



TETRA TECH FW, INC.

5 March 2004  
RAC II-2004-029

Ms. Sharon Trocher  
Work Assignment Manager  
U.S. Environmental Protection Agency  
290 Broadway, 20<sup>th</sup> Floor  
New York, NY 10007-1866

**SUBJECT: USEPA RAC II CONTRACT NUMBER 68-W-98-214  
WORK ASSIGNMENT NUMBER 109-RALR-0238  
VESTAL WATER SUPPLY WELL, OPERABLE UNIT 1  
DECEMBER 2003 PERFORMANCE MONITORING REPORT**

Dear Ms. Trocher:

I am pleased to provide the December 2003 Monthly Performance Monitoring Report for the Vestal Water Supply Well treatment facility.

#### **A. Monthly Operations**

The treatment system at the Vestal Water Supply Well operated continuously during the month of December. The Monthly Operating Report submitted by the Long Term Response Subcontractor, Aguilar Environmental, Inc., is included in Attachment 1. A summary of the operation and maintenance activities performed during December is as follows:

- Routine cleaning and inspections of the facility were performed;
- Air filters were replaced;
- The liquid in the wastewater underground storage tank (UST) was removed and disposed of at Clean Water of New York; and
- The monthly influent and effluent samples were collected.

#### **B. Approximate Volumes of Groundwater Treated**

The following volumes of groundwater have been treated at the Vestal Water Supply treatment facility:

- Volume of groundwater treated during December 2003 (31 days at 50%) = 25.7 million gallons.
- Cumulative volume of groundwater treated for the year 2003 = 335.4 million gallons.
- Cumulative volume of groundwater treated for the OU-1 = 2419.6 million gallons.



### C. Comparison of Groundwater Influent and Effluent Concentration with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of December 2003 are included in Attachment 2. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

<u>Compound</u>	<u>Influent (ug/L)</u>	<u>Effluent (ug/L)</u>	<u>Discharge Criteria (ug/L)</u>
Vinyl Chloride	1.2	0.5 U	2
Chloroethane	0.7	0.5 U	
1,1-Dichloroethene*	1.4	0.5 U	5
1,1,2 Trichloro-1,2,2-Trifluoroethane	2.4	0.5 U	
Trans 1,2-Dichloroethene*	0.5 U	0.5 U	5
Methyl Tert-Butyl Ether	1.6	1.0	
1,1-Dichloroethane*	1.7	0.5 U	5
Cis-1,2-Dichloroethene	4.1	0.5 U	5
Chloroform*	0.5 U	0.5 U	7
1,1,1-Trichloroethane*	8.9	0.5 U	5
Trichloroethene*	3.2	0.5 U	5
Total Volatile Organics*	196.3	1.0	100

Note: \* = Site Contaminant of Concern, and U = below reporting limit.

### D. Next Month's Activities

The following activities are planned for January 2004:

- Finish repairs on pump control valve
- Routine system maintenance.

### E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded that the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8197 if you should have any questions.

Sincerely,

  
Heidmarie Roldan  
Project Manager

Attachments

cc: K. Moncino (EPA)  
M. Dunham (NYSDEC)

**ATTACHMENT 1**



# **AGUILAR ENVIRONMENTAL, INC.**

919 Highway 33 - #47, Freehold, New Jersey 07728 • (732) 294-9980 • Fax (732) 294-9939

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**DECEMBER 2003**

## **MONTHLY OPERATING REPORT**

for

## **OPERATION & MAINTENANCE**

at

**VESTAL WELL 1-1 SITE  
VESTAL, NEW YORK**

Prepared for

**TETRA TECH FW, INC.**  
1000 The American Road  
Morris Plains, New Jersey 07950

**SUBCONTRACT #15623**

Prepared by

**AGUILAR ENVIRONMENTAL, INC.**  
919 Highway 33, Suite #47  
Freehold, New Jersey 07728



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### **APPENDICES**

Appendix A - Copy of Log

Appendix B - Weekly Health and Safety Inspection Forms

## **1.0 INTRODUCTION**

The treatment system at Vestal Well 1-1 has operated continuously for the month of December. The cathodic protection system operated without problems. Cathodix Inc. Has not yet sent the recorder previously talked about to collect the data. The pump control valve still needs additional repair. Estimated date for this project is yet to be determined.

## **2.0 MONTHLY OPERATIONS**

The following work took place:

- Routine site inspections of the facility.
- Changed blower room filters
- Snow shoveled
- Old pump house cleaned and swept
- Inspected level of UST - full.
- Monthly sampling with Simon.

## **3.0 REPAIR WORK**

All repair work that took place was mentioned above.

## **4.0 PROPOSED WORK**

- Finish pump control valve
- Paint piping in stripper/blower building (after repair work is complete)

## **5.0 RECOMMENDATIONS**

It is recommended that the following be acted upon by Foster Wheeler.

1. Pursue getting approval to turn off high service pump

**APPENDIX A**  
**COPY OF LOG**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
November 2003

**AGUILAR ENVIRONMENTAL, INC.**

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919 Highway 33 - #47, Freehold, New Jersey 07728 ■ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939

# 1-7 DECEMBER

NOVEMBER 2003							DECEMBER 2003							JANUARY 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
21	22	23	24	25	26	27	28	29	30	31				1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30																			

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

## 1 Monday 335-030

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*No Visit*

## 2 Tuesday 336-029

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*picked up Big Branches  
that were from stem  
blew up against  
Everything Fine*

## 3 Wednesday 337-028

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*No Visit*

# 2003 1-7 DECEMBER

FEBRUARY 2004							MARCH 2004							APRIL 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31											

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

## 4 Thursday 338-027

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*Weekly Health & Safety Inspection*

## 5 Friday 339-026

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*No Visit*

## 6 Saturday 340-025

AM	PM
AM	PM
AM	PM
AM	PM
AM	PM
AM	PM

*No Visit*

## 7 Sunday 341-024

AM	PM
AM	PM
AM	PM
AM	PM
AM	PM
AM	PM

*Shovelled Snow*

STAPLES

# 8-14 DECEMBER WEEK 50

NOVEMBER 2003							DECEMBER 2003							JANUARY 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31					29	30	31				

GOALS: \_\_\_\_\_ INSPIRATIONS: \_\_\_\_\_ NOTES: \_\_\_\_\_

**8 Monday** 342-023

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**9 Tuesday** 343-022

7:00	Visited Site	1:00
8:00	All O.K.	2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**10 Wednesday** 344-021

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

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# 2003 8-14 DECEMBER

FEBRUARY 2004							MARCH 2004							APRIL 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30						29	30	31					29	30	31				

GOALS: \_\_\_\_\_ INSPIRATIONS: \_\_\_\_\_ NOTES: \_\_\_\_\_

**11 Thursday** 345-020

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**12 Friday** 346-019 Our Lady of Guadalupe's Day (Mexico)

7:00	Met w/ Simon	1:00
8:00	Changed Blower Beckm Filters	2:00
9:00	used Old Filters that I dusted off	3:00
10:00		4:00
11:00		5:00
12:00		6:00

**13 Saturday** 347-018

AM	No Visit	PM
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**14 Sunday** 348-017

AM	Weekly health & Safety Inspection	PM
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**STAPLES**

**15-21 DECEMBER**

**WEEK 51**

NOVEMBER 2003							DECEMBER 2003							JANUARY 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31													

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**15 Monday** 349-016

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**16 Tuesday** 350-015

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**17 Wednesday** 351-014

7:00	Shovelled Snow	1:00
8:00	Fixed back on Well house → ring	
9:00	↳ back froze up.	
10:00		4:00
11:00		5:00
12:00		6:00

**2003** **15-21 DECEMBER**

FEBRUARY 2004							MARCH 2004							APRIL 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30	31										

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**18 Thursday** 352-013

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**19 Friday** 353-012

7:00	Weekly Health & Safety Inspections	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**20 Saturday** 354-011

AM	No Visit	PM

**21 Sunday** 355-010

AM	No Visit	PM

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**STAPLES**

# 22-28 DECEMBER

# WEEK 52

NOVEMBER 2003							DECEMBER 2003							JANUARY 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30	31			1	2	3	4	5	6	7	

GOALS

INSPIRATIONS

NOTES

## 22 Monday

356-009

Winter Begins

7:00	Begin cleaning house	1:00
8:00	New pump house	
9:00	straighten up & cleaned	
10:00	strainers	
11:00	Everything fine	
12:00		

## 23 Tuesday

357-008

7:00	No visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

## 24 Wednesday

358-007

7:00	Old Pump house	1:30
8:00	- garbage Remintu removed	
9:00	- Swept floors	
10:00		4:00
11:00		5:00
12:00		6:30

# 2003

# 22-28 DECEMBER

FEBRUARY 2004							MARCH 2004							APRIL 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30	31			1	2	3	4	5	6	7	

GOALS

INSPIRATIONS

NOTES

## 25 Thursday

359-006

Christmas Day

7:00	No visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

## 26 Friday

360-005

Boxing Day (Canada & UK)

7:00		1:00
8:00	Weekly Health & Safety Inspection	3:00
9:00		4:00
10:00		5:00
11:00		6:00
12:00		7:00

## 27 Saturday

361-004

AM	No visit	PM
----	----------	----

## 28 Sunday

362-003

AM	No visit	PM
----	----------	----

354285

# 29 DECEMBER-4 JANUARY WEEK 1

DECEMBER 2003							JANUARY 2004							FEBRUARY 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7

GOALS INSPIRATIONS NOTES

## 29 Monday 363-002

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*Visited site  
Every thing  
Fine*

## 30 Tuesday 364-001

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*No visit*

## 31 Wednesday 365-000

		New Year's Eve
7:00	1:00	
8:00	2:00	
9:00	3:00	
10:00	4:00	
11:00	5:00	
12:00	6:00	

*No visit*





## **APPENDIX B**

# **WEEKLY HEALTH & SAFETY INSPECTION FORMS**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
November 2003

**AGUILAR ENVIRONMENTAL, INC.**

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919 Highway 33 - #47, Freehold, New Jersey 07728 ■ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Travis Shimer

Date: 12/4/03

Signature: [Handwritten Signature]

Time: 5:00 PM

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	<del>✓</del>	<del>✓</del>	
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	<del>✓</del>	<del>✓</del>	
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS:

check Fire Extinguishers - O.K  
 check Showers - O.K  
 checked Monitored air Quality - O.K

ACTIONS REQUIRED:

None

FOLLOW-UP:

None

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Travis R Shimer

Date: 12/14/03

Signature: [Signature]

Time: 4:30pm

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	<del>✓</del>	<del>✓</del>	
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	<del>✓</del>	<del>✓</del>	
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS:

ck Fire Extinguishers ———— o.k.  
ck shower ———— o.k.  
ck Air monitoring Quality ———— o.k.

ACTIONS REQUIRED:

None

FOLLOW-UP:

None

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Tavis E. Shimer  
 Signature: [Signature]

Date: 12/19/03  
 Time: 5:00pm

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	<del>✓</del>	<del>✓</del>	
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	<del>✓</del>	<del>✓</del>	
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS:

ck Fire Extinguishers ———— o.k  
ck Air Monitoring ~~at~~ ~~locality~~ ———— o.k  
ck Showers ———— o.k

ACTIONS REQUIRED:

*None*

FOLLOW-UP:

*None*



**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Trevin R Shiner

Date: 12/25/13

Signature: [Handwritten Signature]

Time: 8:30 AM

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	<del>✓</del>	<del>✓</del>	
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	<del>✓</del>	<del>✓</del>	
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS:

ck Fire Extinguishers = o.k  
ck Showers = o.k  
ck Air Quality = o.k

ACTIONS REQUIRED:

None

FOLLOW-UP:

None

**ATTACHMENT 2**



U.S. Environmental Protection Agency  
Region 2 Laboratory

**Data Report: Vestal Well 1-1 [12/03]**

**Project Number: 03120035**

Program: Y206E

Project Leader: L. Niles

Remark Codes	Explanation
U	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT.
J	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE IS AN ESTIMATE.
UJ	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT. THE REPORTING LIMIT IS AN ESTIMATE.
N	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION.
NJ	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION. THE REPORTED VALUE IS AN ESTIMATE.
R	THE PRESENCE OR ABSENCE OF THE ANALYTE CANNOT BE DETERMINED FROM THE DATA DUE TO SEVERE QUALITY CONTROL PROBLEMS. THE DATA ARE REJECTED AND CONSIDERED UNUSABLE.
K	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTED TO BE LESS THAN THE REPORTED VALUE.
L	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED LOW. THE ACTUAL VALUE IS EXPECTED TO BE GREATER THAN THE REPORTED VALUE.
NV	NOT VALIDATED
INC	RESULT NOT ENTERED



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [12/03]

Project Number: 03120035

\*Sorted By Sample ID

AE05290 Field/Station ID: Influent  
Matrix: Aqueous

Date Received: 12/15/2003

Sample Description: I-1 Well Influent

Analysis Type: VOA LOW LEVEL GCMS DRINK WTR

CAS Number	Analyte Name	Result	Remark Codes	Units
75-43-4	DICHLORODIFLUOROMETHANE	---	0.50U	ug/L
000074873	CHLOROMETHANE	---	0.50U	ug/L
000075014	VINYL CHLORIDE	3.2		ug/L
000074839	BROMOMETHANE	---	0.50U	ug/L
000075003	CHLOROETHANE	0.70		ug/L
000075694	TRICHLOROFLUOROMETHANE	---	0.50U	ug/L
000075354	1,1-DICHLOROETHENE	7.4		ug/L
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	2.4		ug/L
000075150	CARBON DISULFIDE	---	0.50U	ug/L
000067641	ACETONE	---	1.0U	ug/L
79-20-9	METHYL ACETATE	---	0.50U J	ug/L
000075092	METHYLENE CHLORIDE	---	0.50U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	0.50U	ug/L
001634044	METHYL TERT-BUTYL ETHER	3.6		ug/L
000075343	1,1-DICHLOROETHANE	17		ug/L
000156592	CIS-1,2-DICHLOROETHENE	41		ug/L
594-20-7	2,2-DICHLOROPROPANE	---	0.50U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	1.0U	ug/L
000067663	CHLOROFORM	---	0.50U	ug/L
71-55-6	1,1,1-TRICHLOROETHANE	89		ug/L
110-82-7	CYCLOHEXANE	---	0.50U	ug/L
000056235	CARBON TETRACHLORIDE	---	0.50U	ug/L
000563586	1,1-DICHLOROPROPENE	---	0.50U	ug/L
000071432	BENZENE	---	0.50U	ug/L
000107062	1,2-DICHLOROETHANE	---	0.50U	ug/L
025323891	TRICHLOROETHENE	32		ug/L
108-87-2	METHYLCYCLOHEXANE	---	0.50U	ug/L
000078875	1,2-DICHLOROPROPANE	---	0.50U	ug/L
000074953	DIBROMOMETHANE	---	0.50U	ug/L
000075274	BROMODICHLOROMETHANE	---	0.50U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	0.50U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	0.50U	ug/L
000127184	TETRACHLOROETHENE	---	0.50U	ug/L
000142289	1,3-DICHLOROPROPANE	---	0.50U	ug/L
000124481	DIBROMOCHLOROMETHANE	---	0.50U	ug/L
000106934	1,2-DIBROMOETHANE	---	0.50U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	0.50U	ug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 2/3/2004 1:51PM

Page 2 of 5



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [12/03]

Project Number: 03120035

\*Sorted By Sample ID

**AE05290**

Field/Station ID: Influent  
Matrix: Aqueous

Date Received: 12/15/2003

Sample Description: 1-1 Well Influent

Analysis Type: VOA LOW LEVEL GCMS DRINK WTR

CAS Number	Analyte Name	Result	Remark Codes	Units
000630206	1,1,1,2-TETRACHLOROETHANE	---	0.50U	ug/L
100-41-4	ETHYLBENZENE	---	0.50U	ug/L
001330207	M/P-XYLENE	---	0.50U	ug/L
000095476	O-XYLENE	---	0.50U	ug/L
000100425	STYRENE	---	0.50U	ug/L
000075252	BROMOFORM	---	0.50U	ug/L
000098828	ISOPROPYLBENZENE	---	0.50U	ug/L
000108861	BROMOBENZENE	---	1.0U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	0.50U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	0.50U	ug/L
000103651	N-PROPYLBENZENE	---	1.0U	ug/L
000095498	2-CHLOROTOLUENE	---	0.50U	ug/L
106-43-4	4-CHLOROTOLUENE	---	0.50U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	0.50U	ug/L
000098066	TERT-BUTYLBENZENE	---	0.50U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	0.50U	ug/L
135-98-8	SEC-BUTYLBENZENE	---	0.50U	ug/L
000541731	1,3-DICHLOROBENZENE	---	0.50U	ug/L
000106467	1,4-DICHLOROBENZENE	---	0.50U	ug/L
000095501	1,2-DICHLOROBENZENE	---	0.50U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	0.50U	ug/L
000104518	N-BUTYLBENZENE	---	0.50U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	0.50U J	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	0.50U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	0.50U	ug/L
000091203	NAPHTHALENE	---	0.50U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	0.50U	ug/L

**AE05291**

Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 12/15/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINK WTR

CAS Number	Analyte Name	Result	Remark Codes	Units
------------	--------------	--------	--------------	-------

Refer to Page 1 for an explanation of Remark Codes

Report Date: 2/3/2004 1:51PM





U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [12/03]

Project Number: 03120035

\*Sorted By Sample ID

AE05291 Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 12/15/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINK WTR

CAS Number	Analyte Name	Result	Remark Codes	Units
75-43-4	DICHLORODIFLUOROMETHANE	---	0.50U	ug/L
000074873	CHLOROMETHANE	---	0.50U	ug/L
000075014	VINYL CHLORIDE	---	0.50U	ug/L
000074839	BROMOMETHANE	---	0.50U	ug/L
000075003	CHLOROETHANE	---	0.50U	ug/L
000075694	TRICHLOROFLUOROMETHANE	---	0.50U	ug/L
000075354	1,1-DICHLOROETHENE	---	0.50U	ug/L
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	---	0.50U	ug/L
000075150	CARBON DISULFIDE	---	0.50U	ug/L
000067641	ACETONE	---	1.0U	ug/L
79-20-9	METHYL ACETATE	---	0.50U J	ug/L
000075092	METHYLENE CHLORIDE	---	0.50U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	0.50U	ug/L
001634044	METHYL TERT-BUTYL ETHER	1.0		ug/L
000075343	1,1-DICHLOROETHANE	---	0.50U	ug/L
000156592	CIS-1,2-DICHLOROETHENE	---	0.50U	ug/L
594-20-7	2,2-DICHLOROPROPANE	---	0.50U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	1.0U	ug/L
000067663	CHLOROFORM	---	0.50U	ug/L
71-55-6	1,1,1-TRICHLOROETHANE	---	0.50U	ug/L
110-82-7	CYCLOHEXANE	---	0.50U	ug/L
000056235	CARBON TETRACHLORIDE	---	0.50U	ug/L
000563586	1,1-DICHLOROPROPENE	---	0.50U	ug/L
000071432	BENZENE	---	0.50U	ug/L
000107062	1,2-DICHLOROETHANE	---	0.50U	ug/L
025323891	TRICHLOROETHENE	---	0.50U	ug/L
108-87-2	METHYLCYCLOHEXANE	---	0.50U	ug/L
000078875	1,2-DICHLOROPROPANE	---	0.50U	ug/L
000074953	DIBROMOMETHANE	---	0.50U	ug/L
000075274	BROMODICHLOROMETHANE	---	0.50U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	0.50U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	0.50U	ug/L
000127184	TETRACHLOROETHENE	---	0.50U	ug/L
000142289	1,3-DICHLOROPROPANE	---	0.50U	ug/L



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [12/03]

Project Number: 03120035

\*Sorted By Sample ID

**AE05291** Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 12/15/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINK WTR

CAS Number	Analyte Name	Result	Remark Codes	Units
000124481	DIBROMOCHLOROMETHANE	---	0.50U	ug/L
000106934	1,2-DIBROMOETHANE	---	0.50U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	0.50U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	---	0.50U	ug/L
100-41-4	ETHYLBENZENE	---	0.50U	ug/L
001330207	M/P-XYLENE	---	0.50U	ug/L
000095476	O-XYLENE	---	0.50U	ug/L
000100425	STYRENE	---	0.50U	ug/L
000075252	BROMOFORM	---	0.50U	ug/L
000098828	ISOPROPYLBENZENE	---	0.50U	ug/L
000108861	BROMOBENZENE	---	1.0U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	0.50U	ug/L
000079345	1,1,1,2-TETRACHLOROETHANE	---	0.50U	ug/L
000103651	N-PROPYLBENZENE	---	1.0U	ug/L
000095498	2-CHLOROTOLUENE	---	0.50U	ug/L
106-43-4	4-CHLOROTOLUENE	---	0.50U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	0.50U	ug/L
000098066	TERT-BUTYLBENZENE	---	0.50U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	0.50U	ug/L
135-98-8	SEC-BUTYLBENZENE	---	0.50U	ug/L
000541731	1,3-DICHLOROBENZENE	---	0.50U	ug/L
000106467	1,4-DICHLOROBENZENE	---	0.50U	ug/L
000095501	1,2-DICHLOROBENZENE	---	0.50U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	0.50U	ug/L
000104518	N-BUTYLBENZENE	---	0.50U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	0.50U J	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	0.50U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	0.50U	ug/L
000091203	NAPHTHALENE	---	0.50U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	0.50U	ug/L

Project Approval: \_\_\_\_\_

Date: \_\_\_\_\_

2/8/04

Refer to Page 1 for an explanation of Remark Codes

Report Date: 2/3/2004 1:51PM





TETRA TECH FW, INC.

5 March 2004  
RAC II-2004-028

Ms. Sharon Trocher  
Work Assignment Manager  
U.S. Environmental Protection Agency  
290 Broadway, 20<sup>th</sup> Floor  
New York, NY 10007-1866

**SUBJECT: USEPA RAC II CONTRACT NUMBER 68-W-98-214  
WORK ASSIGNMENT NUMBER 109-RALR-0238  
VESTAL WATER SUPPLY WELL, OPERABLE UNIT 1  
NOVEMBER 2003 PERFORMANCE MONITORING REPORT**

Dear Ms. Trocher:

I am pleased to provide the November 2003 Monthly Performance Monitoring Report for the Vestal Water Supply Well treatment facility.

#### **A. Monthly Operations**

The treatment system at the Vestal Water Supply Well operated continuously during the month of November. The Cathodic Protection System installation took place between 18 and 21 November. The Monthly Operating Report submitted by the Long Term Response Subcontractor, Aguilar Environmental, Inc., is included in Attachment 1. A summary of the operation and maintenance activities performed during November is as follows:

- Routine inspections of the facility were performed;
- Routine lawn maintenance was performed;
- The strainers were cleaned with acid;
- Cathodic Protection System was installed;
- The liquid level in the wastewater underground storage tank (UST) was measured and recorded as full; and
- The monthly influent and effluent samples were collected.

#### **B. Approximate Volumes of Groundwater Treated**

The following volumes of groundwater have been treated at the Vestal Water Supply treatment facility:

- Volume of groundwater treated during November 2003 (30 days at 50%) = 24.8 million gallons.
- Cumulative volume of groundwater treated for the year 2003 = 309.7 million gallons.
- Cumulative volume of groundwater treated for the OU-1 = 2393.9 million gallons.



### C. Comparison of Groundwater Influent and Effluent Concentration with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of November 2003 are included in Attachment 2. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

<u>Compound</u>	<u>Influent (ug/L)</u>	<u>Effluent (ug/L)</u>	<u>Discharge Criteria (ug/L)</u>
Vinyl Chloride	3.5	0.5 U	2
Chloroethane	0.70	0.5 U	
1,1-Dichloroethene*	8.8 J	0.5 U	5
1,1,2 Trichloro-1,2,2-Trifluor	2.9	.50 U	
Acetone	1.04	7.0 U	
Trans 1,2-Dichloroethene*	0.5 U	0.5 U	5
1,1-Dichloroethane*	19	0.5 U	5
Methyl Tert-Butyl Ether	3.0	0.90	
Cis-1,2-Dichloroethene	48	0.5 U	5
Chloroform*	0.5 U	0.5 U	7
1,1,1-Trichloroethane*	110	0.5 U	5
Trichloroethene*	38	0.5 U	5
Total Volatile Organics*	233.9	0.90	100

Note: \* = Site Contaminant of Concern, and U = below reporting limit.

### D. Next Month's Activities

The following activities are planned for December 2003:

- Repair the pump control valve;
- Continue to monitor the wastewater UST to determine if water is entering or exiting the tank. If there is a problem, an internal inspection of the tank will be performed; and
- Routine system maintenance.

### E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded that the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8197 if you should have any questions.

Sincerely,



Heidemarie Roldan  
Project Manager

### Attachments

cc: K. Moncino (EPA)  
M. Dunham (NYSDEC)

**ATTACHMENT 1**



# **AGUILAR ENVIRONMENTAL, INC.**

919 Highway 33 - #47, Freehold, New Jersey 07728 • (732) 294-9980 • Fax (732) 294-9939

---

**NOVEMBER 2003**

## **MONTHLY OPERATING REPORT**

for

## **OPERATION & MAINTENANCE**

at

**VESTAL WELL 1-1 SITE  
VESTAL, NEW YORK**

Prepared for

**TETRA TECH FW, INC.**  
1000 The American Road  
Morris Plains, New Jersey 07950

**SUBCONTRACT #15623**

Prepared by

**AGUILAR ENVIRONMENTAL, INC.**  
919 Highway 33, Suite #47  
Freehold, New Jersey 07728

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1.0	INTRODUCTION .....	1
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4.0	PROPOSED WORK .....	1
5.0	RECOMMENDATIONS .....	2

### **APPENDICES**

Appendix A - Copy of Log

Appendix B - Weekly Health and Safety Inspection Forms

## **1.0 INTRODUCTION**

The treatment system at Vestal Well 1-1 has operated continuously for the month of November. The installation of the cathodic protection system took place from the 18<sup>th</sup> till the 21<sup>th</sup>. The new system has operated without a problem since installation. Cathodix Inc. will be sending a device to be placed on the system to check that it is reporting accurate information. It is expected to arrive within a couple of weeks. The pump control valve still needs additional repair. Estimated date for this project is mid December.

## **2.0 MONTHLY OPERATIONS**

The following work took place:

- Routine site inspections of the facility.
- Acid clean strainers
- Mowing and trimming.
- Installation of cathodic protection system
- Removal of garbage and excess waste from Chemical building
- Inspected level of UST - full.
- Monthly sampling with Simon.
- Hole dug/backfilled for cathodic protection system

## **3.0 REPAIR WORK**

All repair work that took place was mentioned above.

## **4.0 PROPOSED WORK**

- Finish pump control valve
- Paint piping in stripper/blower building (after repair work is complete)

## **5.0 RECOMMENDATIONS**

It is recommended that the following be acted upon by Foster Wheeler.

**APPENDIX A**  
**COPY OF LOG**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
November 2003

**AGUILAR ENVIRONMENTAL, INC.**

---

919 Highway 33 - #47, Freehold, New Jersey 07728 ■ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939

**27 OCTOBER-2 NOVEMBER WEEK 44**

SEPTEMBER 2003							OCTOBER 2003							NOVEMBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31											

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**27 Monday** 300-065

1:00	1:00	2:00	3:00	4:00	5:00	6:00
<i>No visit</i>						

**28 Tuesday** 301-064

1:00	2:00	3:00	4:00	5:00	6:00
<i>Visited Site</i>					
<i>Everything Fine</i>					

**29 Wednesday** 302-063

1:00	2:00	3:00	4:00	5:00	6:00
<i>No Visit</i>					

**2003 27 OCTOBER-2 NOVEMBER**

DECEMBER 2003							JANUARY 2004							FEBRUARY 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31											

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**30 Thursday** 303-062

1:00	2:00	3:00	4:00	5:00	6:00
<i>visited site</i>					
<i>weekly safety &amp; Health Inspection</i>					

**31 Friday** 304-061

1:00	2:00	3:00	4:00	5:00	6:00
<i>No Visit</i>					

**1 Saturday** 305-060

AM	PM
<i>visited site</i>	
<i>Everything Fine</i>	

**2 Sunday** 306-059

AM	PM
<i>Visit Site</i>	
<i>Met w/ Simon</i>	

Day of The Dead (Mexico)

**STAPLES**



**3-9 NOVEMBER**

**WEEK 45**

OCTOBER 2003							NOVEMBER 2003							DECEMBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7

GOALS \_\_\_\_\_

INSPIRATIONS \_\_\_\_\_

NOTES \_\_\_\_\_

**3 Monday**

307-058

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**4 Tuesday**

308-057

7:00	Visited Site	1:00
8:00		2:00
9:00	Remove garbage/ect	3:00
10:00	From basement of Chemical	4:00
11:00	Building A per Simco	5:00
12:00		6:00

**5 Wednesday**

309-056

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

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**2003**

**3-9 NOVEMBER**

JANUARY 2004							FEBRUARY 2004							MARCH 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7

GOALS \_\_\_\_\_

INSPIRATIONS \_\_\_\_\_

NOTES \_\_\_\_\_

**6 Thursday**

310-055

7:00	Visited Site	1:00
8:00		2:00
9:00	Weekly Health & Safety	3:00
10:00		4:00
11:00	Inspection	5:00
12:00		6:00

**7 Friday**

311-054

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**8 Saturday**

312-053

AM	No Visit	PM

**9 Sunday**

313-052

AM	Visited Site	PM
	Everything Fine	

**STAPLES**

**10-16 NOVEMBER**

**WEEK 46**

OCTOBER 2003							NOVEMBER 2003							DECEMBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31																		

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**10 Monday** 314-051

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*No Visit*

**11 Tuesday** 315-050

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*Visited Site*  
*Removed Diesel Blower Room Filters*

**12 Wednesday** 316-049

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*No Visit*

**2003**

**10-16 NOVEMBER**

JANUARY 2004							FEBRUARY 2004							MARCH 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31																		

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**13 Thursday** 317-048

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*Visited Site*  
*Weekly*  
*Health & Safety Inspection*

**14 Friday** 318-047

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*No Visit*

**15 Saturday** 319-046

AM	PM
1:00	2:00
3:00	4:00
5:00	6:00
7:00	8:00

*Visited Site*  
*Everything Fine*

**16 Sunday** 320-045

AM	PM
1:00	2:00
3:00	4:00
5:00	6:00
7:00	8:00

*No Visit*

**STAPLES**

**17-23 NOVEMBER**

**WEEK 47**

OCTOBER 2003							NOVEMBER 2003							DECEMBER 2003											
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S					
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

GOALS \_\_\_\_\_

INSPIRATIONS \_\_\_\_\_

NOTES \_\_\_\_\_

**17 Monday** 321-044

7:00	1:00
8:30	2:30
9:00	3:00
10:30	4:00
11:00	5:00
12:00	6:00

*No Visit*

**18 Tuesday** 322-043

7:00	1:00
8:30	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*Visited Site*  
*hole clay for Installation of Cathodic Protection System (1/2 Finished)*

**19 Wednesday** 323-042

7:00	1:00
8:30	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*Visited Site*  
*Finished digging hole*

**20 Thursday** 324-041

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*Visited Site*  
*weekly Health & Safety*  
*Inspections*  
*Finish Installing Cathodic P.S.*

**21 Friday** 325-040

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*No Visit*

**22 Saturday** 326-039

AM	PM
<i>No Visit</i>	

**23 Sunday** 327-038

AM	PM
<i>Visited Site</i>	

*Everything Fine, Backfill Started*

**2003 17-23 NOVEMBER**

JANUARY 2004							FEBRUARY 2004							MARCH 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

GOALS \_\_\_\_\_

INSPIRATIONS \_\_\_\_\_

NOTES \_\_\_\_\_

Revolution Day (Mexico)

**STAPLES**

**24-30 NOVEMBER** **WEEK 48**

OCTOBER 2003							NOVEMBER 2003							DECEMBER 2003										
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

GOALS \_\_\_\_\_  
 INSPIRATIONS \_\_\_\_\_  
 NOTES \_\_\_\_\_

**24 Monday** 328-037

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**25 Tuesday** 329-038

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**26 Wednesday** 330-035

7:00	Visited Site	1:00
8:00	Backfill of	2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

GOALS \_\_\_\_\_  
 INSPIRATIONS \_\_\_\_\_  
 NOTES \_\_\_\_\_

**2003** **24-30 NOVEMBER**

JANUARY 2004							FEBRUARY 2004							MARCH 2004									
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

GOALS \_\_\_\_\_  
 INSPIRATIONS \_\_\_\_\_  
 NOTES \_\_\_\_\_

**27 Thursday** 331-034

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**28 Friday** 332-033

7:00	Visited Site	1:00
8:00		2:00
9:00	Weekly Health & Safety	3:00
10:00		4:00
11:00	Inspection	5:00
12:00		6:00

**29 Saturday** 333-032

AM	No Visit	PM
----	----------	----

**30 Sunday** 334-031

AM	Visited Site	Everything
		Find

GOALS \_\_\_\_\_  
 INSPIRATIONS \_\_\_\_\_  
 NOTES \_\_\_\_\_

**STAPLES**

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**APPENDIX B**

**WEEKLY HEALTH & SAFETY INSPECTION FORMS**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
November 2003

**AGUILAR ENVIRONMENTAL, INC.**

---

919 Highway 33 - #47, Freehold, New Jersey 07728 ■ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Travis R. Shimer

Date: 11-28-03

Signature: *T. R. Shimer*

Time: 12:00 PM

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	<del>✓</del>	<del>✓</del>	
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	<del>✓</del>	<del>✓</del>	
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage			
Underground Storage Tank			

ADDITIONAL COMMENTS: Fire Extinguisher check

OK

ACTIONS REQUIRED:

~~\_\_\_\_\_~~

FOLLOW-UP:

~~\_\_\_\_\_~~



**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Travis R Shimer

Date: 11-6-03

Signature: *T. R. Shimer*

Time: 2:00 p.m.

