

8 March 2006 RAC II-2006-044

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 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the December 2005 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 for the entire month of December. A summary of the operation and maintenance activities performed during December is as follows:

- Routine inspections of the facility were performed;
- Pumps were checked and lubricated;
- · Air filters were cleaned or replaced;
- · Removed snow and de-iced sidewalk; and
- The monthly influent and effluent samples were collected.



## B. Operational Data

The following table presents operational data for the year 2005, arranged by month:

Month	Operating Days	Average flow Meter%	Average flow rate (gpm)	Amount of groundwater treated (mg)
January	31	<b>4</b> 7	541	24.2
February	28	46	529	21.3
March	31	<b>4</b> 5	517.5	22.4
April	17	48	· 552	13.5
May	31	*	*	· Action and the Contraction of States of Stat
June	30	*	*	*
July	29	*	*	*
August	29	*	*	*
September	30	*	*	*
October	31	*	*	*
November	30	*	*	*
December	31	*	*	*
Volume of groundwat	er treated for 2005			81.4*
Volume of groundwat	er treated for the C	)U-1		2684.8*

<sup>\*</sup>The float control valve is not closing completely, p eventing the flow meter from operating correctly. A replacement is being sought.

gpm - gallons per minute mg - millions of gallons

#### C. Comparison of Influent and Effluent Concentrations with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of December 2005 are included in Attachment 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

, v		Influent Concentration (ug/L)										Effluent Concentrati		
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	on (ug/L) December
Vinyl Chloride	2	3.5	3.9	3.4	4.4	4.1	3.7	3.5	3.3	4.5	4.2	3.8	3.0	0.5 U
Chloroethane	_	0.5	0.6	0.5	0.73	0.59	0.54	0.55	0.5U	0.5U	0.5U	0.51	0.5U	0.5 U
1,1-Dichloroethene*	5	13	9.3	8.4	11	12	9.5	9.4	8.3	8.7	8.6	8.3	7.4	0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1	2.9	2.6	3.2	2.6	2.9	2.9	2.4	2.8	2.7	2.7	2.7	0.5 U
Acetone		1.0 U	2.3	1.0 U	1.0U	1.0U	1.0 U	1.0U	5.0U	1.0U	1.0U	10U	1.0U	1.8
Methylene Chloride		U	U	U	U	U	U	U	U	U	U	U	0.5U	13
Trans 1,2-Dichloroethene*	5	0.5 U	0.5 U	0.5 U	0.5U	0.5U	0.5 U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5 U
Methyl Tert-Butyl Ether		4.7	4.3	4.3	3.9	4.2	3.9	4.2	3.7	3.6	4.0	3.0	3.4	1.7
1,1-Dichloroethane	5	18	17	17	24	17	17	17	18	18	18	16	14	1.7
Cis-1,2-Dichloroethene*	5	50	46	46	54	47	45	44	41	44	42	40	37	5.1
Chloroform	7	0.5 U	0.5 U	0.5 U	0.5U	0.5U	0.5 U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5 U
1,1,1-Trichloroethane*	5	110	120	110	140	110	120	110	100	110	100	110	110	4.6
Trichloroethene*	5	43	40	40	47	39	38	36	35	36	35	35	34	2.4
Total Volatile Organics*	100	245.8	246.3	232.2	288.23	236.49	240.54	227.55	211.7	227.6	214.5	219.31	211.5	17.3

Note:

ug/L = micrograms per liter
\* = Site Contaminant of Concern

U = Below Reporting Limit NS = Not Sampled

#### D. Next Month's Activities

The following activities are planned for January 2006:

- · Repair flow meter valve; and
- Perform monthly performance monitoring sampling.

#### E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded 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

Attachment

cc: P. Long (NYSDEC)

ATTACHMENT 1

# Case Narrative: Vestal 1-1. #05120015

The National Environmental Laboratory Accreditation Conference (NELAC) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAC established and promoted a national accreditation program that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAC accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAC Standards.

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Comment	0	ŀ٠
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None

## Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs) for each analyte requested except for the following analyte(s):

Volatile Organic Compounds: The CRQL for 1,2-Dibromo-3-chloropropane in water is 0.5 ug/L (OLC03.2). The Laboratory's Reporting Limit was raised to 5 ug/L due to problems associated with the initial calibration curve.

#### Method(s):

Low Level Volatile Organic Analysis, ESAT-SOP-132 (GC/MS Method)

Approval:	(	2 ck. the	Date:	1-31-06	
11					_

Project Number: 05120015

\*Sorted By Sample ID

AG08940

Field/Station ID: INFLUENT

Date Received: 12/6/2005

Matrix: Aqueous

Sample Description:

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER
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Analysis Type: v	OA GEMB BOW BEVER DRINKING WATER		Remark_	
CAS Number	Analyte Name	Result	<u>Codes</u>	<u>Units</u>
75-43-4	DICHLORODIFLUOROMETHANE		0.50U	ug/L
000074873	CHLOROMETHANE		0.50U	ug/L
000075014	VINYE CHEORIDE TO A TOTAL AND A CONTROL OF THE CONT	ender en 3.0	er element a como	- Lug/L
000074839	BROMOMETHANE	AND EXPANDE	0.50U	ug/L
000075003	CHLOROETHANE	Carabaran Edukaran	0.50U	ug/L
000075694	TRICHLOROFLUOROMETHANE	e du la compania de la compania del compania del compania de la compania del compania de la compania de la compania del compania de la compania de la compania de la compania del compania	0.50U	ug/L
000075354	1,1-DICHLOROETHEN	7.4		ug/L
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUØROETHANE	2.7		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	3.4		ug/L
000075343	1.1-DICHLOROETHANE:	14 to 14 to 14	La viblation	ug/Li
000156592	CIS-1,2-DICHLOROETFENE	37	uhatari munankari rashaan ras	ug/L
594-20-7	2,2-DICHEOROPROPANE. are all successions of the	erentis (de <del>- 1</del> 74) é pi	asou	ug/L
000078933	2-BUTANONE		1.0U	ug/L
000074975	BROMOCHLOROMETIANE		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 TETRACHECRIDE		0.50U	'ug/L'
000563586	1,1-DICHLOROPROPENE BENZENE		0.50U	ug/L
000071432 000107062	1,2-DICHLOROETHANE		0.50U	jugilie 2
025323891	TRICHLOROETHENE		0.50U	ug/L
108-87-2	METHYLCYCLOHEXANE	34	0.50U	ug/L
000078875	12-DICHLOROPROPANE		0.500	ug/L ug/L
000074953	DIBROMOMETHANE		0.50U	ug/L
000075274	BROMODICHLOROMETHANE		0.50U	ig/L
010061015	CIS-1,3-DICHLOROPROPENE		0.50U	ug/L
000108101	4-METHYL-2-PENTANONE		1.0U. A.	ig/Lat-
000108883	TOLUENE		0.50U	ug/L
010061026	TRANS-1,3-DICHLORCPROPENE		0.50U	ug/L
000079005	1,1,2-TRICHLOROETH ANE		0.50U	ug/L
000127184	TETRACHLOROETHENE	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	0.50U	ug/E
000142289	1,3-DICHLOROPROPANE	A Company of the Comp	0.50U	ug/L
0001124481	DIBROMOCHLOROMETHANE 1	¥M¥	- 0.50U	ug/L
000126934	1,2-DIBROMOETHANE		0.50U	ug/L
000591786	2-HEXANONE		1.00	ug/L
000108907	CHLOROBENZENE		0.50U	ug/L
300-0000				· · · · · · · · · · · · · · · · · · ·

Refer to Page 1 for an explanation of Remark Codes

Report Date: 1/20/2006 4:57PM Page 2 of 5

Project Number: 05120015

\*Sorted By Sample ID

AG08941

Field/Station ID: EFFLUENT

Date Received: 12/6/2005

Matrix: Aqueous

Sample Description:

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark	
CAS Number	Analyte Name	<u>Result</u>	Codes	<u>Units</u>
75-43-4	DICHLORODIFLUOROMETHANE	- <u></u> -	0.50U	ug/L
000074873	CHLOROMETHANE	And the second s	0.50U	ug/L
000075014	VINYL CHLORIDE		0.500	ug/E
000074839	BROMOMETHANE		0.50ป	ug/L
000075003	CHLOROETHANE			iig/L
000075694	TRICHLOROFLUOROMETHANE	an i Brita i med to a <del>rec</del> ti	0.50U	ug/L
000075354	1,1-DICHLOROETHENE		0.50U	ug/L
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	And the state of t	0.50U	ug/L
000075150#	CARBON DISULFIDE	<b>YARAPO</b> TO <b>PARAP</b> ERALA	*** Q.5QU -*	rigida <b>ug/L</b> ingtraga
000067641	ACETONE	1.8	Land College	ug/L
79-20-9	METHYE ACETATE		0:50U	ug/L
000075092	METHYLENE CHLORIDE	13		ug/L
000156605	TRANS-12 DIGHEOROFTHEND THE MARKET BEFORE THE		0:50U	e ug/L
001634044	METHYL TERT-BUTYL ETHER	$\sim$ 1.7 $_{\odot}$	A THE STATE OF	ug/L
000075343	1,1-DICHLOROBTHANE	1.7		ug/L
000156592	CIS-1,2-DICHLOROETHENE	5.1		ug/E
594-20-7	2,2-DICHLOROPROPANE		0:50U	ng/li
000078933	2-BUTANONE		1.0U	ug/L
000074975	BROMOCHLOROMETHANE at the state of the state		4 9 <b>0:50U</b> , (6)	ug/L
000067663	CHLOROFORM		⊭ੂ ⊫ 0.50U ⊹	ug/L
71-55-6	: LILTRICHLOROETHANE	4.6	in and Andraka	ug/L
110-82-7	CYCLOHEXANE		0.50U	ug/L
000056235	CARBON TETRACHEORIDE		767 O:50U	u <b>ye</b> t
000563586	1,1-DICHLOROPROPENE		0.50 <b>U</b>	ug/L
000071432	BENZENE	weath material	0.50L	ug/L
000107062	1,2-DICHLOROETHANE		0.50U	ug/L
025323891	TRICHLOROETHENE	P. L. L. 44.		ug/L
108-87-2	METHYLCYCLOHEXANE	AND CONTRACTOR OF THE CONTRACT	0.50U	ug/L
000078875	1,2-DICHLOROPROPANE	viki <b>jali</b> paritulikasi	0.50U	ug/L
000074953	DIBROMOMETHANE	and the second seco	0.50U	ug/L
000075274	BROMODICHLOROMETHANE	and the same of	0.50U	AND THE PARTY OF T
010061015	CIS-1,3-DICHLOROPROPENE		0.50U	ug/L
000108101	4-METHYL-2-PENTANONE		1.00	ug/E
000108883	TOLUENE	THE REPORT OF THE PROPERTY OF	0.50U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE		<b>0.50</b> U	ug/L
000079005	1,1,2-TRICHLOROETHANE		0.50U	ug/L
000127184	TETRACHLOROETFENE		<b>0.50U</b>	tig/L
0001/2280	1.2 DICHTODODDODANE	THE RESERVE THE RESERVE TO THE RESERVE THE	0.5011	ng/I

efer to Page 1 for an explanation of Remark Codes

000142289

eport Date: 1/20/2006 4:57PM

1,3-DICHLOROPROPANE

0.50U

ug/L

I		



15 February 2006 RAC II-2006-018

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 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the November 2005 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 for the entire month of November. A summary of the operation and maintenance activities performed during November is as follows:

- Restored telephone service to the facility;
- Routine inspections of the facility were performed;
- Pumps were checked and lubricated;
- Air filters were cleaned or replaced;
- De-iced sidewalk; and
- The monthly influent and effluent samples were collected.



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#### **B.** Operational Data

The following table presents operational data for the year 2005, arranged by month:

Month	Operating Days	Average flow Meter%	Average flow rate (gpm)	Amount of groundwater treated (mg)
January	31	47	541	24.2
February	28	46	529	21.3
March	31	45	517.5	22.4
April	17	48	552	13.5
May	31	*	*	*
June	30	*	*	*
July	29	*	*	*
August	29	*	*	*
September	30	*	*	*
October	31	*	*	*
November	30	*	*	*
Volume of groundwa	ter treated for 2005	<u> </u>	•	81.4*
Volume of groundwa	ter treated for the O	-1		2684.8*

<sup>\*</sup>The float control valve is not closing completely, preventing the flow meter from operating correctly. A replacement is being sought.

gpm - gallons per minute mg - millions of gallons

#### C. Comparison of Influent and Effluent Concentrations with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of November 2005 are included in Attachment 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

	Discharge		Influent Concentration (ug/L)									Effluent Concentrati		
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Júl	Aug	Sep	Oct	Nov	Dec	on (ug/L) November
Vinyl Chloride	2	3.5	3.9	3.4	4.4	4.1	3.7	3.5	3.3	4.5	4.2	3.8		0.5 U
Chloroethane		0.5	0.6	0.5	0.73	0.59	0.54	0.55	0.5U	0.5U	0.5U	0.51		0.5 U
1,1-Dichloroethene*	5	13	9.3	8.4	11	12	9.5	9.4	8.3	8.7	8.6	8.3		0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1	2.9	2.6	3.2	2.6	2.9	2.9	2.4	2.8	2.7	2.7		0.5 U
Acetone		1.0 U	2.3	1.0 U	1.0U	1.0U	1.0 U	1.0U	5.0U	1.0U	1.0U	10U		10U
Trans 1,2-Dichloroethene*	5	0.5 U	0.5 U	0.5 U	0.5U	0.5U	0.5 U	0.5U	0.5U	0.5U	0.5U	0.5U		0.5 U
Methyl Tert-Butyl Ether		4.7	4.3	4.3	3.9	4.2	3.9	4.2	3.7	3.6	4.0	3.0		1.7
1,1-Dichloroethane	5	18	17	17	24	17	17	17	18	18	18	16		1.8
Cis-1,2-Dichloroethene*	5	50	46	46	54	47	45	44	41	44	42	40		5.3
Chloroform	7	0.5 U	0.5 U	0.5 U	0.5U	0.5U	0.5 U	0.5U	0.5U	0.5U	0.5U	0.5U		0.5 U
1,1,1-Trichloroethane*	5	110	120	110	140	110	120	110	100	110	100	110		4.8
Trichloroethene*	5	43	40	40	47	39	38	36	35	36	35	35		2.5
Total Volatile Organics*	100	245.8	246.3	232.2	288.23	236.49	240.54	227.55	211.7	227.6	214.5	219.31		16.1

Note:

ug/L = micrograms per liter

\* = Site Contaminant of Concern

 $U = Below \ Reporting \ Limit$ 

NS = Not Sampled

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#### D. Next Month's Activities

The following activities are planned for December 2005:

- Repair flow meter valve; and
- Perform monthly performance monitoring sampling.

#### E. Summary and Recommendations

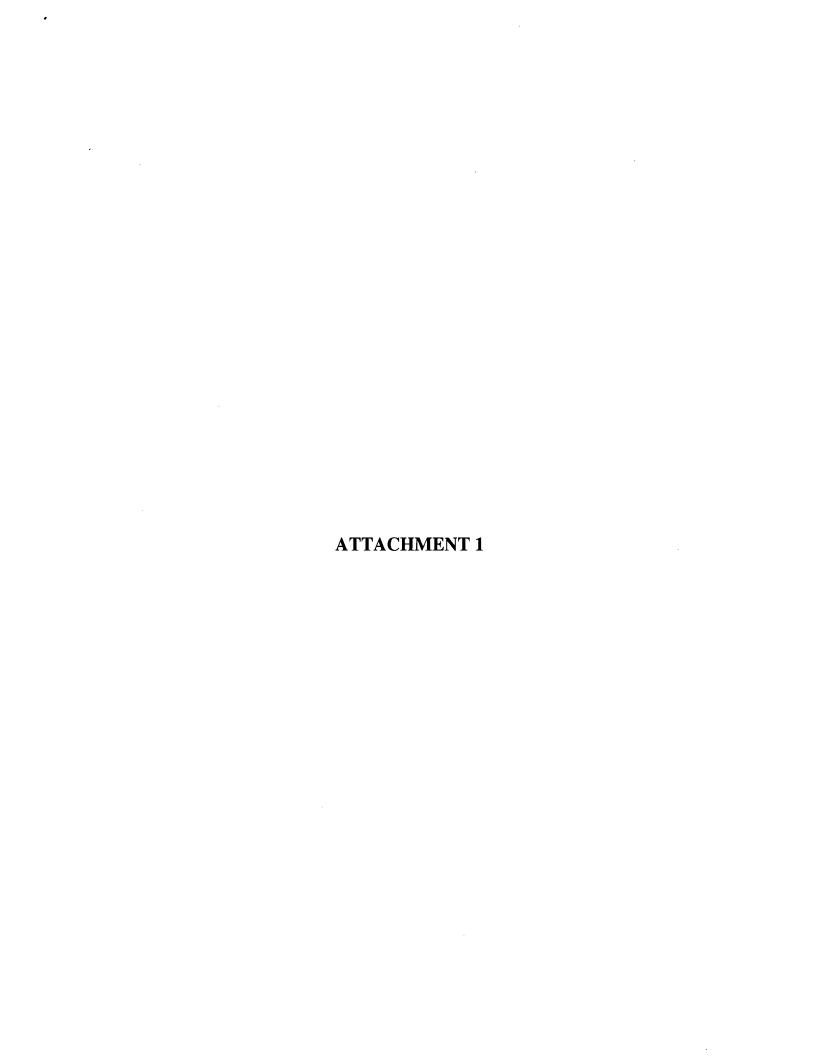
Based on the treatment plant influent and effluent data summarized above, it can be concluded the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8197 if you should have any questions.

