	Vacuum Reading Going to Blower

DATE: 03/15/2012

DAY: Thursday

TECHNICIAN: Rob Peterson

Weather: 45F, Overcast

### TCE Groundwater Treatment System #1

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
11:31	2.8	67.2

Comments: None

#### GAC Unit Information

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
11:33	0.0	69.5

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
11:35	0.0	60.7

Comments: None

## 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	~1.5-feet 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 were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*Water was discharged from DDC-2 sump via a whale pump. The lines leading back to the system shed most likely contain water.*

## III: System Evaluation

☒ System is operating satisfactorily  
☐ EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

DATE: 03/15/2012

DAY: Thursday

TECHNICIAN: Rob Peterson

Weather: 45F. Overcast

**TCE Groundwater Treatment System #2      STATUS:   ON      OFF    \*\*System off upon arrival (Alarm: Momentary Power Loss). System shutdown on 14 March 2012. System reset and restarted. System allowed to equilibrate for 20-minutes before conducting O&M.**

## I: System Data Collection

Total Run Time Meter Reading: 12,516.2 hours.

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:05	Carbon Unit Inlet	CA01	14.0	57.2	Carbon Unit #1
11:07	Pre-Heater	PHA01	22.2	72.0	After Shell and Tubing
11:08	Blower Panel	B01	55.0	131.0	Exiting Blower
11:06	After Cooler Outlet	AC01	24.4	76.0	Post Cooler Piping
11:07	Pre-Heater	PHB01	46.1	115.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
11:05	WD01	Injected Air to DDC-3	157
11:05	WD02	Injected Air to DDC-4	157

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
11:06	Knock-Out Tank	T01	-0.5 in. Hg	Vacuum gauge on knock-out tank
11:05	Carbon-Unit #1 Outlet	CA1	-5.0 in. Hg	Vacuum exiting GAC #1
11:06	Discharge to Wells	WD2	2.5 PSI	Pressure reading on piping prior to splicing off to both wells
11:08	Blower Panel	BP01	-0.5 in. Hg	Vacuum coming off of blower
11:06	Carbon Unit #2 Outlet	CA2	-4.5 in. Hg	Vacuum exiting GAC #2
11:20	DDC-3	N/A	0.0 PSI	Pressure gauge on well head
11:22	DDC-4	N/A	0.0 PSI	Pressure gauge on well head



DATE: 03/15/2012DAY: ThursdayTECHNICIAN: Rob PetersonWeather: 45F, Overcast**TCE Groundwater Treatment System #2****GAC Unit Information****Influent Port GAC#1**

TIME	PID VOC ppm	Temp Deg. F
11:10	0.0	65.1

Comments: None

**Influent Port GAC#2**

TIME	PID VOC ppm	Temp Deg. F
11:13	0.0	66.2

Comments: None

**Effluent**

TIME	PID VOC ppm	Temp Deg. F
11:16	0.0	61.3

Comments: None

**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	~3-inches of water detected in sump. Sump pump non-operational. See additional comments.
DDC-4	~8-inches of water detected in sump. Sump pump non-operational. See additional comments.

Addition Comments:

*Water was discharged from DDC-4 and DDC-3 sumps via a whale pump. The lines leading back to the system shed most likely contain water.*

**Liquid Levels in Knock-Out Tanks**

Comments: No water was detected within site-glass.

**Oil Level on Blower**

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

**III: System Evaluation**

System is operating satisfactorily



EA recommends / implements the following....