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	<del>✓</del>		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	✓		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: \_\_\_\_\_

*None*

ACTIONS REQUIRED: \_\_\_\_\_

*✓*

FOLLOW-UP: \_\_\_\_\_

*✓*

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Travis R Shimer

Date: 11-13-03

Signature: [Handwritten Signature]

Time: 6:00 PM

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	<del>✓</del>	<del>✓</del>	
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	<del>✓</del>	<del>✓</del>	
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: Air monitoring Test

O.K.

ACTIONS REQUIRED: ~~\_\_\_\_\_~~

FOLLOW-UP: ~~\_\_\_\_\_~~

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Travis R Shimer

Date: 11-20-03

Signature: [Handwritten Signature]

Time: 12:00 PM

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	<del>✓</del>	<del></del>	
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	<del>✓</del>	<del></del>	
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: Emergency Shower Test  
OK

ACTIONS REQUIRED: \_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_

**ATTACHMENT 2**



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [11/03]

Project Number: 03110001

\*Sorted By Sample ID

**AE05005**

Field/Station ID: Effluent

Date Received: 11/3/2003

Matrix: Aqueous

Sample Description: 1-1 Well Effluent

**Analysis Type: VOA LOW LEVEL GCMS DRINK WTR**

CAS Number	Analyte Name	Result	Remark Codes	Units
000124481	DIBROMOCHLOROMETHANE	---	0.50U	ug/L
000106934	1,2-DIBROMOETHANE	---	0.50U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	0.50U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	---	0.50U	ug/L
100-41-4	ETHYLBENZENE	---	0.50U	ug/L
001330207	M/P-XYLENE	---	0.50U	ug/L
000095476	O-XYLENE	---	0.50U	ug/L
000100425	STYRENE	---	0.50U	ug/L
000075252	BROMOFORM	---	0.50U	ug/L
000098828	ISOPROPYLBENZENE	---	0.50U	ug/L
000108861	BROMOBENZENE	---	0.50U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	0.50U	ug/L
000079345	1,1,1,2-TETRACHLOROETHANE	---	0.50U	ug/L
000103651	N-PROPYLBENZENE	---	0.50U	ug/L
000095498	2-CHLOROTOLUENE	---	0.50U	ug/L
106-43-4	4-CHLOROTOLUENE	---	0.50U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	0.50U	ug/L
000098066	TERT-BUTYLBENZENE	---	0.50U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	0.50U	ug/L
135-98-8	SEC-BUTYLBENZENE	---	0.50U	ug/L
000541731	1,3-DICHLOROBENZENE	---	0.50U	ug/L
000106467	1,4-DICHLOROBENZENE	---	0.50U	ug/L
000095501	1,2-DICHLOROBENZENE	---	0.50U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	0.50U	ug/L
000104518	N-BUTYLBENZENE	---	0.50U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	0.50U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	0.50U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	0.50U	ug/L
000091203	NAPHTHALENE	---	0.50U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	0.50U	ug/L

Project Approval: \_\_\_\_\_

*J. R. B...*

Date: \_\_\_\_\_

1/9/04

Refer to Page 1 for an explanation of Remark Codes

Report Date: 12/23/2003 8:09AM





U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [11/03]

Project Number: 03110001

\*Sorted By Sample ID

AE05005 Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 11/3/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINK WTR

CAS Number	Analyte Name	Result	Remark Codes	Units
75-43-4	DICHLORODIFLUOROMETHANE	---	0.50U	ug/L
00074873	CHLOROMETHANE	---	0.50U	ug/L
000075014	VINYL CHLORIDE	---	0.50U	ug/L
000074839	BROMOMETHANE	---	0.50U	ug/L
000075003	CHLOROETHANE	---	0.50U	ug/L
000075694	TRICHLOROFLUOROMETHANE	---	0.50U	ug/L
000075354	1,1-DICHLOROETHENE	---	0.50U	ug/L
000079345	1,1,2-TRICHLORO-1,2,2-TRIFLUOR	---	0.50U	ug/L
000075150	CARBON DISULFIDE	---	0.50U	ug/L
000067641	ACETONE	---	7.0U	ug/L
79-20-9	METHYL ACETATE	---	0.50U	ug/L
000075092	METHYLENE CHLORIDE	---	0.50U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	0.50U	ug/L
001634044	METHYL TERT-BUTYL ETHER	0.90		ug/L
000075343	1,1-DICHLOROETHANE	---	0.50U	ug/L
000156592	CIS-1,2-DICHLOROETHENE	---	0.50U	ug/L
594-20-7	2,2-DICHLOROPROPANE	---	0.50U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	0.50U	ug/L
000067663	CHLOROFORM	---	0.50U	ug/L
71-55-6	1,1,1-TRICHLOROETHANE	---	0.50U	ug/L
110-82-7	CYCLOHEXANE	---	0.50U	ug/L
000056235	CARBON TETRACHLORIDE	---	0.50U	ug/L
000563586	1,1-DICHLOROPROPENE	---	0.50U	ug/L
000071432	BENZENE	---	0.50U	ug/L
000107062	1,2-DICHLOROETHANE	---	0.50U	ug/L
025323891	TRICHLOROETHENE	---	0.50U	ug/L
108-87-2	METHYLCYCLOHEXANE	---	0.50U	ug/L
000078875	1,2-DICHLOROPROPANE	---	0.50U	ug/L
000074953	DIBROMOMETHANE	---	0.50U	ug/L
000075274	BROMODICHLOROMETHANE	---	0.50U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	0.50U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	0.50U	ug/L
000127184	TETRACHLOROETHENE	---	0.50U	ug/L
000142289	1,3-DICHLOROPROPANE	---	0.50U	ug/L

Refer to Page I for an explanation of Remark Codes

Report Date: 12/23/2003 8:09AM



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [11/03]

Project Number: 03110001

\*Sorted By Sample ID

**AE05004**

Field/Station ID: Influent  
Matrix: Aqueous

Date Received: 11/3/2003

Sample Description: 1-1 Well Influent

**Analysis Type: VOA LOW LEVEL GCMS DRINK WTR**

CAS Number	Analyte Name	Result	Remark Codes	Units
000630206	1,1,1,2-TETRACHLOROETHANE	---	0.50U	ug/L
100-41-4	ETHYLBENZENE	---	0.50U	ug/L
001330207	M/P-XYLENE	---	0.50U	ug/L
000095476	O-XYLENE	---	0.50U	ug/L
000100425	STYRENE	---	0.50U	ug/L
000075252	BROMOFORM	---	0.50U	ug/L
000098828	ISOPROPYLBENZENE	---	0.50U	ug/L
000108861	BROMOBENZENE	---	0.50U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	0.50U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	0.50U	ug/L
000103651	N-PROPYLBENZENE	---	0.50U	ug/L
000095498	2-CHLOROTOLUENE	---	0.50U	ug/L
106-43-4	4-CHLOROTOLUENE	---	0.50U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	0.50U	ug/L
000098066	TERT-BUTYLBENZENE	---	0.50U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	0.50U	ug/L
135-98-8	SEC-BUTYLBENZENE	---	0.50U	ug/L
000541731	1,3-DICHLOROBENZENE	---	0.50U	ug/L
000106467	1,4-DICHLOROBENZENE	---	0.50U	ug/L
000095501	1,2-DICHLOROBENZENE	---	0.50U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	0.50U	ug/L
000104518	N-BUTYLBENZENE	---	0.50U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	0.50U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	0.50U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	0.50U	ug/L
000091203	NAPHTHALENE	---	0.50U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	0.50U	ug/L

**AE05005**

Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 11/3/2003

Sample Description: 1-1 Well Effluent

**Analysis Type: VOA LOW LEVEL GCMS DRINK WTR**

CAS Number	Analyte Name	Result	Remark Codes	Units
------------	--------------	--------	--------------	-------

Refer to Page 1 for an explanation of Remark Codes

Report Date: 12/23/2003 8:09AM





U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Westal Well 1-1 [11/03]

Project Number: 03110001

\*Sorted By Sample ID

AE05004 Field/Station ID: Influent  
Matrix: Aqueous

Date Received: 11/3/2003

Sample Description: 1-1 Well Influent

Analysis Type: VOA LOW LEVEL GCMS DRINK WTR

CAS Number	Analyte Name	Result	Remark Codes	Units
75-43-4	DICHLORODIFLUOROMETHANE	---	0.50U	ug/L
00074873	CHLOROMETHANE	---	0.50U	ug/L
000075014	VINYL CHLORIDE	3.5		ug/L
000074839	BROMOMETHANE	---	0.50U	ug/L
000075003	CHLOROETHANE	0.70		ug/L
000075694	TRICHLOROFLUOROMETHANE	---	0.50U	ug/L
000075354	1,1-DICHLOROETHENE	8.8	J	ug/L
000079345	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	2.9		ug/L
000075150	CARBON DISULFIDE	---	0.50U	ug/L
000067641	ACETONE	---	1.0U	ug/L
79-20-9	METHYL ACETATE	---	0.50U	ug/L
000075092	METHYLENE CHLORIDE	---	0.50U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	0.50U	ug/L
001634044	METHYL TERT-BUTYL ETHER	3.0		ug/L
000075343	1,1-DICHLOROETHANE	19		ug/L
000156592	CIS-1,2-DICHLOROETHENE	48		ug/L
594-20-7	2,2-DICHLOROPROPANE	---	0.50U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	0.50U	ug/L
000067663	CHLOROFORM	---	0.50U	ug/L
71-55-6	1,1,1-TRICHLOROETHANE	110		ug/L
110-82-7	CYCLOHEXANE	---	0.50U	ug/L
000056235	CARBON TETRACHLORIDE	---	0.50U	ug/L
000563586	1,1-DICHLOROPROPENE	---	0.50U	ug/L
000071432	BENZENE	---	0.50U	ug/L
000107062	1,2-DICHLOROETHANE	---	0.50U	ug/L
025323891	TRICHLOROETHENE	38		ug/L
108-87-2	METHYLCYCLOHEXANE	---	0.50U	ug/L
000078875	1,2-DICHLOROPROPANE	---	0.50U	ug/L
000074953	DIBROMOMETHANE	---	0.50U	ug/L
000075274	BROMODICHLOROMETHANE	---	0.50U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	0.50U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	0.50U	ug/L
000127184	TETRACHLOROETHENE	---	0.50U	ug/L
000142289	1,3-DICHLOROPROPANE	---	0.50U	ug/L
000124481	DIBROMOCHLOROMETHANE	---	0.50U	ug/L
000106934	1,2-DIBROMOETHANE	---	0.50U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	0.50U	ug/L



U.S. Environmental Protection Agency  
Region 2 Laboratory

**Data Report: Vestal Well 1-1 [11/03]**

**Project Number: 03110001**

Program: Y206E

Project Leader: L. Niles

Remark Codes	Explanation
U	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT.
J	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE IS AN ESTIMATE.
UJ	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT. THE REPORTING LIMIT IS AN ESTIMATE.
N	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION.
NJ	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION. THE REPORTED VALUE IS AN ESTIMATE.
K	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTED TO BE LESS THAN THE REPORTED VALUE.
L	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED LOW. THE ACTUAL VALUE IS EXPECTED TO BE GREATER THAN THE REPORTED VALUE.
NV	NOT VALIDATED
INC	RESULT NOT ENTERED

Matt D.



TETRA TECH FW, INC.

5 March 2004  
RAC II-2004-027

8

Ms. Sharon Trocher  
Work Assignment Manager  
U.S. Environmental Protection Agency  
290 Broadway, 20<sup>th</sup> Floor  
New York, NY 10007-1866

**SUBJECT: USEPA RAC II CONTRACT NUMBER 68-W-98-214  
WORK ASSIGNMENT NUMBER 109-RALR-0238  
VESTAL WATER SUPPLY WELL, OPERABLE UNIT 1  
OCTOBER 2003 PERFORMANCE MONITORING REPORT**

Dear Ms. Trocher:

I am pleased to provide the October 2003 Monthly Performance Monitoring Report for the Vestal Water Supply Well treatment facility.

#### **A. Monthly Operations**

The treatment system at the Vestal Water Supply Well operated continuously during the month of October. The parts needed for the control pump arrived at the end of October and were planned to be installed during the first week of November. The Monthly Operating Report submitted by the Long Term Response Subcontractor, Aguilar Environmental, Inc., is included in Attachment 1. A summary of the operation and maintenance activities performed during October is as follows:

- Routine inspections of the facility were performed;
- Routine lawn maintenance was performed;
- Acid clean the strainers;
- Air filters were replaced;
- The liquid level in the wastewater underground storage tank (UST) was measured and recorded as full; and
- The monthly influent and effluent samples were collected.

#### **B. Approximate Volumes of Groundwater Treated**

The following volumes of groundwater have been treated at the Vestal Water Supply treatment facility:

- Volume of groundwater treated during October 2003 (31 days at 50%) = 25.7 million gallons.
- Cumulative volume of groundwater treated for the year 2003 = 284.9 million gallons.
- Cumulative volume of groundwater treated for the OU-1 = 2369.1 million gallons.



### C. Comparison of Groundwater Influent and Effluent Concentration with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of October 2003 are included in Attachment 2. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

<u>Compound</u>	<u>Influent (ug/L)</u>	<u>Effluent (ug/L)</u>	<u>Discharge Criteria (ug/L)</u>
Vinyl Chloride	4.0	0.5 U	2
Chloroethane	0.76	0.5 U	
1,1-Dichloroethene*	11	0.5 U	5
1,1,2 Trichloro-1,2,2-Trifluor	3.3	0.5 U	
Trans 1,2-Dichloroethene*	0.5 U	0.5 U	5
Methyl Tert-Butyl Ether	3.4	0.87	
1,1-Dichloroethane*	23	0.5 U	5
Cis-1,2-Dichloroethene	54	0.5 U	5
Chloroform*	0.5 U	0.5 U	7
1,1,1-Trichloroethane*	120	0.5 U	5
Trichloroethene*	44	0.5 U	5
Total Volatile Organics*	263.46	0.87	100

Note: \* = Site Contaminant of Concern, and U = below reporting limit.

### D. Next Month's Activities

The following activities are planned for November 2003:

- Installation of cathodic protection system for the well pump.
- Continue to monitor the wastewater UST to determine if water is entering or exiting the tank. If there is a problem, an internal inspection of the tank will be performed;
- Routine system maintenance; and
- Paint piping in stripper/blower building.

### E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded that the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8197 if you should have any questions.

Sincerely,

  
Heidemarie Roldan  
Project Manager

### Attachments

cc: K. Moncino (EPA)  
M. Dunham (NYSDEC)

**ATTACHMENT 1**



# **AGUILAR ENVIRONMENTAL, INC.**

919 Highway 33 - #47, Freehold, New Jersey 07728 • (732) 294-9980 • Fax (732) 294-9939

---

**OCTOBER 2003**

## **MONTHLY OPERATING REPORT**

for

## **OPERATION & MAINTENANCE**

at

**VESTAL WELL 1-1 SITE  
VESTAL, NEW YORK**

Prepared for

**TETRA TECH FW, INC.**  
1000 The American Road  
Morris Plains, New Jersey 07950

**SUBCONTRACT #15623**

Prepared by

**AGUILAR ENVIRONMENTAL, INC.**  
919 Highway 33, Suite #47  
Freehold, New Jersey 07728



# TABLE OF CONTENTS

1.0	INTRODUCTION .....	1
2.0	MONTHLY OPERATIONS .....	1
3.0	REPAIR WORK .....	1
4.0	PROPOSED WORK .....	1
5.0	RECOMMENDATIONS .....	2

## **APPENDICES**

Appendix A - Copy of Log

Appendix B - Weekly Health and Safety Inspection Forms

## **1.0 INTRODUCTION**

The treatment system at Vestal Well 1-1 operated continuously during the entire month of October. Routine inspections took place during the month. The needed parts for the control pump have arrived and the pump should be fixed within the month of November. Until the pump is fully fixed the clearwell level still overflows to the stream that feed the river.

## **2.0 MONTHLY OPERATIONS**

The following work took place:

- Routine site inspections of the facility.
- Acid clean strainers
- Mowing and trimming.
- Inspected level of underground storage tank - full
- Changed air filters
- Inspected level of UST - full.
- Monthly sampling with Simon.
- 

## **3.0 REPAIR WORK**

All repair work that took place was mentioned above.

## **4.0 PROPOSED WORK**

- Finish pump control valve
- Paint piping in stripper/blower building (after repair work is complete)
- Installation of cathodic protection for well pump

## **5.0 RECOMMENDATIONS**

It is recommended that the following be acted upon by Foster Wheeler.

**APPENDIX A**  
**COPY OF LOG**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
October 2003

**AGUILAR ENVIRONMENTAL, INC.**

---

919 Highway 33 - #47, Freehold, New Jersey 07728 ■ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939

**29 SEPTEMBER-5 OCTOBER WEEK 40**

SEPTEMBER 2003							OCTOBER 2003							NOVEMBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31																		

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**29 Monday** 272-093

7:00	<i>no visit</i>	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**30 Tuesday** 273-092

7:00	<i>no visit</i>	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**1 Wednesday** 274-091

7:00	<i>Church Site -</i>	1:00
8:00		2:00
9:00	<i>Churchy Health &amp; Safety Group</i>	3:00
10:00		4:00
11:00		5:00
12:00		6:00

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**2003 29 SEPTEMBER-5 OCTOBER**

DECEMBER 2003							JANUARY 2004							FEBRUARY 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31																		

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**2 Thursday** 275-090

7:00	<i>no visit</i>	1:00
9:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**3 Friday** 276-089

7:00	<i>United Gate</i>	1:00
8:00	<i>cell work</i>	2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**4 Saturday** 277-088

AM	<i>no visit</i>	PM
----	-----------------	----

**5 Sunday** 278-087

AM	<i>no visit</i>	PM
----	-----------------	----

Yom Kippur (Begins at Sunset)

**STAPLES**

# 6-12 OCTOBER

# WEEK 41

SEPTEMBER 2003							OCTOBER 2003							NOVEMBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31												30	31					

GOALS \_\_\_\_\_

INSPIRATIONS \_\_\_\_\_

NOTES \_\_\_\_\_

6 Monday 279-086 Yom Kippur

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

7 Tuesday 280-085

7:00	Visited Site	1:00
8:00		2:00
9:00	Everything Fine	
10:00		4:00
11:00		5:00
12:00		6:00

8 Wednesday 281-084

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

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# 2003

DECEMBER 2003							JANUARY 2004							FEBRUARY 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30	31			1	2	3	4	5	6	7	
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
28	29	30	31										28	29	30	31				

GOALS \_\_\_\_\_

INSPIRATIONS \_\_\_\_\_

NOTES \_\_\_\_\_

9 Thursday 282-083

7:00		1:00
8:00	Visited site	2:00
9:00		3:00
10:00	Weekly Health & Safety Inspection	
11:00		5:00
12:00		6:00

10 Friday 283-082

7:00	No visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

11 Saturday 284-081

AM	No Visit	PM

12 Sunday 285-080

Die de la Plaza (Mexico)

AM	sampled w/ Samos	PM
----	------------------	----

STAPLES

**13-19 OCTOBER**

**WEEK 42**

SEPTEMBER 2003							OCTOBER 2003							NOVEMBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30													31						

GOALS \_\_\_\_\_

INSPIRATIONS \_\_\_\_\_

NOTES \_\_\_\_\_

**13 Monday** 286-079 Columbus Day (Observed - US), Thanksgiving (Canada)

7:00	No visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**14 Tuesday** 287-078

7:00	Added Oil to well house	
8:00	pump Motor	2:00
9:00		3:00
10:00	Visited Sites	
11:00		5:00
12:00		6:00

**15 Wednesday** 288-077

7:00	NO VISIT	1:00
8:00	Met w/ Julius	2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

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**2003**

DECEMBER 2003							JANUARY 2004							FEBRUARY 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31																		

GOALS \_\_\_\_\_

INSPIRATIONS \_\_\_\_\_

NOTES \_\_\_\_\_

**16 Thursday** 289-076

7:00	Visited Site	1:00
8:00	Weekly health & Safety Inspection	
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**17 Friday** 290-075

7:00	No visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**18 Saturday** 291-074

AM	Visited Site	PM
	Swept Floor, took out garbage	

**19 Sunday** 292-073

AM	No visit	PM
----	----------	----

**STAPLES**

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

**20-26 OCTOBER**

**20-26 OCTOBER**

**WEEK 43**

SEPTEMBER 2003			OCTOBER 2003			NOVEMBER 2003		
S	T	W	S	M	T	S	M	T
1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30						

**20-26 OCTOBER**

DECEMBER 2003			JANUARY 2004			FEBRUARY 2004		
S	T	W	S	M	T	S	M	T
1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31					

GOALS

GOALS

INSPIRATIONS

INSPIRATIONS

NOTES

NOTES

**20 Monday** 293-072

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**21 Tuesday** 294-071

7:00	Visited Site	1:00
8:00		2:00
9:00	Cleaned dirt Buildup	3:00
10:00	From well house Motor	
11:00		5:00
12:00		6:00

**22 Wednesday** 295-070

7:00	No visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**23 Thursday** 296-069

7:00	Visited Site	1:00
8:00	Weekly Health Safety Inspection	
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**24 Friday** 297-068

7:00	No visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**25 Saturday** 298-067

AM	Visited Site	PM
	Everything Fine	

**26 Sunday** 299-066

AM	No visit	PM
----	----------	----

British Summer Time Ends, Daylight Savings Time Ends

STAPLES

**27 OCTOBER-2 NOVEMBER**

DECEMBER 2003							JANUARY 2004							FEBRUARY 2004						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31																		

GOALS INSPIRATIONS NOTES

**30 Thursday** 303-062

7:00	visited site	1:00
8:00		2:00
9:00	weekly safety & health inspection	4:00
10:00		5:00
11:00		6:00
12:00		

**31 Friday** 304-061

7:00		1:00
9:00	No Visit	2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

Halloween

**1 Saturday** 305-060

AM		PM

**2 Sunday** 306-059

AM		PM

Day of The Dead (Mexico)

**STAPLES**

**27 OCTOBER-2 NOVEMBER WEEK 44**

SEPTEMBER 2003							OCTOBER 2003							NOVEMBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30																			

GOALS INSPIRATIONS NOTES

**27 Monday** 300-065

7:00	No visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**28 Tuesday** 301-064

7:00	visited Site	1:00
8:00		2:00
9:00	Everything Fine	4:00
10:00		5:00
11:00		6:00
12:00		

**29 Wednesday** 302-063

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00





## **APPENDIX B**

# **WEEKLY HEALTH & SAFETY INSPECTION FORMS**

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Travis R Shimer  
 Signature: [Handwritten Signature]

Date: 10/1/03  
 Time: 5:00 PM

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases			
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems			
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: Showers in both old well & new well building checked - OK

ACTIONS REQUIRED:

FOLLOW-UP:

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Travis R Shiner  
 Signature: *T.R. Shiner*

Date: 10-9-03  
 Time: 6:00PM

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases			
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems			
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: \_\_\_\_\_

*Monitored Air - OK*

ACTIONS REQUIRED: \_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Trawis R Shimer Date: 10-16-03  
 Signature: *T R Shimer* Time: 5:00 PM

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases			
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems			
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: \_\_\_\_\_

*Checked 4 Fire Extinguishers - OK*

ACTIONS REQUIRED: \_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_



**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Travis Shimer

Date: 10-23-03

Signature: [Handwritten Signature]

Time: 6:00 AM

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases			
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	✓		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: \_\_\_\_\_

*None*

ACTIONS REQUIRED: \_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Travis R Shimer

Date: 10-30-03

Signature: *[Handwritten Signature]*

Time: 500 pm

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases			
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems			
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS:

*None*

ACTIONS REQUIRED:

FOLLOW-UP:

**ATTACHMENT 2**



U.S. Environmental Protection Agency  
Region 2 Laboratory

**Data Report: Vestal Well 1-1 [10/03]**

**Project Number: 03100039**

Program: Y206E

Project Leader: L. Niles

Remark Codes	Explanation
U	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT.
J	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE IS AN ESTIMATE.
UJ	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT. THE REPORTING LIMIT IS AN ESTIMATE.
N	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION.
NJ	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION. THE REPORTED VALUE IS AN ESTIMATE.
K	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTED TO BE LESS THAN THE REPORTED VALUE.
L	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED LOW. THE ACTUAL VALUE IS EXPECTED TO BE GREATER THAN THE REPORTED VALUE.
NV	NOT VALIDATED
INC	RESULT NOT ENTERED



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [10/03]

Project Number: 03100039

\*Sorted By Sample ID

AE04738

Field/Station ID: Influent  
Matrix: Aqueous

Date Received: 10/14/2003

Sample Description: 1-1 Well Influent

Analysis Type: VOA LOW LEVEL GCMS DRINK WTR

CAS Number	Analyte Name	Result	Remark Codes	Units
75-43-4	DICHLORODIFLUOROMETHANE	---	0.50U	ug/L
00074873	CHLOROMETHANE	---	0.50U	ug/L
000075014	VINYL CHLORIDE	4.0		ug/L
000074839	BROMOMETHANE	---	0.50U	ug/L
000075003	CHLOROETHANE	0.76		ug/L
000075694	TRICHLOROFLUOROMETHANE	---	0.50U	ug/L
000075354	1,1-DICHLOROETHENE	11		ug/L
000079345	1,1,2-TRICHLORO-1,2,2-TRIFLUOR	3.3		ug/L
000075150	CARBON DISULFIDE	---	0.50U	ug/L
000067641	ACETONE	---	7.0U	ug/L
79-20-9	METHYL ACETATE	---	0.50U	ug/L
000075092	METHYLENE CHLORIDE	---	0.50U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	0.50U	ug/L
001634044	METHYL TERT-BUTYL ETHER	3.4		ug/L
000075343	1,1-DICHLOROETHANE	23		ug/L
000156592	CIS-1,2-DICHLOROETHENE	54		ug/L
594-20-7	2,2-DICHLOROPROPANE	---	0.50U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	0.50U	ug/L
000067663	CHLOROFORM	---	0.50U	ug/L
71-55-6	1,1,1-TRICHLOROETHANE	120		ug/L
110-82-7	CYCLOHEXANE	---	0.50U	ug/L
000056235	CARBON TETRACHLORIDE	---	0.50U	ug/L
000563586	1,1-DICHLOROPROPENE	---	0.50U	ug/L
000071432	BENZENE	---	0.50U	ug/L
000107062	1,2-DICHLOROETHANE	---	0.50U	ug/L
025323891	TRICHLOROETHENE	44		ug/L
108-87-2	METHYLCYCLOHEXANE	---	0.50U	ug/L
000078875	1,2-DICHLOROPROPANE	---	0.50U	ug/L
000074953	DIBROMOMETHANE	---	0.50U	ug/L
000075274	BROMODICHLOROMETHANE	---	0.50U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	0.50U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	0.50U	ug/L
000127184	TETRACHLOROETHENE	---	0.50U	ug/L
000142289	1,3-DICHLOROPROPANE	---	0.50U	ug/L
000124481	DIBROMOCHLOROMETHANE	---	0.50U	ug/L
000106934	1,2-DIBROMOETHANE	---	0.50U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	0.50U	ug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 12/9/2003 11:17AM





U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [10/03]

Project Number: 03100039

\*Sorted By Sample ID

AE04738 Field/Station ID: Influent  
Matrix: Aqueous

Date Received: 10/14/2003

Sample Description: 1-1 Well Influent

Analysis Type: VOA LOW LEVEL GCMS DRINK WTR

CAS Number	Analyte Name	Result	Remark Codes	Units
000630206	1,1,1,2-TETRACHLOROETHANE	---	0.50U	ug/L
100-41-4	ETHYLBENZENE	---	0.50U	ug/L
001330207	M/P-XYLENE	---	0.50U	ug/L
000095476	O-XYLENE	---	0.50U	ug/L
000100425	STYRENE	---	0.50U	ug/L
000075252	BROMOFORM	---	0.50U	ug/L
000098828	ISOPROPYLBENZENE	---	0.50U	ug/L
000108861	BROMOBENZENE	---	0.50U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	0.50U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	0.50U	ug/L
000103651	N-PROPYLBENZENE	---	0.50U	ug/L
000095498	2-CHLOROTOLUENE	---	0.50U	ug/L
106-43-4	4-CHLOROTOLUENE	---	0.50U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	0.50U	ug/L
000098066	TERT-BUTYLBENZENE	---	0.50U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	0.50U	ug/L
135-98-8	SEC-BUTYLBENZENE	---	0.50U	ug/L
000541731	1,3-DICHLOROBENZENE	---	0.50U	ug/L
000106467	1,4-DICHLOROBENZENE	---	0.50U	ug/L
000095501	1,2-DICHLOROBENZENE	---	0.50U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	0.50U	ug/L
000104518	N-BUTYLBENZENE	---	0.50U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	0.50U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	0.50U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	0.50U	ug/L
000091203	NAPHTHALENE	---	0.50U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	0.50U	ug/L
	UNKNOWN CHLOROFLUOROCARBON, RT=5.02	1.0	NJ	ug/L

AE04739 Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 10/14/2003

Sample Description: 1-1 Well Effluent





U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [10/03]

Project Number: 03100039

\*Sorted By Sample ID

**AE04739**

Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 10/14/2003

Sample Description: 1-1 Well Effluent

**Analysis Type: VOA LOW LEVEL GCMS DRINK WTR**

CAS Number	Analyte Name	Result	Remark Codes	Units
75-43-4	DICHLORODIFLUOROMETHANE	---	0.50U	ug/L
00074873	CHLOROMETHANE	---	0.50U	ug/L
000075014	VINYL CHLORIDE	---	0.50U	ug/L
000074839	BROMOMETHANE	---	0.50U	ug/L
000075003	CHLOROETHANE	---	0.50U	ug/L
000075694	TRICHLOROFLUOROMETHANE	---	0.50U	ug/L
000075354	1,1-DICHLOROETHENE	---	0.50U	ug/L
000079345	1,1,2-TRICHLORO-1,2,2-TRIFLUOR	---	0.50U	ug/L
000075150	CARBON DISULFIDE	---	0.50U	ug/L
000067641	ACETONE	---	7.0U	ug/L
79-20-9	METHYL ACETATE	---	0.50U	ug/L
000075092	METHYLENE CHLORIDE	---	0.50U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	0.50U	ug/L
001634044	METHYL TERT-BUTYL ETHER	0.87		ug/L
000075343	1,1-DICHLOROETHANE	---	0.50U	ug/L
000156592	CIS-1,2-DICHLOROETHENE	---	0.50U	ug/L
594-20-7	2,2-DICHLOROPROPANE	---	0.50U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	0.50U	ug/L
000067663	CHLOROFORM	---	0.50U	ug/L
71-55-6	1,1,1-TRICHLOROETHANE	---	0.50U	ug/L
110-82-7	CYCLOHEXANE	---	0.50U	ug/L
000056235	CARBON TETRACHLORIDE	---	0.50U	ug/L
000563586	1,1-DICHLOROPROPENE	---	0.50U	ug/L
000071432	BENZENE	---	0.50U	ug/L
000107062	1,2-DICHLOROETHANE	---	0.50U	ug/L
025323891	TRICHLOROETHENE	---	0.50U	ug/L
108-87-2	METHYLCYCLOHEXANE	---	0.50U	ug/L
000078875	1,2-DICHLOROPROPANE	---	0.50U	ug/L
000074953	DIBROMOMETHANE	---	0.50U	ug/L
000075274	BROMODICHLOROMETHANE	---	0.50U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	0.50U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	0.50U	ug/L
000127184	TETRACHLOROETHENE	---	0.50U	ug/L
000142289	1,3-DICHLOROPROPANE	---	0.50U	ug/L



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [10/03]

Project Number: 03100039

\*Sorted By Sample ID

AE04739 Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 10/14/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINK WTR

CAS Number	Analyte Name	Result	Remark Codes	Units
000124481	DIBROMOCHLOROMETHANE	---	0.50U	ug/L
000106934	1,2-DIBROMOETHANE	---	0.50U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	0.50U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	---	0.50U	ug/L
100-41-4	ETHYLBENZENE	---	0.50U	ug/L
001330207	M/P-XYLENE	---	0.50U	ug/L
000095476	O-XYLENE	---	0.50U	ug/L
000100425	STYRENE	---	0.50U	ug/L
000075252	BROMOFORM	---	0.50U	ug/L
000098828	ISOPROPYLBENZENE	---	0.50U	ug/L
000108861	BROMOBENZENE	---	0.50U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	0.50U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	0.50U	ug/L
000103651	N-PROPYLBENZENE	---	0.50U	ug/L
000095498	2-CHLOROTOLUENE	---	0.50U	ug/L
106-43-4	4-CHLOROTOLUENE	---	0.50U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	0.50U	ug/L
000098066	TERT-BUTYLBENZENE	---	0.50U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	0.50U	ug/L
135-98-8	SEC-BUTYLBENZENE	---	0.50U	ug/L
000541731	1,3-DICHLOROBENZENE	---	0.50U	ug/L
000106467	1,4-DICHLOROBENZENE	---	0.50U	ug/L
000095501	1,2-DICHLOROBENZENE	---	0.50U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	0.50U	ug/L
000104518	N-BUTYLBENZENE	---	0.50U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	0.50U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	0.50U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	0.50U	ug/L
000091203	NAPHTHALENE	---	0.50U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	0.50U	ug/L

Project Approval: J. R. Palmer

Date: 12/16/03

SEPT 03



## FOSTER WHEELER ENVIRONMENTAL CORPORATION

NOV 17

12 November 2003  
RAC II-2003-220

Ms. Sharon Trocher  
Work Assignment Manager  
U.S. Environmental Protection Agency  
290 Broadway, 20<sup>th</sup> Floor  
New York, NY 10007-1866

**SUBJECT: USEPA RAC II CONTRACT NUMBER: 68-W-98-214  
WORK ASSIGNMENT NUMBER: 109-RALR-0238  
VESTAL WATER SUPPLY WELL, OPERABLE UNIT 1  
SEPTEMBER 2003 PERFORMANCE MONITORING REPORT**

Dear Ms. Trocher:

I am pleased to provide the September 2003 Monthly Performance Monitoring Report for the Vestal Water Supply Well treatment facility.