Sincerely,

Heidemarie Roldan Project Manager

Attachment

cc: M. Dunham (NYSDEC)



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# Case Narrative:

## Vestal Well 1-1 #05110026

The National Environmental Laboratory Accreditation Conference (NELAC) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAC established and promoted a national accreditation program that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAC accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAC Standards.

#### Comment(s):

None

## Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs) for each analyte requested except for the following analyte(s):

Volatile Organic Compounds: The CRQL for 1,2-Dibromo-3-chloropropane in water is 0.5 ug/L (OLC03.2). The Laboratory's Reporting Limit was raised to 5 ug/L due to problems associated with the initial calibration curve. The CRQL for Acetone in water is 5 ug/L (OLC03.2). The Laboratory's Reporting Limit was raised to 10 ug/L due to blank contamination.

#### Method(s):

Low Level Volatile Organic Analysis, ESAT-SOP-132 (GC/MS Method).

Approval: _	J. K. Ika	Date:	1-10-06
7	7		



# U.S. Environmental Protection Agency Region 2 Laboratory 2890 Woodbridge Avenue Edison, NJ 08837

Data Report: Vestal Well 1-1 [11/05]

Projec: Number: 05110026

Program: Y206E

Projec: Leader: L. Arabia

Remark	
Codes	Explanation
U	THE ANALYTE WAS NOT DETECTED A TOR ABOVE THE REPORTING LIMIT.
J	THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE IS AN ESTIMATE.
UJ	THE ANALYTE WAS NOT DETECTED A $^\circ$ 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.
К	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

Report Date: 12/23/2005 9:35AM Page 1 of 5

Project Number: 05110026

\*Sorted By Sample ID

AG08414

Field/Station ID: INFLUENT

Date Received: 11/8/2005

Matrix: Aqueous

Sample Description:

Analysis Type: VOA G	CMS LOW LEVEL DRINKING WATER		D 1-	
•		D. U	Remark_ <u>Codes</u>	I I 14
	lyte Name	<u>Result</u>		<u>Units</u>
・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	CHLORODIFLUOROMETHANE	77.4.	0.50U	Hg/I
	HLOROMETHANE		0.50U	ug/L
(5) (2) 四、"(2) 方、物"或如《江南海洋系统等等数据等。	NYL CHLORIDE	3.8		ug/L
- 1 Mar A	ROMOMETHANE	The desired and the second state of the con-	0.50U	ug/L
· · · · · · · · · · · · · · · · · · ·	ILOROETHANE	0.51		ug/L
and the second control of the second control	UCHLOROFLUOROMETHANE	A STATE OF THE PROPERTY OF THE	0.50U	ug/L
	-DICHLOROETHENEO	8.3	Salated Second	ug/L
and the same of the first of the same of t	,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	2.7	And the second selection of the second second	ug/L
2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	ARBON DISULFIDE		0.50U	ug/L
and the same of	CETONE		10U	ug/L
(2) 15 5 12 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	ETHYL ACETATE	<del></del>	0.50U	ug/L
	ETHYLENE CHLORIDE		0.50U	ug/L
	ANS-1,2-DICHEOROETHENE		0.50U	ug/L
	ETHYL TERT-BUTYL ETHER	3.0		ug/L
000075343 1,1	-DICHLOROETHANE	16		ng/L
000156592 CI	S-1,2-DICHLOROETHENE	40		ug/L
594-20-7 2,2	-DICHLOROPROPANE	31 <del>-1-</del>	0.50U	ug/L
000078933 2-I	BUTANONE		1.0U"	ug/L
000074975 BR	OMOCHEOROMETERANE SEASON SEASO	SANCED A SOL	7-0.50U	ug/L Fa
000067663 CH	ILOROFORM		0.50U	ug/L
71-55-6	,1-TRICHEOROETHANE	110		ug/L
110-82-7 CY	CLOHEXANE	44	0.50U	ug/L
000056235 CA	RBON TETRACHLORIDE	#. <u>#</u>	0.50U	ug/E
000563586 1,1	-DICHLOROPROPENE		0.50U	ug/L
	NZENE		0.50U	ug/L ,
000107062 1,2	-DICHLOROETHANE		0.50U	ug/L
025323891 TR	ICHLOROETHENE	35		ug/L
108-87-2 ME	THYLCYCLOHEXANE		0.50U	ug/L
000078875 1,2	-DICHLOROPROPANE	<u></u> -	0.50U	ug/L
000074953 DII	BROMOMETHANE		0.50U	ug/L
000075274 BR	OMODICHLOROMETHANE		0.50U	ug/L
010061015 CIS	S-1,3-DICHLOROPROPENE	<b></b> -	0.50U	ug/L
000108101 4-N	METHYL-2-PENTANONE		1.0U-	~* ug/L}-
000108883 TO	LUENE:		0.50U	ug/L
010061026 TR	ANS-1,3-DICHLOROPROPENE		0.50U	ug/L
000079005 1,1,	2-TRICHLOROETHANE	A STATE OF THE PERSON OF	0.50U	ug/L
000127184 TE	TRACHLORÓETHENE		0.50U	ug/Ĺ
000142289 1,3-	-DICHLOROPROPANE	The second secon	0.50U	ug/L
000124481 DIE	BROMOCHLOROMETHANE ************************************	de <del>Li</del> ne, frat	6.50U : http://	⊮ug/L
000106934 1,2-	DIBROMOETHANE	esperie NA marida, apropio 75 - Nacional del Se	0.50U	ug/L
	EXANONE	Barrier Carlos Carlos Carlos	1.0U	ug/L
The second secon	LOROBENZENE		0.50U	ug/L
efer to Page 1 for an explanation of	·			_

efer to Page 1 for an explanation of Remark Codes

eport Date: 12/23/2005 9:35AM

Project Number: 05110026

\*Sorted By Sample ID

AG08414

Field/Station ID: INFLUENT

Date Received: 11/8/2005

Matrix: Aqueous

Sample Description:

	Analysis Type: V	OA GCMS LOW LEVEL DRINKING V/ATER		Remark	
	CAS Number	Analyte Name	Result	Codes	<u>Units</u>
	000630206	1,1,1,2-TETRACHLOROETHANE		0.50U	ug/L
Serie i	100-41-4	ETHYLBENZENE	and the second	0.50U	ug/L
	001330207	M/P-XYLENE	<u></u>	0.50U	ug/L
Yest of	000095476	O-XYLENE		0.50U	ug/L
	000100425	STYRENE [	<u></u> -	0.50U	ug/L
	000075252	BROMOFORM		0.50U	ug/L
	000098828	ISOPROPYLBENZENE	167 <del>- 1</del> 77 - 177	0.50U	ug/L
	000108861	BROMOBENZENE	and the second s	0.50U	ug/L
WA	000096184	1,2,3-TRICHLOROPROPANE	1 - Paris (1974)	~ 0.50U:	ug/L
	000079345	1,1,2,2-TETRACHLORCETHANE		0.50U	ug/L
	000103651	N-PROPYLBENZENE		0.50U	ug/L
	000095498	2-CHLOROTOLUENE		0.50U	ug/L
-9	106-43-4	4-CHLOROTOLUENE	#= 7: **	0.500	ug/L
	000108678	1,3,5-TRIMETHYLBENZENE		0.50U	ug/L
	000098066	TERT BUTYLBENZENE	water (Company)	0.50U	ug/L
	000095636	1,2,4-TRIMETHYLBENZENE		0.50U	ug/L
	135-98-8	SEC-BUTYLBENZENE	. <del>-</del> .	0.50U	ug/L
	000541731	1,3-DICHLOROBENZENE		0.50U	ug/L
	000106467	1,4-DICHLOROBENZENE	M 300	0.50U	ug/L
100	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	in the second second	5.0U	ug/L
. ***	000120821	1,2,4-TRICHLOROBENZENE	<u> </u>	0.50U	ug/L
33	87-68-3	HEXACHLOROBUTACIENE:		0.50U	ug/L
	000091203	NAPHTHALENE		0.50U	ug/L
dia dia	000087616	1,2,3-TRICHLOROBENZENE		0.50U	ug/L
	1330-20-7	TOTAL XYLENES		0.50U	ug/L

AG08415

Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 11/8/2005

Refer to Page 1 for an explanation of Remark Codes

Report Date: 12/23/2005 9:35AM Page 3 of 5

Project Number: 05110026

\*Sorted By Sample ID

AG08415

Field/Station ID: EFFLUENT

Date Received: 11/8/2005

Matrix: Aqueous

Sample Description:

			Remark_	
CAS Number	Analyte Name	Result	<u>Codes</u>	<u>Units</u>
75-43-4	DICHLORODIFLUOROMETHANE	product <del>i i i i</del> taka	0.50U	ug/L
000074873	CHLOROMETHANE	d. Shirthiak)	0.50U	ug/L
000075014	VINYL CHLORIDE	u in it dischib	0.50U	ug/L
000074839	BROMOMETHANE		0.50U	ug/L
000075003	CHLOROETHANE		0.50U	ug/L
000075694	TRICHLOROFLUOROMETHANE	yr, 7, 1 <del>4-</del> ,1 84.	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	#::/// <u></u> ///	0.50U	ug/L
000067641	ACETONE		10U	ug/L
79-20-9	METHYL ACETATE	j singa	0.50U	ug/L
000075092	METHYLENE CHLORIDE		0.50U	ug/L
000156605	TRANS-1,2-DICHEOROETHENE	· · · · · · · · · · · · · · · · · · ·	"∷ 0.50U	ug/L
001634044	METHYL TERT-BUTYL ETHER	1.7	ATTACHER TO THE PARTY OF THE PA	ug/L
000075343	I,I-DICHLOROETHANE	j. v. 1.8.		ug/L
000156592	CIS-1,2-DICHLOROETHENE	5.3	The second of th	ug/L
594-20-7	2,2-DICHLOROPROPANE		. 0.50U	ug/L
000078933	2-BUTANONE	THE TOTAL PROPERTY OF THE PARTY	1.0U	ug/L
000074975	BROMOCHLOROMETHANE	1. 4. 4. <u>1.</u> 4. 4.	""0.30U	ug/E
000067663	CHLOROFORM		0.50U	ug/L
71-55-6	I, L.I. TRICHLOROETHANE	4.8		ug/L
110-82-7	CYCLOHEXANE		0.50U	ug/L
000056235	CARBON TETRACHLORIDE	er en	0.50U	ug/L
000563586	1,1-DICHLOROPROPENE	eran i Albert o Mericante e e e e e e e e e e e e e e e e e e	0.50U	ug/L
000071432	BENZENE	000 1000 <u>11</u> 00 1100	0.50U	ug/L
000107062	1,2-DICHLOROETHANE		<b>0.50</b> U	ug/L
025323891	TRICHLOROETHENE	2.5		ug/L
108-87-2	METHYLCYCLOHEXANE		0.50U	ug/L
000078875	1,2-DICHLOROPROPANE			ug/L
000074953	DIBROMOMETHANE		0.50U	ug/L
000075274	BROMODICHLOROMETHANE		0.50U	ug/L
010061015	CIS-1,3-DICHLOROPROPENE	Service Service Constitution of the service Constitution o	0.50U	ug/L
000108101	4-METHYL-2-PENTANONE		1.0U	ug/L
000108101	TOLUENE	San San Laborated Schools San	0.50U	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE		0.50U ⊸0.50U	ug/L ug/L
000079005	1,1,2-TRICHLOROETHANE		0.50U	APPROXIMATE AND THE PROPERTY.
000127184	TETRACHLOROETHENE		0.50U	ug/L
000127184	1,3-DICHLOROPROPANE	and the same and t	0.50U	ug/L ug/L

fer to Page 1 for an explanation of Remark Codes

port Date: 12/23/2005 9:35AM

Project Number: 05110026

\*Sorted By Sample ID

AG08415

Field/Station ID: EFFLUENT

Date Received: 11/8/2005

Matrix: Aqueous

Sample Description:

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	Result	Codes	Units
000124481	DIBROMOCHLOROMETHANE	4 % <del>- 1</del>	0.50U	ug/L
000106934	1,2-DIBROMOETHANE		0.50U	ug/L
000591786	2-HEXANONE		1.00	ug/L
000108907	CHLOROBENZENE		0.50U	ug/L
000630206	1,1,1,2-TETRACHLORGETHANE	- <del></del>	0.50U	ug/L
100-41-4	ETHYLBENZENE		0.50U	ug/L
001330207	M/P-XYLENE   1	<u> 12</u>	0.50U	ug/L
000095476	O-XYLENE		0.50U	ug/L
000100425	STYRENE	atticipes	0.500	· ug/E
000075252	BROMOFORM	Ario Sirio	0.50U	ug/L
000098828	ISOPROPYLBENZENE	- 10 (m <del>.)</del>	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 A		0.50U	ug/L
000095498	2-CHLOROTOLUENE	<del></del>	0.50U	ug/L
106-43-4	4-CHLOROTOLUENE		0.50U	ug/L
000108678	1,3,5-TRIMETHYLBENZENE	Marie Tale	0.50U	ug/L
000098066	TERT-BUTYLBENZENE	$r = r^{r}$	0.50U	ug/L
000095636	1,2,4-TRIMETHYLBENZENE		0.50U	ug/L
135-98-8	SEC-BUTYLBENZENE	<u> </u>	0.50U	ug/L
000541731	1,3-DICHLOROBENZENE		0.50U	ug/L
000106467	1,4-DICHLOROBENZENE	- <del></del>	-0.50U	ug/L
000095501	1,2-DICHLOROBENZENE		0.50U	ug/L
000099876	4-ISOPROPYLTOLUENE	- <del></del>	0.50U	ug/L
000104518	N-BUTYLBENZENE	wat the material configuration and	0.50U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE		5.0U	ug/L
000120821	1,2,4-TRICHLOROBENIZENE		0.50U	ug/L
87-68-3	HEXACHLOROBUTADIENE	o'A <del>- s</del> ecil	0.50U	. ug/L
000091203	NAPHTHALENE		0.50U	ug/L
000087616	1,2,3-TRICHLOROBENZENE		_ 0.50U	ug/L
1330-20-7	TOTAL XYLENES		0.50U	ug/L

Project Approval: Date: 1-10-06

Refer to Page I for an explanation of Remark Codes

Report Date: 12/23/2005 9:35AM

Page 5 of 5



7 December 2005 RAC II-2005-222

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 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the October 2005 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 for the entire month of October. A summary of the operation and maintenance activities performed during October is as follows:

- · Routine inspections of the facility were performed;
- Pumps were checked and lubricated;
- Air filters were cleaned or replaced;
- Grass was mowed; and
- The monthly influent and effluent samples were collected.