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**IV: Sampling / Lab Data**

N/A

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
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 Date: 21-Mar-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	10:30 - 11:30	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
10:30 - Rob Peterson (EA) arrived onsite. System #1 and System #2 operating upon arrival. EA begins pumping water from DDC-2, DDC-3, and DDC-4 sumps via whale pump.
10:48 - Start System #2 O&M.
11:08 - System #2 O&M complete. System performing satisfactorily.
11:11 - Start System #1 O&M.
11:25 - System #1 O&M complete. System performing satisfactorily.
11:30 - O&M for both systems complete. EA locked both systems and all parties off-site.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative: Rob Peterson (EA)

Project Manager: James Hayward

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# EA Engineering

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

National Heatset Printing Site, Farmingdale, NY

Contract No. , Site No. 152140

Monitoring Table March 21, 2012

DATE: 03/21/2012

DAY: Wednesday

TECHNICIAN: Rob Peterson

Weather: 55F, Partly Cloudy

TCE Groundwater Treatment System #1 STATUS: ON OFF

## I: System Data Collection

Total Run Time Meter Reading: 9,963.0 hours

System Running at: 30.0 Hz

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:13	Extracted From Well	TI-01	15.0	59.0	DDC-1
11:13	Extracted From Well	TI-02	16.0	60.8	DDC-2
11:15	Pre-Heater Outlet	TI-03	24.0	75.2	Post Shell and Tubing
11:14	Pre-Heater Input	TI-04	17.0	62.6	Before Shell and Tubing
11:14	After Cooler Outlet	TI-05	25.0	77.0	Post Cooler Reading
11:14	After Cooler Input	TI-06	36.0	96.8	Before Cooler Reading
11:14	Blower Outlet	TI-07	46.0	114.8	Going to Pre-heater
11:15	Between GAC Units	TI-08	23.0	73.4	After GAC #1
11:15	GAC Unit Output	TI-09	24.0	75.2	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
11:11	FI-01	Extracted From DDC-1	---
11:11	FI-02	Extracted From DDC-2	200

Comments:

1) Flow meter F0-1 not functioning. Air flow visually inspected at DDC-1 well head. Determined that DDC-1 bubbling sufficiently.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
11:13	Discharge to Well	PI-01	2.5 PSI	DDC-1
11:13	Discharge to Well	PI-02	2.5 PSI	DDC-2
11:14	Drum	PI-03	-31.0 in. H2O	Vacuum Reading Going to Blower

DATE: 03/21/2012

DAY: Wednesday

TECHNICIAN: Rob Peterson

Weather: 55F, Partly Cloudy

### TCE Groundwater Treatment System #1

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
11:17	2.8	78.1

Comments: None

#### GAC Unit Information

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
11:20	2.1	71.4

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
11:23	0.0	67.5

Comments: None

## 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	~7-inches 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 were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:	<i>Water was discharged from DDC-2 sump via a whale pump. The lines leading back to the system shed most likely contain water.</i>
--------------------	--

## III: System Evaluation

☒ System is operating satisfactorily  
☐ EA recommends / implements the following....

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## IV: Sampling / Lab Data

N/A
-----

DATE: 03/21/2012

DAY: Wednesday

TECHNICIAN: Rob Peterson

Weather: 55F. Partly Cloudy

TCE Groundwater Treatment System #2      STATUS: ON      OFF

### I: System Data Collection

Total Run Time Meter Reading: 12,660.1 hours.

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:51	Carbon Unit Inlet	CA01	25.0	77.0	Carbon Unit #1
10:52	Pre-Heater	PHA01	32.2	90.0	After Shell and Tubing
10:52	Blower Panel	B01	70.0	158.0	Exiting Blower
10:51	After Cooler Outlet	AC01	33.9	93.0	Post Cooler Piping
10:52	Pre-Heater	PHB01	60.0	140.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
10:49	WD01	Injected Air to DDC-3	150
10:49	WD02	Injected Air to DDC-4	158

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
10:50	Knock-Out Tank	T01	0.0 in. Hg	Vacuum gauge on knock-out tank
10:50	Carbon-Unit #1 Outlet	CA1	-4.5 in. Hg	Vacuum exiting GAC #1
10:49	Discharge to Wells	WD2	2.5 PSI	Pressure reading on piping prior to splicing off to both wells
10:53	Blower Panel	BP01	-1.3 in. Hg	Vacuum coming off of blower
10:51	Carbon Unit #2 Outlet	CA2	-4.0 in. Hg	Vacuum exiting GAC #2
11:05	DDC-3	N/A	0.1 PSI	Pressure gauge on well head
11:08	DDC-4	N/A	0.1 PSI	Pressure gauge on well head