### **A. Monthly Operations**

The treatment system at the Vestal Water Supply Well operated continuously during the month of September, with the exception of the first three days. The fuse that was special-ordered in August was received and installed on 4 September. The Monthly Operating Report submitted by the Long Term Response Subcontractor, Aguilar Environmental, Inc., is included in Attachment 1. A summary of the operation and maintenance activities performed during September is as follows:

- Routine inspections of the facility were performed;
- Routine lawn maintenance was performed;
- The blower bearings were lubricated;
- Air filters were replaced;
- The liquid level in the wastewater underground storage tank (UST) was measured and recorded as full; and
- The monthly influent and effluent samples were collected.

### **B. Approximate Volumes of Groundwater Treated**

The following volumes of groundwater have been treated at the Vestal Water Supply treatment facility:

- Volume of groundwater treated during September 2003 (27 days at 50%) = 22.4 million gallons.

- Cumulative volume of groundwater treated for the year 2003 = 259.2 million gallons.
- Cumulative volume of groundwater treated for the OU-1 = 2343.4 million gallons.

**C. Comparison of Groundwater Influent and Effluent Concentration with Discharge Criteria**

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of September 2003 are included in Attachment 2. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

<u>Compound</u>	<u>Influent (ug/L)</u>	<u>Effluent (ug/L)</u>	<u>Discharge Criteria (ug/L)</u>
Vinyl Chloride	4.2	0.5 U	2
Chloroethane	1.4	0.5 U	
1,1-Dichloroethene*	18	0.5 U	5
Acetone	1.3	1.8	
Trans 1,2-Dichloroethene*	0.5 U	0.5 U	5
1,1-Dichloroethene*	39	0.5 U	5
Cis-1,2-Dichloroethene	95	0.6	5
Chloroform*	0.5 U	0.5 U	7
1,1,1-Trichloroethane*	250	0.5 U	5
Trichloroethene*	58	0.5 U	5
Total Volatile Organics*	466.9	2.4	100

Note: \* = Site Contaminant of Concern, and U = below reporting limit.

**D. Next Month's Activities**

The following activities are planned for October 2003:

- Installation of cathodic protection system for the well pump.
- Continue to monitor the wastewater UST to determine if water is entering or exiting the tank. If there is a problem, an internal inspection of the tank will be performed; and
- Routine system maintenance.

**E. Summary and Recommendations**

Based on the treatment plant influent and effluent data summarized above, it can be concluded that the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8197 if you should have any questions.

Sincerely,



Heidemarie Roldan  
Project Manager

Attachments

cc: K. Moncino (EPA)  
J. Drumm (NYSDEC)

**ATTACHMENT 1**



# **AGUILAR ENVIRONMENTAL, INC.**

919 Highway 33 - #47, Freehold, New Jersey 07728 • (732) 294-9980 • Fax (732) 294-9939

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**SEPTEMBER 2003**

## **MONTHLY OPERATING REPORT**

for

## **OPERATION & MAINTENANCE**

at

**VESTAL WELL 1-1 SITE  
VESTAL, NEW YORK**

Prepared for

**TETRA TECH FW, INC.**  
1000 The American Road  
Morris Plains, New Jersey 07950

**SUBCONTRACT #15623**

Prepared by

**AGUILAR ENVIRONMENTAL, INC.**  
919 Highway 33, Suite #47  
Freehold, New Jersey 07728



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**APPENDICES**

Appendix A - Copy of Log

Appendix B - Weekly Health and Safety Inspection Forms

## **1.0 INTRODUCTION**

The treatment system at Vestal Well 1-1 operated continuously during the month of September after an electrical problem was corrected on September 4<sup>th</sup> on an emergency basis. Routine inspections took place during the month. The pump control valve on the high service pump still drifts to a predominantly closed position, which causes the clearwell to overflow to the stream that feed the river. The surge control valve has been serviced and is now operating properly. Repairs to the pump control valve will be completed based on the availability of the contractor, who has problems in the family, which prevented him from completing the project.

## **2.0 MONTHLY OPERATIONS**

The following work took place:

- Routine site inspections of the facility.
- Acid clean float assembly and by-pass lines
- Mowing and trimming.
- Inspected level of underground storage tank - full
- Changed air filters
- Inspected level of UST - full.
- Monthly sampling with Simon.
- Lubricated blower bearings

## **3.0 REPAIR WORK**

All repair work that took place was mentioned above.

## **4.0 PROPOSED WORK**

- Finish pump control valve
- Rebuild surge relief valve
- Paint piping in stripper/blower building (after repair work is complete)
- Installation of cathodic protection for well pump



## **5.0 RECOMMENDATIONS**

It is recommended that the following be acted upon by Foster Wheeler.

1. Pursue getting approval to turn off high service pump

**APPENDIX A**  
**COPY OF LOG**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
September 2003

**AGUILAR ENVIRONMENTAL, INC.**

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919 Highway 33 - #47, Freehold, New Jersey 07728 ☐ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939

**1 Monday** 244-121  
 Contacted Elec Havers - No one has  
 time - Have to order 2-3 days

**2 Tuesday** 245-120  
 no visit

**3 Wednesday** 245-119  
 OK at site  
 System down - still no fuse  
 all OK

**4 Thursday** 247-118  
 picked up fuse - tried to start system  
 No-go! Called EQ Elec to diagnose!  
 found bad wiring in control system  
 repaired 2 lights that also  
 quit working, (blubs).

**5 Friday** 248-117  
 visited site  
 contacted Jones to get about 1/2 hr. repair  
 lamp control valve still going  
 full speed.

**6 Saturday** 249-116  
 no visit

**7 Sunday** 250-115  
 visited site all OK

STAPLES

8 Monday 255-114

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

no visit

9 Tuesday 252-112

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

United Site  
 Tried to adjust PC Valve to  
 a manual pintal position -  
 still drift closed.

10 Wednesday 255-112

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

no visit

11 Thursday 255-110

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

United Site  
 Weekly Health & Safety Insp.

12 Friday 255-110

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

no visit

13 Saturday 256-109

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

United Site  
 removed & turned

14 Sunday 257-108

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

no visit

STAPLES

15 Monday 258-107

7:30 AM No Visit

9:00 AM  
10:30 AM  
12:00 PM

16 Tuesday 258-108

7:30 AM United Site

9:00 AM  
10:30 AM  
12:00 PM  
1:30 PM  
3:00 PM  
4:30 PM  
6:00 PM  
7:30 PM  
9:00 PM  
10:30 PM  
12:00 AM

Indep Series: Day, Weekend

17 Wednesday 260-105

7:30 AM No Visit

9:00 AM  
10:30 AM  
12:00 PM  
1:30 PM  
3:00 PM  
4:30 PM  
6:00 PM  
7:30 PM  
9:00 PM  
10:30 PM  
12:00 AM

18 Thursday 261-101

7:30 AM United Site

9:00 AM  
10:30 AM  
12:00 PM  
1:30 PM  
3:00 PM  
4:30 PM  
6:00 PM  
7:30 PM  
9:00 PM  
10:30 PM  
12:00 AM

19 Friday 262-103

7:30 AM No Visit

9:00 AM  
10:30 AM  
12:00 PM  
1:30 PM  
3:00 PM  
4:30 PM  
6:00 PM  
7:30 PM  
9:00 PM  
10:30 PM  
12:00 AM

20 Saturday 263-102

7:30 AM No Visit

9:00 AM  
10:30 AM  
12:00 PM  
1:30 PM  
3:00 PM  
4:30 PM  
6:00 PM  
7:30 PM  
9:00 PM  
10:30 PM  
12:00 AM

21 Sunday 264-101

7:30 AM United Site - changed lines  
to floor assembly w/ acid  
& Boreano

STAPLES

GOALS

RESPONDERS

GOALS

GOALS

22 Monday 265-100

7:00	7:15
8:30	8:45
9:00	9:15
9:30	9:45
10:00	10:15
10:30	10:45
11:00	11:15
11:30	11:45
12:00	12:15

*no visit*

25 Thursday 268-097

7:00	7:15
8:30	8:45
9:00	9:15
9:30	9:45
10:00	10:15
10:30	10:45
11:00	11:15
11:30	11:45
12:00	12:15

*no visit*

23 Tuesday 266-098

7:00	7:15
8:30	8:45
9:00	9:15
9:30	9:45
10:00	10:15
10:30	10:45
11:00	11:15
11:30	11:45
12:00	12:15

*United State*

26 Friday 269-096

7:00	7:15
8:30	8:45
9:00	9:15
9:30	9:45
10:00	10:15
10:30	10:45
11:00	11:15
11:30	11:45
12:00	12:15

*United State*

24 Wednesday 267-098

7:00	7:15
8:30	8:45
9:00	9:15
9:30	9:45
10:00	10:15
10:30	10:45
11:00	11:15
11:30	11:45
12:00	12:15

*no visit*

27 Saturday 270-095

7:00	7:15
8:30	8:45
9:00	9:15
9:30	9:45
10:00	10:15
10:30	10:45
11:00	11:15
11:30	11:45
12:00	12:15

*no visit*

28 Sunday 271-094

7:00	7:15
8:30	8:45
9:00	9:15
9:30	9:45
10:00	10:15
10:30	10:45
11:00	11:15
11:30	11:45
12:00	12:15

*United State*

23 Tuesday 266-098 *Autumn Begins*

*see the same*

*United State*

*Weekly Health & Safety Corp.*

27 Saturday 270-095 *Rosh Hashanah (Begin at Sunset)*

28 Sunday 271-094 *Rosh Hashanah*

STAPLES

E F G H I J K L M N O P Q R S T U V W X Y Z

29 Monday 272-080

7:00	no visit	7:30	
8:00		8:30	
9:00		9:30	
10:00		10:30	
11:00		11:30	
12:00		12:30	

30 Tuesday 273-892

7:00	United	7:30	
8:00		8:30	
9:00		9:30	
10:00		10:30	
11:00		11:30	
12:00		12:30	

1 Wednesday 271-081

7:00	United Gate	7:30	
8:00		8:30	
9:00	University Health & Safety Dept.	9:30	
10:00		10:30	
11:00		11:30	
12:00		12:30	

2 Thursday 275-080

7:00	no visit	7:30	
8:00		8:30	
9:00		9:30	
10:00		10:30	
11:00		11:30	
12:00		12:30	

3 Friday 276-089

7:00	United Gate	7:30	
8:00	no visit	8:30	
9:00		9:30	
10:00		10:30	
11:00		11:30	
12:00		12:30	

4 Saturday 277-088

AM	no visit	PM	
7:00		7:30	
8:00		8:30	
9:00		9:30	
10:00		10:30	
11:00		11:30	
12:00		12:30	

5 Sunday 278-087

AM	no visit	PM	
7:00		7:30	
8:00		8:30	
9:00		9:30	
10:00		10:30	
11:00		11:30	
12:00		12:30	

Yom Kippur (Begins at Sunset)

STAPLES

## **APPENDIX B**

# **WEEKLY HEALTH & SAFETY INSPECTION FORMS**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
September 2003

**AGUILAR ENVIRONMENTAL, INC.**

---

919 Highway 33 - #47, Freehold, New Jersey 07728 ☎ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939



### VESTAL WELL 1-1 SITE WEEKLY HEALTH AND SAFETY INSPECTION FORM

Inspector's Name: Julia  
Signature: Julia

Date: 09/11/03  
Time: 4:00 PM

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	N/A		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	N/A		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS		YES	NO	OBSERVATIONS
Emergency Instructions		✓		
Fire Protection		✓		
Eye Wash and Showers		✓		
First Aid Kits/ Stations		✓		
PROTECTIVE EQUIPMENT		YES	NO	OBSERVATIONS
Eye Protection		✓		
Ear Protection		✓		
Respiratory Protection		✓		
Head Protection		✓		
Hand Protection		✓		
Foot Protection		✓		
Body Protection		✓		
WASTE STORAGE AREAS		YES	NO	OBSERVATIONS
Leak Storage		✓		
Underground Storage Tank		✓		

ADDITIONAL COMMENTS: AIR MONITORING - OK  
FIRE EXT. CK - OK  
SHOWER TEST - OK

CONDITIONS REQUIRED:

FOLLOW UP:

### VESTAL WELL 1-1 SITE WEEKLY HEALTH AND SAFETY INSPECTION FORM

Inspector's Name: Julia Miller  
 Signature: Julia Miller

Date: 09/04  
 Time: 3:00pm

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Stairways	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
<i>OK</i>			
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	<del>X</del>		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	<del>X</del>		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

*OKL*

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	<input checked="" type="checkbox"/>		
Fire Protection	<input checked="" type="checkbox"/>		
Eye Wash and Showers	<input checked="" type="checkbox"/>		
First Aid Kits/ Stations	<input checked="" type="checkbox"/>		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	<input checked="" type="checkbox"/>		
Ear Protection	<input checked="" type="checkbox"/>		
Respiratory Protection	<input checked="" type="checkbox"/>		
Head Protection	<input checked="" type="checkbox"/>		
Hand Protection	<input checked="" type="checkbox"/>		
Foot Protection	<input checked="" type="checkbox"/>		
Body Protection			
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	<input checked="" type="checkbox"/>		
Underground Storage Tank	<input checked="" type="checkbox"/>		

ADDITIONAL COMMENTS:

*Air Monitoring - OK  
Fire Ext - OK OK  
Shower Cat - OK*

ACTIONS REQUIRED:

*None*

FOLLOW-UP:

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Willy  
Signature: Telvin Quez

Date: 09-18-03  
Time: 4:00 pm

*me*

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	N/A		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	N/A		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Surface Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: all OK

air mon - OK  
Stress test OK  
Phone test OK

ACTIONS REQUIRED: None

FOLLOW-UP: \_\_\_\_\_

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Julia  
 Signature: Julia Quinn

Date: 09/26/03  
 Time: 3:30 pm

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	N/A		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	N/A		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

*OK*

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Hear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: *See Mon. - OK*  
*FIRE EXT - OK*  
*Shower test - OK*

ACTIONS REQUIRED: *None*

LOW-UP:



**ATTACHMENT 2**



U.S. Environmental Protection Agency  
Region 2 Laboratory

**Data Report: Vestal Well 1-1 [09/03]**

**Project Number: 03090004**

Program: Y206E

Project Leader: L. Niles

Remark Codes	Explanation
U	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT.
J	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE IS AN ESTIMATE.
UJ	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT. THE REPORTING LIMIT IS AN ESTIMATE.
N	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION.
NJ	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION. THE REPORTED VALUE IS AN ESTIMATE.
K	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTED TO BE LESS THAN THE REPORTED VALUE.
L	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED LOW. THE ACTUAL VALUE IS EXPECTED TO BE GREATER THAN THE REPORTED VALUE.
NV	NOT VALIDATED
INC	RESULT NOT ENTERED

**Case Narrative:**

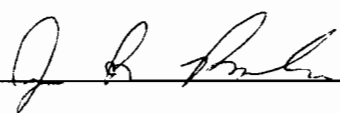
**Vestal Well 1-1 #03090004**

The Laboratory has met all data quality objectives, e.g., Target Reporting Limits, Accuracy and Precision, established for this project except where noted below.

**Reporting Limits:**

OLC03.2 contains a list of Contract Required Quantitation Limits (CRQLs) for each analyte. The Laboratory was able to achieve the listed CRQLs except for the following analytes:

Bromomethane, Bromochloromethane and n-Propylbenzene- the CRQL for these analytes in water is 0.5 ug/L. The Laboratory's Reporting Limit was raised to 1 ug/L for samples AE04227 & AE04228 due to poor response in the initial calibration curve.

Approval:  Date: 11/4/03



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [09/03]

Project Number: 03090004

\*Sorted By Sample ID

AE04227 Field/Station ID: Influent  
Matrix: Aqueous

Date Received: 9/5/2003

Sample Description: I-I Well Influent

Analysis Type: VOA LOW LEVEL GCMS DRINK WTR

CAS Number	Analyte Name	Result	Remark Codes	Units
00074873	CHLOROMETHANE	---	0.50U	ug/L
000075014	VINYL CHLORIDE	4.2		ug/L
000074839	BROMOMETHANE	---	1.0U	ug/L
000075003	CHLOROETHANE	1.4		ug/L
000075694	TRICHLOROFLUOROMETHANE	---	0.50U	ug/L
000075354	1,1-DICHLOROETHENE	18		ug/L
000075150	CARBON DISULFIDE	---	0.50U	ug/L
000067641	ACETONE	1.3		ug/L
000075092	METHYLENE CHLORIDE	---	0.50U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	0.50U	ug/L
000075343	1,1-DICHLOROETHANE	39		ug/L
000156592	CIS-1,2-DICHLOROETHENE	95		ug/L
594-20-7	2,2-DICHLOROPROPANE	---	0.50U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	1.0U	ug/L
000067663	CHLOROFORM	---	0.50U	ug/L
71-55-6	1,1,1-TRICHLOROETHANE	250		ug/L
000056235	CARBON TETRACHLORIDE	---	0.50U	ug/L
000563586	1,1-DICHLOROPROPENE	---	0.50U	ug/L
000071432	BENZENE	---	0.50U	ug/L
000107062	1,2-DICHLOROETHANE	---	0.50U	ug/L
025323891	TRICHLOROETHENE	58		ug/L
000078875	1,2-DICHLOROPROPANE	---	0.50U	ug/L
000074953	DIBROMOMETHANE	---	0.50U	ug/L
000075274	BROMODICHLOROMETHANE	---	0.50U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	0.50U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	0.50U	ug/L
000127184	TETRACHLOROETHENE	---	0.50U	ug/L
000142289	1,3-DICHLOROPROPANE	---	0.50U	ug/L
000124481	DIBROMOCHLOROMETHANE	---	0.50U	ug/L
000106934	1,2-DIBROMOETHANE	---	0.50U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	0.50U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	---	0.50U	ug/L
100-41-4	ETHYLBENZENE	---	0.50U	ug/L
001330207	M/P-XYLENE	---	0.50U	ug/L
000095476	O-XYLENE	---	0.50U	ug/L
000100425	STYRENE	---	0.50U	ug/L
000075252	BROMOFORM	---	0.50U	ug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/27/2003 2:59PM



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [09/03]

Project Number: 03090004

\*Sorted By Sample ID

**AE04227**

Field/Station ID: Influent

Date Received: 9/5/2003

Matrix: Aqueous

Sample Description: 1-1 Well Influent

**Analysis Type: VOA LOW LEVEL GCMS DRINK WTR**

CAS Number	Analyte Name	Result	Remark Codes	Units
000098828	ISOPROPYLBENZENE	---	0.50U	ug/L
000108861	BROMOBENZENE	---	0.50U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	0.50U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	0.50U	ug/L
000103651	N-PROPYLBENZENE	---	1.0U	ug/L
000095498	2-CHLOROTOLUENE	---	0.50U	ug/L
106-43-4	4-CHLOROTOLUENE	---	0.50U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	0.50U	ug/L
000098066	TERT-BUTYLBENZENE	---	0.50U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	0.50U	ug/L
135-98-8	SEC-BUTYLBENZENE	---	0.50U	ug/L
000541731	1,3-DICHLOROBENZENE	---	0.50U	ug/L
000106467	1,4-DICHLOROBENZENE	---	0.50U	ug/L
000095501	1,2-DICHLOROBENZENE	---	0.50U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	0.50U	ug/L
000104518	N-BUTYLBENZENE	---	0.50U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	0.50U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	0.50U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	0.50U	ug/L
000091203	NAPHTHALENE	---	0.50U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	0.50U	ug/L
	UNKNOWN CHLOROFLUOROCARBON, RT=5.04	1.0	NJ	ug/L
	ETHANE, 1,1,2-TRICHL-1,2,2-TRIFLUO, RT=5.46	2.0	NJ	ug/L
	PROPANE, 2-METHOXY-2-METHYL-, RT=7.82	5.0	NJ	ug/L

**AE04228**

Field/Station ID: Effluent

Date Received: 9/5/2003

Matrix: Aqueous

Sample Description: 1-1 Well Effluent

**Analysis Type: VOA LOW LEVEL GCMS DRINK WTR**

CAS Number	Analyte Name	Result	Remark Codes	Units
00074873	CHLOROMETHANE	---	0.50U	ug/L
000075014	VINYL CHLORIDE	---	0.50U	ug/L
000074839	BROMOMETHANE	---	1.0U	ug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/27/2003 2:59PM





U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [09/03]

Project Number: 03090004

\*Sorted By Sample ID

AE04228

Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 9/5/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINK WTR

CAS Number	Analyte Name	Result	Remark Codes	Units
000075003	CHLOROETHANE	---	0.50U	ug/L
000075694	TRICHLOROFLUOROMETHANE	---	0.50U	ug/L
000075354	1,1-DICHLOROETHENE	---	0.50U	ug/L
000075150	CARBON DISULFIDE	---	0.50U	ug/L
000067641	ACETONE	1.8		ug/L
000075092	METHYLENE CHLORIDE	---	0.50U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	0.50U	ug/L
000075343	1,1-DICHLOROETHANE	---	0.50U	ug/L
000156592	CIS-1,2-DICHLOROETHENE	0.60		ug/L
594-20-7	2,2-DICHLOROPROPANE	---	0.50U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	1.0U	ug/L
000067663	CHLOROFORM	---	0.50U	ug/L
71-55-6	1,1,1-TRICHLOROETHANE	---	0.50U	ug/L
000056235	CARBON TETRACHLORIDE	---	0.50U	ug/L
000563586	1,1-DICHLOROPROPENE	---	0.50U	ug/L
000071432	BENZENE	---	0.50U	ug/L
000107062	1,2-DICHLOROETHANE	---	0.50U	ug/L
025323891	TRICHLOROETHENE	---	0.50U	ug/L
000078875	1,2-DICHLOROPROPANE	---	0.50U	ug/L
000074953	DIBROMOMETHANE	---	0.50U	ug/L
000075274	BROMODICHLOROMETHANE	---	0.50U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	0.50U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	0.50U	ug/L
000127184	TETRACHLOROETHENE	---	0.50U	ug/L
000142289	1,3-DICHLOROPROPANE	---	0.50U	ug/L
000124481	DIBROMOCHLOROMETHANE	---	0.50U	ug/L
000106934	1,2-DIBROMOETHANE	---	0.50U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	0.50U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	---	0.50U	ug/L
100-41-4	ETHYLBENZENE	---	0.50U	ug/L
001330207	M/P-XYLENE	---	0.50U	ug/L
000095476	O-XYLENE	---	0.50U	ug/L
000100425	STYRENE	---	0.50U	ug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/27/2003 2:59PM



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [09/03]

Project Number: 03090004

\*Sorted By Sample ID

AE04228 Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 9/5/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINK WTR

CAS Number	Analyte Name	Result	Remark Codes	Units
000075252	BROMOFORM	---	0.50U	ug/L
000098828	ISOPROPYLBENZENE	---	0.50U	ug/L
000108861	BROMOBENZENE	---	0.50U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	0.50U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	0.50U	ug/L
000103651	N-PROPYLBENZENE	---	1.0U	ug/L
000095498	2-CHLOROTOLUENE	---	0.50U	ug/L
106-43-4	4-CHLOROTOLUENE	---	0.50U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	0.50U	ug/L
000098066	TERT-BUTYLBENZENE	---	0.50U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	0.50U	ug/L
135-98-8	SEC-BUTYLBENZENE	---	0.50U	ug/L
000541731	1,3-DICHLOROBENZENE	---	0.50U	ug/L
000106467	1,4-DICHLOROBENZENE	---	0.50U	ug/L
000095501	1,2-DICHLOROBENZENE	---	0.50U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	0.50U	ug/L
000104518	N-BUTYLBENZENE	---	0.50U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	0.50U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	0.50U	ug/L
87-68-3	HEXACHLOROBLUADIENE	---	0.50U	ug/L
000091203	NAPHTHALENE	---	0.50U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	0.50U	ug/L
	PROPANE, 2-METHOXY-2-METHYL-,RT=7.81	1.0	NJ	ug/L

Project Approval: \_\_\_\_\_

*J. D. [Signature]*

Date: \_\_\_\_\_

11/4/03

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/27/2003 2:59PM

TRANSMITTAL SLIP

TO M Dunham

FROM J Brown DATE 11/17/03

RE: vestal monthly report

NOV 8

FOR ACTION AS INDICATED:

- Please Handle
- Prepare Reply
- Prepare Reply for \_\_\_\_\_  
Signature
- Information
- Approval
- Prepare final/draft in \_\_\_\_\_ Copies

- Comments
- Signature
- File
- Return to me
- \_\_\_\_\_
- \_\_\_\_\_





# FOSTER WHEELER ENVIRONMENTAL CORPORATION

NOV 17 2003

12 November 2003  
RAC II-2003-219

Ms. Sharon Trocher  
Work Assignment Manager  
U.S. Environmental Protection Agency  
290 Broadway, 20<sup>th</sup> Floor  
New York, NY 10007-1866

**SUBJECT: USEPA RAC II CONTRACT NUMBER: 68-W-98-214  
WORK ASSIGNMENT NUMBER: 109-RALR-0238  
VESTAL WATER SUPPLY WELL, OPERABLE UNIT 1  
AUGUST 2003 PERFORMANCE MONITORING REPORT**

Dear Ms. Trocher:

I am pleased to provide the August 2003 Monthly Performance Monitoring Report for the Vestal Water Supply Well treatment facility.

## **A. Monthly Operations**

The treatment system at the Vestal Water Supply Well operated continuously during the month of August, with the exception of the last two days. The system was shut down due to a bad fuse, which had to be special ordered. The Monthly Operating Report submitted by the Long Term Response Subcontractor, Aguilar Environmental, Inc., is included in Attachment 1. A summary of the operation and maintenance activities performed during August is as follows:

- Routine inspections of the facility were performed;
- Routine lawn maintenance was performed;
- Air filters were replaced;
- The liquid level in the wastewater underground storage tank (UST) was measured and recorded as full;
- The pilot valve on the pump control valve was rebuilt.
- A small leak in the pre-lube line for the well pump was repaired; and
- The monthly influent and effluent samples were collected.

## **B. Approximate Volumes of Groundwater Treated**

The following volumes of groundwater have been treated at the Vestal Water Supply treatment facility:

- Volume of groundwater treated during August 2003 (29 days at 50%) = 24.0 million gallons.
- Cumulative volume of groundwater treated for the year 2003 = 236.8 million gallons.
- Cumulative volume of groundwater treated for the OU-1 = 2321 million gallons.

**C. Comparison of Groundwater Influent and Effluent Concentration with Discharge Criteria**

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of August 2003 are included in Attachment 2. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

<u>Compound</u>	<u>Influent (ug/L)</u>	<u>Effluent (ug/L)</u>	<u>Discharge Criteria (ug/L)</u>
Vinyl Chloride	3.8	0.5 U	2
Chloroethane	0.60	0.5 U	
1,1-Dichloroethene*	8.8	0.5 U	5
Acetone	1.0 U	2.5	
Trans 1,2-Dichloroethene*	0.5 U	0.5 U	5
1,1-Dichloroethane*	19	0.5 U	5
Cis-1,2-Dichloroethene	54	0.5 U	5
Chloroform*	0.5 U	0.5 U	7
1,1,1-Trichloroethane*	100	0.5 U	5
Trichloroethene*	39	0.5 U	5
Total Volatile Organics*	224.6	2.5	100

Note: \* = Site Contaminant of Concern, and U = below reporting limit.

**D. Next Month's Activities**


The following activities are planned for September 2003:

- Continue to monitor the wastewater UST to determine if water is entering or exiting the tank. If there is a problem, an internal inspection of the tank will be performed; and
- Routine system maintenance.

**E. Summary and Recommendations**

Based on the treatment plant influent and effluent data summarized above, it can be concluded that the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8197 if you should have any questions.