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#### **B.** Operational Data

The following table presents operational data for the year 2005, arranged by month:

Month	Operating Days	Average flow Meter%	Average flow rate (gpm)	Amount of groundwater treated (mg)
January	31	47	541	24.2
February	28	46	529	21.3
March	31	45	517.5	22.4
April	17	48	552	13.5
May	31	*	*	*
June	30	*	*	*
July	29	*	*	*
August	29	*	*	*
September	30	*	*	*
October	31	*	*	*
Volume of groundwar	ter treated for 2005			81.4*
Volume of groundwar	2684.8*			

<sup>\*</sup>The float control valve is not closing completely, preventing the flow meter from operating correctly. A replacement is being sought.

gpm - gallons per minute mg - millions of gallons

## C. Comparison of Influent and Effluent Concentrations with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of October 2005 are included in Attachment 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

	Discharge				I	nfluent (	Concentr	ation (u	g/L)			-		Effluent Concentration
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(ug/L) October
Vinyl Chloride	2	3.5	3.9	3.4	4.4	4.1	3.7	3.5	3.3	4.5	4.2			0.5 U
Chloroethane		0.5	0.6	0.5	0.73	0.59	0.54	0.55	0.5U	0.5U	0.5U			0.5 U
1,1-Dichloroethene*	5	13	9.3	8.4	11	12	9.5	9.4	8.3	8.7	8.6			0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1	2.9	2.6	3.2	2.6	2.9	2.9	2.4	2.8	2.7			0.5 U
Acetone		1.0 U	2.3	1.0 U	1.0U	1.0U	1.0 U	1.0U	5.0U	1.0U	1.0U			1.0 U
Trans 1,2-Dichloroethene*	5	0.5 U	0.5 U	0.5 U	0.5U	0.5U	0.5 U	0.5U	0.5U	0.5Ú	0.5U			0.5 U
Methyl Tert-Butyl Ether		4.7	4.3	4.3	3.9	4.2	3.9	4.2	3.7	3.6	4.0			1.8
1,1-Dichloroethane	5	18	17	17	24	17	17	17	18	18	18			2.0
Cis-1,2-Dichloroethene*	5	50	46	46	54	47	45	44	41	44	42			5.5
Chloroform	7	0.5 U	0.5 U	0.5 U	0.5U	0.5U	0.5 U	0.5U	0.5U	0.5U	0.5U			0.5 U
1,1,1-Trichloroethane*	5	110	120	110	140	110	120	110	100	110	100			4.9
Trichloroethene*	5	43	40	40	47	39	38	36	35	36	35			2.7
Total Volatile Organics*	100	245.8	246.3	232.2	288.23	236.49	240.54	227.55	211.7	227.6	214.5			16.9

Note:

ug/L = micrograms per liter
\* = Site Contaminant of Concern

U = Below Reporting Limit

NS = Not Sampled

#### D. Next Month's Activities

The following activities are planned for November 2005:

- Repair flow meter valve;
- Restore phone service; and
- Perform monthly performance monitoring sampling.

#### E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded 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

Attachment

cc: M. Dunham (NYSDEC)

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## Case Narrative: Vestal 1-1. #05100010

The National Environmental Laboratory Accreditation Conference (NELAC) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAC established and promoted a national accreditation program that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAC accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAC Standards.

#### Comment(s):

None

## Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs) for each analyte requested except for the following analyte(s):

Volatile Organic Compounds: The CRQL for Methyl Acetate in water is 0.5 ug/L (OLC03.2). The Laboratory's Reporting Limit was raised to 1.0 ug/L due to problems associated with the initial calibration curve.

#### Method(s):

Low Level Volatile Organic Analysis, ESAT-SOP-132 (GC/MS Method).

Approval: 12-2-05 Date: 12-2-05



# U.S. Environmental Protection Agency Region 2 Laboratory 2890 Woodbridge Avenue Edison, NJ 08837

Data Report: Vestal Well 1-1 [10/05]

Project Number: 05100010

Irogram: Y206E

Project Leader: L. Arabia

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 A $\!$
<b>N</b> .	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

Page 1 of 5

Project Number: 05100010

\*Sorted By Sample ID

AG07694

Field/Station ID: Influent

Matrix: Aqueous

Sample Description:

Date Received: 10/7/2005

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	<u>Result</u>	Codes	<u>Units</u>
75-43.4 000074873 000075014	CHLOROMETHANE		0.500	ng/L
000074839	BROMOMETHANE	MET 14-1574	i - 0,500 ú ? No	.ug(L)
000075694	THRIGHTOROBESONOMETHANIES		**************************************	
76-13-1.	MANAGRA (Genze) Kelippertagai and intolography and the		e wiles.	20019/03/2007 PM
000067641	ACETIONE		4 84400	(i)g/E
000075092 000155605	METHYLENE CHLORIDE		10,500	пбД
001634044 000075343	MEDIAM MERKABBURAK EDITERA MEDIAM MERKABBARAN	# 4 <b>4</b> 0		no/L
000156592	CISERADICHESOROBINERNICANA COMPRESSOROBRANICANA	42		jig∕G - Jes
000078933	A PERCHANIONE	di sa sa sasa na ma Sa sa	7 607	
000067663	CHLOROFORM		्रव्यक्तिम् इतिहासक्तिक	goviL = is is
2110-82-7 (6600-833-3)	ACY(C) OHIO AND	Proprio de 1	46 - 101 · · · · · · · · · · · · · · · · · ·	
000563586 060074432	EPADOHIOROPROPERIE		30,5000 7470	anga
000107062	SIZ-DIGHEOROETHANE		ाडावर होते.	nAr st
108-87-2	METHYLCYCLOHEXANE	19. gr. 21.44	0±000	Hig/L
000074953	DIBROMOMETHANE:		1 70 KOJE 74.5.	ug/E
010061015	CIS-1,3-DICHLOROPROPENE		េត្ត(៩)ពីគ្រឹង	10/1
000108883	TOLUENE TRANS A TOTAL ROBERT PROPERTY.		1 (0.5000.00)	<b>19</b> /5
000079005 000127182	1,1,2-TRICHEOROEPHANE		0.500	102/L; 32
000142289	INCHIOROPROPANE		*0 <b>5</b> 00#	
-000106934 -000591786	1,2-DIBROMOETHANE Perfex (No.8)		0.500	ug/II:
000108907	CHLOROBENZENE	f=-7	0.50U	ug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 11/22/2005 4:40PM Page 2 of 5

Project Number: 05100010

\*Sorted By Sample ID

AG07694

Field/Station ID: Influent

Date Received: 10/7/2005

Matrix: Aqueous

Sample Description:

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
006650206 	EWAYEBENZENE	Feet 3.44	1. 1930an	υg/J-
000095476 0000	O-XYLENB 4	elia Turci	. Topstole	
-000075252 0000088	BROMOFORM		* 19.4.10 je je je je	uğı.
000108861	BROMOBENZENE		e democra	ug/D
000079345	NAME OF THE PROPERTY OF THE PARTY OF THE PAR			MAIR.
000095498	2-CHLOROTOLUENE		(4.2 <b>().5()()</b>	19/1
000108678	SENSTRINGUE VEHEN MENTE:		in Line of the last	ing Application
000095636 1. 98	10.4 TRIMETHOUSES ZENE			319/b/- Carlotte
000541731 2385000106467	CALCHOMORICOROUGHANG AN		Major Mark	er aparene a
000095501	JEZ-DIGHEOROBENZE (II.)	T.	6. +80.51 <u>0</u> .14%	ing/L
, 000104518 (* 1487) 0000961298	NEBISTYMBRENZENIE STOLEGEN STOLEGEN GEGEN GEGN GEN GE		46 E (0) DE 400 \$2	(april
000120821 R7/58	1.2,4-TRICHLOROBENZENE		(0.5000 3	ug/ll
000091203 ************************************	NADPSULVAUENE			ug/L
1330-20-7.	TOTALEX YARNIES		15 (0.10 <b>)</b>	ng/L

AG07695

Field/Station ID: Effluent

Matrix: Aqueous

Sample Description:

Date Received: 10/7/2005

Refer to Page 1 for an explanation of Remark Codes

Report Date: 11/22/2005 4:40PM

Project Number: 05100010

\*Sorted By Sample ID

AG07695

Field/Station ID: Effluent

Date Received: 10/7/2005

Matrix: Aqueous

Sample Description:

CAS Number	Analyte Name	Result	Remark_ <u>Codes</u>	<u>Units</u>
75-43-4 000097/197##	DIGHEORODINUU(OROMENHAME		1 (0.3000 ) (1 (7)	
000075014	ENNAMEGHIORIDES		***(i)\$(i)\$	24-2019/AB
000075003 6 (00 75)	GILEORODUSANNIS		Tale Lorenza	
000075354	THE PORCHEOROGENIANCE CONTRACTOR AND	West Till	7. 040Em.	
<b>2</b> .000075150	CARBON DISSISIDE		0.500	25.09/07
(eld(d)arcif(d) En <b>(d)2059</b> ;+4.44?	MESTIVIBACOPIACIONALA VIETURALARIA		PASSAMODU SYAR	antius.
000156605	TEURANSE WAD COLLEGICORO ESECUTIVO		1,006000	111/1
0000075345	egiskið (dinka):Voltsuskings	14. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	e we a way see	
\$ 59252057	AND STREET OF STREET	767 Avr. 12 (12)	S. Fightonics	28 HD, 23
×000074975	BROMOGHIOROMEZHANE		0.500	e Salvaçõe
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000056235	ભારતમારા કર્યા હૈંદા કરવા કરવા છે. ત્રાસ માર્ગાલા કારા હોલા હોલા હોલા હોલા હોલા હોલા હોલા હોલ		- (n.5 <b>in</b>	11712
0000714324	BBBNAIN:		7.540.43 <b>0</b> .555	
025323891	TIPES (GERGER FERRY):			
000078875	FEEDIGHEOROPROPANIE	14 Sec. 2	MILEO 10 67 - 18 - 1	e uyişê
000075274	BROMODICHROROMERISANE :- P		শ নংক্রা বছর	
000108101	4-METHML-2016NFANONE	7. julija - 1.	180101-35	angara.
010061026	ŢŖŎŊĸĸĸĸĸ <mark>ŢŖŎŊĸ</mark> ŦĦŊſĠĦĸŎŖŎŖŖŎŖĿŊĿĸ	y4, π,4° , γ,	0.506	e ng/i
000127184	TETRACHLOROETHENE		0.3000	ng/L
0001142289	મુદ્ધકરો(હ:100)(લ))(લ)/.ક.પ.		(Indi)	

Refer to Page 1 for an explanation of Remark Codes

Report Date: 11/22/2005 4:40PM Page 4 of 5

Project Number: 05100010

\*Sorted By Sample ID

AG07695

Field/Station ID: Effluent

Matrix: Aqueous

Sample Description:

Date Received: 10/7/2005

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
000124481	DIBROMOCHLOROMETHANE	in <del>Te</del> rritoria	0.50U	and updays and
-000591786	2-HEXANONE		i signi 🐺	office sections
000630206	Saladita Historia (artino Kortana Vizia)	TOWN	~02:00	aleo <b>j</b> gios e
001330207	AESOSO GERSIES AZALONS MANTES AGBENIES	An Same		
000100425	SPYRBNB		\$ 100 (0) \$ 100 (0) (100 (100 (100 (100 (100 (100 (	ili <i>li:</i>
000098828	BEKGKTÜRÜNEDENMENE HERORKÜRÜNEDENMENE		FE (1)22018 FA	
00009618494	nikonkonkonkonko Markankonkonkonko		. Merric	
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000098066	AGENTARENZEN Z		+10.50E	न्तरिंग हैं हैं
0010109-36616 135-98-8	SECBURYIBENZENE		30500E	of the party
000106467	iskanensorobayabab		io Prakingaran	navi i i
000095-jp 000099876	Makobkokanananan es		500	1107 T
000096128	A E2ADIBRONG SEGRIJOROPROPANE		11. 11. 11. 11. 11. 11. 11. 11. 11. 11.	eniglik kesist
87-68-3	Andrewski (ali 70) (alisten aline Andrewski (alisto) (alisten alisten		in Teis state	Tanvierak estab
000087616	NAME UII. IAMNE 123. ERICHEOROBENIZENE (* 1823). A MET		0.500	ing/L
fatigation is and the	APTOR AD ANYLIGATES		5(1)	100000

Project Approval:

Refer to Page 1 for an explanation of Remark Codes

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Date: 12-2-05

Report Date: 11/22/2005 4:40PM Page 5 of 5



30 November 2005 RAC II-2005-215

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 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the September 2005 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 for the entire month of September. A summary of the operation and maintenance activities performed during September is as follows:

- Routine inspections of the facility were performed;
- Pumps were checked and lubricated;
- Air filters were cleaned or replaced;
- · Grass was mowed; and
- The monthly influent and effluent samples were collected.



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### **B.** Operational Data

The following table presents operational data for the year 2005, arranged by month:

Month	Operating Days	Average flow Meter%	Average flow rate (gpm)	Amount of groundwater treated (mg)
January	31	47	541	24.2
February	28	46	529	21.3
March	31	45	517.5	22.4
April	17	48	552	13.5
May	31	*	*	*
June	30	*	*	*
July	29	*	*	*
August	29	*	*	*
September	30	*	*	*
Volume of groundwa	81.4*			
Volume of groundwa	ater treated for the C	)U-1		2684.8*

<sup>\*</sup>The float control valve is not closing completely, preventing the flow meter from operating correctly. A replacement is being sought.

gpm - gallons per minute mg - millions of gallons

#### C. Comparison of Influent and Effluent Concentrations with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of September 2005 are included in Attachment 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

	Discharge			Influent Concentration (ug/L)						Effluent Concentration				
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(ug/L) September
Vinyl Chloride	2	3.5	3.9	3.4	4.4	4.1	3.7	3.5	3.3	4.5				0.5 U
Chloroethane		0.5	0.6	0.5	0.73	0.59	0.54	0.55	0.5U	0.5U				0.5 U
1,1-Dichloroethene*	5	13	9.3	8.4	11	12	9.5	9.4	8.3	8.7				0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1	2.9	2.6	3.2	2.6	2.9	2.9	2.4	2.8				0.5 U
Acetone		1.0 U	2.3	1.0 U	1.0U	1.0U	1.0 U	1.0U	5.0U	1.0U				1.0 U
Trans 1,2-Dichloroethene*	5	0.5 U	0.5 U	0.5 U	0.5U	0.5U	0.5 U	0.5U	0.5U	0.5U				0.5 U
Methyl Tert-Butyl Ether		4.7	4.3	4.3	3.9	4.2	3.9	4.2	3.7	3.6				1.8
1,1-Dichloroethane	5	18	17	17	24	17	17	17	18	18				2.3
Cis-1,2-Dichloroethene*	5	50	<b>4</b> 6	46	54	47	45	44	41	44				6.3
Chloroform	7	0.5 U	0.5 U	0.5 U	0.5U	0.5U	0.5 U	0.5U	0.5U	0.5U				0.5 U
1,1,1-Trichloroethane*	5	110	120	110	140	110	120	110	100	110				5.7
Trichloroethene*	5	<b>4</b> 3	40	40	47	39	38	36	35	36				3.0
Total Volatile Organics*	100	245.8	246.3	232.2	288.23	236.49	240.54	227.55	211.7	227.6				19.1

Note:

ug/L = micrograms per liter
\* = Site Contaminant of Concern
U = Below Reporting Limit
NS = Not Sampled

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#### D. Next Month's Activities

The following activities are planned for October 2005:

- Repair flow meter valve;
- Restore phone service; and
- Perform monthly performance monitoring sampling.

## E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded 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,

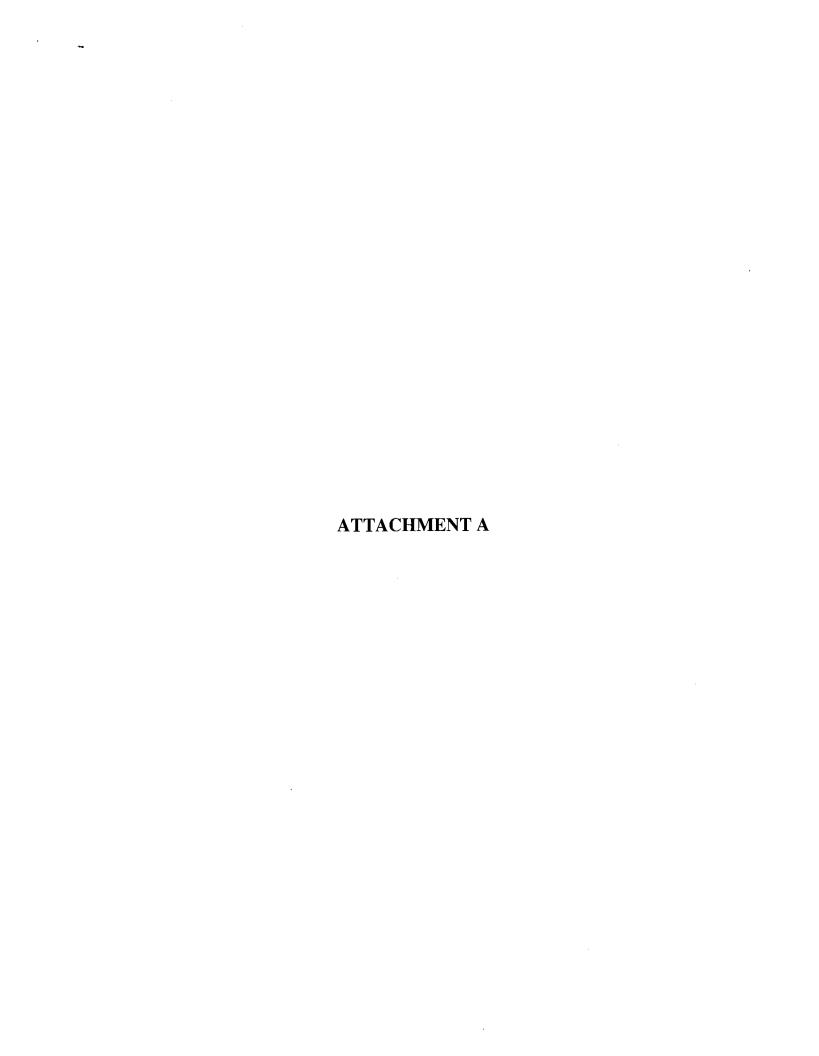
Heidemarie Roldan Project Manager

Attachment

cc: M. Dunham

(NYSDEC)

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# <u>Case Narrative:</u> <u>Vestal 1-1. #05090011</u>

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The National Environmental Laboratory Accreditation Conference (NELAC) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAC established and promoted a national accreditation program that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAC accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAC Standards.