DATE: 03/21/2012DAY: WednesdayTECHNICIAN: Rob PetersonWeather: 55F, Partly Cloudy**TCE Groundwater Treatment System #2****GAC Unit Information****Influent Port GAC#1**

TIME	PID VOC ppm	Temp Deg. F
10:05	0.3	72.5

Comments: None

**Influent Port GAC#2**

TIME	PID VOC ppm	Temp Deg. F
10:58	1.8	72.5

Comments: None

**Effluent**

TIME	PID VOC ppm	Temp Deg. F
11:00	1.5	74.9

Comments: None

**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	~3-inches of water detected in sump. Sump pump non-operational. See additional comments.
DDC-4	~8-inches of water detected in sump. Sump pump non-operational. See additional comments.

Addition Comments:

*Water was discharged from DDC-4 and DDC-3 sumps via a whale pump. The lines leading back to the system shed most likely contain water.*

**Liquid Levels in Knock-Out Tanks**

Comments: No water was detected within site-glass.

**Oil Level on Blower**

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

**III: System Evaluation**

System is operating satisfactorily



EA recommends / implements the following....

**IV: Sampling / Lab Data**

N/A

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
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 Date: 29-Mar-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	10:25 - 11:25	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
10:25 - Rob Peterson (EA) arrived onsite. System #1 and System #2 operating upon arrival. EA begins pumping water from DDC-2, DDC-3, and DDC-4 sumps via whale pump.
10:44 - Start System #2 O&M.
11:03 - System #2 O&M complete. System performing satisfactorily.
11:10 - Start System #1 O&M.
11:22 - System #1 O&M complete. System performing satisfactorily.
11:25 - O&M for both systems complete. EA locked both systems and all parties off-site.

☒ - Designates report is continued on additional pages

EA/Preferred Site Representative: Rob Peterson (EA)

Project Manager: James Hayward

Page 1 of 5

# EA Engineering

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

National Heatset Printing Site, Farmingdale, NY

Contract No. , Site No. 152140

Monitoring Table March 25, 2012

DATE: 03/25/2012

DAY: Thursday

TECHNICIAN: Rob Peterson

Weather: 45F, Partly Cloudy

TCE Groundwater Treatment System #1 STATUS: ON OFF

## I: System Data Collection

Total Run Time Meter Reading: 10,154.9 hours

System Running at: 30.0 Hz

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
11:12	Extracted From Well	TI-01	17.0	62.6	DDC-1
11:12	Extracted From Well	TI-02	17.0	62.6	DDC-2
11:14	Pre-Heater Outlet	TI-03	28.0	82.4	Post Shell and Tubing
11:12	Pre-Heater Input	TI-04	19.0	66.2	Before Shell and Tubing
11:12	After Cooler Outlet	TI-05	35.0	95.0	Post Cooler Reading
11:13	After Cooler Input	TI-06	40.0	104.0	Before Cooler Reading
11:13	Blower Outlet	TI-07	50.0	122.0	Going to Pre-heater
11:14	Between GAC Units	TI-08	28.0	82.4	After GAC #1
11:14	GAC Unit Output	TI-09	27.0	80.6	After GAC #2

Flow Readings			
Time	IF-ID	Location	Flow (SCFM)
11:11	FI-01	Extracted From DDC-1	---
11:11	FI-02	Extracted From DDC-2	200

Comments:

1) Flow meter F0-1 not functioning. Air flow visually inspected at DDC-1 well head. Determined that DDC-1 bubbling sufficiently.