Sincerely,

  
 Heidemarie Roldan  
 Project Manager

Attachments

cc: K. Moncino (EPA)  
 J. Drumm (NYSDEC)

**ATTACHMENT 1**



# **AGUILAR ENVIRONMENTAL, INC.**

919 Highway 33 - #47, Freehold, New Jersey 07728 • (732) 294-9980 • Fax (732) 294-9939

---

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**AUGUST 2003**

## **MONTHLY OPERATING REPORT**

for

## **OPERATION & MAINTENANCE**

at

**VESTAL WELL 1-1 SITE  
VESTAL, NEW YORK**

Prepared for

**TETRA TECH FW, INC.**  
1000 The American Road  
Morris Plains, New Jersey 07950

**SUBCONTRACT #15623**

Prepared by

**AGUILAR ENVIRONMENTAL, INC.**  
919 Highway 33, Suite #47  
Freehold, New Jersey 07728

## TABLE OF CONTENTS

1.0	INTRODUCTION .....	1
2.0	MONTHLY OPERATIONS .....	1
3.0	REPAIR WORK .....	1
4.0	PROPOSED WORK .....	1
5.0	RECOMMENDATIONS .....	2

### **APPENDICES**

Appendix A - Copy of Log

Appendix B - Weekly Health and Safety Inspection Forms

## **1.0 INTRODUCTION**

The treatment system at Vestal Well 1-1 operated continuously during the month of August. Routine inspections took place during the month. The power failure that struck the northeast did not affect the operation of the facility. Power remained to the site at all times. The pump control valve was rebuilt, but still needs parts to make it function properly. These parts have been ordered and should arrive in 1-3 weeks. In the interim, the clearwell still overflows to the stream that feeds the river.

## **2.0 MONTHLY OPERATIONS**

The following work took place:

- Routine site inspections of the facility.
- Acid clean all strainers
- Mowing and trimming.
- Inspected level of underground storage tank - full
- Changed air filters
- Inspected level of UST - full.
- Monthly sampling with Simon.
- Repaired small leak in pre-lube line to well pump
- Rebuilt pilot valve on pump control valve

## **3.0 REPAIR WORK**

All repair work that took place was mentioned above.

## **4.0 PROPOSED WORK**

- Finish pump control valve
- Rebuild surge relief valve
- Paint piping in stripper/blower building (after repair work is complete)

## **5.0 RECOMMENDATIONS**

It is recommended that the following be acted upon by Foster Wheeler.

1. Pursue getting approval to turn off high service pump
2. Installation of cathodic protection system

**APPENDIX A**  
**COPY OF LOG**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
August 2003

**AGUILAR ENVIRONMENTAL, INC.**

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919 Highway 33 - #47, Freehold, New Jersey 07728 ■ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939



1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31					

INSPIRATIONS

COM'S

NOTES

28 Monday 200-156

No Unit

29 Tuesday 210-155

Unit Site

Adjusted Pump Control Valve  
psi down (still drops  
up over time. To fuel  
closed & over flow!

30 Wednesday 211-154

No Unit

31 Thursday 212-155

Unit Site

Weekly Health & Safety Supp.  
an moy - OK  
pane Ext. OK  
Shower ext - OK

1 Friday 213-152

Unit Site

all OK

Moured & turned

2 Saturday 214-151

No Unit

3 Sunday 215-150

Unit Site

call OK

STAPLES



GOALS	INSPIRATIONS	NOTES
4 Monday 216-149	7:00 8:00 9:00 10:00 11:00 12:00	1:00 2:00 3:00 4:00 5:00 6:00
	<i>W.D. Visit</i>	
5 Tuesday 217-148	7:00 8:00 9:00 10:00 11:00 12:00	1:00 2:00 3:00 4:00 5:00 6:00
	<i>W.D. Visit</i>	
	<i>cleaned up Maria's purchase</i>	
6 Wednesday 218-147	7:00 8:00 9:00 10:00 11:00 12:00	1:00 2:00 3:00 4:00 5:00 6:00
	<i>W.D. Visit</i>	
	<i>Wendy's Health &amp; Safety Insp.</i>	

GOALS	INSPIRATIONS	NOTES
7 Thursday 218-146	7:00 8:00 9:00 10:00 11:00 12:00	1:00 2:00 3:00 4:00 5:00 6:00
	<i>W.D. Visit</i>	
	<i>Sampled w/ Simon</i>	
8 Friday 220-145	7:00 8:00 9:00 10:00 11:00 12:00	1:00 2:00 3:00 4:00 5:00 6:00
	<i>W.D. Visit</i>	
9 Saturday 221-144	AM PM	
	<i>W.D. Visit</i>	
10 Sunday 222-149	AM PM	
	<i>W.D. Visit</i>	
	<i>pick up card &amp; board</i>	

STAPLES

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1	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	

GOALS

INSPIRATIONS

NOTES

11 Monday 223-142

*Winded Site*

*hanged in letters in  
Bower room (A)*

12 Tuesday 274-141

*No Jute*

13 Wednesday 225-140

*No Jute*

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1	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	

GOALS

INSPIRATIONS

PHOTOS

14 Thursday 226-139

*Winded Site*

*Weekly Health & Safety Insp.*

15 Friday 327-08

*Winded Site*

*March 8, 2003*

16 Saturday 228-137

*NO Jute*

17 Sunday 228-136

*Winded Site PM*

*All the same*

STAPLES

JULY 2003

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

62443

INSPIRATIONS

NOTES

18 Monday

230-135

*no visit*

19 Tuesday

231-134

*visit site*

*Richard Stronach  
can log in with us*

*Unlogged probing down here*

20 Wednesday

232-133

*no visit*

21 Thursday

233-132

*visit site*

*Wendy & DS (stop)*

22 Friday

234-131

*no visit*

23 Saturday

235-130

*no visit*

24 Sunday

236-129

*visit site*

*M. J. J. & M.*

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STAPLES

GOALS	INSPIRATIONS	NOTES
25 Monday 207-128	<i>id</i>	Exchange Bank Headers (UP)
26 Tuesday 238-127	<i>1/3 Just</i> <i>V.</i>	
27 Wednesday 209-126	<i>United State</i> <i>Whiskey Pines</i>	<i>map.</i>

GOALS	INSPIRATIONS	NOTES
28 Thursday 240-125	<i>United State - mtg etc</i>	
29 Friday 241-124	<i>No Visit</i>	
30 Saturday 242-123	<i>United State</i>	
31 Sunday 243-122	<i>System off - no alarm. found Bad time in Raw Pump Box. Went Sunday to 3 Hardware Store - No one has 2 or 3 Amp FRN-R2 Have to try Elec Supply Home no visit Sun.</i>	

STAPLES





AGUILAR ASSOCIATES

VESTAL

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
	F	S	Sa	W	T	W	Th	F	S	Sa	Su	M	T	W	Th
<b>WELL HOUSE</b>															
WELL PUMP PACKING	✓		✓		✓	✓	←	✓		✓	✓				✓
BYPASS LINE	✓		✓		✓	✓		✓		✓	✓				✓
PUMP MOTOR OIL	✓		✓		✓	✓		✓		✓	✓				✓
PUMP VIBRATION / HEAT	✓		✓		✓	✓		✓		✓	✓				✓
<b>CHEMICAL BUILDING</b>															
LEAK LAMP	✓		✓		✓	✓		✓		✓	✓				✓
RELIEF VALVE	—		—		—	✓		✓		✓	✓				✓
TEMPERATURE METER	—		—		—	50%		—		—	—				50%
DIALER - ALARMS	✓		✓		✓	✓		✓		✓	✓				✓
<b>ENGINE ROOM</b>															
ENGINE CONDITION	✓		✓		✓	✓		✓		✓	✓				✓
ENGINE PACKING INSP.	✓		✓		✓	✓		✓		✓	✓				✓
<b>MAIN PUMPHOUSE</b>															
GENERATOR AND MOTOR	✓		✓		✓	✓		✓		✓	✓				✓
AIR FILTERS	✓		✓		✓	✓		✓		✓	✓				✓
CONTROL PANEL	✓		✓		✓	✓		✓		✓	✓				✓
WELL LEVEL	↓2		↓2		↓2	↓2		↓2		↓2	↓2				↓2
BYPASS LINE	✓		✓		✓	✓		✓		✓	✓				✓
PUMP PACKING	✓		✓		✓	✓		✓		✓	✓				✓
M.S. PUMP MOTOR OIL	✓		✓		✓	✓		✓		✓	✓				✓
PUMP VIBRATION / HEAT	✓		✓		✓	✓		✓		✓	✓				✓
RELIEF VALVE	✓		✓		✓	✓		✓		✓	✓				✓
DIFFERENTIAL PRESSURE	120		120		120	115		100		110	110				110
DIALER METER READ	—		—		—	—		—		—	—				—
MOTOR CONT. CENTER	✓		✓		✓	✓		✓		✓	✓				✓
<b>OTHER</b>															
RECORDS	✓		✓		✓	✓		✓		✓	✓				✓
INGROUND TANK LEVEL	—		—		—	—		—		—	—				—
<b>AIR MONITORING</b>															
CO2 METER	—		—		—	✓		—		—	—				✓
TEMPERATURE	—		—		—	✓		—		—	—				✓
WELL HOUSE	—		—		—	✓		—		—	—				✓
CHEMICAL BUILDING	—		—		—	✓		—		—	—				✓
CHEMICAL BLDG. BASEMENT	—		—		—	✓		—		—	—				✓
ENGINE ROOM	—		—		—	✓		—		—	—				✓
MAIN PUMPHOUSE	—		—		—	✓		—		—	—				✓
	120		120		120	115		100		110	110				110

**APPENDIX B**

**WEEKLY HEALTH & SAFETY INSPECTION FORMS**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
August 2003

**AGUILAR ENVIRONMENTAL, INC.**

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919 Highway 33 - #47, Freehold, New Jersey 07728 ■ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939



**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Dennis L. Shuman  
 Signature: Dennis L. Shuman

Date: 08-05-03  
 Time: 7:00 AM

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases			
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems			
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

*OK*

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	<input checked="" type="checkbox"/>		
Fire Protection	<input checked="" type="checkbox"/>		
Eye Wash and Showers	<input checked="" type="checkbox"/>		
First Aid Kits/Stations	<input checked="" type="checkbox"/>		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	<input checked="" type="checkbox"/>		
Ear Protection	<input checked="" type="checkbox"/>		
Respiratory Protection	<input checked="" type="checkbox"/>		
Head Protection	<input checked="" type="checkbox"/>		
Hand Protection	<input checked="" type="checkbox"/>		
Foot Protection	<input checked="" type="checkbox"/>		
Body Protection	<input checked="" type="checkbox"/>		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	<input checked="" type="checkbox"/>		
Underground Storage Tank	<input checked="" type="checkbox"/>		

ADDITIONAL COMMENTS: *ael OK*  
*and monitoring - OK*  
*Shower/eye wash OK*  
*Fire Exts. OK*

ACTIONS REQUIRED: *None*

FOLLOW-UP:

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Dennis R. Shuman  
Signature: Dennis R. Shuman

Date: 08/14/03  
Time: 7:00 PM

OK

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	<del>✓</del>		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	<del>✓</del>		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

*OK*

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: *Oil Montana - OK*  
*Fumes & Hushes - OK*  
*Em. Shower test - OK*

ACTIONS REQUIRED: *None*

FOLLOW-UP:

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: D. SHIMMEL

Date: 10/27/03

Signature: [Handwritten Signature]

Time: 8:10 AM

*OK*

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	—	—	
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	—	—	
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

OK

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS:

Weekly H&S  
 Gas Monitoring - OK  
 Fire Ext. OK  
 Should test - OK

ACTIONS REQUIRED:

FOLLOW-UP:

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: D. Shiner  
 Signature: Dominic R. Shiner  
 OK?

Date: 08/27/03  
 Time: 1:00 PM

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	N/A		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	N/A		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

OK

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: Fire Ex OK - OK  
Shower test - OK  
Clear Monitoring - OK

ACTIONS REQUIRED: None

FOLLOW-UP:



**ATTACHMENT 2**



U.S. Environmental Protection Agency  
Region 2 Laboratory

**Data Report: Vestal Well 1-1 [08/03]**

**Project Number: 03080038**

Program: Y206E

Project Leader: L. Niles

Remark Codes	Explanation
U	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT.
J	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE IS AN ESTIMATE.
UJ	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT. THE REPORTING LIMIT IS AN ESTIMATE.
N	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION.
NJ	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION. THE REPORTED VALUE IS AN ESTIMATE.
K	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTED TO BE LESS THAN THE REPORTED VALUE.
L	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED LOW. THE ACTUAL VALUE IS EXPECTED TO BE GREATER THAN THE REPORTED VALUE.
NV	NOT VALIDATED
INC	RESULT NOT ENTERED



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [08/03]

Project Number: 03080038

\*Sorted By Sample ID

AE02425

Field/Station ID: Influent

Date Received: 8/8/2003

Matrix: Aqueous

Sample Description: 1-1 Well Influent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000074873	CHLOROMETHANE	---	0.50U	ug/L
000075014	VINYL CHLORIDE	3.8		ug/L
000074839	BROMOMETHANE	---	0.50U	ug/L
000075003	CHLOROETHANE	0.60		ug/L
000075694	TRICHLOROFLUOROMETHANE	---	0.50U	ug/L
000075354	1,1-DICHLOROETHENE	8.8		ug/L
000075150	CARBON DISULFIDE	---	0.50U	ug/L
000067641	ACETONE	---	1.0U	ug/L
000075092	METHYLENE CHLORIDE	---	0.50U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	0.50U	ug/L
000075343	1,1-DICHLOROETHANE	19		ug/L
000156592	CIS-1,2-DICHLOROETHENE	54		ug/L
000594207	2,2-DICHLOROPROPANE	---	0.50U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	0.50U	ug/L
000067663	CHLOROFORM	---	0.50U	ug/L
000071556	1,1,1-TRICHLOROETHANE	100		ug/L
000056235	CARBON TETRACHLORIDE	---	0.50U	ug/L
000563586	1,1-DICHLOROPROPENE	---	0.50U	ug/L
000071432	BENZENE	---	0.50U	ug/L
000107062	1,2-DICHLOROETHANE	---	0.50U	ug/L
025323891	TRICHLOROETHENE	39		ug/L
000078875	1,2-DICHLOROPROPANE	---	0.50U	ug/L
000074953	DIBROMOMETHANE	---	0.50U	ug/L
000075274	BROMODICHLOROMETHANE	---	0.50U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	0.50U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	0.50U	ug/L
000127184	TETRACHLOROETHENE	---	0.50U	ug/L
000142289	1,3-DICHLOROPROPANE	---	0.50U	ug/L
000124481	DIBROMOCHLOROMETHANE	---	0.50U	ug/L
000106934	1,2-DIBROMOETHANE	---	0.50U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	0.50U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	---	0.50U	ug/L
000100414	ETHYLBENZENE	---	0.50U	ug/L
001330207	M/P-XYLENE	---	0.50U	ug/L
000095476	O-XYLENE	---	0.50U	ug/L
000100425	STYRENE	---	0.50U	ug/L
000075252	BROMOFORM	---	0.50U	ug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 9/18/2003 2:45PM



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [08/03]

Project Number: 03080038

\*Sorted By Sample ID

AE02425

Field/Station ID: Influent  
Matrix: Aqueous

Date Received: 8/8/2003

Sample Description: 1-1 Well Influent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000098828	ISOPROPYLBENZENE	---	0.50U	ug/L
000108861	BROMOBENZENE	---	0.50U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	0.50U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	0.50U	ug/L
000103651	N-PROPYLBENZENE	---	0.50U	ug/L
000095498	2-CHLOROTOLUENE	---	0.50U	ug/L
000106434	4-CHLOROTOLUENE	---	0.50U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	0.50U	ug/L
000098066	TERT-BUTYLBENZENE	---	0.50U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	0.50U	ug/L
000135988	SEC-BUTYLBENZENE	---	0.50U	ug/L
000541731	1,3-DICHLOROBENZENE	---	0.50U	ug/L
000106467	1,4-DICHLOROBENZENE	---	0.50U	ug/L
000095501	1,2-DICHLOROBENZENE	---	0.50U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	0.50U	ug/L
000104518	N-BUTYLBENZENE	---	0.50U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	0.50U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	0.50U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	0.50U	ug/L
000091203	NAPHTHALENE	---	0.50U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	0.50U	ug/L
	ETHANE,112-TRICHLORO-122-TRIFLUORORT=5.5	1.0	NJ	ug/L
	PROPANE, 2-METHOXY-2-METHYL-,RT=7.86	2.0	NJ	ug/L

AE02426

Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 8/8/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000074873	CHLOROMETHANE	---	0.50U	ug/L
000075014	VINYL CHLORIDE	---	0.50U	ug/L
000074839	BROMOMETHANE	---	0.50U	ug/L
000075003	CHLOROETHANE	---	0.50U	ug/L





Survey Name: Vestal Well 1-1 [08/03]

Project Number: 03080038

\*Sorted By Sample ID

AE02426

Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 8/8/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000075694	TRICHLOROFLUOROMETHANE	---	0.50U	ug/L
000075354	1,1-DICHLOROETHENE	---	0.50U	ug/L
000075150	CARBON DISULFIDE	---	0.50U	ug/L
000067641	ACETONE	2.5		ug/L
000075092	METHYLENE CHLORIDE	---	0.50U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	0.50U	ug/L
000075343	1,1-DICHLOROETHANE	---	0.50U	ug/L
000156592	CIS-1,2-DICHLOROETHENE	---	0.50U	ug/L
000594207	2,2-DICHLOROPROPANE	---	0.50U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	0.50U	ug/L
000067663	CHLOROFORM	---	0.50U	ug/L
000071556	1,1,1-TRICHLOROETHANE	---	0.50U	ug/L
000056235	CARBON TETRACHLORIDE	---	0.50U	ug/L
000563586	1,1-DICHLOROPROPENE	---	0.50U	ug/L
000071432	BENZENE	---	0.50U	ug/L
000107062	1,2-DICHLOROETHANE	---	0.50U	ug/L
025323891	TRICHLOROETHENE	---	0.50U	ug/L
000078875	1,2-DICHLOROPROPANE	---	0.50U	ug/L
000074953	DIBROMOMETHANE	---	0.50U	ug/L
000075274	BROMODICHLOROMETHANE	---	0.50U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	0.50U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	0.50U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	0.50U	ug/L
000127184	TETRACHLOROETHENE	---	0.50U	ug/L
000142289	1,3-DICHLOROPROPANE	---	0.50U	ug/L
000124481	DIBROMOCHLOROMETHANE	---	0.50U	ug/L
000106934	1,2-DIBROMOETHANE	---	0.50U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	0.50U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	---	0.50U	ug/L
000100414	ETHYLBENZENE	---	0.50U	ug/L
001330207	M/P-XYLENE	---	0.50U	ug/L
000095476	O-XYLENE	---	0.50U	ug/L
000100425	STYRENE	---	0.50U	ug/L
000075252	BROMOFORM	---	0.50U	ug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 9/18/2003 2:45PM



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [08/03]

Project Number: 03080038

\*Sorted By Sample ID

AE02426

Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 8/8/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000098828	ISOPROPYLBENZENE	---	0.50U	ug/L
000108861	BROMOBENZENE	---	0.50U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	0.50U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	0.50U	ug/L
000103651	N-PROPYLBENZENE	---	0.50U	ug/L
000095498	2-CHLOROTOLUENE	---	0.50U	ug/L
000106434	4-CHLOROTOLUENE	---	0.50U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	0.50U	ug/L
000098066	TERT-BUTYLBENZENE	---	0.50U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	0.50U	ug/L
000135988	SEC-BUTYLBENZENE	---	0.50U	ug/L
000541731	1,3-DICHLOROBENZENE	---	0.50U	ug/L
000106467	1,4-DICHLOROBENZENE	---	0.50U	ug/L
000095501	1,2-DICHLOROBENZENE	---	0.50U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	0.50U	ug/L
000104518	N-BUTYLBENZENE	---	0.50U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	0.50U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	0.50U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	0.50U	ug/L
000091203	NAPHTHALENE	---	0.50U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	0.50U	ug/L
	PROPANE-2-METHOXY-2-METHYL-,RT=7.84	0.60	NJ	ug/L

Project Approval:

*J. R. [Signature]*

Date:

9/22/03

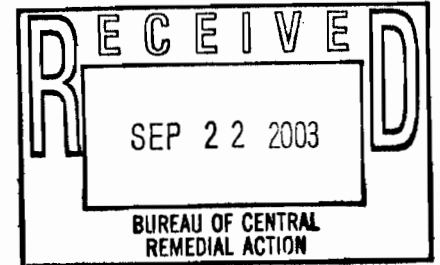
Refer to Page 1 for an explanation of Remark Codes  
Report Date: 9/18/2003 2:45PM



# FOSTER WHEELER ENVIRONMENTAL CORPORATION

18 September 2003  
RAC II-2003-192

Ms. Sharon Trocher  
Work Assignment Manager  
U.S. Environmental Protection Agency  
290 Broadway, 20<sup>th</sup> Floor  
New York, NY 10007-1866



**SUBJECT: USEPA RAC II CONTRACT NUMBER: 68-W-98-214  
WORK ASSIGNMENT NUMBER: 109-RALR-0238  
VESTAL WATER SUPPLY WELL, OPERABLE UNIT 1  
JULY 2003 PERFORMANCE MONITORING REPORT**

Dear Ms. Trocher:

I am pleased to provide the July 2003 Monthly Performance Monitoring Report for the Vestal Water Supply Well treatment facility.

## **A. Monthly Operations**

The treatment system at the Vestal Water Supply Well operated continuously during the month of July. The Monthly Operating Report submitted by the Long Term Response Subcontractor, Aguilar Environmental, Inc., is included in Attachment 1. A summary of the operation and maintenance activities performed during July is as follows:

- Routine inspections of the facility were performed;
- Routine lawn maintenance was performed;
- Air filters were replaced;
- The liquid level in the wastewater underground storage tank (UST) was measured and recorded as full;
- The monthly influent and effluent samples were collected; and
- The by-pass assembly was cleaned.

## **B. Approximate Volumes of Groundwater Treated**

The following volumes of groundwater have been treated at the Vestal Water Supply treatment facility:

- Volume of groundwater treated during July 2003 (31 days at 51%) = 26.2 million gallons.
- Cumulative volume of groundwater treated for the year 2003 = 212.8 million gallons.
- Cumulative volume of groundwater treated for the OU-1 = 2297 million gallons.



### C. Comparison of Groundwater Influent and Effluent Concentration with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of July 2003 are included in Attachment 2. A summary of the data for the compounds detected in the plant influent and effluent are as follows:

<u>Compound</u>	<u>Influent (ug/L)</u>	<u>Effluent (ug/L)</u>	<u>Discharge Criteria (ug/L)</u>
Vinyl Chloride	3.1	1.0 U	2
Chloroethane	0.60 J	1.0 U	
1,1-Dichloroethene*	9.2 K	1.0 U	5
Trans 1,2-Dichloroethene*	1.0 U	1.0 U	5
1,1-Dichloroethane*	23	1.0 U	5
Cis-1,2-Dichloroethene	58	1.0 U	5
Chloroform*	1.0 U	1.0 U	7
1,1,1-Trichloroethane*	120	1.0 U	5
Trichloroethene*	43	1.0 U	5
Total Volatile Organics*	256.9	None Detected	100

Note: \* = Site Contaminant of Concern, J = estimated value, K = value may be biased high, and U = below reporting limit.

### D. Next Month's Activities


The following activities are planned for August 2003:

- Continue to monitor the wastewater UST to determine if water is entering or exiting the tank. If there is a problem, an internal inspection of the tank will be performed; and
- Routine system maintenance.

### E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded that the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8197 if you should have any questions.

Sincerely,

  
Heidemarie Roldan  
Project Manager

### Attachments

cc: K. Moncino (EPA)  
J. Drumm (NYSDEC)



Attachment 1



# **AGUILAR ENVIRONMENTAL, INC.**

919 Highway 33 - #47, Freehold, New Jersey 07728 • (732) 294-9980 • Fax (732) 294-9939

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**JULY 2003**

## **MONTHLY OPERATING REPORT**

for

## **OPERATION & MAINTENANCE**

at

**VESTAL WELL 1-1 SITE  
VESTAL, NEW YORK**

Prepared for

**TETRA TECH FW, INC.**  
1000 The American Road  
Morris Plains, New Jersey 07950

**SUBCONTRACT #15623**

Prepared by

**AGUILAR ENVIRONMENTAL, INC.**  
919 Highway 33, Suite #47  
Freehold, New Jersey 07728

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2.0	MONTHLY OPERATIONS .....	1
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4.0	PROPOSED WORK .....	1
5.0	RECOMMENDATIONS .....	1

### **APPENDICES**

Appendix A - Copy of Log

Appendix B - Weekly Health and Safety Inspection Forms



## **1.0 INTRODUCTION**

The treatment system at Vestal Well 1-1 operated continuously during the month of July. Routine inspections took place during the month. The pump control valve has been rebuilt, but still has the tendency to drift to a predominantly closed position, which causes the clearwell to overflow to the stream that feed the river. Additional parts for the pump control valve and the surge control valve are on order and should arrive the week of August 18th. Both repairs will be completed upon arrival of the parts and availability of the contractor.

## **2.0 MONTHLY OPERATIONS**

The following work took place:

- Routine site inspections of the facility.
- Acid clean by pass assembly
- Mowing and trimming.
- Inspected fire extinguishers
- Changed air filters
- Inspected level of UST - full.
- Monthly sampling with Simon.

## **3.0 REPAIR WORK**

All repair work that took place was mentioned above.

## **4.0 PROPOSED WORK**

- Finish pump control valve
- Rebuild surge relief valve
- Paint piping in stripper/blower building (after repair work is complete)

## **5.0 RECOMMENDATIONS**

It is recommended that the following be acted upon by Foster Wheeler.

1. Pursue getting approval to turn off high service pump
2. Installation of cathodic protection system

**APPENDIX A**  
**COPY OF LOG**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
July 2003

**AGUILAR ENVIRONMENTAL, INC.**

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919 Highway 33 - #47, Freehold, New Jersey 07728 ■ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939

**30 JUNE-6 JULY** **WEEK 27**

JUNE 2003							JULY 2003							AUGUST 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30	31										

30 Monday	181-184	UNITED SITE	INSPIRATIONS	GOALS	NOTES
1 Tuesday	182-183	no visit	INSPIRATIONS	GOALS	California Day

**2003** **30 JUNE-6 JULY**

SEPTEMBER 2003							OCTOBER 2003							NOVEMBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30											

3 Thursday	184-181	no visit	INSPIRATIONS	GOALS	NOTES
4 Friday	185-180	UNITED SITE Moured & Tammy, perked up Trash	INSPIRATIONS	GOALS	Independence Day (US)

5 Saturday	186-179	no visit	INSPIRATIONS	GOALS	
6 Sunday	187-178	UNITED SITE all conditions the same Steel No paint	INSPIRATIONS	GOALS	

2 Wednesday	183-182	UNITED SITE Sampled with Sumner Selenity Mealed & Safety Insp. am-OK F.6 - OK; Showm-OK	INSPIRATIONS	GOALS	
-------------	---------	--	--------------	-------	--



7-13 JULY

WEEK 28

JUNE 2003							JULY 2003							AUGUST 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30													29	30	31				

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

7 Monday 188-177

7:00	United Site	1:00
8:00		2:00
9:00	Contracted for Water - Parts	
10:00	Have arrived will be scheduled	
11:00	for Next Week	
12:00		6:00

8 Tuesday 189-178

7:00	no chint	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

9 Wednesday 190-175

7:00	United Site	1:00
8:00		2:00
9:00	Weekly Health & Safety Insp.	
10:00	air monitoring - ok	
11:00	Site Extinguishers - ok	5:00
12:00	Showers test - ok	6:00

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2003

7-13 JULY

SEPTEMBER 2003							OCTOBER 2003							NOVEMBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30													29	30	31				

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

10 Thursday 191-174

7:00	no Unit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

11 Friday 192-173

7:00	United Site	1:00
8:00		2:00
9:00	Moured & Thru	3:00
10:00		4:00
11:00		5:00
12:00		6:00

12 Saturday 193-172

AM		PM

13 Sunday 194-171

AM	United Site	PM
	call SPAN	

STAPLES

14-20 JULY

WEEK 29

JUNE 2003							JULY 2003							AUGUST 2003																																															
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S																																									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

GOALS \_\_\_\_\_

INSPIRATIONS \_\_\_\_\_

NOTES \_\_\_\_\_

14 Monday 195-170

United Site

Aerial Chained Streamers, anal by paws Valve

15 Tuesday 196-189

No Unit

16 Wednesday 197-168

United Site

Weekly Health & Safety Insp.  
Sun Est ok  
Shower test  
- Ann Morsberg

2003

14-20 JULY

SEPTEMBER 2003							OCTOBER 2003							NOVEMBER 2003																																													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S																																							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

GOALS \_\_\_\_\_

INSPIRATIONS \_\_\_\_\_

NOTES \_\_\_\_\_

17 Thursday 198-167

United Site

Picked up amount faculty -  
crude & outside of fence  
Moved & trained

18 Friday 199-166

no Unit

19 Saturday 200-165

United Site PM

all ok

20 Sunday 201-164

No Unit PM

STAPLES

**21-27 JULY**

**WEEK 30**

JUNE 2003							JULY 2003							AUGUST 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30																			

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**21 Monday** 202-163

7:00	Control Site	1:00
8:00		2:00
9:00	Changed air filter in Blower Room	3:00
10:00		4:00
11:00		5:00
12:00		6:00

**22 Tuesday** 203-162

7:00	no Cont	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**23 Wednesday** 204-161

7:00	Control Site	1:00
8:00		2:00
9:00	Repaired Pump control Valve with fresh Water. Still need #2 pump & Sample Kit	3:00
10:00		4:00
11:00		5:00
12:00		6:00

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**2003**

SEPTEMBER 2003							OCTOBER 2003							NOVEMBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30																			

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**24 Thursday** 205-160

7:00	no Cont	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**25 Friday** 206-159

7:00	Control Site	1:00
8:00		2:00
9:00	Weekly Health & Safety Inspection	3:00
10:00		4:00
11:00	acc - OK Shower ok	5:00
12:00	acc EXT - OK	6:00

**26 Saturday** 207-158

AM	no Cont	PM
----	---------	----

**27 Sunday** 208-157

AM	Control Site	PM
	Reviewed & Monitored	

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**STAPLES**

28 JULY-3 AUGUST

WEEK 31

JUNE 2003							JULY 2003							AUGUST 2003																
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

28 Monday 209-156

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*no unit*

29 Tuesday 210-155

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*United Site*

*Adjusted Pump Control Valve psi down (still drafts up over time to fuel closed & over flow!*

30 Wednesday 211-154

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*no unit*

2003

28 JULY-3 AUGUST

SEPTEMBER 2003							OCTOBER 2003							NOVEMBER 2003																
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

31 Thursday 212-153

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*United Site*

*Weekly Health & Safety drop, am Mon - OK Fine Ext. OK Shower test - OK*

1 Friday 213-152

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*United Site*

*cell OK*

*Moved & turned*

2 Saturday 214-151

AM	PM
----	----

*no unit*

3 Sunday 215-150

AM	PM
----	----

*United Site cell OK*







**APPENDIX B**

**WEEKLY HEALTH & SAFETY INSPECTION FORMS**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
July 2003

**AGUILAR ENVIRONMENTAL, INC.**

919 Highway 33 - #47, Freehold, New Jersey 07728 ■ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: DEANIS  
 Signature: Dean P. Shiner

Date: 07-02-03  
 Time: 1:40 pm

*OK*

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	—		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	N/A		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		



EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: \_\_\_\_\_  
 Monitored air - OK  
 Check Fire Ext - OK  
 Showers test - OK

ACTIONS REQUIRED: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Shuman

Date: 7-9-03

Signature: Dan R. Shuman  
OK?

Time: 2:10

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	<del>✓</del>		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	<del>✓</del>		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems			
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: Mon. Air - OK  
Fire EXT - OK  
Showers - OK

ACTIONS REQUIRED: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: D. Flynn  
 Signature: [Handwritten Signature]

Date: 07-16-03  
 Time: 3:00 PM

OK?

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	✓		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	N/A		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

OK?

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	Full		

ADDITIONAL COMMENTS:

Air Quality Monitoring - OK  
Fire Extinguishers checked - OK  
Em. Shower test - OK

ACTIONS REQUIRED:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

FOLLOW-UP:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: D. SHUMER

Date: 07/23/03

Signature: [Handwritten Signature]

Time: 4:40 PM

OK

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	<del>✓</del>		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	<del>✓</del>		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

OK?

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS:

all OK!