## Comment(s):

None

# Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs) for each analyte requested except for the following analyte(s):

Volatile Organic Compounds: The CRQL for Methyl Acetate in water is 0.5 ug/L (OLC03.2). The Laboratory's Reporting Limit was raised to 1.0 ug/L due to problems associated with the initial calibration curve.

## Method(s):

Low Level Volatile Organic Analysis, ESAT-SOP-132 (GC/MS Method).



# U.S. Environmental Protection Agency Region 2 Laboratory 2890 Woodbridge Avenue Edison, NJ 08837

Data Report: Vestal Well 1-1 [09/05]

Project Number: 05090011

Program: Y206E

Project Leader: L. Arabia

Remark	Evaluation
Codes	Explanation
U	THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT.
J	THE IDENTIFICATION OF THE ANALYTI: 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 EXPECTE > 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

Report Date: 10/31/2005 3:19PM

Project Number: 05090011

\*Sorted By Sample ID

Units ug/L

ug/L

Remark\_

0.50U

ug/L

ug/L

AG04090

Field/Station ID: INFLUENT

Note that the property of the

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Date Received: 9/9/2005

Matrix: Aqueous

Sample Description:

CAS Number	Analyte Name	Result	Codes
75-43-4	DICHLORODIFLUOROMETHANE		0.50Us
000074873	CHLOROMETHANE		0.50U
000075014	AVINYA (ORIXORAIDE	4.5	
. 000074839	BROMOMETHANE	-	0.50U
39457=0000750034F	ZOPINOROJEDNAMI		(016
000075694	TRICHLOROFLUOROMETHANE		× 0.50U
# 349 000075354£9	Zagladiciji dajkorski prakti		
76-13-1	1,1,2-TRICHLORO-I,2,2-TRIFLUOROETHANE	2.8.	

76-13-1	1,1,2-1RICHLORO-1,2,2-1RIFLUOROETHANE	2.8	经利益的 医乳腺素的	ug/L
SEE . 000075150	GAGAGEORGICAID	energy of the best states	108-1014	ayy).
000067641	ACETONE		1.0U	ug/L
79-20-9	Fanishing Carly Cor.		1401	11/12/201
000075092	METHYLENE CHLORIDE	1 1 1 1	0.50U ₩	ug/I
000156605	JURANNELOHD) (SHILO) ROLUHENE		4 (02/0)8 1	ng/i
001634044	METHYL TERT-BUTYL ETHER	3.6	Section 1	ug/L

<b>にはなってはよります。これが必要がある。</b>			
.000078933	2-BUTANONE	1.0U ·	ug/Ly, a ,
\$94,000,07497/53 <b>7</b>	BERONOESTO ROMESTE WE	(0)(s(0))8	og it.
000067663	CHLOROFORM	0.50U	, ug/ $\mathbf{L}_{ij}$
71-55-6	- 346) 3 tra 01(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)		1.117/2
110-82-7	CYCLOHEXANE	0.50U	ug/L
000056235	CARTERON (SECURAL ASSESSIO) RAIDES	195611	

. 000563586	1,1-DICHLOROPROPENE	0.50U **	ug/L	STATE OF THE PARTY OF
<b>48</b> 000071432/	ABBON/AGNIC	0.5000	and the	STATE STATE OF
000107062	1,2-DICHLOROETHANE — .	0.50U	ug/L	C. E. C. Start
025323891	shrif(Office)(teleficity):			Section 2
108-87-2	METHYLCYCLOHEXANE	0.50U	ug/L	15 M. L. Z.
000078875	Appeniate (attention for the contraction of the con	្ន(អូវជ្ឈាង:្គ្រូវ	0.004.	
000074953	DIBROMOMETHANE	0.50U	ug/L.	200
第第000075274篇	ABKON(OD)(GHIAORO)(ABIGANE	(0) (0) (0)	angas State	Į,

Charles and the State of the Control	表现 <b>在现在,我们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个</b>	AN ANY MADE BY A STATE OF THE PARTY OF THE P	·····································
010061015	CIS-1,3-DICHLOROPROPENE	0.50U	ug/L
000108101	iden of the property of the pr	9 <b>∮(Ì</b> 10.	onvier it
000108883	TOLUENE	0.50U	ug/L
010061026	WKANS-LADIGHEOROPROPROP	(L/s(Q))	
000079005	1,1,2-TRICHLOROETHANE	- 0.50U	ug/L.
000127184	and antive (state) (co) castagge	11.5(1)\$	The second
000142289	1,3-DICHLOROPROPANE	0.50U	ug/L
000124481	DERONOGIEDRONEININE	0.500	e divis

000108907 CHLOROBENZENE

Refer to Page 1 for an explanation of Remark Codes

000591786 2-HEXANONE

1,2-DIBROMOETHANE

Report Date: 10/31/2005 3:19PM

000106934

Project Number: 05090011

\*Sorted By Sample ID

AG04090

Field/Station ID: INFLUENT

Date Received: 9/9/2005

Matrix: Aqueous

Sample Description:

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
310100000000000000000000000000000000000	e and the engineers of a serious engineers.	2000年60世	Covanies (5)	Simple 1988 The
100-41-4	ETHYLBENZENE	$_{-}$ , $_{-}$	0,50U	ug/L
(0.00) 2.2702/07		and the second second second second second	ne a rango ang a sa	The state of the s
000095476	O-XYLENE SESSECTION		0.504	og/L og/L
000075252	BROMOFORM  SUS(O):Report Suspension		esa 0.40€	ug/L
. 000108861	BROMOBENZENE		0.500	vg/L
000079345 000103651	1,1,2,2-TETRACHLOROETHANE		= 0.50U	nig/L
000095498 106	2-CHLOROTOLUENE 4		(* 10)SME4 (* 18) (* 44(*)	* (107) = 13 (3)
000108678 000098066	MASTRIMEIUTAVIBBUN ABNIE TURNINGSTOTEVAREEN VARN	<b>"我是是</b> "	02600 388	મજી
000095636	13.24-TRIMETHAYIBENS BENE		£ 0200	ug(L)
000541731	1,3-DICHLOROBENZENE		୍ଟି (ବର୍ଷ ଅଟନ୍ତି) (୧୯)	ug/I
000095501 0000999877	1,2-DICHEOROBENZENE		0.500	ng/L = 25/2 ngan
000104518 0000096128	**************************************		(0,500e)	ug/is: 10.5
000120821 / S7-682	1,2,4-TRICHLOROBENZENE #	**************************************	0.50U-2	ug/E
000091203	NAPHTHALENE DALES FIN (FER OR OBSEN) SINE		0,500	ug/L

AG04091

Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 9/9/2005

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/31/2005 3:19PM

Page 3 of 5

Project Number: 05090011

\*Sorted By Sample ID

AG04091

Field/Station ID: EFFLUENT

Date Received: 9/9/2005

Matrix: Aqueous

Sample Description:

	Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
	CAS Number	Analyte Name	Result	Codes	Units
	75-43-4	DICHLORODIFLUOROMETHANE	Martine de la	0.50U	ug/L
ALL LA	00000741272	YOHLOROMETH (MY)		(1/41));	
	000075014	VINYL CHIORIDE		0.50U 0.50	<b>ng/I</b>
	000075003	CHLOROETHANE	+**	0.500	'ug/L
	000075354	1,1-DICHLOROETHENE		-0.50U	10 10/32 / 25
	000075150	WEIZERGHEORO ZA FREI BOROFTI AGE CARBON DISULFIDE	a gradusti	0.50 <b>U</b>	ug/L
	3-000067641 79-20-9	ACPRONI METHYL ACETATE		1000 1000	ig/L
	000075092 000156605	TRANS-1/2-DICHEOROETHENE (* )		0.500	ug/E
a de la	000075343	NEW PARTE (NEW 18) TO STREET THE STREET TO STREET THE S	9.2		ang/ic ( )
	0(00) (\$161592 594-20-7	Course (Chicoropropanie)		0.50U	1977 19 <b>71</b>
	<b>25</b> 00007893 <b>535</b>	324:1019:XX(0)Ye		36.28 (0)3 °	
	000074975	BROMOCHEOROMETHANE		().50 <b>8</b>	100/
	71-55-6	1,1;1-TRICHLOROETHANE	\$7		ug/L
	000056235	CARBON TETRACHLORIDE	7 특 경기	0.50U	ug/L
	#100056 <u>3586</u> #2	ाक वर्गा है सहसार स्थापन प्रतिस्था । इ.स.च्या वर्गा के सम्बद्धा ।		705000	
	000071432	BENZENE 1(2-b)[CHDORO]:DUMANE		0.50U= 0.600	ug/I ug/I
	025323891	TRICHLOROETHENE	3.0		ng/L
	108-87-2	DOMERSON (CONTINUE VARIETY		(0.50) (1	TIV/1 * 150 3 5 5
344	000078875	1,2-DICHLOROPROPANE	# 1	0.50U	ug/L
	000074953	PIBROMODIOHEOROMETHANE	s e e e e e e e e e e e	0.50U	
	<b>第一条 "在一个" "一个" "一个" "一个" "一个" "一个" "一个" "一个" "</b>	CISORODICHLOROPENE		(0.510E	ug/L
	000108101	4-METHYL-2-PENTANONE	r= <u>E</u> - 1, 4	LOU.	ug/L A
	0001088834	47.7、19.7、19.7、19.4、19.4、19.4、19.4、19.4、19.4、19.4、19.4		ានពេញ	angle -
	010061026	TRANS-1,3-DICHLOROPROPENE	-	0.50U.	ug/L*
	经金融的农民的政治和政治和政治的	A PATRICHEOROETHANE		0.300	ngi da
	000127184	TETRACHLOROETHENE 13-DIGHLOROPROPANE		0.50U 0.50U	ug/L
i i i din i	UUU142289	A PAPARA DE LA CAMPARA DE LA C		NASULE .	up/s

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/31/2005 3:19PM

Project Number: 05090011

\*Sorted By Sample ID

AG04091

Field/Station ID: EFFLUENT

Date Received: 9/9/2005

Matrix: Aqueous

Sample Description:

1	Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
	CAS Number	Analyte Name	Result	Codes	<u>Units</u>
	000124481	DIBROMOCHLOROME THANE	44	0.50U	ng/I
	000591786	ARCHOTORICA CONTRACTOR AND ARCHOTOCOME TO ARCHOTOCO		\$20e	e esta de estados esta
	(1000)10R(10V	A CHERGEN (O) BOLY AND		THATE	ug/L
	000630206	1,1,1,2-TETRACHLOROETHANE	Faller J.	ું છે.કાંમાં	ugle i
	001330207	M/P-XYLENE	inge Sangar geranoker Til	104003	any/L
	000100425	STYRENE		0.500	ue/L
	000007592592	PERCO)V(o)gobiav	ines.	(1.5(4))	ENGAL CARREST
	000098828	ISOPROPYLBENZENE		0:500	ug/E
	000096184	BROBOBIOS SISSI 1.2.3-TRICHLOROPROPANE		(a) (fil) (a) (fil) (a)	ugaeas ea-
	- 000103651 - / 1000195298	NAPROPAGBENZENE (1907) Prostanotra (1914-1918)		(0.510) is	119/12
	106-43-4 (00(a) (0867/5	4-CHLOROTOLUENE		:0,500	ug/E
	000098066	TERPERUTYERENZEN		0):50(8)	iig/L
	135-98-8 00054	SEC-BUT MUBENZENE		70.500 - ( E )	ug/L 115/
Mary 1	000106467	1,4-DICHLOROBENZENE		(0950)#3	न्त्रहरी
LAGSBANCE	000099876	ZEISOPROPY/-INOPEREN		restore de	ug/L
	000004518	(ažagigie, inglistangigi		(4)15(0)25 (15)31	all desired and the
	000096128	1,2-DIBROMG-3-CHLOROPROPANE	-	0.500	ng/E
	(00) 2010)		resistantes de la companya de la co		
	87-68-3 2000091-203	HEXACHLOROBUTADIENE		0,5000 (4)	iig/L
	000087616	1,2,3-TRICHLOROBENZENE		0.50U 💮 😘	ng/L

Project Approval:

Refer to Page 1 for an explanation of Remark Codes

Report Date: 10/31/2005 3:19PM

Page 5 of 5

Date: //-7-05



2 November 2005 RAC II-2005-190

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 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the August 2005 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 in auto mode for the entire month, with the exception of two days. On 25 August, the treatment system was taken offline due to sporadic well pump pressure. On 27 August, the treatment system was restarted and operated normally. A summary of the operation and maintenance activities performed during August is as follows:

- Routine inspections of the facility were performed;
- Pumps were checked and lubricated;
- Air filters were cleaned or replaced;
- Grass was mowed; and
- · The monthly influent and effluent samples were collected.



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#### **B.** Operational Data

The following table presents operational data for the year 2005, arranged by month:

Month	Operating Days	Average flow Meter%	Average flow rate (gpm)	Amount of groundwater treated (mg)
January	31	47	541	24.2
February	28	46	529	21.3
March	31	45	517.5	22.4
April	17	48	552	13.5
May	31	*	*	*
June	30	*	*	*
July	29	*	*	*
August	29	*	*	*
Volume of groundwar	ter treated for 2005			81.4*
Volume of groundwa	ter treated for the C	)U-1		2684.8*

<sup>\*</sup>The float control valve is not closing completely, preventing the flow meter from operating correctly. A replacement is being sought.

gpm - gallons per minute mg - millions of gallons

# C. Comparison of Influent and Effluent Concentrations with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of August 2005 are included in Attachment 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

	Discharge	rge Influent Concentration (ug/L)								Effluent Concentration				
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(ug/L) August
Vinyl Chloride	2	3.5	3.9	3.4	4.4	4.1	3.7	3.5	3.3					0.5 U
Chloroethane		0.5	0.6	0.5	0.73	0.59	0.54	0.55	0.5U					0.5 U
1,1-Dichloroethene*	5	13	9.3	8.4	11	12	9.5	9.4	8.3					0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1	2.9	2.6	3.2	2.6	2.9	2.9	2.4					0.5 U
Acetone		1.0 U	2.3	1.0 U	1.0U	1.0U	1.0 U	1.0U	5.0U					0.5 U
Trans 1,2-Dichloroethene*	5	0.5 U	0.5 U	0.5 U	0.5U	0.5U	0.5 U	0.5U	0.5U					0.5 U
Methyl Tert-Butyl Ether		4.7	4.3	4.3	3.9	4.2	3.9	4.2	3.7					0.5 U
1,1-Dichloroethane	5	18	17	17	24	17	17	17	18					0.5 U
Cis-1,2-Dichloroethene*	5	50	46	46	54	47	45	44	41					0.5 U
Chloroform	7	0.5 U	0.5 U	0.5 U	0.5U	0.5U	0.5 U	0.5U	0.5U					0.5 U
1,1,1-Trichloroethane*	5	110	120	110	140	110	120	110	100					0.5 U
Trichloroethene*	5	43	40	40	47	39	38	36	35					0.5 U
Total Volatile Organics*	100	245.8	246.3	232.2	288.23	236.49	240.54	227.55	211.7					ND

Note:

ug/L = micrograms per liter
\* = Site Contaminant of Concern
U = Below Reporting Limit
NS = Not Sampled

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#### D. Next Month's Activities

The following activities are planned for September 2005:

- · Repair flow meter valve;
- · Restore phone service; and
- Perform monthly performance monitoring sampling.