Pressure/Vacuum Monitoring				
Time	Location	PI/VI-ID	Pressure	Comments
11:11	Discharge to Well	PI-01	2.2 PSI	DDC-1
11:11	Discharge to Well	PI-02	2.2 PSI	DDC-2
11:13	Drum	PI-03	-29.0 in. H2O	Vacuum Reading Going to Blower



DATE: 03/29/2012

DAY: Thursday

TECHNICIAN: Rob Peterson

Weather: 45F, Partly Cloudy

### TCE Groundwater Treatment System #1

#### Influent Port

TIME	PID VOC ppm	Temp Deg. F
11:16	3.5	79.8

Comments: None

#### GAC Unit Information

#### Between GAC Unit #1 and GAC Unit #2

TIME	PID VOC ppm	Temp Deg. F
11:19	1.2	70.8

Comments: None

#### Effluent Port

TIME	PID VOC ppm	Temp Deg. F
11:22	0.0	66.3

Comments: None

## 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	~3-inches 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 were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

Addition Comments:

*Water was discharged from DDC-2 sump via a whale pump. The lines leading back to the system shed most likely contain water.*

## III: System Evaluation



System is operating satisfactorily



EA recommends / implements the following....

## IV: Sampling / Lab Data

N/A

DATE: 03/29/2012

DAY: Thursday

TECHNICIAN: Rob Peterson

Weather: 45F. Partly Cloudy

TCE Groundwater Treatment System #2      STATUS: ON      OFF

### I: System Data Collection

Total Run Time Meter Reading: 12,852.0 hours.

System Running at 41.0 Hz.

Temperature Monitoring					
Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
10:46	Carbon Unit Inlet	CA01	19.0	66.2	Carbon Unit #1
10:47	Pre-Heater	PHA01	29.4	85.0	After Shell and Tubing
10:48	Blower Panel	B01	56.0	132.8	Exiting Blower
10:46	After Cooler Outlet	AC01	31.1	88.0	Post Cooler Piping
10:47	Pre-Heater	PHB01	57.2	135.0	Before Shell and Tubing

Flow Readings			
Time	TI-ID	Location	Flow (CFM)
10:45	WD01	Injected Air to DDC-3	150
10:45	WD02	Injected Air to DDC-4	158

Comments: None

Pressure/Vacuum Monitoring				
Time	Location	TI-ID	Pressure	Comments
10:45	Knock-Out Tank	T01	0.0 in. Hg	Vacuum gauge on knock-out tank
10:46	Carbon-Unit #1 Outlet	CA1	-4.5 in. Hg	Vacuum exiting GAC #1
10:45	Discharge to Wells	WD2	2.5 PSI	Pressure reading on piping prior to splicing off to both wells
10:48	Blower Panel	BP01	-1.0 in. Hg	Vacuum coming off of blower
10:46	Carbon Unit #2 Outlet	CA2	-4.0 in. Hg	Vacuum exiting GAC #2
10:59	DDC-3	N/A	0.0 PSI	Pressure gauge on well head
11:03	DDC-4	N/A	0.0 PSI	Pressure gauge on well head

DATE: 03/29/2012DAY: ThursdayTECHNICIAN: Rob PetersonWeather: 45F, Partly Cloudy**TCE Groundwater Treatment System #2****GAC Unit Information****Influent Port GAC#1**

TIME	PID VOC ppm	Temp Deg. F
10:50	0.0	66.2

Comments: None

**Influent Port GAC#2**

TIME	PID VOC ppm	Temp Deg. F
10:53	0.0	66.6

Comments: None

**Effluent**

TIME	PID VOC ppm	Temp Deg. F
10:56	0.0	68.2

Comments: None

**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	~3-inches of water detected in sump. Sump pump non-operational. See additional comments.
DDC-4	~7-inches of water detected in sump. Sump pump non-operational. See additional comments.

Addition Comments:

*Water was discharged from DDC-4 and DDC-3 sumps via a whale pump. The lines leading back to the system shed most likely contain water.***Liquid Levels in Knock-Out Tanks**

Comments: No water was detected within site-glass.

**Oil Level on Blower**

Comments: Oil levels were good. Oil was changed on 8/17/11 with Omega SB-220 oil.

**III: System Evaluation**

System is operating satisfactorily



EA recommends / implements the following....

**IV: Sampling / Lab Data**

N/A