ACTIONS REQUIRED:

FOLLOW-UP:

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: D. SHIMER

Date: 07-31-03

Signature: *D. Shimer*

Time: 2:55 PM

*OK*

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	<del>✓</del>		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	<del>✓</del>		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		



EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS:  
*Air test OK*  
*Fire Ext. - OK*  
*Showers - OK*

ACTIONS REQUIRED: *None!*

FOLLOW-UP: *None!*

Attachment 2

**Case Narrative:**

**Vestal Well 1-1 [07/03] #03070004**

The Laboratory has met all data quality objectives, e.g., Target Reporting Limits, Accuracy and Precision, established for this project except where noted below.

**Reporting Limits:**

OLC03.2 contains a list of Contract Required Quantitation Limits (CRQLs) for each analyte. The Laboratory was able to achieve the listed CRQLs except for the following analytes:

Acetone- the CRQL for Acetone in water is 5ug/L. The Laboratory's Reporting Limit was 8 ug/L. The reporting limit was raised to 8 ug/L for all samples due to blank contamination.

Approval: \_\_\_\_\_

*J. R. Baker*

Date: \_\_\_\_\_

*9/8/03*



U.S. Environmental Protection Agency  
Region 2 Laboratory

**Data Report: Vestal Well 1-1 [7/03]**

**Project Number: 03070004**

Program: Y206E

Project Leader: L. Niles

Remark Codes	Explanation
U	THE ANALYTE WAS NOT DETECTED, AT OR ABOVE THE REPORTING LIMIT.
J	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE IS AN ESTIMATE.
UJ	THE ANALYTE WAS NOT DETECTED, AT OR ABOVE THE REPORTING LIMIT. THE REPORTING LIMIT IS AN ESTIMATE.
N	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION.
NJ	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION. THE REPORTED VALUE IS AN ESTIMATE.
K	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTED TO BE LESS THAN THE REPORTED VALUE.
L	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED LOW. THE ACTUAL VALUE IS EXPECTED TO BE GREATER THAN THE REPORTED VALUE.
NV	NOT VALIDATED
INC	RESULT NOT ENTERED



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [7/03]

Project Number: 03070004

\*Sorted By Sample ID

AE01690 Field/Station ID: Influent  
Matrix: Aqueous

Date Received: 7/3/2003

Sample Description: 1-1 Well Influent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000074873	CHLOROMETHANE	---	1.0U	ug/L
000075014	VINYL CHLORIDE	3.1		ug/L
000074839	BROMOMETHANE	---	1.0U	ug/L
000075003	CHLOROETHANE	0.60	J	ug/L
000075694	TRICHLOROFLUOROMETHANE	---	1.0U	ug/L
000075354	1,1-DICHLOROETHENE	9.2	K	ug/L
000075150	CARBON DISULFIDE	---	1.0U	ug/L
000067641	ACETONE	---	8.0U	ug/L
000075092	METHYLENE CHLORIDE	---	1.0U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	1.0U	ug/L
000075343	1,1-DICHLOROETHANE	23		ug/L
000156592	CIS-1,2-DICHLOROETHENE	58		ug/L
000594207	2,2-DICHLOROPROPANE	---	1.0U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	1.0U	ug/L
000067663	CHLOROFORM	---	1.0U	ug/L
000071556	1,1,1-TRICHLOROETHANE	120		ug/L
000056235	CARBON TETRACHLORIDE	---	1.0U	ug/L
000563586	1,1-DICHLOROPROPENE	---	1.0U	ug/L
000071432	BENZENE	---	1.0U	ug/L
000107062	1,2-DICHLOROETHANE	---	1.0U	ug/L
025323891	TRICHLOROETHENE	43		ug/L
000078875	1,2-DICHLOROPROPANE	---	1.0U	ug/L
000074953	DIBROMOMETHANE	---	1.0U	ug/L
000075274	BROMODICHLOROMETHANE	---	1.0U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	1.0U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	1.0U	ug/L
000127184	TETRACHLOROETHENE	---	1.0U	ug/L
000142289	1,3-DICHLOROPROPANE	---	1.0U	ug/L
000124481	DIBROMOCHLOROMETHANE	---	1.0U	ug/L
000106934	1,2-DIBROMOETHANE	---	1.0U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	1.0U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	---	1.0U	ug/L
000100414	ETHYLBENZENE	---	1.0U	ug/L
001330207	M/P-XYLENE	---	1.0U	ug/L
000095476	O-XYLENE	---	1.0U	ug/L
000100425	STYRENE	---	1.0U	ug/L
000075252	BROMOFORM	---	1.0U	ug/L



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [7/03]

Project Number: 03070004

\*Sorted By Sample ID

AE01690 Field/Station ID: Influent  
Matrix: Aqueous

Date Received: 7/3/2003

Sample Description: 1-1 Well Influent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000098828	ISOPROPYLBENZENE	---	1.0U	ug/L
000108861	BROMOBENZENE	---	1.0U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	1.0U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	1.0U	ug/L
000103651	N-PROPYLBENZENE	---	1.0U	ug/L
000095498	2-CHLOROTOLUENE	---	1.0U	ug/L
000106434	4-CHLOROTOLUENE	---	1.0U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	1.0U	ug/L
000098066	TERT-BUTYLBENZENE	---	1.0U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	1.0U	ug/L
000135988	SEC-BUTYLBENZENE	---	1.0U	ug/L
000541731	1,3-DICHLOROBENZENE	---	1.0U	ug/L
000106467	1,4-DICHLOROBENZENE	---	1.0U	ug/L
000095501	1,2-DICHLOROBENZENE	---	1.0U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	1.0U	ug/L
000104518	N-BUTYLBENZENE	---	1.0U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	1.0U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	1.0U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	1.0U	ug/L
000091203	NAPHTHALENE	---	1.0U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	1.0U	ug/L
	UNKNOWN CHLOROFLUOROCARBON,RT=5.11	0.50	NJ	ug/L
	ETHANE, 1,1,2-TRICHLORO-1,2,2-TR,RT=5.53	1.0	NJ	ug/L
	PROPANE, 2-METHOXY-2-METHYL-,RT=7.90	3.0	NJ	ug/L

AE01691 Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 7/3/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000074873	CHLOROMETHANE	---	1.0U	ug/L
000075014	VINYL CHLORIDE	---	1.0U	ug/L
000074839	BROMOMETHANE	---	1.0U	ug/L





U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [7/03]

Project Number: 03070004

\*Sorted By Sample ID

AE01691 Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 7/3/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000075003	CHLOROETHANE	---	1.0U	ug/L
000075694	TRICHLOROFLUOROMETHANE	---	1.0U	ug/L
000075354	1,1-DICHLOROETHENE	---	1.0U	ug/L
000075150	CARBON DISULFIDE	---	1.0U	ug/L
000067641	ACETONE	---	8.0U	ug/L
000075092	METHYLENE CHLORIDE	---	1.0U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	1.0U	ug/L
000075343	1,1-DICHLOROETHANE	---	1.0U	ug/L
000156592	CIS-1,2-DICHLOROETHENE	---	1.0U	ug/L
000594207	2,2-DICHLOROPROPANE	---	1.0U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	1.0U	ug/L
000067663	CHLOROFORM	---	1.0U	ug/L
000071556	1,1,1-TRICHLOROETHANE	---	1.0U	ug/L
000056235	CARBON TETRACHLORIDE	---	1.0U	ug/L
000563586	1,1-DICHLOROPROPENE	---	1.0U	ug/L
000071432	BENZENE	---	1.0U	ug/L
000107062	1,2-DICHLOROETHANE	---	1.0U	ug/L
025323891	TRICHLOROETHENE	---	1.0U	ug/L
000078875	1,2-DICHLOROPROPANE	---	1.0U	ug/L
000074953	DIBROMOMETHANE	---	1.0U	ug/L
000075274	BROMODICHLOROMETHANE	---	1.0U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	1.0U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	1.0U	ug/L
000127184	TETRACHLOROETHENE	---	1.0U	ug/L
000142289	1,3-DICHLOROPROPANE	---	1.0U	ug/L
000124481	DIBROMOCHLOROMETHANE	---	1.0U	ug/L
000106934	1,2-DIBROMOETHANE	---	1.0U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	1.0U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	---	1.0U	ug/L
000100414	ETHYLBENZENE	---	1.0U	ug/L
001330207	M/P-XYLENE	---	1.0U	ug/L
000095476	O-XYLENE	---	1.0U	ug/L
000100425	STYRENE	---	1.0U	ug/L



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [7/03]

Project Number: 03070004

\*Sorted By Sample ID

AE01691 Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 7/3/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000075252	BROMOFORM	---	1.0U	ug/L
000098828	ISOPROPYLBENZENE	---	1.0U	ug/L
000108861	BROMOBENZENE	---	1.0U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	1.0U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	1.0U	ug/L
000103651	N-PROPYLBENZENE	---	1.0U	ug/L
000095498	2-CHLOROTOLUENE	---	1.0U	ug/L
000106434	4-CHLOROTOLUENE	---	1.0U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	1.0U	ug/L
000098066	TERT-BUTYLBENZENE	---	1.0U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	1.0U	ug/L
000135988	SEC-BUTYLBENZENE	---	1.0U	ug/L
000541731	1,3-DICHLOROBENZENE	---	1.0U	ug/L
000106467	1,4-DICHLOROBENZENE	---	1.0U	ug/L
000095501	1,2-DICHLOROBENZENE	---	1.0U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	1.0U	ug/L
000104518	N-BUTYLBENZENE	---	1.0U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	1.0U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	1.0U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	1.0U	ug/L
000091203	NAPHTHALENE	---	1.0U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	1.0U	ug/L
	PROPANE, 2-METHOXY-2-METHYL-,RT=7.89	0.70	NJ	ug/L

Project Approval: \_\_\_\_\_

*J. R. [Signature]*

Date: \_\_\_\_\_

*9/8/03*

Refer to Page 1 for an explanation of Remark Codes

Report Date: 8/22/2003 12:29PM





# FOSTER WHEELER ENVIRONMENTAL CORPORATION

2 September 2003  
RAC II-2003-179

Ms. Sharon Trocher  
Work Assignment Manager  
U.S. Environmental Protection Agency  
290 Broadway, 20<sup>th</sup> Floor  
New York, NY 10007-1866

**SUBJECT: USEPA RAC II CONTRACT NUMBER: 68-W-98-214  
WORK ASSIGNMENT NUMBER: 109-RALR-0238  
VESTAL WATER SUPPLY WELL, OPERABLE UNIT 1  
JUNE 2003 PERFORMANCE MONITORING REPORT**

Dear Ms. Trocher:

I am pleased to provide the June 2003 Monthly Performance Monitoring Report for the Vestal Water Supply Well treatment facility.

## **A. Monthly Operations**

The treatment system at the Vestal Water Supply Well operated continuously during the month of June. The Monthly Operating Report submitted by the Long Term Response Subcontractor, Aguilar Environmental, Inc., is included in Attachment 1. A summary of the operation and maintenance activities performed during June is as follows:

- Routine inspections of the facility were performed;
- Routine lawn maintenance was performed;
- Air filters were replaced;
- The liquid level in the wastewater underground storage tank (UST) was measured and recorded as full;
- The monthly influent and effluent samples were collected;
- The float assembly was cleaned; and
- A meeting was held to discuss rerouting the discharge piping into the adjacent drainage swale rather than the high service pump currently used to discharge to the Susquehanna River.

## **B. Approximate Volumes of Groundwater Treated**

The following volumes of groundwater have been treated at the Vestal Water Supply treatment facility:

- Volume of groundwater treated during June 2003 (30 days at 57%) = 28.3 million gallons.
- Cumulative volume of groundwater treated for the year 2003 = 186.6 million gallons.
- Cumulative volume of groundwater treated for the OU-1 = 2270.8 million gallons.



1000 THE AMERICAN ROAD, MORRIS PLAINS, NJ 07950

TEL: 973-630-8000 FAX: 973-630-8025

**C. Comparison of Groundwater Influent and Effluent Concentration with Discharge Criteria**

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of June 2003 are included in Attachment 2. A summary of the data for the compounds detected in the plant influent and effluent are as follows:

<u>Compound</u>	<u>Influent (ug/L)</u>	<u>Effluent (ug/L)</u>	<u>Discharge Criteria (ug/L)</u>
Vinyl Chloride	4.3	1.0 U	2
Chloroethane	0.60 J	1.0 U	
1,1-Dichloroethene*	8.5	1.0 U	5
Trans 1,2-Dichloroethene*	1.0 U	1.0 U	5
1,1-Dichloroethane*	19	1.0 U	5
Cis-1,2-Dichloroethene	43	1.0 U	5
Chloroform*	1.0 U	1.0 U	7
1,1,1-Trichloroethane*	80	1.0 U	5
Trichloroethene*	31	1.0 U	5
Total Volatile Organics*	186.4	0.80 J	100

Note: \* = Site Contaminant of Concern, J = estimated value, and U = below reporting limit.

**D. Next Month's Activities**


The following activities are planned for July 2003:

- Continue to monitor the wastewater UST to determine if water is entering or exiting the tank. If there is a problem, an internal inspection of the tank will be performed; and
- Routine system maintenance.

**E. Summary and Recommendations**

Based on the treatment plant influent and effluent data summarized above, it can be concluded that the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8197 if you should have any questions.

Sincerely,

  
 Heidemarie Roldan  
 Project Manager

Attachments

cc: K. Moncino (EPA)  
 J. Drumm (NYSDEC)

Attachment 1



# **AGUILAR ENVIRONMENTAL, INC.**

919 Highway 33 - #47, Freehold, New Jersey 07728 • (732) 294-9980 • Fax (732) 294-9939

---

**JUNE 2003**

## **MONTHLY OPERATING REPORT**

for

## **OPERATION & MAINTENANCE**

at

**VESTAL WELL 1-1 SITE  
VESTAL, NEW YORK**

Prepared for

**TETRA TECH FW, INC.**  
1000 The American Road  
Morris Plains, New Jersey 07950

**SUBCONTRACT #15623**

Prepared by

**AGUILAR ENVIRONMENTAL, INC.**  
919 Highway 33, Suite #47  
Freehold, New Jersey 07728

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### **APPENDICES**

Appendix A - Copy of Log

Appendix B - Weekly Health and Safety Inspection Forms

## **1.0 INTRODUCTION**

The treatment system at Vestal Well 1-1 operated continuously during the month of June. Routine inspections took place during the month. The pump control valve still drift to a predominantly closed position, which causes the clearwell to overflow to the stream that feed the river. Parts have been ordered to rebuild the pump control valve and the surge control valve. Both repairs will be completed upon arrival of the parts and availability of the contractor. The vendor has received confirmation of shipment and parts are scheduled to arrive on July 7th.

## **2.0 MONTHLY OPERATIONS**

The following work took place:

- Routine site inspections of the facility.
- Acid clean float assembly
- Mowing and trimming.
- Lubricated blower bearings
- Changed air filters
- Inspected level of UST - full.
- Monthly sampling with Simon.
- Attended meeting with USEPA and NYDEC on discontinuing use of the high service pump.

## **3.0 REPAIR WORK**

All repair work that took place was mentioned above.

## **4.0 PROPOSED WORK**

- Rebuild pump control valve
- Rebuild surge relief valve
- Paint piping in stripper/blower building (after repair work is complete)

## **5.0 RECOMMENDATIONS**

It is recommended that the following be acted upon by Foster Wheeler.

1. Pursue getting approval to turn off high service pump
2. Approval and Installation of cathodic protection system

AB CD EF GH IJ KL MN OP QR ST UVW XYZ

2003 26 MAY-1 JUNE

JULY 2003							AUGUST 2003							SEPTEMBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30	31			1	2	3	4	5	6	7	
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
28	29	30	31																	

INSPIRATIONS NOTES

29 Thursday 149-216

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

30 Friday 150-215 Memorial Day (US)

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

31 Saturday 151-214

AM	PM
----	----

1 Sunday 152-213

AM	PM
----	----

STAPLES

WEEK 22

MAY 2003							JUNE 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	
14	15	16	17	18	19	20	21	22	23	24	25	26	
27	28	29	30	31			1	2	3	4	5	6	
7	8	9	10	11	12	13	14	15	16	17	18	19	
20	21	22	23	24	25	26	27	28	29	30	31		

INSPIRATIONS NOTES

26 Monday 146-219 Memorial Day (Observed - US), Spring Bank Holiday (UK)

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

27 Tuesday 147-218

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

28 Wednesday 148-217

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

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2003 2-8 JUNE

AUGUST 2003							SEPTEMBER 2003							OCTOBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7

GOALS INSPIRATIONS NOTES

5 Thursday 156-208  
 7:00 *Worked Site*  
 8:00 *Monthly Sampling*  
 9:00 *Check on H.S. Pump Valve parts - still on Bank ordered*

6 Friday 157-208  
 7:00 *no visit*  
 8:00  
 9:00  
 10:00  
 11:00  
 12:00

7 Saturday 158-207  
 8:00 *no visit*  
 9:00  
 10:00  
 11:00  
 12:00

8 Sunday 159-206  
 8:00 *no visit*

2-8 JUNE WEEK 23

MAY 2003							JUNE 2003							JULY 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7

GOALS INSPIRATIONS NOTES

2 Monday 153-212  
 7:00  
 8:00  
 9:00  
 10:00  
 11:00  
 12:00

3 Tuesday 154-211  
 7:00 *Worked Site - Shut down system to do routine work. H.S. Pump Made some noise (quick stop) on shut down & Start up. Hays must be contacted.*  
 8:00  
 9:00  
 10:00  
 11:00  
 12:00

4 Wednesday 155-210  
 7:00 *Worked Site*  
 8:00  
 9:00 *Weekly Health & Safety Insp.*  
 10:00 *- run - ok*  
 11:00 *- F.E. - OK*  
 12:00 *- Shower - ok*

**WEEK 24**

MAY 2003		JUNE 2003		JULY 2003	
S	M	T	W	T	W
1	2	3	4	5	6
8	9	10	11	12	13
15	16	17	18	19	20
22	23	24	25	26	27
29	30	31			

GOALS INSPIRATIONS NOTES

9 Monday 160-205

7:00	United Site	1:00
8:00		2:00
9:00	Manual & Training	3:00
10:00		4:00
11:00	Sampled with Simon	5:00
12:00		

10 Tuesday 161-204

7:00	No Unit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

11 Wednesday 162-203

7:00	United Site	1:00
8:00		2:00
9:00	Weekly Health & Safety Inspection	3:00
10:00	Air Mon - OK	4:00
11:00	Flare Ext - OK	5:00
12:00	Show tent - OK	6:00

SAFETY REPORT (Sheet), CALLUS (M), DENSITY (M), AIR RETURNS INSPECTION

**9-15 JUNE**

AUGUST 2003		SEPTEMBER 2003		OCTOBER 2003	
S	M	T	W	T	W
1	2	3	4	5	6
8	9	10	11	12	13
15	16	17	18	19	20
22	23	24	25	26	27
29	30	31			

GOALS INSPIRATIONS NOTES

12 Thursday 163-202

7:00	No Unit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

13 Friday 164-201

7:00	United Site	1:00
8:00		2:00
9:00	Changed air filters in Blower Room	3:00
10:00		4:00
11:00		5:00
12:00	System over flowing steel	6:00

14 Saturday 165-200

AM	No Unit	PM

FATHER'S DAY

STAPLES

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

**2003** **16-22 JUNE**

AUGUST 2003							SEPTEMBER 2003							OCTOBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
31																				

GOALS INSPIRATIONS NOTES

**19 Thursday** 170-196

7:00 *No Vent* 1:00

3:00 2:00

9:00 2:00

11:00 4:00

12:00 5:00

12:00 6:00

**20 Friday** 171-194

7:00 *United Gate* 1:00

8:00 2:00

9:00 *Mound & Farmstead Site* 3:00

10:00 4:00

11:00 5:00

12:00 6:00

**21 Saturday** 172-193 Summer Begins

AM *no visit* PM

**22 Sunday** 173-192

AM *United Gate - see the Jones!* PM

STAPLES

**16-22 JUNE** **WEEK 25**

MAY 2003							JUNE 2003							JULY 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6	7	8	9	10	
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
31																				

GOALS INSPIRATIONS NOTES

**16 Monday** 167-198

7:00 *United Gate* 1:00

3:00 2:00

9:00 *Change air filter in Blower Room* 3:00

11:00 4:00

12:00 5:00

**17 Tuesday** 168-197

7:00 *No Vent* 1:00

8:00 2:00

3:00 3:00

9:00 4:00

11:00 5:00

12:00 6:00

**18 Wednesday** 169-196

7:00 *United Gate* 1:00

3:00 2:00

9:00 *Whiskey Shovel & Safety Trip* 4:00

10:00 *air - OK* 4:00

11:00 *light - OK* 5:00

12:00 *Shower - OK* 6:00

ESCAPE PLAN (SHEET), COLLAS (BIA), DRUMS (MAY ALL PARTS MISSING)

2003 23-29 JUNE

AUGUST 2003							SEPTEMBER 2003							OCTOBER 2003																
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

GOALS INSPIRATIONS NOTES

26 Thursday 177-188

7:00 Visited Site

8:00

9:00 Weekly Health & Safety Inspections.

10:00

11:00

12:00

27 Friday 178-187

7:00 Visited Site

8:00

9:00 Moved & trimmed inside fence area

10:00

11:00

12:00

28 Saturday 179-188

AM No Unit

PM

29 Sunday 180-185

AM Visited Site - cut grass outside fence

STAPLES

23-29 JUNE WEEK 26

MAY 2003							JUNE 2003							JULY 2003																
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

GOALS INSPIRATIONS NOTES

23 Monday 174-191

7:00 Visited Site

8:00

9:00 Picked up 39 Beehives from fence area by Fire Hydrant

10:00

11:00

12:00 Cleaned up H.S. Pump Room.

24 Tuesday 175-190

7:00 Visited Site

8:00

9:00 Met w/ EPA, USDOE & F.W. at site to continue investigating elimination of H.S. Pump

10:00

11:00

12:00

25 Wednesday 176-189

7:00 No Unit

8:00

9:00

10:00

11:00

12:00

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

**2003 30 JUNE-6 JULY**

SEPTEMBER 2003			OCTOBER 2003			NOVEMBER 2003		
S	M	T	S	M	T	S	M	T
1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30						

GOALS	INSPIRATIONS	NOTES
3 Thursday	184-181	
7:00	<i>no visit</i>	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

GOALS	INSPIRATIONS	NOTES
4 Friday	185-180	Independence Day (US)
7:00	<i>United Site</i>	1:00
8:00		2:00
9:00	<i>Moved &amp; Tanned, perked up</i>	
10:00	<i>Back</i>	4:00
11:00		5:00
12:00		6:00

GOALS	INSPIRATIONS	NOTES
5 Saturday	186-179	
AM	<i>no visit</i>	PM
6 Sunday	187-178	
AM	<i>United Site</i>	PM
	<i>all conditions the same</i>	
	<i>Spec No prints</i>	



**30 JUNE-6 JULY WEEK 27**

JUNE 2003			JULY 2003			AUGUST 2003		
S	M	T	S	M	T	S	M	T
1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30						

GOALS	INSPIRATIONS	NOTES
30 Monday	181-184	
7:00	<i>United Site</i>	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

GOALS	INSPIRATIONS	NOTES
1 Tuesday	182-183	Canada Day
7:00	<i>no visit</i>	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

GOALS	INSPIRATIONS	NOTES
2 Wednesday	183-182	
7:00	<i>United Site</i>	1:00
8:00		2:00
9:00	<i>Sampled with the Sunman</i>	3:00
10:00		4:00
11:00	<i>Celebrity Males &amp; Safety Insp.</i>	5:00
12:00	<i>am-ok, F.G-O.K, Shown-o.k</i>	6:00

# AGUILAR ASSOCIATES

# VESTAL

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	S	M	T	W	TH	F	S	SA	M	T	W	TH	F	S
<b>WELL HOUSE</b>														
WELL PUMP PACKING	✓		✓	✓	✓				✓		✓		✓	
PRE LUBE LINE	✓		✓	✓	✓				✓		✓		✓	
PUMP MOTOR OIL	✓		✓	✓	✓				✓		✓		✓	
PUMP VIBRATION / HEAT	✓		✓	✓	✓				✓		✓		✓	
<b>CHEMICAL BUILDING</b>														
SUMP PUMP	✓		✓	✓	✓				✓		✓		✓	
DISCHARGE VALVES	-		-	✓	-				✓		✓		-	
FLOW METER %	-		-	50%	-				55%		50%		-	
DIALER - ALARMS	✓		✓	✓	✓				✓		✓		✓	
<b>CHLORINE ROOM</b>														
GENERAL CONDITION	✓		✓	✓	✓				✓		✓		✓	
TOWER PACKING INSP	✓		✓	✓	✓				✓		✓		✓	
<b>MAIN PUMPHOUSE</b>														
BLOWER AND MOTOR	✓		✓	✓	✓				✓		✓		✓	
BLOWER AIR FILTERS	✓		✓	✓	✓				✓		✓		✓	
ALARM CONTROL PANEL	✓		✓	✓	✓				✓		✓		✓	
CLEARWELL LEVEL	↓2		↓2	↓2	↓2				↓2		↓2		↓2	↓
FLOAT & BYPASS LINE	✓		✓	✓	✓				✓		✓		✓	
H.S. PUMP PACKING	✓		✓	✓	✓				✓		✓		✓	
H.S. PUMP MOTOR OIL	✓		✓	✓	✓				✓		✓		✓	
PUMP VIBRATION / HEAT	✓		✓	✓	✓				✓		✓		✓	
SURGE RELIEF VALVE	✓		✓	✓	✓				✓		✓		✓	
DISCHARGE PRESSURE	120		120	120	120				120		120		120	
DEMAND METER READ	-		-	-	-				-		-		-	
MOTOR CONT. CENTER	✓		✓	✓	✓				✓		✓		✓	
<b>OTHER</b>														
GROUNDS	✓		✓	✓	✓				✓		✓		✓	
INGROUND TANK LEVEL	-		-	-	-				-		-		-	
<b>AIR MONITORING</b>														
CALIBRATE METERS	-		-	✓	-				✓		-		-	
OUTSIDE AIR	-		-	✓	-				✓		-		-	
WELL HOUSE	-		-	✓	-				✓		-		-	
CHEMICAL BUILDING	-		-	✓	-				✓		-		-	
CHEM. BLDG. BASEMENT	-		-	✓	-				✓		-		-	
CHLORINE ROOM	-		-	✓	-				✓		-		-	
MAIN PUMPHOUSE	-		-	✓	-				✓		-		-	
	3:00 PM		1:00 PM	2:00 PM	1:30 PM				3:00 PM		2:00 PM		7:00 PM	



**APPENDIX A**  
**COPY OF LOG**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
June 2003

**AGUILAR ENVIRONMENTAL, INC.**

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919 Highway 33 - #47, Freehold, New Jersey 07728 ■ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939



## **APPENDIX B**

# **WEEKLY HEALTH & SAFETY INSPECTION FORMS**

VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM

Inspector's Name: D.R.S.  
Signature: Walter R. Shuman

Date: 06-04-03  
Time: 7:10 AM

*ok*

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases		✓	
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems		✓	
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

OK

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: Air Quality Monitoring - OK  
Shower test - OK  
Fire ext - OK

ACTIONS REQUIRED: None

FOLLOW-UP: None

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: D. R. Shuman

Date: 06-11-03

Signature: D. R. Shuman

Time: 2:40 PM

*OK?*

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	N/A		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	N/A		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

OK?

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: Fire extinguisher OK - OK  
Showers test OK  
Air Monitoring - OK

ACTIONS REQUIRED: None

FOLLOW-UP: None

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: D. Shuman

Date: 6-19-03

Signature: W. R. Shuman

Time: 9:30 AM

OK?

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	N/A		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	N/A		
Pneumatic Power Systems	✓		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

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OK?

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: Air testing - OK  
Fire ext. OK - OK  
Em. Showers test - OK

ACTIONS REQUIRED: None

FOLLOW-UP: None

### VESTAL WELL 1-1 SITE WEEKLY HEALTH AND SAFETY INSPECTION FORM

Inspector's Name: D.R. SHIMER  
 Signature: Denn R. Shimer

Date: 08-26-03  
 Time: 1:00pm

OK?

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	N/A		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	N/A		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		



08-26-03 pg. 2

OK?