## E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded 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

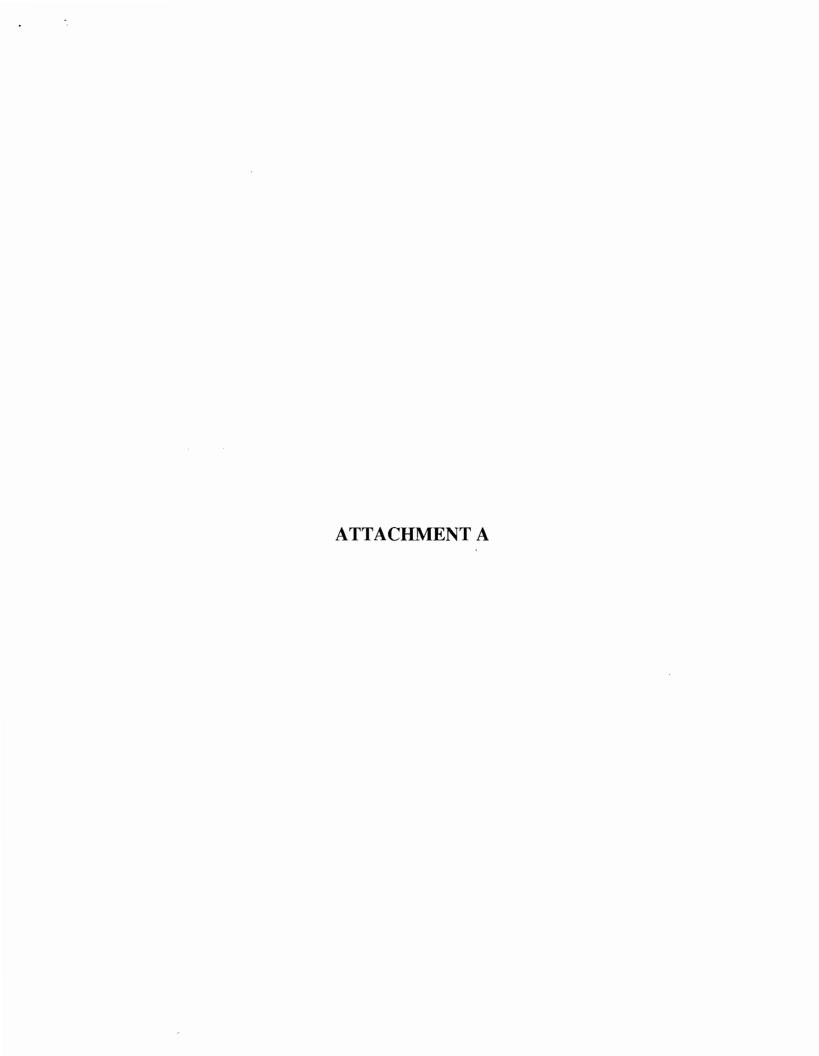
Attachment

cc: M. Dunham

(NYSDEC)

Roldan

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# <u>Case Narrative:</u> <u>Vestal 1-1. #05080016</u>

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

## Comment(s):

None

## Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs) for each analyte requested except for the following analyte(s):

Volatile Organic Compounds: The CRQL for Methylene Chloride in water is 0.5 ug/L (OLC03.2). The Laboratory's Reporting Limit was raised to 1.0 ug/L due to problems associated with the initial calibration curve.

## Method(s):

Low Level Volatile Organic Analysis, ESAT-SOP-132 (GC/MS Method).

Approval: \_\_\_\_\_\_ Date: 9-23-05



# U.S. Environmental Protection Agency Region 2 Laboratory

# Data Report Vestal Well 1-1 [08/05]

Project Number: 05080016

Program: Y206E

Project|Leader: L. Arabia

Remark Codes	Explanation
U	THE ANALYTE WAS NOT DETIECTED 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.
Ν	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 (S ACCEPTABLE; THE REPORTED VALUE MAY BE BIASED HIGH. THE ACTUAL VALUE IS EXPECTE) 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

Project Number: 05080016

\*Sorted By Sample ID

AG03607

Field/Station ID: INFLUENT

Matrix: Aqueous

Date Received: 8/9/2005

Sample Description:

Analysis Ty	pe: VO	A GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Nur	mber /	Analyte Name	Result	Codes	<u>Units</u>
75-43-4		DICHLORODIFLUOROMETHANE		0.50U	ug/L
0000748	24 / Sept. 1	CHLOROMETHANE		0.50U	ug/L
0000750		VINYL CHLORIDE	74.		uga :
0000748	ESEMBER (1) (2017/39/39)	BROMOMETHANE		0.50U	ug/L
0000750		CHLOROEUHAN <i>E</i>		LAOISOURS:	
0000756	CONTRACTOR STREET	TRICHLOROFLUOROMETHANE	file (Charles) sacrates	0.50U	ug/L
	a a coming and	1.1-DIGHLOROETHENE CONTROL			
76-13-1	<b>阿拉拉斯特的</b>	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	2.4	4,211 2021/2012 22410	ug/L
* 0000751		CARBON DISULFIDE	Megian Person	<b>30500</b>	
0000676	A SECTION SOLVED	ACETONE		5,0U	ug/L
79-20-9	and the same of the same of	METHYL ACETATE			
0000750	上記述 <b>等在</b> 域(1) 1975 (400 cm	METHYLENE CHLORIDE		1.0U	ug/L
0001566	and the same of	TRANS-1,2-DICHLOROETHENE		0.500	esue/E
0016340	1 1 1 1 to to a 1	METHYL TERT-BUTYL ETHER	3.7		ug/L
0000753		1.1-DICHLOROETHANE	18		stang/Pa
0001565	Commence of the second	CIS-1,2-DICHLOROETHENE	41		ug/L
594-20-7		2,2-DICHLOROPROPANE		0.500	Captie/La
0000789	and the same of	2-BUTANONE		1.0U	ug/L
	75:	BROMOCHLOROMETHANE 3	SAMANA ARBITAN S	W0/500046	
0000676	63	CHLOROFORM		0.50U	ug/L
71-55-6	Mac.	LLI-TRICHLORGETHANE	600 (100 <u>0)</u> - 100 <u>0</u> - 1414 (1000)		Tabg/Back Car
110-82-7	7	CYCLOHEXANE	-	0.50U	ug/L
	35	CARBON TETRACHLORIDE		0/5000	d unig/L
0005635	86	1,1-DICHLOROPROPENE	.=	0.50U	ug/L
0000714	32	BENZENE		0/5000	ng L
0001070		1,2-DICHLOROETHANE		0.50U	ug/L
0253238	ETHALLIES CARRES	TRICHLOROETHENE	35		
108-87-2		METHYLCYCLOHEXANE		0.50U	ug/L
0000788	constitution of the same of the	1,2-DICHLOROPROPANE		(0.500)	
0000749:		DIBROMOMETHANE		0.50U	üg/L
0000752	SHER CARROTTEL CHA	BROMODICHLOROMETHANE		605000	a ugitati, ista
0100610		CIS-1,3-DICHLOROPROPENE		0.50U	üg/L
00010810	· · · · · · · · · · · · · · · · · · ·	4-METHYL-2-PENFANONE		100	190 <u>0</u> 2/14 16 16
00010888		TOLUENE		0.50U	ug/L
01006102	of decision to	TRANS-1,3-DICHLOROPROPENE	and the state of	0.50U	oby/Li
00007900		1,1,2-TRICHLOROETHANE	· · · · · · · · · · · · · · · · · · ·	0.50U	ug/L
00012718	Section of the section	TETRACHLOROETHENE		0.500	vig/L
00014228		1,3-DICHLOROPROPANE	·····································	0.50U	ug/L
00012448	March March S	DIBROMOCHLOROMETHANE		0.500	ng/E
00010693		1,2-DIBROMOETHANE		0.50U	ug/L
00059178	West, Day 10	2-HEXANONE		1.00	ig/L
00010890	)/ (	CHLOROBENZENE	<b>'</b>	0.50U	ug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 9/19/2005 1:04PM

Project Number: 05080016

\*Sorted By Sample ID

0.50U

AG03607

Field/Station ID: INFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 8/9/2005

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
000630206	1,1,1,2-TETRACHLOROLTHANE	14-2	200500cc346	ug/E
100-41-4	ETHYLBENZENE		0.50U	ug/L
001330207	M/P:XYLENE + 1		0.50EF 344.	Lings to the second
000095476	O-XYLENE		0.50U /	ug/L
· 000100425	STYRENE	- 10 m	20.5010/f	Cug/L
000075252	BROMOFORM		0.50U	ug/L
- 000098828	ISOPROPYLBENZENB & ***********************************		= 0%(0.0 Feb. )	e ug/E
000108861	BROMOBENZENE		0,50U	ug/L
000096184	1,2,3-TRICHLOROPROPANE	Liturate	0.500	是可以
000079345	1,1,2,2-TETRACHLOROETHANE		0.50U	ug/L
000103651	N-PROPYLBENZENE	Parallel States	\$ 0,5000 Sept	Sugar, 1
000095498	2-CHLOROTOLUENE		0.500	ug/L
106-43-4	4-CHLOROTOLUBNIE 1	i de la compania del compania del compania de la compania del compania de la compania del compania de la compania de la compania de la compania de la compania del compania	0.500	MUSEUM STATE
000108678	1,3,5-TRIMETHYLBENZENE	<del>1</del> 77	0.50U	ug/L
000098066	TERTEBUTYPBENZEN		(0,5)01(1)	
000095636	1,2,4-TRIMETHYLBENZENE		0.50U	ug/L
135298-8	SEC-BUTYLBENZENE	<b>CHECK</b>	10.500E	
000541731	1,3-DICHLOROBENZENE	<del>- 1</del>	0.50U	ug/L
000106467	1,2-DICHLOROBENZENE 1,2-DICHLOROBENZENE		0.500	
000095501 000099876	1,2-DICHLUROBENZENE 4-ISOPROPYCTOLUENE		0.50⊎	ug/L
000104518	N-BUTYLBENZENE		0.500 0.50U	
000104318	1,2-DIBROMO-3-CHLOROPROPANE		0.506	ug/L
000120821	1,2,4-TRICHLOROBENZENE		0.50U	original and the second
87-68-3	HEXACHLOROBUTADIENE		0.50U	ug/L
000091203	NAPHTHALENE		1.0U	ug/L
000087616	123-TRICHLOROBENZENE		-0/500 <b>/254/1</b> 6	
1400.114994.14994.85				

AG03608

Field/Station ID: EFFLUENT

TOTAL XYLENES

Matrix: Aqueous

Sample Description:

Date Received: 8/9/2005

ETHANE,1;2-DICHLORO-1,1,2-TRIFLU-RT=4:53

Refer to Page 1 for an explanation of Remark Codes

Report Date: 9/19/2005 1:04PM

1330-20-7

Project Number: 05080016

\*Sorted By Sample ID

AG03608

Field/Station ID: EFFLUENT

Date Received: 8/9/2005

Matrix: Aqueous

Sample Description:

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark	
CAS Number	Analyte Name	Result	Codes	Units
000124481	DIBROMOCHLOROMETHANE		0.50U	ug/L
000106934	1,2-DIBROMOETHANE		0.5005	ia uz/le
000591786	2-HEXANONE		1.00	ug/L
000108907	CHLOROBENZENE		-0.50EE-2.	a digne and
000630206	1,1,1,2-TETRACHLOROETHANE		0.500	ug/L
100-41-4	ETHYLBENZENE		de 0500 a	
001330207	M/P-XYLENE		0.50U	ug/L
000095476	O-XYLENESS *** ** The State of		# # 0150to 1944	AND COLUMN TO SERVICE
000100425	STYRENE	Spin Alexander	0.50U	ug/L
000075252	BROMOFORM		(0)(5(0)= ± ±	TOPE TO
000098828	ISOPROPYLBENZENE	CARL THE HEAD OF	0.50U	ug/L
000108861	BROMOBENZENE		10,500	ng/L
000096184	1,2,3-TRICHLOROPROPANE		-0.50U	ug/L
000079345	14,2,2-TETRACHBOROBITEANE		នៃ <sub>នេ</sub> (a)នៃ(វាប	
000103651	N-PROPYLBENZENE		0.5011	ug/L
000095498	2-CHEOROTOLUENT	The state of the s	3(1)(5(1))	
106-43-4	4-CHLOROTOLUENE		0.50U	ug/L
4 000108678	LSS TRIMETHY EBENZENE		a 0 (000)	ug/le
000098066 000095636	TERT-BUTYLBENZENE 1.2.4 TRIMETHYLBENZENE		0.50U	ug/L
135-98-8	SEC-BUTYLBENZENE		as.05000ass	ग्रंप्री - अर्थ
000541731	1,3-DICHEOROBENZENE		0.50U	ug/L
000106467	1,4-DICHLOROBENZENE			
000100407	H2-DICHEOROBENZENE		0.50U	ug/L
000099876	4-ISOPROPYLTOLUENE		0.50U	ug/L
000104518	그는 그는 그는 그는 그는 그를 가득하면 하면 하는 가는 그는 그를 가는 것이 되었다. 그는 것이 없는 것이 되었다. 그는 것이 되었다. 그는 것이 되었다.		0.500	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE		0.50U	ug/L
000120821	1,2,4-TRICHLOROBENZENE		0.500	e nig/E
87 <b>-</b> 68-3	HEXACHLOROBUTADIENE		0.50U	ug/L
000091203	NAPHTHALENE		1.00	ug/L
000087616	1,2,3-TRICHLOROBENZENE	popular constitution (2.50)	0.50U	ug/L
1330-20-7	TOTAL XYLENES.		ESO SOLUCIO	AND SECURITY

Project Approval:

Refer to Page 1 for an explanation of Remark Codes

Report Date: 9/19/2005 1:04PM

Date: 9-23-05

Page 5 of 5

Project Number: 05080016

\*Sorted By Sample ID

AG03608

Field/Station ID: EFFLUENT

Date Received: 8/9/2005

Matrix: Aqueous

Sample Description:

•	Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
	CAS Number	Analyte Name	Result	Codes	<u>Units</u>
a vector manimum a service.	75-43-4	DICHLORODIFLUOROMETHAN 3	7	0.50U	ng/L
	000074873	CHLOROMETHANE:		0.500	ugt.
a september of the control of the co	000075014	VINYL CHEORIDE		0.50U	ug/L
	000074839	BROMOMETHANEL		0.500	in/for #51
to the advantage of the second desired	000075003	CHLOROETHANE		0.50U	ug/L
4.007	000075694	TRICHEOROBEUOROMETHANH		E 05007	
	000075354	1,1-DICHLOROETHENE		0.50ป	ug/L
	76-13-1	1,1,2-TRICHLORO-1,2,2 TRIFLUOROETHANE		0,5004	LEADER.
Jan Statu Media, de Jeanne	000075150	CARBON DISULFIDE	77	0.50U	ug/L
and the State of the second	000067641	ACETONE	t out of Toronto	5004	191
14 HONES (1998) ATTENDED	79-20-9	METHYL ACETATE		0.50U	ug/L
A CONTRACTOR	000075092	METHYLENE CHLORIDE	ilulis <b>a i</b> kikilozi	A LOUR A	EMPER NEW
- verticalisa nestra di	000156605	TRANS-1;2-DICHLOROETHENE	roth b <del>ill</del> beril	0.50U	ug/L
La Maria	001634044	METHYLTERI'BUTY ETHER			Tauge in
SACROMER STAN	000075343	1,1-DICHLOROETHANE	1.7		iig/L
	000156592	CIS-1,2-DICHEOROET ENE	7 <b>. 4</b> 7		
	594-20-7	2,2-DICHLOROPROPANE		0.50U	ug/L
	THE PROPERTY OF THE PROPERTY O	2-BUTANONE BROMOCHLOROMETHANE		**:10 <b>00</b>	
	000074975	CHLOROFORM:		0.50U	ug/L
	000067663 71-55-6		3.7	43 (0.50DE);3	THE LEASE OF THE SECOND
Section Control	11-55-0 110-82-70-2	1,1,1-TRICHLOROETHANE - CYCLOHEXANE		<b>EROROBOS</b>	ug/L
esella dir.	000056235	CARBON TETRACHLORIDE		0.50U	ug/L
HEROTE OF GRAVE	** 0000563586***	1.1-DICHLOROPROPENE		0.500 0.500	
	000071432	BENZENE		0.50U	ug/L
774 E 774	000107062	12-DICHEOROFTHAN		0.500	-974 
3. S. W.	025323891	TRICHLOROETHENE	2.1		ug/L
TAIL TO	108-87-2	METHYLCYCLOHEXANE	Y-1.1 140 (1)	0.500	
The state of the s	000078875	1,2-DICHLOROPROPANE		0.50U	ug/L
Service of Artist	000074953	DIBROMOMETHANE	a was as well	0.500 a	
<b>建設開業計畫改訂</b>	000075274	BROMODICHLOROMETHANE		0.50U	ug/L
and the state	-010061015	CIS-1/3-DICHEOROPROPENE2-17-		40500	
	000108101	4-METHYL-2-PENTANONE		1.0U	ug/L
Sal Marine	000108883	TOLUENE		0.50Ua	ug/L
Service Andrews	010061026	TRANS-1,3-DICHLORCPROPEN 3		0.50U	ug/L
satisfie History	000079005	1,1,2-TRICHLOROETHANE	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	0.50U	ug/L
<b>₹</b> 77 75 55	000127184	TETRACHLOROETHENE	E AGENT STREET	0.50U	ug/L
The State State of the State of	000142289	1,3-DICHLOROPROPANE	CONTRACTOR AND	0.50U	ug/L ug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 9/19/2005 1:04PM



13 September 2005 RAC II-2005-154

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 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the July 2005 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 in auto mode for the entire month. Thunderstorms during the weekend of 30 and 31 July took the system off-line, but it was restarted without a problem on 1 August. A summary of the operation and maintenance activities performed during July is as follows:

- · Routine inspections of the facility were performed;
- · Pumps were checked and lubricated;
- Air filters were cleaned or replaced;
- Grass was mowed; and
- The monthly influent and effluent samples were collected.



#### **B.** Operational Data

The following table presents operational data for the year 2005, arranged by month:

Month	Month Operating Ave		Average flow rate (gpm)	Amount of groundwater treated (mg)		
January	31	47	541	24.2		
February	28	46	529	21.3		
March	31	45	517.5	22.4		
April	17	∜8	552	13.5		
May	31	*	*	*		
June	30	.*	*	*		
July	29	;**	*	*		
Volume of groundwa	ter treated for 2005	· · · · · · · · · · · · · · · · · · ·		81.4*		
Volume of groundwa	ter treated for the Q	U-1		2684.8*		

<sup>\*</sup>The float control valve is not closing completely, preventing the flow meter from operating correctly. A replacement is being sought.

gpm - gallons per minute mg - millions of gallons

#### C. Comparison of Influent and Effluent Concentrations with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of July 2005 are included in Attachment || 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

	Discharge		Influent Concentration (ug/L)						Effluent Concentration					
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(ug/L) January
Vinyl Chloride	2	3.5	3.9	3.4	4.4	4.1	3.7	3.5						0.5 U
Chloroethane		0.5	1).6	0.5	0.73	0.59	0.54	0.55						0.5 U
1,1-Dichloroethene*	5	13	9.3	8.4	11	12	9.5	9.4						0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1	2.9	2.6	3.2	2.6	2.9	2.9						0.5 U
Acetone		1.0 U	2.3	1.0 U	1.0U	1.0U	1.0 U	1.0U						1.2
Trans 1,2-Dichloroethene*	5	0.5 U	0i5 U	0.5 U	0.5U	0.5U	0.5 U	0.5U						0.5 U
Methyl Tert-Butyl Ether		4.7	4.3	4.3	3.9	4.2	3.9	4.2						2.2
1,1-Dichloroethane	5	18	17	17	24	17	17	17						1.8
Cis-1,2-Dichloroethene*	5	50	46	46	54	47	45	44						5.5
Chloroform	. 7	0.5 U	0 <sub>1</sub> 5 U	0.5 U	0.5U	0.5U	0.5 U	0.5U						0.5 U
1,1,1-Trichloroethane*	5	110	20	110	140	110	120	110						4.4
Trichloroethene*	5	43	40	40	47	39	38	36						2.4
Total Volatile Organics*	100	245.8	2:16.3	232.2	288.23	236.49	240.54	227.55						17.5

Note:

ug/L = micrograms per liter
\* = Site Contaminant of Concern
U = Below Reporting Limit
NS = Not Sampled

#### D. Next Month's Activities

The following activities are planned for August 2005:

- Repair flow meter valve;
- · Restore phone service; and
- Perform monthly performance monitoring sampling.

## E. Summary and Recommendations

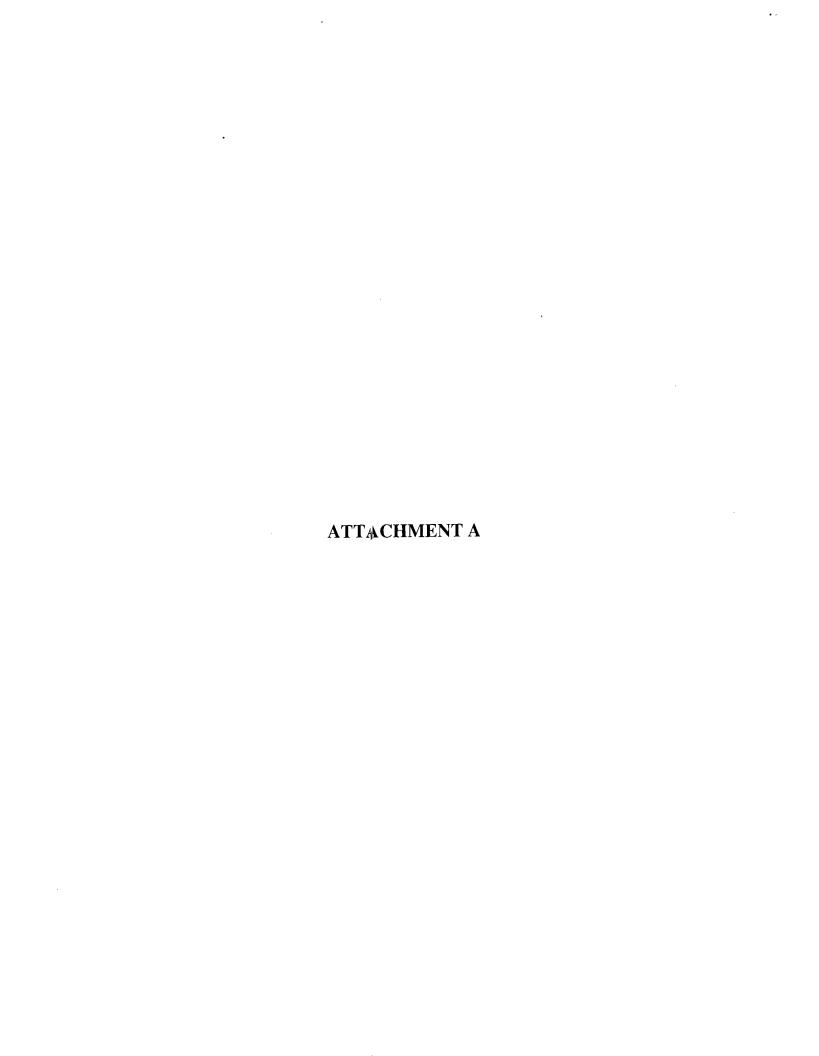
Based on the treatment plant influent and effluent data summarized above, it can be concluded the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8412 if you should have any questions.

Sincerely,

Wendy DeMaio
Wendy DeMaio
Project Manager

Attachment

cc: M. Dunham (NYSDEC)



# <u>Case Narrative:</u> <u>Vestal 1-1. #05060020</u>

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

### Comment(s):

None

## Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs) for each analyte requested except for the following analyte(s):

Volatile Organic Compounds: The Laboratory's Reporting Limit for Methylene Chloride was raised to 1 ug/L due to problems associated with the initial calibration curve

### Method(s):

Low Level Volatile Organic Analysis, ESAT-SOP-132 (GC/MS Method).

# U.S. Environmental Protection Agency Region 2 Laboratory

Data Repont: Vestal Well 1-1 [06/05]

Project Number: 05060020

Program: Y206E

Projec: Leader: L. Arabia

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.
Π1	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.
К	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

Date Received: 6/10/2005

Project Number: 05060020

\*Sorted By Sample ID

AG01732

Field/Station ID: INFLUENT

Matrix: Aqueous

Sample Description:

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER		
No.	mark_ odes	F. L
The state of the s		<u>Units</u>
是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	等等基础的的特别分别在APA的特别。 1980年	ug/L
The second of th	of Carrier and St. Charles and St. C. Carrier Stevens	ug/L
000075014 VINYLCHLORIDE 3.7	企业中央公司的特殊。 计过程工程 电电阻电阻 计图象	ug/L
	A service of deather security accounts to the first	ug/L
000075003 CHLOROETHANE * 0.54	MANUACOUR COMPANY AND STATE OF THE PARTY OF THE	úg/L
그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	he as large parameters, who experience an arrangement	ug/L
000075354 1,1-DICHLOROETHENE 9.5	Market St., 1990 by a series of the St. of St. of the London	ng/L
76-13-1 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE 2.9	water and apply of the addition of the property.	ug/L
是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	电电话 医电路 医电路 电电路 电电路 电电路 电电路 电电路 电电路 电电路 电电路	ug/L#
그는 그	Control and Australia control and Control and Control and Control	ug/L
	HART THE RESIDENCE OF THE PROPERTY OF THE PROP	ug/L
	. <b>0U</b>	ug/L
	50 <b>L</b> F	ug/L -
001634044 METHYL TERT-BUTYL ETHER 3.9		ug/L
000075343 1,1-DICHLOROETHANE 17.)	2.45	ug/Ib
000156592 CIS-1,2-DICHLOROETHENE 45		ug/L
594-20-7 2:2-DICHEOROPROPANE: 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	50E	ug/L
000078933 2-BUTANONE — 1.	0U :	ug/L
000074975 BROMOCHLOROMETHANE 12 PAGE 18 18 18 18 18 18 18 18 18 18 18 18 18	OUP * . We	ug/E
000067663 CHLOROFORM 0:5	50Ü i	ug/L
71-55-6 1,1,1-TRICHLOROETHANE, \$5' 120'- 120'- 11		ug/L
110-82-7 CYCLOHEXANE 0.3	5 <b>0U</b> 1	ug/L
000056235+ CARBON TETRACHLORIDE *** CONTROL TO CONTROL	50U 🥍 🤫 🗥	ig/L
000563586 1,1-DICHLOROPROPENE 0.5	50 <b>U</b>	ug/L
000071432 BENZENE 0.5	50 <b>U</b> 🚉 💯 i	ug/L"
000107062 1,2-DICHLOROETHANE 0.5	5 <b>0U</b> 1	ug/L
025323891 TRICHLOROETHENE 4 12 238 238 238 238 238 238 238 238 238 23	# # # i	ug/L
108-87-2 METHYLCYCLOHEXANE 0.5	50U 1	ug/L
000078875 1,2-DICHLOROPROPANE 0:5	50U (# 1	ng/L
000074953 DIBROMOMETHANE 0.5	50U 1	ıg/L
000075274 BROMODICHLOROMETHANE 0.5	ACCORDING TO A STATE OF THE PARTY OF THE PAR	rg/L:
010061015 CIS-1,3-DICHLOROPROPENE 0.5	50U ι	ıg/L
000108101. 4-METHYL-2-PENTANONE :: It	0U i	ıg/L
000108883 TOLUENE 0.5	at attack the attack and a second state of the	ıg/L
010061026 TRANS-1/3-DICHLOROPROPENE 0.5	on it receives an fact, because a construction of	ig/L
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	man conservation interesting that it is a subsection.	1g/L
	er a feet also a respectation of the er and	1g/L
大百万元,1972年1972年,	The same of the property of the same of th	ıg/L
	entre de la companya del companya de la companya del companya de la companya de l	ig/L
。一直上上的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一	CONTRACTOR OF THE PROPERTY OF	1g/L
	en a companya da está que e de encoracion	ig/E
表现一个工作。这一一个工作,这个工作的,但是是是一个工作,这个工作,这个工作,我们就是一个工作,我们就是一个工作,我们就是一个工作,这个工作,我们就是一个工作,	STATE SOURCE STATE STATE STATE OF THE STATE	ig/L
efer to Page 1 for an explanation of Remark Codes		-9-11

eport Date: 8/1/2005 2:14PM

Project Number: 05060020

\*Sorted By Sample ID

AG01732

Field/Station ID: INFLUENT

Date Received: 6/10/2005

Matrix: Aqueous

Sample Description:

	Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark	
	CAS Number	Analyte Name	Result	Codes	<u>Units</u>
	000630206	1,1,1,2-TETRACHLOROETHANE		0.500	ng/L
ognarica ga	100-41-4	ETHYLBENZENE	Matter mitsent frames were manage	0.50U	ug/L
	001330207	M/P-XYLENE	er <u> </u>	:0500 P	tig/L
zwiczin. or wes	000095476	O-XYLENE		0.50U	ug/L
	000100425	STYRENE	<b>248</b> • •	1.0050U	wug/k
· 4.3	000075252	BROMOFORM		0.500	ug/L
	000098828	ISOPROPYLBENZENE	4 Ju	0.501	ug/L
	000108861	BROMOBENZENE		0.50U	ug/L
	000096184	1,2.3-TRICHLORØPROPANE		9500	Lug/I
7.70	000079345	1,1,2,2-TETRACHLOROETHANE	77	0.50U	ug/L
	000103651.	N-PROPYLBENZENE		\$0.50U.25	de og/L
	000095498	2-CHLOROTOLUENE		0.50U	ug/L
e de la principal de la constante de la consta	106-43-4	4-CHLOROTOLUBNE	<del></del>	G SOLL 3.	ig/L
	000108678	1,3,5-TRIMETHYLBENZENE		0.50U	ug/L
	000098066	TERT-BUTYEBENZENB		" OSUBBLE	it/ug/L≠
e i berenet e	000095636	1,2,4-TRIMETHYLBENZENE	The same of the sa	0,50U	ug/L
	. 135-98-8.	SEC BUTYLBENZENE	34.44	0.500	_ sug/L
sud-keek	000541731	1,3-DICHLOROBENZEN3	The second secon	0.50U	ug/L
	000106467	1,4-DICHLOROBENZEN		0,500	c ug/L
* ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	000095501	1,2-DICHLOROBENZEN2	i proportione	0.50U	ug/L
a de la Constantina	000099876	4-ISOPROPYLTOEUENE		0.500	_ug/L
(80 in/1982)	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
4.P14	87-68-3	HEXACHLOROBUTADIENE		0.500	ig/L
	000091203	NAPHTHALENE		0.50U	ug/L
	000087616	1,2,3-TRICHLOROBENZENE	Total	0.500	ug/L
: SKEME	1330-20-7	TOTAL XYLENES		0.50U	ug/L
		ETHANE,1,2-DICHLORO,1,1,2-TR FLU,RT=4.56	0.67	PNJ	""ug/E

AG01733

the Mary Sales

Field/Station ID: EFFLUENT

Late Received: 6/10/2005

Matrix: Aqueous

Sample Description:

Refer to Page 1 for an explanation of Remark Codes

Report Date: 8/1/2005 2:14PM

Project Number: 05060020

\*Sorted By Sample ID

AG01733

Field/Station ID: EFFLUENT

Date Received: 6/10/2005

Matrix: Aqueous

Sample Description:

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
000124481	DIBROMOCHLOROMETHANE		0.50U	ug/L
000106934	1,2-DIBROMOETRANE		0:50EF	ug/L
000591786	2-HEXANONE		1.0U	ug/L
000108907	CHEOROBENZENES 2.		0.500	ig/L
000630206	1,1,1,2-TETRACHLOROETHANE	ne en anna e an an ann an	0.50U	ug/L
100-41-4	ETHYLBENZENE ( )	Constitution of the Constitution	0.500	ug/L
001330207	M/P-XYLENE		0.50Ü	ug/L
134 - 000095476	O-XYLENE SALES AND		2050U	e Ng/E
000100425	STYRENE		0.50U	ug/L
000075252	BROMOFORM 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		01500	an ug/L
000098828	ISOPROPYLBENZENE		0.50U	ug/L
000108861	BROMOBENZENE A A A A A A A A A A A A A A A A A A	k gang Militaryan dan dan dan dan dan dan dan dan dan d	0.509	ng/L
000096184	1,2,3-TRICHLOROPROPANE		0.50U	ug/L
000079345	1,1,2,2-TETRACHEOROETHANE - 1 1 1 4 4 4 1	医皮肤病 计二十二十二	70.50D	ug/E
000103651	N-PROPYLBENZENE		0.50U	ug/L
000095498	2-CHLOROTOLUENE		9.500	ng/L
106-43-4	4-CHLOROTOLUENE		0.50U	ug/L
000108678	1,35-TRIMETHYLBENZENE		0:500	ug/L ·
000098066	TERT-BUTYLBENZENE		0.50U	ug/L
000095636	1,2,4TRIMETHYEBENZENES (1)		OSQU	ug/L
135-98-8	SEC-BUTYLBENZENE		0.50U	ug/L
000541731	1/3-DICHLOROBENZENE	CANADA SANCE	0.50U-#	, jug/Li
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 1		0.50U	pg/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE	and the contract of the second	0.50U	ug/L
000120821	1,2,4-TRICHLOROBENZENE	de com parado dos estados como de como	0.50U	ug/L
87-68-3	HEXACHLOROBUTADIENE	and the second s	0.50U	ug/L
🖖 000091203 🚙	NAPHTHALENE		0.500	ug/L
000087616	1,2,3-TRICHLOROBENZENE		0.50U	ug/L