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: Air test - OK  
Fire Ext. OK  
Showers - OK

ACTIONS REQUIRED: \_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_

Attachment 2



U.S. Environmental Protection Agency  
Region 2 Laboratory

**Data Report: Vestal Well 1-1 [06/03]**

**Project Number: 03060018**

Program: Y206E

Project Leader: L. Niles

Remark Codes	Explanation
U	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT.
J	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE IS AN ESTIMATE.
UJ	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT. THE REPORTING LIMIT IS AN ESTIMATE.
N	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION.
NJ	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION. THE REPORTED VALUE IS AN ESTIMATE.
K	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTED TO BE LESS THAN THE REPORTED VALUE.
L	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED LOW. THE ACTUAL VALUE IS EXPECTED TO BE GREATER THAN THE REPORTED VALUE.
NV	NOT VALIDATED
INC	RESULT NOT ENTERED



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [06/03]

Project Number: 03060018

\*Sorted By Sample ID

AE01186

Field/Station ID: Influent  
Matrix: Aqueous

Date Received: 6/10/2003

Sample Description: 1-1 Well Influent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000074873	CHLOROMETHANE	---	1.0U	ug/L
000075014	VINYL CHLORIDE	4.3		ug/L
000074839	BROMOMETHANE	---	1.0U	ug/L
000075003	CHLOROETHANE	0.60	J	ug/L
000075694	TRICHLOROFLUOROMETHANE	---	1.0U	ug/L
000075354	1,1-DICHLOROETHENE	8.5		ug/L
000075150	CARBON DISULFIDE	---	1.0U	ug/L
000067641	ACETONE	---	7.0U	ug/L
000075092	METHYLENE CHLORIDE	---	1.0U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	1.0U	ug/L
000075343	1,1-DICHLOROETHANE	19		ug/L
000156592	CIS-1,2-DICHLOROETHENE	43		ug/L
000594207	2,2-DICHLOROPROPANE	---	1.0U	ug/L
000078938	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	1.0U	ug/L
000067663	CHLOROFORM	---	1.0U	ug/L
000071556	1,1,1-TRICHLOROETHANE	80		ug/L
000056235	CARBON TETRACHLORIDE	---	1.0U	ug/L
000563586	1,1-DICHLOROPROPENE	---	1.0U	ug/L
000071432	BENZENE	---	1.0U	ug/L
000107062	1,2-DICHLOROETHANE	---	1.0U	ug/L
025323891	TRICHLOROETHENE	31		ug/L
000078873	1,2-DICHLOROPROPANE	---	1.0U	ug/L
000074953	DIBROMOMETHANE	---	1.0U	ug/L
000075274	BROMODICHLOROMETHANE	---	1.0U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	1.0U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	1.0U	ug/L
000127184	TETRACHLOROETHENE	---	1.0U	ug/L
000142289	1,3-DICHLOROPROPANE	---	1.0U	ug/L
000124481	DIBROMOCHLOROMETHANE	---	1.0U	ug/L
000106934	1,2-DIBROMOETHANE	---	1.0U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	1.0U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	---	1.0U	ug/L
000100414	ETHYLBENZENE	---	1.0U	ug/L
001330207	M/P-XYLENE	---	1.0U	ug/L
000095476	O-XYLENE	---	1.0U	ug/L
000100415	STYRENE	---	1.0U	ug/L
000075232	BROMOFORM	---	1.0U	ug/L



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [06/03]

Project Number: 03060018

\*Sorted By Sample ID

**AE01186**

Field/Station ID: Influent  
Matrix: Aqueous

Date Received: 6/10/2003

Sample Description: 1-1 Well Influent

**Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER**

CAS Number	Analyte Name	Result	Remark Codes	Units
000098828	ISOPROPYLBENZENE	---	1.0U	ug/L
000108861	BROMOBENZENE	---	1.0U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	1.0U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	1.0U	ug/L
000103651	N-PROPYLBENZENE	---	1.0U	ug/L
000095498	2-CHLOROTOLUENE	---	1.0U	ug/L
000106434	4-CHLOROTOLUENE	---	1.0U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	1.0U	ug/L
000098066	TERT-BUTYLBENZENE	---	1.0U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	1.0U	ug/L
000135988	SEC-BUTYLBENZENE	---	1.0U	ug/L
000541731	1,3-DICHLOROBENZENE	---	1.0U	ug/L
000106467	1,4-DICHLOROBENZENE	---	1.0U	ug/L
000095501	1,2-DICHLOROBENZENE	---	1.0U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	1.0U	ug/L
000104518	N-BUTYLBENZENE	---	1.0U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	1.0U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	1.0U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	1.0U	ug/L
000091203	NAPHTHALENE	---	1.0U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	1.0U	ug/L
	ETHANE, 1,1,2-TRICHLORO-1,2,2-TR RT=5.53	1.0	NJ	ug/L
	PROPANE, 2-METHOXY-2-METHYL- RT=7.89	3.0	NJ	ug/L

**AE01187**

Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 6/10/2003

Sample Description: 1-1 Well Effluent

**Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER**

CAS Number	Analyte Name	Result	Remark Codes	Units
000074873	CHLOROMETHANE	---	1.0U	ug/L
000075014	ETHYL CHLORIDE	---	1.0U	ug/L
000074839	BROMOMETHANE	---	1.0U	ug/L
000075003	CHLOROETHANE	---	1.0U	ug/L





U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [06/03]

Project Number: 03060018

\*Sorted By Sample ID

AE01187

Field/Station ID: Effluent

Date Received: 6/10/2003

Matrix: Aqueous

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000075694	TRICHLOROFLUOROMETHANE	---	1.0U	ug/L
000075354	1,1-DICHLOROETHENE	---	1.0U	ug/L
000075150	CARBON DISULFIDE	---	1.0U	ug/L
000067641	ACETONE	---	1.0U	ug/L
000075092	METHYLENE CHLORIDE	---	1.0U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	1.0U	ug/L
000075343	1,1-DICHLOROETHANE	---	1.0U	ug/L
000156592	CIS-1,2-DICHLOROETHENE	---	1.0U	ug/L
000594207	2,2-DICHLOROPROPANE	---	1.0U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	1.0U	ug/L
000067663	CHLOROFORM	---	1.0U	ug/L
000071556	1,1,1-TRICHLOROETHANE	---	1.0U	ug/L
000056235	CARBON TETRACHLORIDE	---	1.0U	ug/L
000563586	1,1-DICHLOROPROPENE	---	1.0U	ug/L
000071432	BENZENE	---	1.0U	ug/L
000107062	1,2-DICHLOROETHANE	---	1.0U	ug/L
025323891	TRICHLOROETHENE	---	1.0U	ug/L
000078875	1,2-DICHLOROPROPANE	---	1.0U	ug/L
000074953	DIBROMOMETHANE	---	1.0U	ug/L
000075274	BROMODICHLOROMETHANE	---	1.0U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	1.0U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	1.0U	ug/L
000127184	TETRACHLOROETHENE	---	1.0U	ug/L
000142289	1,3-DICHLOROPROPANE	---	1.0U	ug/L
000124481	DIBROMOCHLOROMETHANE	---	1.0U	ug/L
000106933	1,3-DIBROMOETHANE	---	1.0U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	1.0U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	---	1.0U	ug/L
000100413	ETHYLBENZENE	---	1.0U	ug/L
001330207	M/P-XYLENE	---	1.0U	ug/L
000095476	O-XYLENE	---	1.0U	ug/L
000100425	STYRENE	---	1.0U	ug/L
000073257	BROMOFORM	---	1.0U	ug/L



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [06/03]

Project Number: 03060018

\*Sorted By Sample ID

AE01187

Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 6/10/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000098828	ISOPROPYLBENZENE	---	1.0U	ug/L
000108861	BROMOBENZENE	---	1.0U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	1.0U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	1.0U	ug/L
000103651	N-PROPYLBENZENE	---	1.0U	ug/L
000095498	2-CHLOROTOLUENE	---	1.0U	ug/L
000106434	4-CHLOROTOLUENE	---	1.0U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	1.0U	ug/L
000098066	TERT-BUTYLBENZENE	---	1.0U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	1.0U	ug/L
000135988	SEC-BUTYLBENZENE	---	1.0U	ug/L
000541731	1,3-DICHLOROBENZENE	---	1.0U	ug/L
000106467	1,4-DICHLOROBENZENE	---	1.0U	ug/L
000095501	1,2-DICHLOROBENZENE	---	1.0U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	1.0U	ug/L
000104518	N-BUTYLBENZENE	---	1.0U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	1.0U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	1.0U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	1.0U	ug/L
000091203	NAPHTHALENE	---	1.0U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	1.0U	ug/L
	PROPANE, 2-METHOXY-2-METHYL-, RT=7.86	0.70	NI	ug/L

Project Approval: \_\_\_\_\_

*J. R. Polu*

Date: \_\_\_\_\_

7/25/03

Refer to Page 1 for an explanation of Remark Codes

Report Date: 7/18/2003 1:50PM



## FOSTER WHEELER ENVIRONMENTAL CORPORATION

7 August 2003  
RAC II-2003-158

Ms. Sharon Trocher  
Work Assignment Manager  
U.S. Environmental Protection Agency  
290 Broadway, 20<sup>th</sup> Floor  
New York, NY 10007-1866

**SUBJECT: USEPA RAC II CONTRACT NUMBER: 68-W-98-214  
WORK ASSIGNMENT NUMBER: 109-RALR-0238  
VESTAL WATER SUPPLY WELL, OPERABLE UNIT 1  
MAY 2003 PERFORMANCE MONITORING REPORT**

Dear Ms. Trocher:

I am pleased to provide the May 2003 Monthly Performance Monitoring Report for the Vestal Water Supply Well treatment facility.

### **A. Monthly Operations**

The treatment system at the Vestal Water Supply Well operated continuously during the month of May. The Monthly Operating Report submitted by the Long Term Response Subcontractor, Aguilar Environmental, Inc., is included in Attachment 1. A summary of the operation and maintenance activities performed during May is as follows:

- Routine inspections of the facility were performed;
- All strainers were cleaned with acid;
- Routine lawn maintenance was performed;
- Air filters were replaced;
- One ring of packing was added to the high service pump;
- The liquid level in the waste water underground storage tank (UST) was measured and recorded as full;
- The monthly influent and effluent samples were collected;
- The Annual Groundwater Monitoring sampling was performed;
- The float assembly was cleaned; and
- The Five-year Review of the treatment system was performed.

### **B. Approximate Volumes of Groundwater Treated**

The following volumes of groundwater have been treated at the Vestal Water Supply treatment facility:

Volume of groundwater treated during May 2003 (31 days at 56%) = 25.0 million gallons.  
Cumulative volume of groundwater treated for the year 2003 = 158.3 million gallons.  
Cumulative volume of groundwater treated for the OU-1 = 2242.5 million gallons.





**C. Comparison of Groundwater Influent and Effluent Concentration with Discharge Criteria**

The treatment plant influent and effluent analytical data received from EPA-DESA laboratory for the month of April 2003 are included in Attachment 2. A summary of the data for the compounds detected in the plant influent and effluent are as follows:

<u>Compound</u>	<u>Influent (ug/L)</u>	<u>Effluent (ug/L)</u>	<u>Discharge Criteria (ug/L)</u>
Vinyl Chloride	3.7	1.0 U	2
Chloroethane	0.70 J	1.0 U	
1,1-Dichloroethene*	8.5	1.0 U	5
Acetone	1.0 U	0.80 J	
Trans 1,2-Dichloroethene*	0.20 J	1.0 U	5
1,1-Dichloroethene*	22	1.0 U	5
Cis-1,2-Dichloroethene	51	1.0 U	5
Chloroform*	1.0 U	1.0 U	7
1,1,1-Trichloroethane*	98	1.0 U	5
Trichloroethene*	38	1.0 U	5
Total Volatile Organics*	222.1	0.80 J	100

Note: \* = Site Contaminant of Concern, J = estimated value, and U = below reporting limit.

**D. Next Month's Activities**

The following activities are planned for June 2003:

- Repair the pump control valve and paint the piping in the building;
- Continue to monitor the wastewater UST to determine if water is entering or exiting the tank. If there is a problem, an internal inspection of the tank will be performed; and
- Routine system maintenance.

**E. Summary and Recommendations**

Based on the treatment plant influent and effluent data summarized above, it can be concluded that the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8197 if you should have any questions.

Sincerely,

*Heidemarie Roldan*  
 Heidemarie Roldan  
 Project Manager

Attachments

cc: K. Moncino (EPA)  
 J. Drumm (NYSDEC)



**ATTACHMENT 1**



# **AGUILAR ENVIRONMENTAL, INC.**

919 Highway 33 - #47, Freehold, New Jersey 07728 • (732) 294-9980 • Fax (732) 294-9939

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**MAY 2003**

## **MONTHLY OPERATING REPORT**

for

## **OPERATION & MAINTENANCE**

at

**VESTAL WELL 1-1 SITE  
VESTAL, NEW YORK**

Prepared for

### **FOSTER WHEELER ENVIRONMENTAL CORPORATION**

1000 The American Road  
Morris Plains, New Jersey 07950

**SUBCONTRACT #15623**

Prepared by

### **AGUILAR ENVIRONMENTAL, INC.**

919 Highway 33, Suite #47  
Freehold, New Jersey 07728

## TABLE OF CONTENTS

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4.0	PROPOSED WORK .....	1
5.0	RECOMMENDATIONS .....	2

### **APPENDICES**

Appendix A - Copy of Log

Appendix B - Weekly Health and Safety Inspection Forms

## **1.0 INTRODUCTION**

The treatment system at Vestal Well 1-1 operated continuously during the month of May. Routine inspections took place during the month. The pump control valve still drift to a predominantly closed position, which causes the clearwell to overflow to the stream that feed the river. Parts have been ordered to rebuild the pump control valve. Also, parts for the rebuild of the surge control valve are on order. Both repairs will be completed upon arrival of the parts and availability of the contractor. The vendor was contacted on May 30 and parts still have not arrived.

## **2.0 MONTHLY OPERATIONS**

The following work took place:

- Routine site inspections of the facility.
- Acid clean all strainers
- Mowing and trimming.
- Added one (1) ring of packing to high service pump
- Changed air filters
- Inspected level of UST - full.
- Monthly sampling with Simon.
- Cleaned float assembly.
- Attended inspection by USEPA and NYDEC.

## **3.0 REPAIR WORK**

All repair work that took place was mentioned above.

## **4.0 PROPOSED WORK**

- Rebuild pump control valve
- Rebuild surge relief valve
- Paint piping in stripper/blower building (after repair work is complete)

## **5.0 RECOMMENDATIONS**

It is recommended that the following be acted upon by Foster Wheeler.

1. Pursue getting approval to turn off high service pump
2. Installation of cathodic protection system

**APPENDIX A**  
**COPY OF LOG**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
May 2003

**AGUILAR ENVIRONMENTAL, INC.**

---

919 Highway 33 - #47, Freehold, New Jersey 07728 ■ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939

**2003** **28 APRIL-4 MAY**

JULY 2003							AUGUST 2003							SEPTEMBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31					29	30	31				

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**1 Thursday** 121-244 Labor Day (Mexico)

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*No Visit*

**2 Friday** 122-243

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*United Site*

*Moved & Returned*

**3 Saturday** 123-242

AM	PM
<i>no visit</i>	

**4 Sunday** 124-241

AM	PM
<i>United Site</i>	
<i>all the same</i>	

**STAPLES**

**28 APRIL-4 MAY** **WEEK 18**

APRIL 2003							MAY 2003							JUNE 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30						29	30						29	30					

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**28 Monday** 118-247

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*No Visit*

**29 Tuesday** 119-246

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*United Site*

**30 Wednesday** 120-245

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

*United Site*

*Weekly H & S inspection*

*air Monday 5:00*

*fine ext. - OK*

*Shredded - OK*



JULY 2003							AUGUST 2003							SEPTEMBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
6	7	8	9	10	11	12	3	4	5	6	7	8	9	1	2	3	4	5	6	7
13	14	15	16	17	18	19	10	11	12	13	14	15	16	8	9	10	11	12	13	14
20	21	22	23	24	25	26	17	18	19	20	21	22	23	15	16	17	18	19	20	21
27	28	29	30	31			24	25	26	27	28	29	30	22	23	24	25	26	27	28

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**8 Thursday** 128-237

7:00	<i>Abil State</i>	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**9 Friday** 129-236

7:00	<i>Visited Site</i>	1:00
8:00		2:00
9:00	<i>opened closed floor chain (broken from breaking valve).</i>	3:00
10:00		4:00
11:00		5:00
12:00		6:00

**10 Saturday** 130-235

AM	<i>no visit</i>	PM
----	-----------------	----

**11 Sunday** 131-234

AM	<i>Visited Site</i>	PM
	<i>all ok</i>	

STAPLES

APRIL 2003							MAY 2003							JUNE 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
6	7	8	9	10	11	12	1	2	3	4	5	6	7	1	2	3	4	5	6	7
13	14	15	16	17	18	19	8	9	10	11	12	13	14	8	9	10	11	12	13	14
20	21	22	23	24	25	26	15	16	17	18	19	20	21	15	16	17	18	19	20	21
27	28	29	30				22	23	24	25	26	27	28	22	23	24	25	26	27	28

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**5 Monday** 125-240  
Cinco de Mayo (Mexico), May Day (UK)

7:00	<i>Visited Site</i>	1:00
8:00		2:00
9:00	<i>Pushed up Site &amp; Swept for vegetation.</i>	3:00
10:00		4:00
11:00		5:00
12:00		6:00

**6 Tuesday** 126-239

7:00	<i>Visited Site</i>	1:00
8:00	<i>Met w/ Foster Wheeler EPA &amp; NY DEC at Site</i>	2:00
9:00		3:00
10:00		4:00
11:00	<i>Sampled w/ Heiche Weekly HPS inspection</i>	5:00
12:00		6:00

**7 Wednesday** 127-238

7:00	<i>Visited Site - all ok</i>	1:00
8:00	<i>Guest in &amp; out</i>	2:00
9:00		3:00
10:00	<i>H.S. Value has NO response</i>	4:00
11:00	<i>at all.</i>	5:00
12:00		6:00

12-18 MAY

WEEK 20

APRIL 2003							MAY 2003							JUNE 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30				1	2	3	4	5	6	7	8	9	10	11	12	13	14

GOALS INSPIRATIONS NOTES

12 Monday 132-233

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

13 Tuesday 133-232

7:00	United Site	1:00
8:00		2:00
9:00	Chemed Strainers with acid	3:00
10:00	To try to get Valve to respond	4:00
11:00	- NO improvement	5:00
12:00		6:00

14 Wednesday 134-231

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

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2003

12-18 MAY

JULY 2003							AUGUST 2003							SEPTEMBER 2003							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
27	28	29	30	31			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

GOALS INSPIRATIONS NOTES

15 Thursday 135-230

7:00	United Site	1:00
8:00		2:00
9:00	Like My Health & Safety Insp.	3:00
10:00	- fire ext - OK	4:00
11:00	- Shower test - OK	5:00
12:00	- air monitoring - OK	6:00

16 Friday 136-229

7:00	United Site	1:00
8:00		2:00
9:00	Changed out dirty air	3:00
10:00	filters in Blower Room.	4:00
11:00		5:00
12:00		6:00

17 Saturday 137-228

AM	No Visit	PM
----	----------	----

18 Sunday 138-227

AM	United Site - all OK	PM
----	----------------------	----

STAPLES

**19-25 MAY**

**WEEK 21**

APRIL 2003							MAY 2003							JUNE 2003								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28

GOALS      INSPIRATIONS      NOTES

**19 Monday**      139-226      Victoria Day (Canada)

7:00      Visited Site      1:00  
 8:00           2:00  
 9:00      Tuned up H.S. Pump to work      3:00  
 10:00      on lines to Hyd. Valve to      4:00  
 11:00      try to get some movement.      5:00  
 12:00      Pump stopped, real quick & Mad! Mad!      6:00

**20 Tuesday**      140-225

7:00      No Vent      1:00  
 8:00           2:00  
 9:00      when starting.      3:00  
 10:00      on 5/6 during inspection by      4:00  
 11:00      EPA, FW & DEC.      5:00  
 12:00      Clean lines      6:00

**21 Wednesday**      141-224

7:00      Visited Site      1:00  
 8:00           2:00  
 9:00      Weekly H.S. Start-up      3:00  
 10:00      - OK - OK      4:00  
 11:00      fine test - OK      5:00  
 12:00      Showers - OK      6:00

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**2003**

**19-25 MAY**

JULY 2003							AUGUST 2003							SEPTEMBER 2003							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27

GOALS      INSPIRATIONS      NOTES

**22 Thursday**      142-223

7:00      No Vent      1:00  
 8:00           2:00  
 9:00           3:00  
 10:00           4:00  
 11:00           5:00  
 12:00           6:00

**23 Friday**      143-222

7:00      Visited Site      1:00  
 8:00           2:00  
 9:00      Shut down pump to see if Valve      3:00  
 10:00      was going to happen - No Noise &      4:00  
 11:00      cleaned Hyd Valve lines w/ Acid      5:00  
 12:00      NO improvement w/ Valve      6:00

**24 Saturday**      144-221

AM      no Vent      PM

**25 Sunday**      145-220

AM      Visited Site      PM

**STAPLES**

**26 MAY-1 JUNE**

**WEEK 22**

APRIL 2003							MAY 2003							JUNE 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	13	14
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
27	28	29	30				25	26	27	28	29	30	31	29	30	31				

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**26 Monday** 146-219 Memorial Day (Observed - US), Spring Bank Holiday (UK)

7:00	<i>Visited Site - all same</i>	2:00
8:00	<i>Happy Memorial Day!</i>	4:00
9:00		5:00
10:00		6:00
11:00		
12:00		

**27 Tuesday** 147-218

7:00	<i>no visit</i>	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**28 Wednesday** 148-217

7:00	<i>Visited Site</i>	1:00
9:00	<i>Weekly Health &amp; Safety Insp.</i>	2:00
9:00	<i>- Fire Ext. OK</i>	4:00
10:00	<i>- Showers OK</i>	5:00
11:00	<i>- Check - OK</i>	6:00
12:00		

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**2003**

**26 MAY-1 JUNE**

JULY 2003							AUGUST 2003							SEPTEMBER 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
6	7	8	9	10	11	12	1	2	3	4	5	6	7	1	2	3	4	5	6	7
13	14	15	16	17	18	19	8	9	10	11	12	13	14	8	9	10	11	12	13	14
20	21	22	23	24	25	26	15	16	17	18	19	20	21	15	16	17	18	19	20	21
27	28	29	30	31			22	23	24	25	26	27	28	22	23	24	25	26	27	28
							29	30	31					29	30	31				

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**29 Thursday** 149-216

7:00	<i>no visit</i>	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**30 Friday** 150-215 Memorial Day (US)

7:00	<i>Visited Site</i>	1:00
8:00		2:00
9:00	<i>Course getting real high. Moved</i>	3:00
10:00	<i>&amp; returned to day.</i>	4:00
11:00		5:00
12:00		6:00

**31 Saturday** 151-214

AM	<i>no visit</i>	PM

**1 Sunday** 152-213

AM	<i>Visited Site all same - OK</i>	
	<i>except value</i>	

**STAPLES**



**APPENDIX B**

**WEEKLY HEALTH & SAFETY INSPECTION FORMS**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
May 2003

**AGUILAR ENVIRONMENTAL, INC.**

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919 Highway 33 - #47, Freehold, New Jersey 07728 ■ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Dennis R. Shimer  
Signature: Dennis R. Shimer

Date: 05-07-03  
Time: 1:20 PM

WORK CONDITIONS	OK?		OBSERVATIONS
	YES	NO	
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	N/A		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	N/A		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

ok?

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	-		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank			Full

ADDITIONAL COMMENTS: tested air - ok  
Fire ext. - ok  
Shower test - ok

ACTIONS REQUIRED:

FOLLOW-UP:



**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: D. Shynner  
 Signature: D. Shynner *OK*

Date: 08-15-03  
 Time: 2:00pm

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	<del>✓</del>		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	<del>✓</del>		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		Full

ADDITIONAL COMMENTS: \_\_\_\_\_

*Weekly H&S Insp. -- air - 0/L  
F.E. - C/K  
Shower - OK*

ACTIONS REQUIRED: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: O.R. Shumer  
 Signature: O.R. Shumer

Date: 08-21-03  
 Time: 7:30 pm

OK?

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	N/A		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	N/A		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

OK?

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank		✓	Full

ADDITIONAL COMMENTS: Weekly HEALTH & Safety Inspection  
 1) AIR MONITORING - OK  
 2) FIRE EXTINGUISHERS - OK  
 3) EMERGENCY SHOWER TEST - OK

ACTIONS REQUIRED: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: D.R. SHIMER

Date: 08-28-03

Signature: Dennis Shimer

Time: 2:30 PM

ok?

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	—		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	N/A		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

ok

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank		✓	Full

ADDITIONAL COMMENTS: Tank level is constant (to inf pipe)  
 air monitoring - ok  
 Shower test - ok  
 Fire EXT - ok

ACTIONS REQUIRED: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**ATTACHMENT 2**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION II  
EDISON, NEW JERSEY 08837

30  
MAY 27 2003

Foster Wheeler Environmental Corp.  
1000 The American Road  
Morris Plains, N.J. 07950  
Attn: Lynn Niles

Dear Ms. Niles:

Enclosed are the results of the Vestal 1-1 sampling survey conducted by your firm during the week of May 5, 2003. These data include the results of two water samples for low-level volatile organic analysis. Any correspondence concerning these results should refer to our internal project number, 03050005, to uniquely identify it. Please refer to the first page of the report for a description of any remark codes used as data qualifiers. It should be noted that all data are considered to be EPA- validated.

If you have any questions you can contact me by phone at (732) 906-6886, by fax at (732) 906-6165 or via the Internet at "birri.john@epa.gov".

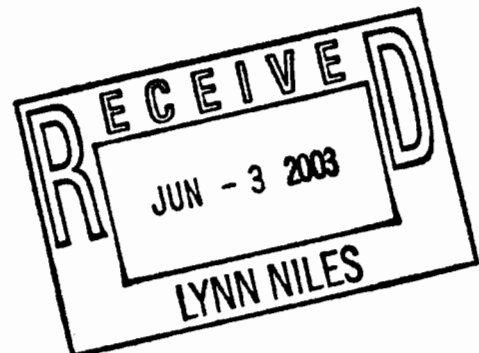
Sincerely,

A handwritten signature in cursive script, appearing to read "John Birri".

John Birri  
Special Projects Coordinator  
Laboratory Branch

Enclosure

cc: Sharon Trocher (ERRD) w/enclosure







U.S. Environmental Protection Agency  
Region 2 Laboratory

**Data Report: Vestal Well 1-1 [05/03]**

**Project Number: 03050005**

Program: Y206E

Project Leader: L. Niles

Remark Codes	Explanation
U	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT.
J	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE IS AN ESTIMATE.
UJ	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT. THE REPORTING LIMIT IS AN ESTIMATE.
N	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION.
NJ	THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION. THE REPORTED VALUE IS AN ESTIMATE.
K	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTED TO BE LESS THAN THE REPORTED VALUE.
L	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED LOW. THE ACTUAL VALUE IS EXPECTED TO BE GREATER THAN THE REPORTED VALUE.
NV	NOT VALIDATED
INC	RESULT NOT ENTERED



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [05/03]

Project Number: 03050005

\*Sorted By Sample ID

AE00712 Field/Station ID: Influent  
Matrix: Aqueous  
Sample Description: 1-1 Well Influent

Date Received: 5/7/2003

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000074873	CHLOROMETHANE	---	1.0U	ug/L
000075014	VINYL CHLORIDE	3.7		ug/L
000074839	BROMOMETHANE	---	1.0U	ug/L
000075003	CHLOROETHANE	0.70	J	ug/L
000075694	TRICHLOROFLUOROMETHANE	---	1.0U	ug/L
000075354	1,1-DICHLOROETHENE	8.5		ug/L
000075150	CARBON DISULFIDE	---	1.0U	ug/L
000067641	ACETONE	---	1.0U	ug/L
000075092	METHYLENE CHLORIDE	---	1.0U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	1.0U	ug/L
000075343	1,1-DICHLOROETHANE	22		ug/L
000156592	CIS-1,2-DICHLOROETHENE	51		ug/L
000594207	2,2-DICHLOROPROPANE	---	1.0U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	1.0U	ug/L
000067663	CHLOROFORM	---	1.0U	ug/L
000071556	1,1,1-TRICHLOROETHANE	98		ug/L
000056235	CARBON TETRACHLORIDE	---	1.0U	ug/L
000563586	1,1-DICHLOROPROPENE	---	1.0U	ug/L
000071432	BENZENE	---	1.0U	ug/L
000107062	1,2-DICHLOROETHANE	---	1.0U	ug/L
025323891	TRICHLOROETHENE	38		ug/L
000078875	1,2-DICHLOROPROPANE	---	1.0U	ug/L
000074953	DIBROMOMETHANE	---	1.0U	ug/L
000075274	BROMODICHLOROMETHANE	---	1.0U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	1.0U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	1.0U	ug/L
000127184	TETRACHLOROETHENE	---	1.0U	ug/L
000142289	1,3-DICHLOROPROPANE	---	1.0U	ug/L
000124481	DIBROMOCHLOROMETHANE	---	1.0U	ug/L
000106934	1,2-DIBROMOETHANE	---	1.0U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	1.0U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	---	1.0U	ug/L
000100414	ETHYLBENZENE	---	1.0U	ug/L
001330207	M/P-XYLENE	---	1.0U	ug/L
000095476	O-XYLENE	---	1.0U	ug/L
000100425	STYRENE	---	1.0U	ug/L
000075252	BROMOFORM	---	1.0U	ug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 5/22/2003 11:59AM



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [05/03]

Project Number: 03050005

\*Sorted By Sample ID

AE00712 Field/Station ID: Influent  
Matrix: Aqueous  
Sample Description: 1-1 Well Influent

Date Received: 5/7/2003

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000098828	ISOPROPYLBENZENE	---	1.0U	ug/L
000108861	BROMOBENZENE	---	1.0U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	1.0U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	1.0U	ug/L
000103651	N-PROPYLBENZENE	---	1.0U	ug/L
000095498	2-CHLOROTOLUENE	---	1.0U	ug/L
000106434	4-CHLOROTOLUENE	---	1.0U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	1.0U	ug/L
000098066	TERT-BUTYLBENZENE	---	1.0U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	1.0U	ug/L
000135988	SEC-BUTYLBENZENE	---	1.0U	ug/L
000541731	1,3-DICHLOROBENZENE	---	1.0U	ug/L
000106467	1,4-DICHLOROBENZENE	---	1.0U	ug/L
000095501	1,2-DICHLOROBENZENE	---	1.0U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	1.0U	ug/L
000104518	N-BUTYLBENZENE	---	1.0U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	1.0U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	1.0U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	1.0U	ug/L
000091203	NAPHTHALENE	---	1.0U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	1.0U	ug/L
	ETHANE, 1,1,2-TRICHLORO-1,2,2-TR,RT=5.50	1.0	NJ	ug/L
	PROPANE, 2-METHOXY-2-METHYL-,RT=7.88	3.0	NJ	ug/L
	UNKNOWN,RT=26.26	3.0	NJ	ug/L

AE00713 Field/Station ID: Effluent  
Matrix: Aqueous  
Sample Description: 1-1 Well Effluent

Date Received: 5/7/2003

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000074873	CHLOROMETHANE	---	1.0U	ug/L
000075014	VINYL CHLORIDE	---	1.0U	ug/L
000074839	BROMOMETHANE	---	1.0U	ug/L



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [05/03]

Project Number: 03050005

\*Sorted By Sample ID

AE00713 Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 5/7/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000075003	CHLOROETHANE	---	1.0U	ug/L
000075694	TRICHLOROFLUOROMETHANE	---	1.0U	ug/L
000075354	1,1-DICHLOROETHENE	---	1.0U	ug/L
000075150	CARBON DISULFIDE	---	1.0U	ug/L
000067641	ACETONE	0.80	J	ug/L
000075092	METHYLENE CHLORIDE	---	1.0U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	1.0U	ug/L
000075343	1,1-DICHLOROETHANE	---	1.0U	ug/L
000156592	CIS-1,2-DICHLOROETHENE	---	1.0U	ug/L
000594207	2,2-DICHLOROPROPANE	---	1.0U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	1.0U	ug/L
000067663	CHLOROFORM	---	1.0U	ug/L
000071556	1,1,1-TRICHLOROETHANE	---	1.0U	ug/L
000056235	CARBON TETRACHLORIDE	---	1.0U	ug/L
000563586	1,1-DICHLOROPROPENE	---	1.0U	ug/L
000071432	BENZENE	---	1.0U	ug/L
000107062	1,2-DICHLOROETHANE	---	1.0U	ug/L
025323891	TRICHLOROETHENE	---	1.0U	ug/L
000078875	1,2-DICHLOROPROPANE	---	1.0U	ug/L
000074953	DIBROMOMETHANE	---	1.0U	ug/L
000075274	BROMODICHLOROMETHANE	---	1.0U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	1.0U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	1.0U	ug/L
000127184	TETRACHLOROETHENE	---	1.0U	ug/L
000142289	1,3-DICHLOROPROPANE	---	1.0U	ug/L
000124481	DIBROMOCHLOROMETHANE	---	1.0U	ug/L
000106934	1,2-DIBROMOETHANE	---	1.0U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	1.0U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	---	1.0U	ug/L
000100414	ETHYLBENZENE	---	1.0U	ug/L
001330207	M/P-XYLENE	---	1.0U	ug/L
000095476	O-XYLENE	---	1.0U	ug/L
000100425	STYRENE	---	1.0U	ug/L



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [05/03]

Project Number: 03050005

\*Sorted By Sample ID

AE00713 Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 5/7/2003

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000075252	BROMOFORM	---	1.0U	ug/L
000098828	ISOPROPYL BENZENE	---	1.0U	ug/L
000108861	BROMOBENZENE	---	1.0U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	1.0U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	1.0U	ug/L
000103651	N-PROPYLBENZENE	---	1.0U	ug/L
000095498	2-CHLOROTOLUENE	---	1.0U	ug/L
000106434	4-CHLOROTOLUENE	---	1.0U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	1.0U	ug/L
000098066	TERT-BUTYLBENZENE	---	1.0U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	1.0U	ug/L
000135988	SEC-BUTYLBENZENE	---	1.0U	ug/L
000541731	1,3-DICHLOROBENZENE	---	1.0U	ug/L
000106467	1,4-DICHLOROBENZENE	---	1.0U	ug/L
000095501	1,2-DICHLOROBENZENE	---	1.0U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	1.0U	ug/L
000104518	N-BUTYLBENZENE	---	1.0U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	1.0U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	1.0U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	1.0U	ug/L
000091203	NAPHTHALENE	---	1.0U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	1.0U	ug/L
	PROPANE, 2-METHOXY-2-METHYL-, RT = 7.89	0.80	NJ	ug/L

Project Approval: *J. R. Baker*

Date: 5/30/03



MARCH 2003



**FOSTER WHEELER ENVIRONMENTAL CORPORATION**

1 May 2003  
RAC II-2003-079

Ms. Sharon Trocher  
Work Assignment Manager  
U.S. Environmental Protection Agency  
290 Broadway, 20<sup>th</sup> Floor  
New York, NY 10007-1866

**SUBJECT: USEPA RAC II CONTRACT NUMBER: 68-W-98-214  
WORK ASSIGNMENT NUMBER: 009-RALR-0238  
VESTAL WATER SUPPLY WELL, OPERABLE UNIT 1  
MARCH 2003 PERFORMANCE MONITORING REPORT**

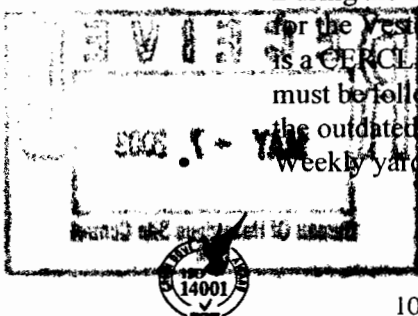
Dear Ms. Trocher:

I am pleased to provide the March 2003 Monthly Performance Monitoring Report for the Vestal Water Supply Well treatment facility.