**Project Approval:** 

Refer to Page 1 for an explanation of Remark Codes

1330-20-7 TOTAL XYLENES

Report Date: 8/1/2005 2:14PM

Page 5 of 5

Date: 8-3-25

Project Number: 05060020

\*Sorted By Sample ID

AG01733

Field/Station ID: EFFLUENT

Date Received: 6/10/2005

Matrix: Aqueous

Sample Description:

Analysis	Type: VOA G	CMS LOW LEVEL DRINKING WATER		Remark_	
CAS	Number Anal	yte Name	<u>Result</u>	Codes	<u>Units</u>
75-4	3-4 DI	CHLORODIFLUOROMETHANE		0.50U	ug/L
0000	74873 CE	ILOROMETHANE		0.500	ug/L
0000	75014 VII	NYL CHLORIDE		0.50U	ug/L
0000	74839 BR	OMOMETHANE - 2		0,500	ug/L
0000		ILOROETHANE		0.50U	ug/L
0000	THE STORY OF THE PARTY OF THE P	ICHLOROFILUOROMETHANE		0.900	·üg/L
0000	•	-DICHLOROETHENE		0.50U	ug/L
76-1	SEASSE (大学) 大学 (大学) (大学) (大学) (大学) (大学) (大学) (	,2-TRICHLORO-1,2,2-TRIFEUOROETHANE	STEEL SE	0.50UL	.ug/L
and a second sec	A PARTY SERVICE STREET,	RBON DISULFIDE	un denne vet in arbeits verbeits ar an extraoris	0.50U	ug/L
1000mm (1915年) 100 mm (1910年) 100 mm (1910年) 100 mm (1910年)		ETONE.		1,00, 2, 3	ug/L
79-20		THYL ACETATE		0.50U	ug/L
2000年 · 1000年	<b>"我们是一个人的人,我们还是一个人的人的人,我们们们</b>	THYLENE CHLORIDE		000	ng/L.
		ANS-1,2-DICHLOROETHENE		0.50U	ug/L
TO THE REAL PROPERTY OF THE PARTY OF THE PAR	Committee of the second second second second	THYLTERT-BUEYDECHER	2.214		ug/L
and the second s		-DICHLOROETHANE	1.9		ug/L
2014年9月2日,1917年19月1日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日	15.3. A. L.	-1,2-DICHLOROETHENE java	519		ug'L
594-2		-DICHLOROPROPAN3	andrawa Tuniani Wasan da Piar Sanda	0,50U	ug/L
	1. 2. 2. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	IUTANONE	777	LOUL	ug/L
		OMOCHLOROMETHANE	and the second s	0.50U	ug/L
·····································	to the second se	LOROFORM	STATE OF THE PARTY	0:50U	ug/L
71-55		,1-TRICHLOROETHANE	4.7		ug/L
110-8	和。因为这种必要的"型品的"至一、在一个是一定	CEOHEXANE 7	· 有"不是"的问题。与此是自然的过去的问题。在"Stated"的意思。	0.500	ug/L
and the second second second	Anna and a manifest was a second or	RBON TETRACHLORIDE	and the second control of the second control	0,50U	ug/L
a king a kangan na kangan kangan na kanang	See Anna Charles and Anna Anna Anna Anna Anna Anna Anna	DICHLOROPROPEN	SECURITY SECURITY AND ACTUAL PROPERTY OF	0.50U	ug/L
		NZENE	A transfer of the second of th		ug/L
	the state of the s	-DICHLOROETHANE ICHLOROETHENE	2.6	0.50U* 🖖	ug/E
		THYECYCEOHEXANE		0.50U* ***	ug/L
The Transfer of the state of th	The state of the s	-DICHLOROPROPANE	報の方式はある。本語の問題を行うからなる。またのと	0.50U	ug/L
and the second second		BROMOMETHANE	The second secon	0.50U.	ug/L
了。 "是我的一个人的,我们就是这个人的,你不是一个。"	· 一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	OMODICHLOROMETHANE	图42、 "在16年前,1850年,1860年,1884年,1895年1955年,1860年	0.50U	ug/E
and a constant of the first of the constant of		-1,3-DICHEOROPENE		in a series in particular are an account to the con-	ug/L ug/L
and the same of th	医乳腺素的 "这一大块,一块是一块,是有多种的	1ETHYL-2-PENTANONE		<b>工作,是是有效的,不是是一种的。</b>	BELLEVINE HOLD - BOOK - THE - LAST -
	and the state of t	EUENE		1.00 0.50U*******	ug/L
Children of the second of the	THE RESERVE TO STATE OF THE PARTY OF THE PAR	ANS-1,3-DICHLOROPROPENE	· 一个是是不是是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一	THE CANDIDARY STATE OF THE PARTY OF THE PART	ug/L
and the second second		ANS-1,3-DICHLOROFINOFENE 2-TRICHLOROETHANE	mandagen gringer of the committee of the committee of the	0.50U	ug/L
<ul><li>(2) (2) (2) (2) (3) (3) (4) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4</li></ul>	THE RESIDENCE OF THE PROPERTY	TRACHLOROETHENE	ent-unti-matien weit valifable in danker zu 2000 undeber	en, and analysis of the statement of the state of the best distillation.	ug/L
		-DICHLOROPROPANE	and the second section of the second second	The second section of the second section of the second sec	ug/L ug/L:
A LOVE	12207		CENTRAL PO		mB) I

fer to Page 1 for an explanation of Remark Codes

eport Date: 8/1/2005 2:14PM Page 4 of 5



13 September 2005 RAC II-2005-153

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 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the June 2005 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 in auto mode for the entire month. A summary of the operation and maintenance activities performed during June is as follows:

- Routine inspections of the facility were performed;
- Pumps were checked and lubricated;
- Air filters were cleaned or replaced;
- · Grass was mowed;
- The pump house vent cap was replaced;
- The pump house was painted; and
- The monthly influent and effluent samples were collected.



## **B.** Operational Data

The following table presents operational data for the year 2005, arranged by month:

_		Average flow Me;er%	Average flow rate (gpm)	Amount of groundwater treated (mg)
January	31	<u>4</u> 7	541	24.2
February	28	#6	529	21.3
March	31	¥5	517.5	22.4
April	17	#18	552	13.5
May	31	*	*	*
June	30	*	*	*
Volume of groundw	vater treated for 2	2005		81.4*
Volume of groundw	vater treated for t	he OU-1		2684.8*

<sup>\*</sup>The float control valve is not closing completely, preventing the flow meter from operating correctly. A replacement is being sought.

gpm - gallons per minute mg - millions of gallons

## C. Comparison of Influent and Effluent Concentrations with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of June 2005 are included in Artachment 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

	Discharge		Influent Concentration (ug/L)						Effluent Concentration					
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(ug/L) January
Vinyl Chloride	2	3.5	3.9	3.4	4.4	4.1	3.7							0.5 U
Chloroethane		0.5	0.6	0.5	0.73	0.59	0.54							0.5 U
1,1-Dichloroethene*	5	13	9.3	8.4	11	12	9.5							0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1	2.9	2.6	3.2	2.6	2.9							0.5 U
Acetone		1.0 U	2.3	1.0 Ŭ	1.0U	1.0U	1.0 U							1.0 U
Trans 1,2-Dichloroethene*	5	0.5 U	(i.5 U	0.5 Ū	0.5U	0.5U	0.5 U							0.5 U
Methyl Tert-Butyl Ether		4.7	4.3	4.3	3.9	4.2	3.9							2.2
1,1-Dichloroethane	5	18	17	17	24	17	17							1.9
Cis-1,2-Dichloroethene*	5	50	46	46	54	47	45							5.9
Chloroform	7	0.5 U	0.5 U	0.5 Ü	0.5U	0.5U	0.5 U							0.5 U
1,1,1-Trichloroethane*	5	110	120	110	140	110	120							4.7
Trichloroethene*	5	43	40	40 ×	47	39	38							2.6
Total Volatile Organics*	100	245.8	246.3	232.2	288.23	236.49	240.54							17.3

Note:

ug/L = micrograms per liter
\* = Site Contaminant of Concern
U = Below Reporting Limit
NS = Not Sampled

#### D. Next Month's Activities

The following activities are planned for July 2005:

- Repair flow meter valve;
- Restore phone service; and
- Perform monthly performance monitoring sampling.

## E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8412 if you should have any questions.

Sincerely,

Wendy DeMaio Project Manager

Attachment

(NAZDEC)

cc: M. Dunham



# U.S. Environmental Protection Agency Region 2 Laboratory



## Data Report: Vestal Well 1-1 [07/05]

Project Number: 05070016
Program: Y206E

Project Leader: L. Arabia

•	
RESULT NOT ENTERED	INC
NOT VALIDATED	ΛN
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.	T
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.	К
TO SEVERE QUALITY CONTROL PROBLEMS. THE DATA ARE REJECTED AND CONSIDERED UNUSABLE.	Я
THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALUE IS PRESEUT; THE ANALYTE.  AS A TENTATIVE IDENTIFICATION. THE REPORTED VALUE IS AN ESTIMATE.	lN
THERE IS PRESUMPTIVE EVIDENCE THAT THE ANALYTE IS PRESENT; THE ANALYTE IS REPORTED AS A TENTATIVE IDENTIFICATION.	N
THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT. THE REPORTING LIMIT IS AN ESTIMATE.	m
THE IDENTIFICATION OF THE ANALYTE IS ACCEPTABLE; THE REPORTED VALUE IS AN ESTIMATE.	ſ
THE ANALYTE WAS NOT DETECTED AT OR ABOVE THE REPORTING LIMIT.	IJ
Explanation	Remark Codes

 $\delta$  to 1 sgs q

Report Date: 8/29/2005 11:33 AM

# Case Narrative: Vestal 1-1. #05070016

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

## Comment(s):

None

## Reporting Limit(s):

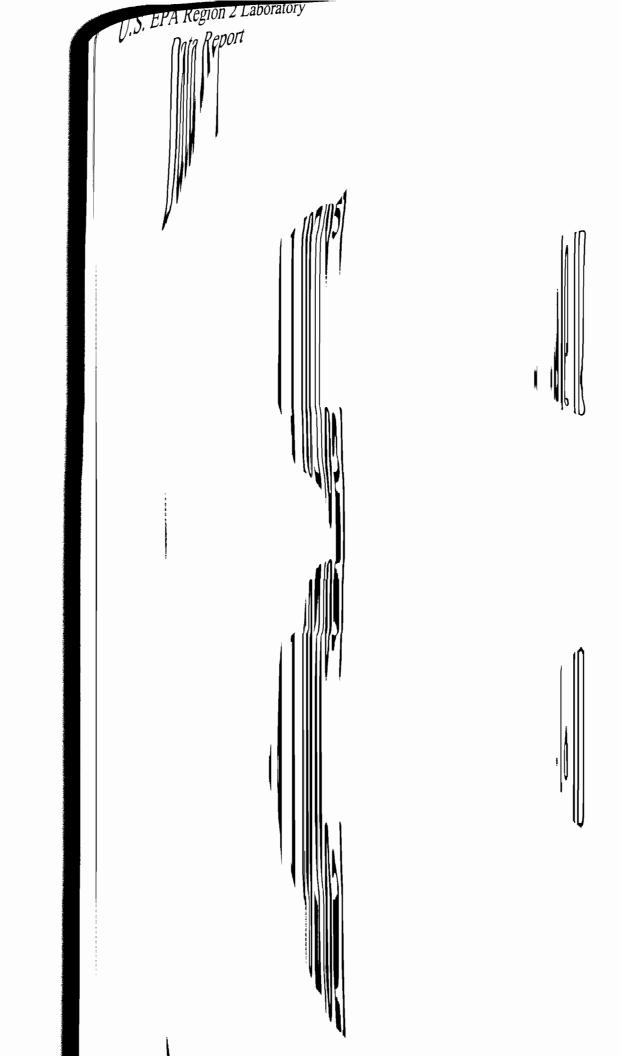
The Laboratory was able to achieve the Contract Fequired Quantitation Limits (CRQLs) for each analyte requested except for the following analyte (s):

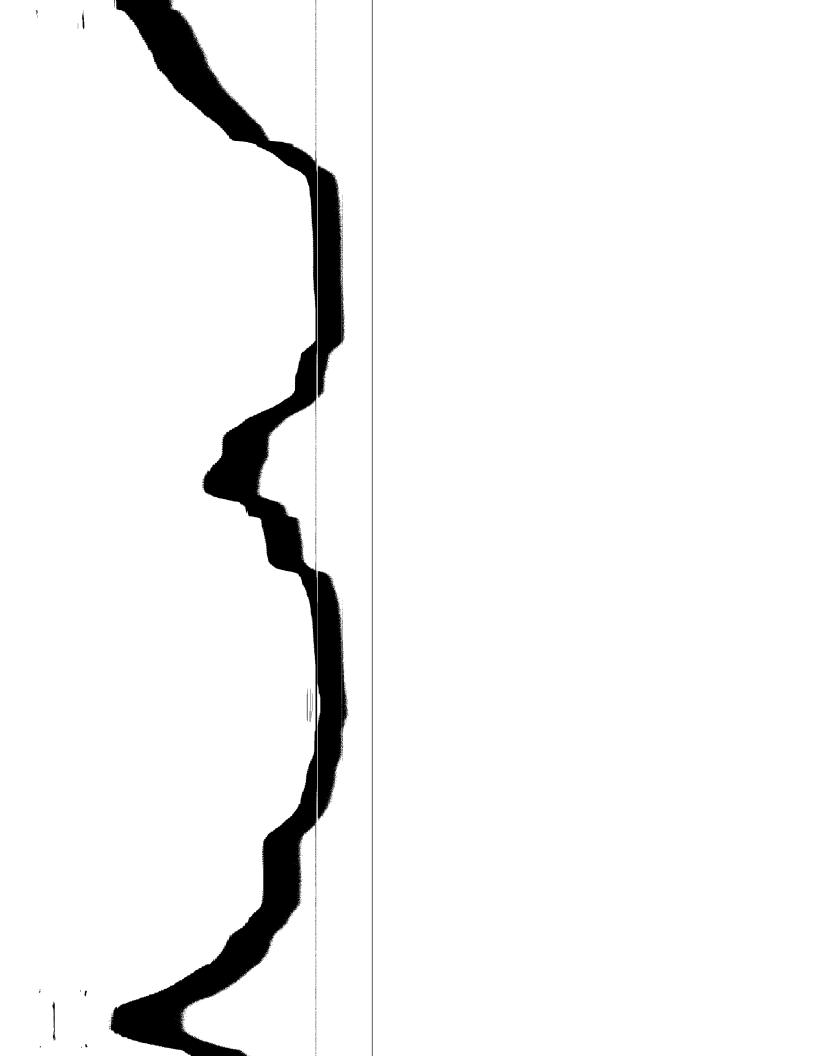
Volatile Organic Compounds: The CRQL for Methylene Chloride in water is 0.5 ug/L (OLC03.2). The Laboratory's Reporting Limit was raised 10 ug/L due to problems associated with the initial calibration curve.

## Method(s):

Low Level Volatile Organic Analysis, ESAT-SOP: 132 (GC/MS Method).