**A. Monthly Operations**

The treatment system at the Vestal Water Supply Well operated continuously during the month of March. The Monthly Operating Report submitted by the Long Term Response Subcontractor, Aguilar Environmental, Inc., is included in Attachment 1. A summary of the operation and maintenance activities performed during March is as follows:

- The semi-annual Environmental, Health and Safety inspection was performed by Foster Wheeler Environmental on 26 March 2003. Foster Wheeler Environmental is preparing a summary of findings;
- Routine inspections of the facility were performed;
- All strainers were cleaned with acid;
- Snow was removed as necessary;
- Air filters were replaced;
- The liquid level in the wastewater underground storage tank (UST) was measured and recorded as full;
- The monthly influent and effluent samples were collected;
- The packing on the high service pump was adjusted;
- An addendum to the CaCO<sub>3</sub> Feasibility Study was submitted to and discussed with EPA. Foster Wheeler Environmental is preparing a recommendation as per the EPA's request.
- During the CaCO<sub>3</sub> Feasibility Study, an expired NYSDEC Discharge Permit was identified for the Vestal Well 1-1 treatment facility. Because the Vestal Well 1-1 treatment facility is a CERCLA site, discharge permits are not required. However, the terms of such permits must be followed. Foster Wheeler Environmental is working with the EPA to determine if the outdated discharge permit should be renewed with the State of New York; and weekly yard work was completed.



**B. Approximate Volumes of Groundwater Treated**

The following volumes of groundwater have been treated at the Vestal Water Supply treatment facility:

Volume of groundwater treated during March 2003 (31 days at 60%) = 30.3 million gallons.

Cumulative volume of groundwater treated for the year 2003 = 104.0 million gallons.

Cumulative volume of groundwater treated for the OU-1 = 2188.2 million gallons.

**C. Comparison of Groundwater Influent and Effluent Concentration with Discharge Criteria**

The treatment plant influent and effluent analytical data received from EPA-DESA laboratory for the month of March 2003 are included in Attachment 2. A summary of the data for the compounds detected in the plant influent and effluent are as follows:

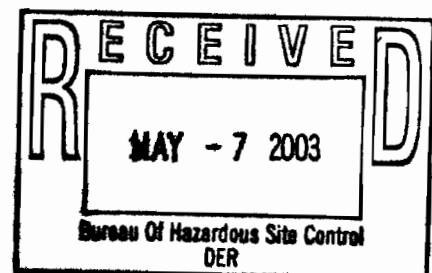
<u>Compound</u>	<u>Influent (ug/L)</u>	<u>Effluent (ug/L)</u>	<u>Discharge Criteria (ug/L)</u>
Vinyl Chloride	3.9	1.0 U	2
Chloroethane	0.60 J QM	1.0 U	
1,1-Dichloroethene*	8.2 J QP	1.0 U	5
Trans 1,2-Dichloroethene*	1.0 U	1.0 U	5
1,1-Dichloroethane*	2.5	1.0 U	5
Cis-1,2-Dichloroethene	6.4	1.0 U	5
Chloroform*	1.0 U	1.0 U	7
1,1,1-Trichloroethane*	1.20	1.0 U	5
Trichloroethene*	4.9	1.0 U	5
Total Volatile Organics*	271.7	0.0	100

Note: \* = Site Contaminant of Concern, J = estimated value, QM = presence of material verified but not quantified, QP = sample replicate precision does not meet acceptance criteria, and U = below reporting limit.

**D. Next Month's Activities**

The following activities are planned for April 2003:

- Submit recommendations to the EPA concerning the CaCO<sub>3</sub> treatment;
- Obtain estimate for repairing pump control valve and painting the piping in the building;
- Order surge relief valve replacement;
- Continue to monitor the wastewater UST to determine if water is entering or exiting the tank. If there is a problem, an internal inspection of the tank will be performed; and
- Routine system maintenance.



**E. Summary and Recommendations**

Based on the treatment plant influent and effluent data summarized above, it can be concluded that the treated water continues to meet the discharge limits.

Please feel free to contact me at (973) 630-8318 if you should have any questions.

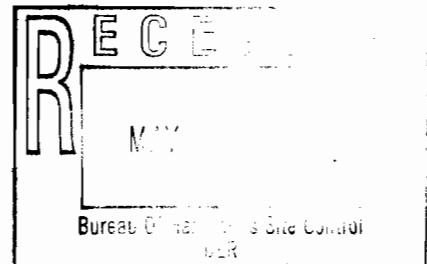
Sincerely,



Charles Malaniak  
Acting Project Manager

**Attachments**

cc: K. Moncino (EPA)  
J. Strang (NYSDEC)





**ATTACHMENT 1**



# **AGUILAR ENVIRONMENTAL, INC.**

919 Highway 33 - #47, Freehold, New Jersey 07728 • (732) 294-9980 • Fax (732) 294-9939

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**MARCH 2003**

## **MONTHLY OPERATING REPORT**

for

## **OPERATION & MAINTENANCE**

at

**VESTAL WELL 1-1 SITE  
VESTAL, NEW YORK**

Prepared for

### **FOSTER WHEELER ENVIRONMENTAL CORPORATION**

1000 The American Road  
Morris Plains, New Jersey 07950

**SUBCONTRACT #15623**

Prepared by

### **AGUILAR ENVIRONMENTAL, INC.**

919 Highway 33, Suite #47  
Freehold, New Jersey 07728

## TABLE OF CONTENTS

1.0	INTRODUCTION .....	1
2.0	MONTHLY OPERATIONS .....	1
3.0	REPAIR WORK .....	1
4.0	PROPOSED WORK .....	1
5.0	RECOMMENDATIONS .....	1

### **APPENDICES**

Appendix A - Copy of Log

Appendix B - Weekly Health and Safety Inspection Forms

Vestal Well 1-1 Site  
Vestal, New York

-i-

Monthly Operating Report  
March 2003

**AGUILAR ENVIRONMENTAL, INC.**

919 Highway 33 - #47, Freehold, New Jersey 07728 ■ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939

## **1.0 INTRODUCTION**

The treatment system at Vestal Well 1-1 operated continuously during the month of March. Routine inspections took place during the month. There are still some minor operational problems that have to be corrected when weather permits. This includes repairing a small leak in the piping, under the insulation, on the well discharge, repair of the lawn from heavy tracks, rebuild of the pump control valve and testing and calibration of the clearwell level transmitter.

## **2.0 MONTHLY OPERATIONS**

The following work took place:

- Routine site inspections of the facility.
- Acid clean all strainers
- Replaced stem o-rings on pump control valve.
- Shovel snow as necessary
- Changed air filters
- Inspected level inside UST - full.
- Monthly sampling with Simon.
- Adjusted packing on high service pump.

## **3.0 REPAIR WORK**

All repair work that took place was mentioned above.

## **4.0 PROPOSED WORK**

- Rebuild pump control valve
- Locate leak in piping and repair
- Installation of cathodic protection system (if approved)

## **5.0 RECOMMENDATIONS**

It is recommended that the following be acted upon by Foster Wheeler.

1. Rebuild (replace) of surge relief valve on high service pump system

(quotation submitted). This valve cannot be eliminated due to the requirement to keep system operable for Town of Vestal emergencies.

2. Paint piping in stripper/blower building.
3. Approve purchase of a rebuild kit for the pump control valve and get authorization for the repair.

**APPENDIX A**  
**COPY OF LOG**

2003 3-9 MARCH

MAY 2003							JUNE 2003							JULY 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	22	23	24	25	26	27	28
25	26	27	28	29	30	31	29	30	31					29	30	31				

GOALS INSPIRATIONS NOTES

3-9 MARCH WEEK 10

FEBRUARY 2003							MARCH 2003							APRIL 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	22	23	24	25	26	27	28
23	24	25	26	27	28	29	29	30	31					29	30	31				

GOALS INSPIRATIONS NOTES

6 Thursday 065-300

7:00	No Unit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

7 Friday 066-299

7:00	United Site	1:00
8:00		2:00
9:00	adjusted Hyd. Valve	3:00
10:00	close pressure	4:00
11:00	to 100	5:00
12:00		6:00

8 Saturday 067-298

AM	No Unit	PM
----	---------	----

9 Sunday 068-297

AM	United Site - all OK	
	System Runing @ 90 psi	

3 Monday 062-303

7:00	No Unit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

4 Tuesday 063-302

7:00	United Site	1:00
8:00		2:00
9:00	see OK - check well level	3:00
10:00	mountain with 4 x pump	4:00
11:00	control valve not working	5:00
12:00		6:00

5 Wednesday 064-301

7:00	United Site	1:00
8:00		2:00
9:00	sampled with Semory	3:00
10:00	check by H & S inspection	4:00
11:00		5:00
12:00		6:00

6002 NEPESCHART (SPARE), COLUWIS (UK), DEBCKEN (AUS), AU. RIGHTS RESERVED.

MAY 2003							JUNE 2003							JULY 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31												29	30	31				

GOALS INSPIRATIONS NOTES

13 Thursday 072-293

7:00	No Int	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

14 Friday 073-292

7:00	United Site	1:00
8:00		2:00
9:00	Replaced "O" Ring on Stem	3:00
10:00	of Pump control Valve	
11:00	(Not exact fit - close) to try to stop	
12:00	leak -	6:00

15 Saturday 074-291

AM	No Int	PM
----	--------	----

16 Sunday 075-290

AM	United Site	PM
	-heat on stem is less, but still leaking	

FEBRUARY 2003							MARCH 2003							APRIL 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30	31			1	2	3	4	5	6	7	
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
28	29	30	31										28	29	30	31				

GOALS INSPIRATIONS NOTES

10 Monday 069-296

7:00	United Site	1:00
8:00	System @ 100 PSI & Holding	2:00
9:00		3:00
10:00	Cleaned up around yard	4:00
11:00	(Trash)	5:00
12:00		6:00

11 Tuesday 070-295

7:00	No Int	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

12 Wednesday 071-294

7:00	United Site	1:00
8:00		2:00
9:00	Weekly HXS inspection	3:00
10:00	check fine	4:00
11:00	Monitored pump - OK	5:00
12:00	tested Shovel - OK	6:00



2003							17-23 MARCH													
MAY 2003							JUNE 2003							JULY 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
4	5	6	7	8	9	10	1	2	3	4	5	6	7	13	14	15	16	17	18	19
11	12	13	14	15	16	17	18	19	20	21	22	23	24	20	21	22	23	24	25	26
25	26	27	28	29	30	31	25	26	27	28	29	30	31	27	28	29	30	31		

GOALS INSPIRATIONS NOTES

20 Thursday 079-286

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

21 Friday 080-285 Benito Juarez' Birthday (Mexico), Spring Begins

7:00	United Site	1:00
8:00		2:00
9:00	Cleaned all 7" fragments w/	3:00
10:00	Muriatic acid, cleaned pump	4:00
11:00	Control valve 6 times.	5:00
12:00		6:00

22 Saturday 081-284

AM	No Visit	PM
----	----------	----

23 Sunday 082-283

AM	United Site	PM
	Pump control valve checks	all OK
	Back to 120PS, after a/c.	



2003							17-23 MARCH													
FEBRUARY 2003							MARCH 2003							APRIL 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
19	20	21	22	23	24	25	26	27	28	29	30	31		27	28	29	30	31		

GOALS INSPIRATIONS NOTES

17 Monday 076-289 St. Patrick's Day

7:00	United Site	1:00
8:00		2:00
9:00	No Repressor present	3:00
10:00	Cleaned main pump room.	4:00
11:00		5:00
12:00	adjusted H.S. Pump Cont. Valve	

18 Tuesday 077-288

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

19 Wednesday 078-287

7:00	United Site	1:00
8:00		2:00
9:00	Weekly H.I.S. Inspection	3:00
10:00	- a/c monitoring OK	4:00
11:00	- Fine out - OK	5:00
12:00	- Shower test - OK	6:00

2003 24 FEBRUARY-2 MARCH WEEK 9

JANUARY 2003							FEBRUARY 2003							MARCH 2003								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
12	13	14	15	16	17	18	9	10	11	12	13	14	15	16	9	10	11	12	13	14	15	
19	20	21	22	23	24	25	16	17	18	19	20	21	22	23	16	17	18	19	20	21	22	
26	27	28	29	30	31		23	24	25	26	27	28	29	30	23	24	25	26	27	28	29	

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

2003 24 FEBRUARY-2 MARCH WEEK 9

JANUARY 2003							FEBRUARY 2003							MARCH 2003								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
12	13	14	15	16	17	18	9	10	11	12	13	14	15	16	9	10	11	12	13	14	15	
19	20	21	22	23	24	25	16	17	18	19	20	21	22	23	16	17	18	19	20	21	22	
26	27	28	29	30	31		23	24	25	26	27	28	29	30	23	24	25	26	27	28	29	

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

2003 24 FEBRUARY-2 MARCH WEEK 9

JANUARY 2003							FEBRUARY 2003							MARCH 2003								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
12	13	14	15	16	17	18	9	10	11	12	13	14	15	16	9	10	11	12	13	14	15	
19	20	21	22	23	24	25	16	17	18	19	20	21	22	23	16	17	18	19	20	21	22	
26	27	28	29	30	31		23	24	25	26	27	28	29	30	23	24	25	26	27	28	29	

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

2003 24 FEBRUARY-2 MARCH WEEK 9

JANUARY 2003							FEBRUARY 2003							MARCH 2003								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
12	13	14	15	16	17	18	9	10	11	12	13	14	15	16	9	10	11	12	13	14	15	
19	20	21	22	23	24	25	16	17	18	19	20	21	22	23	16	17	18	19	20	21	22	
26	27	28	29	30	31		23	24	25	26	27	28	29	30	23	24	25	26	27	28	29	

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

27 Thursday 058-307

7:00	No Visit	1:00
9:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

28 Friday 059-308

7:00	Visited Site	1:00
8:00	all the same	2:00
9:00	changed air filters	3:00
10:00		4:00
11:00		5:00
12:00		6:00

24 Monday 055-310

7:00	Visited Site	1:00
8:00		2:00
9:00	took up ant	3:00
10:00	to pump control Valve, CaCO <sub>3</sub>	4:00
11:00	building - west	5:00
12:00	OK	6:00

25 Tuesday 056-309

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

1 Saturday 060-305

AM	Visited Site - PM	
	in Bonnet of P.C. Valve. nearby	
	Stopped. adjusted Valve &	
2 Sunday		061-304
AM	Got at 10 am	

26 Wednesday 057-308

7:00	Visited Site	1:00
8:00		2:00
9:00	Weekly Health & Safety Insp.	
10:00	air monitoring - ok	
11:00	Fine Opt. - ok	
12:00	Show west - ok	

27 Thursday 058-307

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

28 Friday 059-308

7:00	Visited Site	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

# 31 MARCH-6 APRIL

MARCH 2003							APRIL 2003							MAY 2003																							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S																	
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26													
27	28	29	30	31			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

## 31 Monday 090-275

7:00	8:00	9:00	10:00	11:00	12:00
<i>United Site - all OK</i>					
	2:00	3:00	4:00	5:00	6:00

## 1 Tuesday 091-274

7:00	8:00	9:00	10:00	11:00	12:00
1:00	2:00	3:00	4:00	5:00	6:00

## 2 Wednesday 092-273

7:00	8:00	9:00	10:00	11:00	12:00
1:00	2:00	3:00	4:00	5:00	6:00

# 2003 31 MARCH-6 APRIL

JUNE 2003							JULY 2003							AUGUST 2003																
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

## 3 Thursday 093-272

7:00	8:00	9:00	10:00	11:00	12:00
1:00	2:00	3:00	4:00	5:00	6:00

## 4 Friday 094-271

7:00	8:00	9:00	10:00	11:00	12:00
1:00	2:00	3:00	4:00	5:00	6:00

## 5 Saturday 095-270

AM	PM
----	----

## 6 Sunday 096-269

AM	PM
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Daylight Savings Time Begins





**APPENDIX B**

**WEEKLY HEALTH & SAFETY INSPECTION FORMS**

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: D. R. Shiner  
Signature: D. R. Shiner

Date: 3:18 PM  
Time: 03-05-03

OK

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	N/A		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	N/A		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

OK

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank			

ADDITIONAL COMMENTS: Weekly Health & Safety Ins

Fire Ext OK  
Showers - OK  
Air Mon - OK

ACTIONS REQUIRED: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: DR SHIMER

Date: 03-12-03

Signature: Don P. Shimer

Time: 3:10 pm

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
<b>MATERIALS</b>	<b>YES</b>	<b>NO</b>	<b>OBSERVATIONS</b>
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	<del>✓</del>		
<b>EQUIPMENT</b>	<b>YES</b>	<b>NO</b>	<b>OBSERVATIONS</b>
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	<del>✓</del>		
Electrical Power Systems	✓		
Valves and Controls			
<b>HAZARD CONTROLS</b>	<b>YES</b>	<b>NO</b>	<b>OBSERVATIONS</b>
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		



OK

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	—	—	

ADDITIONAL COMMENTS: Weekly Health & Safety Trng

- Air Monitoring - OK
- Fire Extinguisher check - OK
- Emergency Shower check - OK

ACTIONS REQUIRED: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Dennis R. Shimerl  
Signature: Dennis R. Shimerl

Date: 03-19-03  
Time: 4:45 pm

OK

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases		N/A	
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems		N/A	
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

OK

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: H+S check

Air Quality - OK  
Fire Ext. - OK  
Emerg. Shower - OK

ACTIONS REQUIRED:

FOLLOW-UP:

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: D. B. SHIMER

Date: 03-25-03

Signature: D. B. Shimer

Time: 10:10

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	N/A		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	N/A		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		

ADDITIONAL COMMENTS: *Weekly Health & Safety Inspection*

*Air Monitoring - OK*  
*Fire Extinguishers - OK*  
*Emergency Showers - OK*

ACTIONS REQUIRED: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**ATTACHMENT 2**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION II  
EDISON, NEW JERSEY 08837

APR 07 2003

Foster Wheeler Environmental Corp.  
1000 The American Road  
Morris Plains, N.J. 07950  
Attn: Lynn Niles

Dear Ms. Niles:

Enclosed are the results of the Vestal 1-1 sampling survey conducted by your firm during the week of March 3, 2003. These data include the results of two water samples for low-level volatile organic analysis. Any correspondence concerning these results should refer to our internal project number, 03030003, to uniquely identify it. Please refer to the first page of the report for a description of any remark codes used as data qualifiers. It should be noted that all data are considered to be EPA- validated.

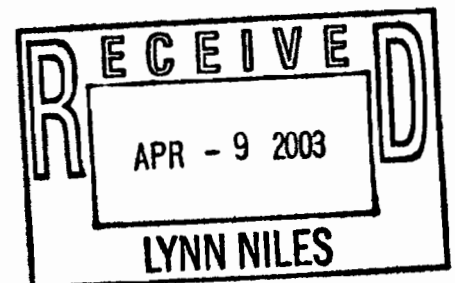
If you have any questions you can contact me by phone at (732) 906-6886, by fax at (732) 906-6165 or via the Internet at "birri.john@epa.gov".

Sincerely,

  
John Birri  
Special Projects Coordinator  
Laboratory Branch

Enclosure

cc: Sharon Trocher (ERRD) w/enclosure



**Case Narrative:**

**Vestal Well 1-1 [03/03] #03030003**

The Laboratory has met all data quality objectives, e.g., Target Reporting Limits, Accuracy and Precision, established for this project except where noted below.

**Qualified Result(s):**

The following qualifier(s) were used to qualify data within this report:

- U - This qualifier indicates that the result is below the Laboratory's "Reporting Limit." The Reporting Limit is based on the lowest calibration standard used to generate the calibration curve used for the analysis.
- QP - This qualifier is due to a failure to achieve the established precision for replicate analysis. Result(s) with a "QP" have an decreased accuracy relative to "typical" environmental data.
- J QM - This qualifier indicates that the result(s) are estimated values. These result(s) are below the established "Reporting Limit" of the method. The Laboratory generally reports results down to the Reporting Limit of the method. Result(s) with a "J" have an decreased accuracy relative to environmental results that are reported equal to or above the Reporting Limit of the method.
- J QT - This qualifier indicates that the compound is a "tentatively identified compound" because it met some but not all of the compound identification criteria established for the particular analysis.

Approval:  Date: 4/7/03





U.S. Environmental Protection Agency  
Region 2 Laboratory

**Data Report: Vestal Well 1-1 [03/03]**

**Project Number: 03030003**

Program: Y206

Project Leader: L. Niles

Remark Codes	Explanation
B	RESULTS BASED UPON COLONY COUNTS OUTSIDE ACCEPTABLE RANGE
J	ESTIMATED VALUE
K	ACTUAL VALUE KNOWN TO BE LESS THAN VALUE GIVEN
L	ACTUAL VALUE KNOWN TO BE GREATER THAN VALUE GIVEN
N	SEE NARRATIVE COMMENTS
V	SAMPLE RECEIVED BUT NOT ANALYZED DUE TO LAB ACCIDENT
U	REPORTING LIMIT
NV	NOT VALIDATED
INC	RESULT NOT ENTERED
QD	ACCURACY CHECK SAMPLE ABOVE UPPER ACCEPTANCE LIMIT
QE	ACCURACY CHECK SAMPLE BELOW LOWER ACCEPTANCE LIMIT
QF	PRECISION OF CALIBRATION CURVE LESS THAN ACCEPTANCE CRITERIA
QJ	REPORTING LIMIT ESTIMATED DUE TO INTERFERENCE
QG	CONTINUING CALIBRATION CHECK DOES NOT MEET ACCEPTANCE CRITERIA
QS	SPIKE RECOVERIES ABOVE UPPER ACCEPTANCE LIMIT
QR	SPIKE RECOVERIES BELOW LOWER ACCEPTANCE LIMIT
QP	SAMPLE REPLICATE PRECISION DOES NOT MEET ACCEPTANCE CRITERIA
QH	RECOMMENDED HOLDING TIME EXCEEDED
QT	TENTATIVELY IDENTIFIED COMPOUND
QM	PRESENCE OF MATERIAL VERIFIED BUT NOT QUANTIFIED
QB	BLANK CONTAMINATED WITH ANALYTE IN EXCESS OF ACCEPTANCE CRITERIA
QQ	SAMPLE IMPROPERLY MAINTAINED



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [03/03]

Project Number: 03030003

\*Sorted By Sample ID

AE00279

Field/Station ID: 1-1 well influent  
Matrix: Aqueous

Date Received: 3/7/2003

Sample Description: INFLUENT

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
00004874	CHLOROMETHANE	—	1.00	ug/L
00007503	VINYL CHLORIDE	3.9		ug/L
00004839	BROMOMETHANE	—	1.00	ug/L
000075018	CHLOROETHANE	0.60	1.00	ug/L
000075692	TRICHLOROETHYLENE	—	1.00	ug/L
000075354	1,1-DICHLOROETHYLENE	8.2	1.00	ug/L
000075150	CARBON DISULFIDE	—	1.00	ug/L
000067640	ACETONE	—	5.00	ug/L
000075092	METHYLENE CHLORIDE	—	1.00	ug/L
000056605	TRANS-1,2-DICHLOROETHYLENE	—	1.00	ug/L
000075343	1,1-DICHLOROETHANE	26		ug/L
000056592	CIS-1,2-DICHLOROETHYLENE	64		ug/L
000074207	2,2-DICHLOROPROPANE	—	1.00	ug/L
000073933	2-BUTANONE	—	1.00	ug/L
000074975	BROMOCHLOROMETHANE	—	1.00	ug/L
000067663	CHLOROFORM	—	1.00	ug/L
000074536	1,1,1-TRICHLOROETHANE	120		ug/L
000056335	CARBON TETRACHLORIDE	—	1.00	ug/L
000067586	1,1-DICHLOROPROPENE	—	1.00	ug/L
000071432	BENZENE	—	1.00	ug/L
000107062	1,2-DICHLOROETHANE	—	1.00	ug/L
025129891	TRICHLOROETHYLENE	49		ug/L
000078873	1,2-DICHLOROPROPANE	—	1.00	ug/L
000074953	DIBROMOMETHANE	—	1.00	ug/L
000075274	BROMODICHLOROMETHANE	—	1.00	ug/L
010067015	CIS-1,3-DICHLOROPROPENE	—	1.00	ug/L
000108810	4-METHYL-2-PENTANONE	—	1.00	ug/L
000108833	TOLUENE	—	1.00	ug/L
010067020	TRANS-1,3-DICHLOROPROPENE	—	1.00	ug/L
000079005	1,1,2-TRICHLOROETHANE	—	1.00	ug/L
000075120	TETRACHLOROETHYLENE	—	1.00	ug/L
000122289	1,3-DICHLOROPROPANE	—	1.00	ug/L
000074481	DIBROMOCHLOROMETHANE	—	1.00	ug/L
000076934	1,2-DIBROMOETHANE	—	1.00	ug/L
000071730	2-HEXANONE	—	1.00	ug/L
000108907	CHLOROBENZENE	—	1.00	ug/L
010067020	1,1,1,2-TETRACHLOROETHANE	—	1.00	ug/L
000100419	ETHYLBENZENE	—	1.00	ug/L
000075007	M-P-XYLENE	—	1.00	ug/L
000095476	OXYBENE	—	1.00	ug/L
000067423	STYRENE	—	1.00	ug/L
000075252	BROMOFORM	—	1.00	ug/L



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [03/03]

Project Number: 03030003

\*Sorted By Sample ID

AE00249

Field/Station ID: 1-1 well influent  
Matrix: Aqueous

Date Received: 3/7/2003

Sample Description: INFLUENT

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000098373	ISOPROPYLBENZENE	1.00	1.00	ug/L
000108869	BROMOBENZENE	1.00	1.00	ug/L
000096489	1,2-DICHLOROPROPANE	1.00	1.00	ug/L
000079348	1,1,2,2-TETRACHLOROETHANE	1.00	1.00	ug/L
000103171	NITROPYRIBENZENE	1.00	1.00	ug/L
000098498	2-CHLOROTOLUENE	1.00	1.00	ug/L
000106484	4-CHLOROTOLUENE	1.00	1.00	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	1.00	1.00	ug/L
000098066	TERTBUTYLBENZENE	1.00	1.00	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	1.00	1.00	ug/L
000113988	SEC-BUTYLBENZENE	1.00	1.00	ug/L
000054731	1,3-DICHLOROBENZENE	1.00	1.00	ug/L
000106467	1,4-DICHLOROBENZENE	1.00	1.00	ug/L
000095501	1,2-DICHLOROBENZENE	1.00	1.00	ug/L
000099876	4-ISOPROPYLTOLUENE	1.00	1.00	ug/L
000104518	N-BUTYLBENZENE	1.00	1.00	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	1.00	1.00	ug/L
000120821	1,2,4-TRICHLOROBENZENE	1.00	1.00	ug/L
87-68-3	HEXACHLOROBTADIENE	1.00	1.00	ug/L
000091203	NAPHTHALENE	1.00	1.00	ug/L
000087616	1,2,3-TRICHLOROBENZENE	1.00	1.00	ug/L
	ETHANE, 1,1,2-TRICHLORO-1,2,2-TRIFLUORO-	1.00	1.00	ug/L
	PROPANE, 2-METHOXY-2-METHYL-1,1-DIFLUORO-	1.00	1.00	ug/L

AE00250

Field/Station ID: 1-1 well effluent  
Matrix: Aqueous

Date Received: 3/7/2003

Sample Description: EFFLUENT

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000074873	CHLOROMETHANE	1.00	1.00	ug/L
000074074	VINYL CHLORIDE	1.00	1.00	ug/L
000074839	BROMOMETHANE	1.00	1.00	ug/L
000075003	CHLOROBETHANE	1.00	1.00	ug/L





U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [03/03]

Project Number: 03030003

\*Sorted By Sample ID

**AE00250** Field/Station ID: 1-1 well effluent  
Matrix: Aqueous

Date Received: 3/7/2003

Sample Description: EFFLUENT

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000075694	TRICHLOROETHANOMETHANE	1.00		ug/L
000075753	1,1-DICHLOROETHENE	1.00		ug/L
000075750	CARBON DISULFIDE	1.00		ug/L
000075793	ACETONE	1.00		ug/L
000075092	METHYLENE CHLORIDE	1.00		ug/L
000075665	TRANS-1,2-DICHLOROETHENE	1.00		ug/L
000075343	1,1-DICHLOROETHANE	1.00		ug/L
000075692	CIS-1,2-DICHLOROETHENE	1.00		ug/L
000074207	2,2-DICHLOROPROPANE	1.00		ug/L
000078933	ZEBUTHANONE	1.00		ug/L
000074975	BROMOCHLOROMETHANE	1.00		ug/L
000067663	CHLOROFORM	1.00		ug/L
000071556	1,1,1-TRICHLOROETHANE	1.00		ug/L
000056235	CARBON TETRACHLORIDE	1.00		ug/L
000563586	1,1-DICHLOROPROPENE	1.00		ug/L
000071432	BENZENE	1.00		ug/L
000107062	1,2-DICHLOROETHANE	1.00		ug/L
025323891	TRICHLOROETHENE	1.00		ug/L
000078875	1,2-DICHLOROPROPANE	1.00		ug/L
000074953	DIBROMOMETHANE	1.00		ug/L
000075274	BROMODICHLOROMETHANE	1.00		ug/L
010067013	CIS-1,3-DICHLOROPROPENE	1.00		ug/L
000108101	2-METHYL-2-PENTANONE	1.00		ug/L
000108883	TOLUENE	1.00		ug/L
010067026	TRANS-1,3-DICHLOROPROPENE	1.00		ug/L
000075715	1,2-TRICHLOROETHANE	1.00		ug/L
000075714	TETRAFLUOROETHENE	1.00		ug/L
000142289	1,3-DICHLOROPROPANE	1.00		ug/L
000124431	DIBROMOCHLOROMETHANE	1.00		ug/L
000146954	1,1-DIBROMOETHANE	1.00		ug/L
000591786	2-HEXANONE	1.00		ug/L
000108907	CYCLOHEXENE	1.00		ug/L
000630201	1,1,1,2-TETRAFLUOROETHANE	1.00		ug/L
000100414	ETHYLBENZENE	1.00		ug/L
001330207	M/P-XYLENE	1.00		ug/L
000095476	O-XYLENE	1.00		ug/L
000100425	STYRENE	1.00		ug/L
000075252	BROMOFORM	1.00		ug/L



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [03/03]

Project Number: 03030003

\*Sorted By Sample ID

AE00250

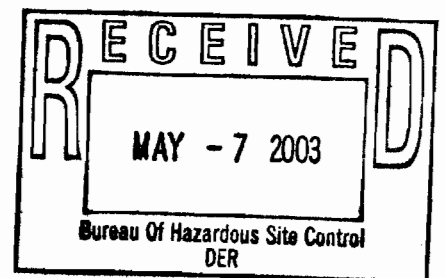
Field/Station ID: 1-1 well effluent  
Matrix: Aqueous

Date Received: 3/7/2003

Sample Description: EFFLUENT

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000098828	ISOPROPYLBENZENE	---	1.00	ug/l
000108761	BROMOBENZENE	---	1.00	ug/l
000096124	1,2,3-TRICHLOROBRU	---	1.00	ug/l
000096124	1,1,2-TRICHLOROETHANE	---	1.00	ug/l
000108651	NEOPYLBENZENE	---	1.00	ug/l
000098497	2-CHLOROTOLUENE	---	1.00	ug/l
000098497	3-CHLOROTOLUENE	---	1.00	ug/l
000108678	1,3,5-TRIMETHYLBENZENE	---	1.00	ug/l
000098066	TERT-BUTYLBENZENE	---	1.00	ug/l
000098656	1,2,4-TRIMETHYLBENZENE	---	1.00	ug/l
000135988	SEC-BUTYLBENZENE	---	1.00	ug/l
000098750	1,3-DICHLOROBENZENE	---	1.00	ug/l
000106467	1,4-DICHLOROBENZENE	---	1.00	ug/l
000098630	1,2-DICHLOROBENZENE	---	1.00	ug/l
000098876	4-ISOPROPYLTOLUENE	---	1.00	ug/l
000104518	N-BUTYLBENZENE	---	1.00	ug/l
000096128	1,2-DIBROMO-3-CHLOROPROANE	---	1.00	ug/l
000120821	1,2,4-TRICHLOROBENZENE	---	1.00	ug/l
87-68-3	HEXACHLOROBUTADIENE	---	1.00	ug/l
000091201	NAPHTHALENE	---	1.00	ug/l
000087616	1,2,3-TRICHLOROBENZENE	---	1.00	ug/l
	PROPANE 2-METHOXY 2-METHYL RT=8.01	0.70	1.00	ug/l



Project Approval: \_\_\_\_\_

*J. R. [Signature]*

Date: \_\_\_\_\_

*4/7/03*

Refer to Page 1 for an explanation of Remark Codes

Report Date: 3/31/2003 3:47PM

JAN 2003 3/19/03 JMS/Strang



Cyn \_\_\_\_\_  
the File

**FOSTER WHEELER ENVIRONMENTAL CORPORATION**

13 March 2003  
RAC II-2003-051

Ms. Sharon Trocher  
Work Assignment Manager  
U.S. Environmental Protection Agency  
290 Broadway, 20<sup>th</sup> Floor  
New York, NY 10007-1866

**SUBJECT: USEPA RAC II CONTRACT NUMBER: 68-W-98-214**  
**WORK ASSIGNMENT NUMBER: 009-RALR-0238**  
**VESTAL WATER SUPPLY WELL, OPERABLE UNIT 1**  
**JANUARY 2003 MONTHLY PERFORMANCE MONITORING REPORT**

704009A

Dear Ms. Trocher:

I am pleased to provide the January 2003 Monthly Performance Monitoring Report for the Vestal Water Supply Well treatment facility.

**A. Monthly Operations**

The groundwater treatment system at the Vestal Water Supply Well recommenced operation after several months of repairs and inspections on 3 January, and continued operation for the rest of the month. The Monthly Operating Report submitted by the Long Term Response Subcontractor, Aguilar Environmental, Inc., is included in Attachment 1. A summary of the operation and maintenance activities performed during January 2003 are as follows:

- Routine inspections of the facility were performed.
- The bypass valve and components were cleaned with acid to remove calcium carbonate depositions.
- Replaced air filters on blowers.
- Disassembled and cleaned pump control valve.
- Snow was shoveled to gain access to the buildings.

**B. Approximate Volumes of Groundwater Treated**

The following volumes of groundwater have been treated at the Vestal Water Supply treatment facility:

Volume of groundwater treated during January 2003 (29 days at 76%) = 36.5 million gallons.  
Cumulative volume of groundwater treated for the year 2003 = 36.5 million gallons.  
Cumulative volume of groundwater treated for the OU-1 = 2,120.7 million gallons.



### C. Comparison of Groundwater Influent and Effluent Concentration with Discharge Criteria

The treatment plant influent and effluent analytical data received from the analytical laboratory for January 2003 sampling event are included in Attachment 2. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

<u>Compound</u>	<u>Influent (ug/L)</u>	<u>Effluent (ug/L)</u>	<u>Discharge Criteria (ug/L)</u>
Vinyl Chloride	5.8	1.0 U	2
Chloroethane	0.70 J QM	1.0 U	
Trichlorofluoromethane	0.20 J QM	1.0 U	
1,1-Dichloroethene*	11	1.0 U	5
1,2-Dichloroethane		1.0 U	
Trans-1,2-Dichloroethene	0.30 J QM	1.0 U	
1,1-Dichloroethane*	32	1.0 U	5
Cis-1,2-Dichloroethene	74	0.20	5
Chloroform*	0.20 J QM	1.0 U	7
1,1,1-Trichloroethane*	140	1.0 U	5
Trichloroethene*	55	1.0 U	5

$\Sigma^* = 238 \text{ ppb}$      $\Sigma = 317.8 \text{ ppb}$   
Qualifiers: ug/L = micrograms per liter, \* = Site Contaminant of Concern, J = analyte detected below reporting limits, QM = presence of material verified but not quantified, and U = not detected at the reporting limit.

### D. Next Month's Activities

The following activities are planned for February 2003:

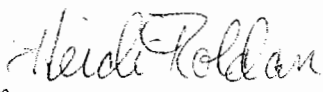
- Routine system maintenance.
- Monitor the water level in the wastewater underground storage tank (UST) to determine if water is entering or exiting the tank. If there is a problem, an internal inspection will be performed.

### E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded that the treated water continues to meet discharge limits. Therefore, cleaning or replacement of air stripper media is not required at this time. However, Layne still recommends that minor maintenance of the air stripper (i.e., cleaning demister and distribution plate, etc.) be performed. Foster Wheeler Environmental recommends that this be performed in the second quarter of 2003.

Please feel free to contact me at (973) 630-8318 if you should have any questions.

Sincerely,

  
for Charles Malaniak  
Project Manager

### Attachments

cc: K. Moncino (EPA)  
J. Strang (NYSDEC)

**ATTACHMENT 1**





# **AGUILAR ENVIRONMENTAL, INC.**

75 Paterson Street - Suite 9, New Brunswick, New Jersey 08901 • (732) 937-9950 • Fax (732) 937-9959

---

**JANUARY 2003**

## **MONTHLY OPERATING REPORT**

for

## **OPERATION & MAINTENANCE**

at

**VESTAL WELL 1-1 SITE  
VESTAL, NEW YORK**

Prepared for

### **FOSTER WHEELER ENVIRONMENTAL CORPORATION**

1000 The American Road  
Morris Plains, New Jersey 07950

**SUBCONTRACT #15623**

Prepared by

### **AGUILAR ENVIRONMENTAL, INC.**

919 Highway 33, Suite #47  
Freehold, New Jersey 07728

# TABLE OF CONTENTS

1.0	INTRODUCTION .....	1
2.0	MONTHLY OPERATIONS .....	1
3.0	REPAIR WORK .....	1
4.0	PROPOSED WORK .....	1
5.0	RECOMMENDATIONS .....	1

## **APPENDICES**

Appendix A - Copy of Log

Appendix B - Weekly Health and Safety Inspection Forms

## **1.0 INTRODUCTION**

The treatment system at Vestal Well 1-1 was restarted on January 3, 2003. The system has operated without interruptions since that date. There are still some minor issues that have to be worked out. The clearwell level indicator does not shut the system down with a low level alarm. The pump control valve needs rebuilding again (responds erratically and is leaking from the bonnet) and there is a small leak in piping (under insulation) from well to old building.

## **2.0 MONTHLY OPERATIONS**

The following work took place:

- Routine site inspections of the facility.
- Acid clean bypass valve and components.
- Shovel snow as necessary
- Changed air filters
- Disassembled and cleaned pump control valve.

## **3.0 REPAIR WORK**

All repair work that took place was mentioned above.

## **4.0 PROPOSED WORK**

- Rebuild pump control valve
- Locate leak in piping and repair
- Installation of cathodic protection system (if approved)
- Issue addendum to water treatment study when info arrives
- Resolve issue with UST when weather permits

## **5.0 RECOMMENDATIONS**

It is recommended that the following be acted upon by Foster Wheeler.

1. Rebuild (replace) of surge relief valve on high service pump system (quotation submitted). This valve cannot be eliminated due to the requirement to keep system operable for Town of Vestal emergencies.

2. Paint piping in stripper/blower building.
3. Approve purchase of a rebuild kit for the pump control valve and get authorization for the repair.

**APPENDIX A**

**COPY OF LOG**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
January 2003

**AGUILAR ENVIRONMENTAL, INC.**

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919 Highway 33 - #47, Freehold, New Jersey 07728 ■ Phone No. (732) 294-9980 ■ Fax No. (732) 294-9939

# 30 DECEMBER-5 JANUARY WEEK 1

DECEMBER 2002							JANUARY 2003							FEBRUARY 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31																		

GOALS \_\_\_\_\_

INSPIRATIONS \_\_\_\_\_

NOTES \_\_\_\_\_

## 30 Monday

364-001

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

## 31 Tuesday

365-000

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

New Year's Eve

## 1 Wednesday

001-364

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

New Year's Day

# 2002-03 30 DECEMBER-5 JANUARY

MARCH 2003							APRIL 2003							MAY 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31																		

GOALS \_\_\_\_\_

INSPIRATIONS \_\_\_\_\_

NOTES \_\_\_\_\_

## 2 Thursday

002-363

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

## 3 Friday

003-362

7:00	1:00
8:00	2:00
9:00	3:00
10:00	4:00
11:00	5:00
12:00	6:00

## 4 Saturday

004-361

AM *Water sta - Started system up*  
*problems w/ Pump Control Valve*

## 5 Sunday

005-360

AM *OK - OK* PM

**STAPLES**

DECEMBER 2002							JANUARY 2003							FEBRUARY 2003							MARCH 2003							APRIL 2003							MAY 2003																																																									
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S																																																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

**GOALS** \_\_\_\_\_ **INSPIRATIONS** \_\_\_\_\_ **NOTES** \_\_\_\_\_

**6 Monday** 006-359  
 7:00 Vented Site - Found Ice on Floor  
 8:00 7 in Chenwell - Low level & air  
 9:00 from Blower Frigging everything,  
 Pump control Valve stuck  
 10:00  
 11:00 wide open - won't respond.  
 12:00 Man opened by law & kept C.W. Full.

**7 Tuesday** 007-358  
 7:00 Vented Site - took apart Pump.  
 8:00 Control Valve & cleaned w/ acid  
 9:00 works OK, But Real Slow  
 10:00 Response  
 11:00  
 12:00

**8 Wednesday** 008-357  
 7:00 No Vent  
 8:00  
 9:00  
 10:00  
 11:00  
 12:00

**9 Thursday** 009-356  
 7:00 Vented Site - pressure increased  
 8:00 (owner) to 120 psig adjusted  
 9:00 pump control valve  
 10:00  
 11:00 leakage, HRS inspection  
 12:00 Shower OK, gen - OK Fiter OK - OK

**10 Friday** 010-355  
 7:00 No Vent  
 8:00  
 9:00  
 10:00  
 11:00  
 12:00

**11 Saturday** 011-354  
 AM No Vent PM  
 12:00

**12 Sunday** 012-353  
 AM Vented Site - OK PM  
 12:00

**STAPLES**

# 13-19 JANUARY WEEK 3

DECEMBER 2002							JANUARY 2003							FEBRUARY 2003										
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

13 Monday 013-352

7:00	1:00	
8:00	2:00	
9:00	3:00	
10:00	4:00	
11:00	5:00	
12:00	6:00	

No Vent

14 Tuesday 014-351

7:00	2:00	
8:00	3:00	
9:00	4:00	
10:00	5:00	
11:00	6:00	
12:00		

vented site - very cold out (below 0°F) all ok allowing C.W. to over flow due to Real cold weather

15 Wednesday 015-350

7:00	2:00	
8:00	3:00	
9:00	4:00	
10:00	5:00	
11:00	6:00	
12:00		

vented site - still REAL cold. all ok with O.F. mode w/ operation -

# 2003 13-19 JANUARY

MARCH 2003							APRIL 2003							MAY 2003										
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

16 Thursday 016-349

7:00	1:00	
8:00	2:00	
9:00	3:00	
10:00	4:00	
11:00	5:00	
12:00	6:00	

vented due to hotter cold  
All OK  
Weekly H&S inspection  
shown - ok  
Fire Exp - ok

17 Friday 017-348

7:00	1:00	
8:00	2:00	
9:00	3:00	
10:00	4:00	
11:00	5:00	
12:00	6:00	

vented site - still real cold  
appears to be a small leak in pipe from west to old pump house.  
lots of ice forming - prob. small copper line inside insulation

18 Saturday 018-347

7:00	1:00	
8:00	2:00	
9:00	3:00	
10:00	4:00	
11:00	5:00	
12:00	6:00	

vented site - see steel forming on ground - too cold to remove insul. & look for leak.

19 Sunday 019-346

7:00	1:00	
8:00	2:00	
9:00	3:00	
10:00	4:00	
11:00	5:00	
12:00	6:00	

No Vent

STAPLES



**20-26 JANUARY**

**WEEK 4**

DECEMBER 2002		JANUARY 2003							FEBRUARY 2003												
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
29	30	31					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
22	23	24	25	26	27	28	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
29	30	31					22	23	24	25	26	27	28	29	30	31					

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**20 Monday** 020-345 Martin Luther King Jr. Day (Observed - US)

7:00	Visited Site - Below OF still here!	1:00
8:00		2:00
9:00	all OK in c.t. of Offshore Well.	4:00
10:00		5:00
11:00	still	6:00
12:00		

**21 Tuesday** 021-344

7:00	No Visit	1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**22 Wednesday** 022-343

7:00	Visited Site	1:00
8:00		2:00
9:00	Checky P.V.S. Inspectors	3:00
10:00	and - ok	4:00
11:00	Shower ok	5:00
12:00		6:00

**2003**

**20-26 JANUARY**

MARCH 2003		APRIL 2003							MAY 2003												
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
6	10	11	12	13	14	15	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
16	17	18	19	20	21	22	19	20	21	22	23	24	25	26	27	28	29	30	31		
23	24	25	26	27	28	29	26	27	28	29	30										
30	31						27	28	29	30											

GOALS \_\_\_\_\_ INSPIRATIONS \_\_\_\_\_ NOTES \_\_\_\_\_

**23 Thursday** 023-342

7:00	Visited Site	1:00
8:00		2:00
9:00	Shoveled Snow around walkway!	3:00
10:00		4:00
11:00		5:00
12:00		6:00

**24 Friday** 024-341

7:00		1:00
8:00		2:00
9:00		3:00
10:00		4:00
11:00		5:00
12:00		6:00

**25 Saturday** 025-340

AM	Visited Site - Should again 2 <sup>nd</sup>	PM
----	---	----

**26 Sunday** 026-339

AM	Visited Site - still PReal Cold!	
----	----------------------------------	--

# 2003 27 JANUARY-2 FEBRUARY

MARCH 2003							APRIL 2003							MAY 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31						1	2	3	4	5	6	7

GOALS \_\_\_\_\_

INSPIRATIONS \_\_\_\_\_

NOTES \_\_\_\_\_

30 Thursday 030-335

7:00 Visited Site - Still cold (10°)

8:00 weather has not been above

9:00 freezing in over 3 wks,

10:00

11:00 Shoveled 2" snow

12:00

31 Friday 031-334

7:00 No Visit

8:00

9:00

10:00

11:00

12:00

1 Saturday 032-333

AM

PM

2 Sunday 033-332

AM

PM

STAPLES

# 27 JANUARY-2 FEBRUARY WEEK 5

DECEMBER 2002							JANUARY 2003							FEBRUARY 2003						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31					1	2	3	4	5	6	7

GOALS \_\_\_\_\_

INSPIRATIONS \_\_\_\_\_

NOTES \_\_\_\_\_

27 Monday 027-338

7:00 No Visit

8:00

9:00

10:00

11:00

12:00

28 Tuesday 028-337

7:00 Visited Site - Shoveled 1" snow

8:00 pump control valve stuck pred-

9:00 manually closed - No response

10:00 found OK valve - ambient closed

11:00 (no allowing water to top of valve)

12:00 Cleaned w/ acid - bit o.f. made!

29 Wednesday 029-336

7:00 Visited Site - all OK

8:00 Weekly N+G mop. all OK

9:00

10:00

11:00

12:00



**APPENDIX B**

**WEEKLY HEALTH & SAFETY INSPECTION FORMS**

Vestal Well 1-1 Site  
Vestal, New York

Monthly Operating Report  
January 2003

**AGUILAR ENVIRONMENTAL, INC.**

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75 Paterson Street - Suite 9, New Brunswick, New Jersey 08901 • Phone: (732) 937-9950 • Fax: (732) 937-9959

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: Dennis R. Shuman

Date: 01-09-03

Signature: Dennis R. Shuman

Time: 10:10 am

*OK?*

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	N/A		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	N/A		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	✓		Snow Covered!

ADDITIONAL COMMENTS: *Tested Shower*  
*Monitored Air*  
*Inspected Fire Extinguishers*

ACTIONS REQUIRED: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: D. SAIMER

Date: Jan 16 - 2003

Signature: Dean R. Saimer

Time: 10:00 AM

OK

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	—	—	N/A
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	—	—	N/A
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank			GROW

ADDITIONAL COMMENTS: *Weekly Health & Safety Inspection*  
*- air monitors - OK*  
*- fire extinguishers - OK*  
*- shower test - OK*

ACTIONS REQUIRED: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: D. R. SHIMER

Date: 01-22-03

Signature: *D. R. Shimer*

Time: 4:00 PM

OK?

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases			
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	<del>✓</del>	✓	None
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank	NO	✓	

ADDITIONAL COMMENTS: WEEKLY HAS WSP.

- 1) Monitored Air - ok
- 2) Fire extinguisher ok - OK
- 3) Shower test - ok

ACTIONS REQUIRED: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

FOLLOW-UP: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**VESTAL WELL 1-1 SITE  
WEEKLY HEALTH AND SAFETY INSPECTION FORM**

Inspector's Name: D. R. Shuman  
 Signature: D. R. Shuman

Date: Jan 29, 2003  
 Time: 11:00 AM

WORK CONDITIONS	YES	NO	OBSERVATIONS
Walking/Working Surfaces	✓		
Aisles and Passageways	✓		
Ladders	✓		
Exits/Egress	✓		
Roadways	✓		
Ventilation	✓		
Lighting	✓		
Noise Exposure	✓		
MATERIALS	YES	NO	OBSERVATIONS
Stacking and Storage	✓		
Chemicals and Fuel	✓		
Compressed Gases	N/A		
EQUIPMENT	YES	NO	OBSERVATIONS
Hand/Portable Tools	✓		
Materials Handling Equipment	✓		
Mechanical Power Systems	✓		
Pneumatic Power Systems	N/A		
Electrical Power Systems	✓		
Valves and Controls	✓		
HAZARD CONTROLS	YES	NO	OBSERVATIONS
Lock-Out Systems	✓		
Signs and Tags	✓		
Materials Labeling	✓		
Warning Systems	✓		

EMERGENCY SYSTEMS	YES	NO	OBSERVATIONS
Emergency Instructions	✓		
Fire Protection	✓		
Eye Wash and Showers	✓		
First Aid Kits/Stations	✓		
PROTECTIVE EQUIPMENT	YES	NO	OBSERVATIONS
Eye Protection	✓		
Ear Protection	✓		
Respiratory Protection	✓		
Head Protection	✓		
Hand Protection	✓		
Foot Protection	✓		
Body Protection	✓		
WASTE STORAGE AREAS	YES	NO	OBSERVATIONS
Drum Storage	✓		
Underground Storage Tank		✓	Can't check yet!

ADDITIONAL COMMENTS: performed air monitoring, OK  
Shower test  
fine Ext. etc - OK

ACTIONS REQUIRED: None

FOLLOW-UP: None

**ATTACHMENT 2**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION II  
EDISON, NEW JERSEY 08837

FEB 25 2003

Foster Wheeler Environmental Corp.  
1000 The American Road  
Morris Plains, N.J. 07950  
Attn: Lynn Niles

Dear Ms. Niles:

Enclosed are the results of the Vestal 1-1 sampling survey conducted by your firm during the week of February 3, 2003. These data include the results of two water samples for low-level volatile organic analysis. Any correspondence concerning these results should refer to our internal project number, 03020008, to uniquely identify it. Please refer to the first page of the report or the attached narrative for a description of any remark codes used as data qualifiers. It should be noted that all data are considered to be EPA- validated.

If you have any questions you can contact me by phone at (732) 906-6886, by fax at (732) 906-6165 or via the Internet at "birri.john@epa.gov".

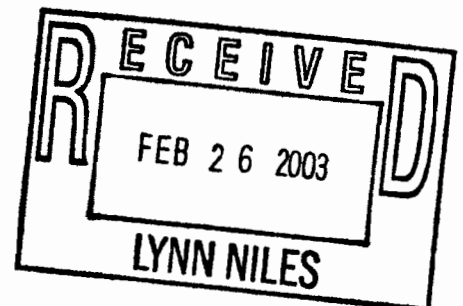
Sincerely,

A handwritten signature in cursive script that reads "John Birri".

John Birri  
Special Projects Coordinator  
Laboratory Branch

cc: Sharon Trocher (ERRD) w/enclosure

Enclosure



**Case Narrative:**

**Vestal Well 1-1 [02/03] #03020008**

The Laboratory has met all data quality objectives, e.g., Target Reporting Limits, Accuracy and Precision, established for this project except where noted below.

**Qualified Result(s):**

The following qualifier(s) were used to qualify data within this report:

- U - This qualifier indicates that the result is below the Laboratory's "Reporting Limit." The Reporting Limit is based on the lowest calibration standard used to generate the calibration curve used for the analysis.
- J QM - This qualifier indicates that the result(s) are estimated values. These result(s) are below the established "Reporting Limit" of the method. The Laboratory generally reports results down to the Reporting Limit of the method. Result(s) with a "J" have an decreased accuracy relative to environmental results that are reported equal to or above the Reporting Limit of the method.
- J QT - This qualifier indicates that the compound is a "tentatively identified compound" because it met some but not all of the compound identification criteria established for the particular analysis.

Approval:  Date: 2/24/03



U.S. Environmental Protection Agency  
Region 2 Laboratory

**Data Report: Vestal Well 1-1 [02/03]**

**Project Number: 03020008**

Program: Y206

Project Leader: L. Niles

Remark Codes	Explanation
B	RESULTS BASED UPON COLONY COUNTS OUTSIDE ACCEPTABLE RANGE
J	ESTIMATED VALUE
K	ACTUAL VALUE KNOWN TO BE LESS THAN VALUE GIVEN
L	ACTUAL VALUE KNOWN TO BE GREATER THAN VALUE GIVEN
N	SEE NARRATIVE COMMENTS
V	SAMPLE RECEIVED BUT NOT ANALYZED DUE TO LAB ACCIDENT
U	REPORTING LIMIT
NV	NOT VALIDATED
INC	RESULT NOT ENTERED
QD	ACCURACY CHECK SAMPLE ABOVE UPPER ACCEPTANCE LIMIT
QE	ACCURACY CHECK SAMPLE BELOW LOWER ACCEPTANCE LIMIT
QF	PRECISION OF CALIBRATION CURVE LESS THAN ACCEPTANCE CRITERIA
QJ	REPORTING LIMIT ESTIMATED DUE TO INTERFERENCE
QG	CONTINUING CALIBRATION CHECK DOES NOT MEET ACCEPTANCE CRITERIA
QS	SPIKE RECOVERIES ABOVE UPPER ACCEPTANCE LIMIT
QR	SPIKE RECOVERIES BELOW LOWER ACCEPTANCE LIMIT
QP	SAMPLE REPLICATE PRECISION DOES NOT MEET ACCEPTANCE CRITERIA
QH	RECOMMENDED HOLDING TIME EXCEEDED
QT	TENTATIVELY IDENTIFIED COMPOUND
QM	PRESENCE OF MATERIAL VERIFIED BUT NOT QUANTIFIED
QB	BLANK CONTAMINATED WITH ANALYTE IN EXCESS OF ACCEPTANCE CRITERIA
QQ	SAMPLE IMPROPERLY MAINTAINED





U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [02/03]

Project Number: 03020008

\*Sorted By Sample ID

AE00136

Field/Station ID: Influent  
Matrix: Aqueous

Date Received: 2/6/2003

Sample Description: 1-1 Well Influent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000074873	CHLOROMETHANE	---	1.0U	ug/L
000075014	VINYL CHLORIDE	5.8		ug/L
000074839	BROMOMETHANE	---	1.0U	ug/L
000075003	CHLOROETHANE	0.70	JQM	ug/L
000075694	TRICHLOROFLUOROMETHANE	0.20	JQM	ug/L
000075354	1,1-DICHLOROETHENE	11		ug/L
000075150	CARBON DISULFIDE	---	1.0U	ug/L
000067641	ACETONE	---	18U	ug/L
000075092	METHYLENE CHLORIDE	---	1.0U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	0.30	JQM	ug/L
000075343	1,1-DICHLOROETHANE	32		ug/L
000156592	CIS-1,2-DICHLOROETHENE	74		ug/L
000594207	2,2-DICHLOROPROPANE	---	1.0U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	1.0U	ug/L
000067663	CHLOROFORM	0.20	JQM	ug/L
000071556	1,1,1-TRICHLOROETHANE	140		ug/L
000056235	CARBON TETRACHLORIDE	---	1.0U	ug/L
000563586	1,1-DICHLOROPROPENE	---	1.0U	ug/L
000071432	BENZENE	---	1.0U	ug/L
000107062	1,2-DICHLOROETHANE	---	1.0U	ug/L
025323891	TRICHLOROETHENE	55		ug/L
000078875	1,2-DICHLOROPROPANE	---	1.0U	ug/L
000074953	DIBROMOMETHANE	---	1.0U	ug/L
000075274	BROMODICHLOROMETHANE	---	1.0U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	1.0U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	1.0U	ug/L
000127184	TETRACHLOROETHENE	---	1.0U	ug/L
000142289	1,3-DICHLOROPROPANE	---	1.0U	ug/L
000124481	DIBROMOCHLOROMETHANE	---	1.0U	ug/L
000106934	1,2-DIBROMOETHANE	---	1.0U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	1.0U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	---	1.0U	ug/L
000100414	ETHYLBENZENE	---	1.0U	ug/L
001330207	M/P-XYLENE	---	1.0U	ug/L
000095476	O-XYLENE	---	1.0U	ug/L
000100425	STYRENE	---	1.0U	ug/L
000075252	BROMOFORM	---	1.0U	ug/L

Refer to Page 1 for an explanation of Remark Codes



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [02/03]

Project Number: 03020008

\*Sorted By Sample ID

**AE00136**

Field/Station ID: Influent  
Matrix: Aqueous

Date Received: 2/6/2003

Sample Description: 1-1 Well Influent

**Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER**

CAS Number	Analyte Name	Result	Remark Codes	Units
000098828	ISOPROPYL BENZENE	---	1.0U	ug/L
000108861	BROMOBENZENE	---	1.0U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	1.0U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	1.0U	ug/L
000103651	N-PROPYL BENZENE	---	1.0U	ug/L
000095498	2-CHLOROTOLUENE	---	1.0U	ug/L
000106434	4-CHLOROTOLUENE	---	1.0U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	1.0U	ug/L
000098066	TERT-BUTYLBENZENE	---	1.0U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	1.0U	ug/L
000135988	SEC-BUTYLBENZENE	---	1.0U	ug/L
000541731	1,3-DICHLOROBENZENE	---	1.0U	ug/L
000106467	1,4-DICHLOROBENZENE	---	1.0U	ug/L
000095501	1,2-DICHLOROBENZENE	---	1.0U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	1.0U	ug/L
000104518	N-BUTYLBENZENE	---	1.0U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	1.0U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	1.0U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	1.0U	ug/L
000091203	NAPHTHALENE	---	1.0U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	1.0U	ug/L
	UNKNOWN CHLOROFUOROCARBON ,RT =5.31	0.60	JQT	ug/L
	ETHANE, 1,1,2-TRICHLORO-1,2,2-TR,RT=5.74	2.0	JQT	ug/L
	PROPANE, 2-METHOXY-2-METHYL-,RT=8.12	3.0	JQT	ug/L

**AE00137**

Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 2/6/2003

Sample Description: 1-1 Well Effluent

**Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER**

CAS Number	Analyte Name	Result	Remark Codes	Units
000074873	CHLOROMETHANE	---	1.0U	ug/L
000075014	VINYL CHLORIDE	---	1.0U	ug/L
000074839	BROMOMETHANE	---	1.0U	ug/L

Refer to Page 1 for an explanation of Remark Codes





U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [02/03]

Project Number: 03020008

\*Sorted By Sample ID

**AE00137**

Field/Station ID: Effluent  
Matrix: Aqueous

Date Received: 2/6/2003

Sample Description: 1-1 Well Effluent

**Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER**

CAS Number	Analyte Name	Result	Remark Codes	Units
000075003	CHLOROETHANE	---	1.0U	ug/L
000075694	TRICHLOROFLUOROMETHANE	---	1.0U	ug/L
000075354	1,1-DICHLOROETHENE	---	1.0U	ug/L
000075150	CARBON DISULFIDE	---	1.0U	ug/L
000067641	ACETONE	---	1.0U	ug/L
000075092	METHYLENE CHLORIDE	---	1.0U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	---	1.0U	ug/L
000075343	1,1-DICHLOROETHANE	---	1.0U	ug/L
000156592	CIS-1,2-DICHLOROETHENE	0.20	JQM	ug/L
000594207	2,2-DICHLOROPROPANE	---	1.0U	ug/L
000078933	2-BUTANONE	---	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	---	1.0U	ug/L
000067663	CHLOROFORM	---	1.0U	ug/L
000071556	1,1,1-TRICHLOROETHANE	---	1.0U	ug/L
000056235	CARBON TETRACHLORIDE	---	1.0U	ug/L
000563586	1,1-DICHLOROPROPENE	---	1.0U	ug/L
000071432	BENZENE	---	1.0U	ug/L
000107062	1,2-DICHLOROETHANE	---	1.0U	ug/L
025323891	TRICHLOROETHENE	---	1.0U	ug/L
000078875	1,2-DICHLOROPROPANE	---	1.0U	ug/L
000074953	DIBROMOMETHANE	---	1.0U	ug/L
000075274	BROMODICHLOROMETHANE	---	1.0U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000108101	4-METHYL-2-PENTANONE	---	1.0U	ug/L
000108883	TOLUENE	---	1.0U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE	---	1.0U	ug/L
000079005	1,1,2-TRICHLOROETHANE	---	1.0U	ug/L
000127184	TETRACHLOROETHENE	---	1.0U	ug/L
000142289	1,3-DICHLOROPROPANE	---	1.0U	ug/L
000124481	DIBROMOCHLOROMETHANE	---	1.0U	ug/L
000106934	1,2-DIBROMOETHANE	---	1.0U	ug/L
000591786	2-HEXANONE	---	1.0U	ug/L
000108907	CHLOROBENZENE	---	1.0U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	---	1.0U	ug/L
000100414	ETHYLBENZENE	---	1.0U	ug/L
001330207	M/P-XYLENE	---	1.0U	ug/L
000095476	O-XYLENE	---	1.0U	ug/L
000100425	STYRENE	---	1.0U	ug/L



U.S. EPA Region 2 Laboratory  
Data Report

Survey Name: Vestal Well 1-1 [02/03]

Project Number: 03020008

\*Sorted By Sample ID

AE00137

Field/Station ID: Effluent

Date Received: 2/6/2003

Matrix: Aqueous

Sample Description: 1-1 Well Effluent

Analysis Type: VOA LOW LEVEL GCMS DRINKING WATER

CAS Number	Analyte Name	Result	Remark Codes	Units
000075252	BROMOFORM	---	1.0U	ug/L
000098828	ISOPROPYLBENZENE	---	1.0U	ug/L
000108861	BROMOBENZENE	---	1.0U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	---	1.0U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE	---	1.0U	ug/L
000103651	N-PROPYLBENZENE	---	1.0U	ug/L
000095498	2-CHLOROTOLUENE	---	1.0U	ug/L
000106434	4-CHLOROTOLUENE	---	1.0U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	---	1.0U	ug/L
000098066	TERT-BUTYLBENZENE	---	1.0U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE	---	1.0U	ug/L
000135988	SEC-BUTYLBENZENE	---	1.0U	ug/L
000541731	1,3-DICHLOROBENZENE	---	1.0U	ug/L
000106467	1,4-DICHLOROBENZENE	---	1.0U	ug/L
000095501	1,2-DICHLOROBENZENE	---	1.0U	ug/L
000099876	4-ISOPROPYLTOLUENE	---	1.0U	ug/L
000104518	N-BUTYLBENZENE	---	1.0U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	---	1.0U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	---	1.0U	ug/L
87-68-3	HEXACHLOROBUTADIENE	---	1.0U	ug/L
000091203	NAPHTHALENE	---	1.0U	ug/L
000087616	1,2,3-TRICHLOROBENZENE	---	1.0U	ug/L
	PROPANE, 2-METHOXY-2-METHYL-, RT =8.06	0.80	JQT	ug/L

Project Approval:

*John R. ...*

Date:

2/24/03

Refer to Page 1 for an explanation of Remark Codes