Approval: Date: 9-2-0





#### Data Report U.S. EPA Kegion 2 Laboratory

## Survey Vame: Vestal Well 1-1 [07/05]

Project Number: 05070016

\*Sorted By Sample ID

Date Received: 7/8/2005

AG02658 Field/Station ID: INFLUENT

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Matrix: Aqueous

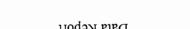
Sample Description:

_			on of Remark Codes	Refer to Page 1 for an explanati
J/ <b>3</b> n	U02.0		CHTOKOBENZENE	Z06801000
"J/8n"	HOM		<b>5-HEXVIONE</b>	98/165000
7/8n	U08.0	The second secon	1,2-DIBROMOETHANE	76901000
- /J/8n	nosio		DIBROMOCHLOROMETHANE	000154481
J/gu	UOS.0		1,3-DICHLOROPROPANE	000142289
1/8n	D02.0	term and the second	TETRACHLOROETHENE	\$1721000
J\gu	Ω0 <b>S</b> .0	である。 	1,1,2-TRICHLOROETHANE	\$00620000
7/8n 🚧	UQ2.0		TRANS-1,3-DICHLOROPROPENE	970190010
J∖gu	U02.0	andere en manet en skiller i de mendere gegen en men en het geven men en skille en en en en en en en en en en En en	LOFORENE LOTOR OF THE LOTOR OF	00010883
'T/8n.'*	nor.	Delta 174 OF Activities	4-METHYL-2-PENTANONE	0010801000
J∕gu	U02.0		CIS-1'3-DICHTOROPROPENE	\$10190010
"Tygu	U02.0		BROMODICHTOROMETHANE	\$10190010 \$22520000
<b>J/8</b> n	U02.0	等的。	DIBROMOMETHANE	£\$64L0000
nS/T	1105.0	Maria (1921)	I,2-DICHLOROPROPANE	\$48840000
7/8 <b>n</b>	U02.0		13 DICAL OPOBROBANE	7- <i>L</i> 8-801
T∕8n ≈	1103 0	ÖÇ	LKICHTOKOELHEME	be an experienced from a supplier of the suppl
7/8n	U02.0		1,2-DICHLOROETHENE	1682233831
J\gu			1 3 DICHI OBOELLAVNE BENZENE	790201000
.1\gu	U02.0		I'I-DICHLOROPROPENE	000001435
1/8n //	riosio		CARBON TETRACHLORIDE	985695000
J\gu	U02.0		The state of the s	\$279\$0000
Tydo, su		e a company and a company	CACTOHEXYME 1'1'I-LKICHTOKOETHYME	L-78-011
7/8n	Ω05.0			97 <b>9</b> 57T4
F/80*	10000		CHLOROFORM	£99£90000
J∕gu	Ω0.1		BROMOCHTOROMETHANE	\$76470000
- 1/8n (1)	ands o	atem exercises and accompanies of the second	7-PUCHLOROPROPANE	££6870000
7]/8 <b>n</b>	341 <b>0</b> 3.0	bb	CIS-1'S-DICHFOROELHENE	L=07-465
1/8n 🦸		Li .	I'I-DICHLOROETHENE	76S9S1000
T/8n		77	METHYL TERT-BUTYL ETHER	£4£\$ <u>7</u> 0000
	∩05:0 .		TRAUS-1,2-DICHLOROETHEUE	\$099\$1000 \$099\$1000
7/8n	Ω0'I		MELHATERE CHTOKIDE	76057000
<b>1/8</b> 0 (	- 100S.0		WELHAL VEELVEE	6-07-62
7/8n	U0.1		VCELONE	1+9490000
t /an 🖝	* 0.005.0		CARBON DISULFIDE	and the first of the control of the first of the con-
J/gu		THANE 2.9	Residence Land of the Artist of Control of C	000042120
* * * * * * * * * * * * * * * * * * *		p. 6	1,1,2-TRICHLORO-1,2,2-TRIFLUOROE	1-£1-9 <i>L</i>
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<u>siinU</u>		Kesnir	DICHTOKODIET NOKOWETHANE	7-E7-57
atio! I	Remark <u>.</u> <u>Codes</u>	+luse Q	arried atvien A	CAS Number
	-l a	<b>.</b> T	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	a radf r crefiming

Report Date: 8/29/2005 11:33AM Refer to Page 1 for an explanation of Remark Codes

## Data Report

## U.S. EPA Region 2 Laboratory



## Survey Name: Vestal Well 1-1 [07/05]

Project Number: 05C70016

\*Sorted By Sample ID

Date Received 7/8/2005

Field/Station ID: INFLUENT

**VC07028** 

Matrix: Aqueous

Sample Description:

J\gu	in	<b>59.0</b>	ELHVNE'1'5-DICHTORO-1'1'5-LKIELO'KL=4'22	经基础管理 化多种
J/gu	U02.0		TOTAL XYLENES	1330-20-7
T/au . 🦠	U02.0		I'S'3-LKICHTOKOBENZENE	919280000
J/gu	U02.0		NAPHTHALENE	000061203
J\gu ∵i∮			HEXYCHTOKOBOLYDIENE	£-89-Z8
J/gu	∴U02.0		1'5't-TRICHLOROBENZENE	000120821
√L\gu ∵	0.50∪		1'7-DIBKOMO-3-CHLOROPROPANE	871960000
J\\gu	U02.0		N-BOLATBENZENE	812401000
.d\gu₃	.005.0	<u></u>	4-ISOPROPYLTOLUENE	928660000
J\gu	U02.0		1'7-DICHLOROBENZENE	105560000
4/80 3/4	noso 🛚	Make Harry College	1'4-DICHTOKOBENZENE	£9 <del>1</del> 901000
J/Zn	U02.0		1'3-DICHTOKOBENZENE	187172000
J/gu-	លេទ ០		SEC-BOLKI BENZENE	132-98-8
<b>7</b> /8n	U02.0		1,2,4-TRIMETHYLBENZENE	989860000
<b>J/8</b> 0.449;	nosio		LEKL-BOLKEBENZENE	990860000
<b>7/3n</b>	U02.0		1,3,5-TRIMETHYLBENZENE	849801000
77/ <b>3</b> 11	U02.0		t-CHTOKOLOTHENE	₩ <b>-£<del>1-</del>801</b>
A/gu	U02:0		7-CHLOROTOLUENE	864560000
1/gu	_D02:0	20 <u>20</u> 20 20 20 1	N-BKOD-XTBENZENE	159601000
J/gu	U02.0		1,1,2,2-TETRACHLOROETHANE	S45670000
<b>I/8</b> m/21/24	_D02.0		I,2,3,TRICHLOROPROPANE	₱81960000
. 7/8n	_U02.0	-	BKOMOBENZENE	198801000
J/gu	_005:0	marting the	ISOPROPYLEBUZENE	828860000
J\gu	U08.0	Martine Martine State Commission and State Commission and State Commission of State Co	BKOMOŁOKW	Z\$Z\$L0000
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J/gu	<b>υος.0</b>	en e	ELHATBENZENE	100-41-4
"I\gu	<b>Π05:0</b>	and the same	1,1,1,2-TETRACHLOROETHANE	9020E9000
<u>erin U</u>	Codes	Result	ame N aylenA	CAS Number
	Remark_		OA GCMS LOW LEVEL DRINKING WATER	V :∍qyT sisylanA

Date Received: |7/8/2005|

AG02659 Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

## Data Report

## Survey Name: Vestal Well 1-1 [07/05]

Date Received: 7/8/2005

Project Number: 05070016

\*Sorted By Sample ID

AG02659 Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

			2000 Vigan 930 acit	and and an and I are a district a
7/5n -	Ω0\$0÷		1,3-DICHLOROPROPANE	000142289
J\gu	U02.0	보면 <del>하</del> 는 이번 되는 사람들이 보다.	TETRACHLOROETHENE	p81721000
J\gu/	M05,0		1,1,2-TRICHLOROETHANE	\$00620000
J\gu	U02.0	<del></del>	TRANS-1,3-DICHLOROPROPENE	970190010
7/8n			LOTOENE	688801000
J/gu	1.0U		4-METHYL-2-PENTANONE	101801000
1)/8n	-Ω0\$'0		CI2-1'3-DICHTÖKOÞKOÞENE	\$10190010
J\gu	U02.0		BROMODICHLOROMETHANE	\$\tau_00000
J/gn -	U02.0		DIBROMOMETHANE	£\$6 <del>7</del> 40000
J\gu	U02.0	<u></u>	1,2-DICHLOROPROPANE	\$18810000
J/gu 🔭	U02.0		MELHATCACTOHEXYME	7-78-801
J\gu		7.4	<b>LKICHTOKOETHENE</b>	168525320
<b>T/8</b> n .	D02.0		1,2-DICHLOROETHANE	790701000
J\gu	U02.0		BENZENE	000071432
J/gu	∂Ω0S:0		1'1-DICHTOROFROPENE	985£95000
J\gu	U02.0		CARBON TETRACHLORIDE	\$27950000
. T\gu,	1105:0 *	<del></del>	CACTOHEXYME	7-28-011
J\gu		77	1,1,1-TRICHLOROETHANE	9-55-17
A'gn 📲	4408.0		CHTOROEORM	E99L90000
T∕gu	U02.0		BKOMOCHFOKOMETHANE	\$26720000
7/80 8	AQ0:1		S-BUTANONE	EE6870000
J/Sn	Π0 <i>S</i> '0		5'5-DICHLOROPROPAUE	<i>L</i> -07-⊅6\$
J/an 💨	Bernald K	MASSAUTE SALESONED SUPERIOR	CIS-1'S-DICHFOROETHENE	Z6S9S1000 - : :
Д/ān		8.1	1'1-DICHTOKOELHVAE	EÞES L 0000
Jago 1		of <b>ZZ</b> actor police the constant	METHYL TEKT BUTYL BTHER •	- <del>11</del> 0469100
J/gu	U02,0		LKANS-1,2-DICHLOROETHENE	S099S1000
Algu ,	Sport Co	Control of the contro	WEIHALENECHTÖRIDE	Z60SŁ0000
-1\gu	Δ0S'0	den en e	WELHAT VCELVLE	45-20-9
a all and a second	K	To the second of	<b>VCELONE</b>	1+9/290000
A/gu	U02.0		CYBBON DIZOLLIDE	0\$1\$20000
7/ <b>3</b> n %	U02.0		I,1,2-TRICHLORO-1,2,2-TRIELLOR	1-E1-9L
J/gu	U02.0		I'I-DICHFOKOELHENE	\$\$\$\$\document{0000}
.1/gu A/gu 💸	CO2:0		TRICHTOROFINOROMETHANE	<b>⊅</b> 69\$∠0000
and the second s	U02.0		СНГОКОЕДНУЛЕ	£00\$ <i>L</i> 0000
A/gu A/gu			BKOMOMELHVIE	6E8470000
J/gu	Ω05:0 Ω08:0	e de la composition della comp	AINAT CHTOKIDE	\$\frac{\psi_0000}{\psi_0\$\frac{\psi_0000}{\psi_0000}}
Algu Torr	that was not because the first three parties and the same of the		CHTOKONELHVIAE	4-E4-27
<u>stinU</u> •1\pr	U02.0	<u>MessA</u>	DICHTOKODIET NOKOWELHYNE VII STATE V	CAS Number
atin[1	Remark <u>-</u> <u>Codes</u>			
	-1 d	ТЕК	DY CCWS FOM FEAEF DBINKING MY	V :sqyT sisylanA

Report Date: 8/29/2005 11:33AM Refer to Page 1 for an explanation of Remark Codes

## i ZA

## Survey Name: Vestal Well 1-1 [07/05]

Project Number: 05070i)16

\*Sorted By Sample ID

Date Received: 748/2005

Field/Station ID: EFFLUENT

VC05659

Matrix: Aqueous

Sample Description:

J/gu .∉	-nos:0		1330-50-1 LOLVE XALENES
J/gu	U02,0	***	000087616 1,2,3-TRICHLOROBENZENE
T/gu 🔭	: 10°00	and the second	000001503 NYbHLHYTENE
J\gu	U02.0		87-68-3 HEXACHLOROBUTADIENE
Д/8n .	105.0 ·		000150851 1,2,4-TRICHLOROBENZENE
J/gu	U02.0		000000178 1,2-DIBROMO-3-CHLOROPROPAUE
J/gu , , , ,	- nos o		000104218 N-BOLATBENZENE
∏/gu	Nos.o		0000008876 4-ISOPROPYLTOLUENE
J/gn	109 0 V		000002201 1'T-DICHTOROBENZEME
J/gu	U02.0		000100467 1,4-DICHLOROBENZENE
J/Sn 🐫	a nosio		000241/31 1'3-DICHLOKOBENZENE =
J\gu	U02.0		132-68-8 SEC-BOLATBENZENE
7/8n	0.500		000002020 1'7'4-TRIMETHYLBENZENE
J\gu	J102,0		0000080000 LEKL-BOLATBENZENE
J/gu ':	U02.0		000108678 1,3,5-TRIMETHXLBENZENE
<b>ე/</b> 8n	U02.0		109-43-4
- 1/8n <sub>3</sub> (4)	≱knos o 🚛		0000092408 5-CHTOROLOTOENE
J/gu	U02.0		000103e21 N-PROPYLBENZENE
J/8u	005'0"		00001634\$ 1'T'S'S-LELKYCHFOROELHYNE **
ე/8n	U02.0		000096184 1,2,3-TRICHLOROPROPANE
T/du	* 1005.0	rana y <del>a </del> wa ya sa k	000108891 BKOWOBENZENE **** * * * * * * * * * * * * * * * *
J\gu	105.0		000068878 ISODKODALBENZENE
7/8n/3/	₹.005.0 4		000015252 BROMORORM
J∕gu	Ω05.0		000100452 SLABENE
J/gn			0000062416 O-XALENE
J/gu	U02.0		001330707 M/P-XXLENE
T/an th	**************************************	Magazia de la filo	100-41-√ ELHALBENZENE
J\gu	U08.0	naderiener stolle betreit der reiter	000e3050e 1'1'1'S-LELKYCHTOKOELHYNE
- 7/8n, ∗, ;	⊕ U08.0, %		000108001 CHTOROBENZENE
J/gu	U0,1		000201J80 T-HEXVNONE
Tydn	+1105.0		000106934 1,2-DIBROMOETHANB.
J\gu	U02.0		000124481 DIBROMOCHLOROMETHANE
<u>stinU</u>	Codes	Result	CAS Number Analyte Name
	Remark_		Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Date: 9-2-05

Project Approval: Refer to Page 1 for an explanation of Remark Codes

Page 5 of 5

Report Date: 8/29/2005 11:33AM



14 July 2005 RAC II-2005-107

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 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the May 2005 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 in auto mode for the entire month. A summary of the operation and maintenance activities performed during May is as follows:

- · Routine inspections of the facility were performed;
- Pumps were checked and lubricated;
- Air filters were cleaned or replaced;
- · Grass was mowed four times;
- The pump house was painted; and
- The monthly influent and effluent samples were collected.



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## **B.** Operational Data

The following table presents operational data for the year 2005, arranged by month:

Month	Operating Days	Average flow Meter%	Average flow rate (gpm)	Amount of groundwater treated (mg)			
January	31	47	541	24.2			
February	28	46	529	21.3			
March	31	45	517.5	22.4			
April	17	48	552	13.5			
May	31	*	*	*			
Volume of groundw	81.4*						
Volume of groundw	Volume of groundwater treated for the OU-1						

<sup>\*</sup>The float control valve is not closing completely, preventing the flow meter from operating correctly. A replacement will be ordered.

gpm - gallons per minute mg - millions of gallons

## C. Comparison of Influent and Effluent Concentrations with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of May 2005 are included in Attachment 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

	Discharge		Influent Concentration (ug/L)						Effluent Concentration					
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(ug/L) January
Vinyl Chloride	2	3.5	3.9	3.4	4.4	4.1								0.5 U
Chloroethane		0.5	0.6	0.5	0.73	0.59								0.5 U
1,1-Dichloroethene*	5	13	9.3	8.4	11	12								0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1	2.9	2.6	3.2	2.6								0.5 U
Acetone		1.0 U	2.3	1.0 U	1.0U	1.0U					,			1.0 U
Trans 1,2-Dichloroethene*	5	0.5 U	0.5 U	0.5 U	0.5U	0.5U								0.5 U
Methyl Tert-Butyl Ether		4.7	4.3	4.3	3.9	4.2								2.2
1,1-Dichloroethane	5	18	17	17	24	17								2.0
Cis-1,2-Dichloroethene*	5	50	46	46	54	47								6.6
Chloroform	7	0.5 U	0.5 U	0.5 U	0.5U	0.5U								0.5 U
1,1,1-Trichloroethane*	5	110	120	110	140	110								5.3
Trichloroethene*	5	43	40	40	47	39								3.1
Total Volatile Organics*	100	245.8	246.3	232.2	288.23	236.49								19.2

Note:

ug/L = micrograms per liter \* = Site Contaminant of Concern U = Below Reporting Limit

NS = Not Sampled

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				٠

#### D. Next Month's Activities

The following activities are planned for June 2005:

- · Repair chlorinator pipe;
- · Repair actuator valve;
- Restore phone service (interrupted during flooding); and
- · Perform monthly performance monitoring sampling.

#### E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8412 if you should have any questions.

Sincerely,

Wendy DeMaio

Project Manager

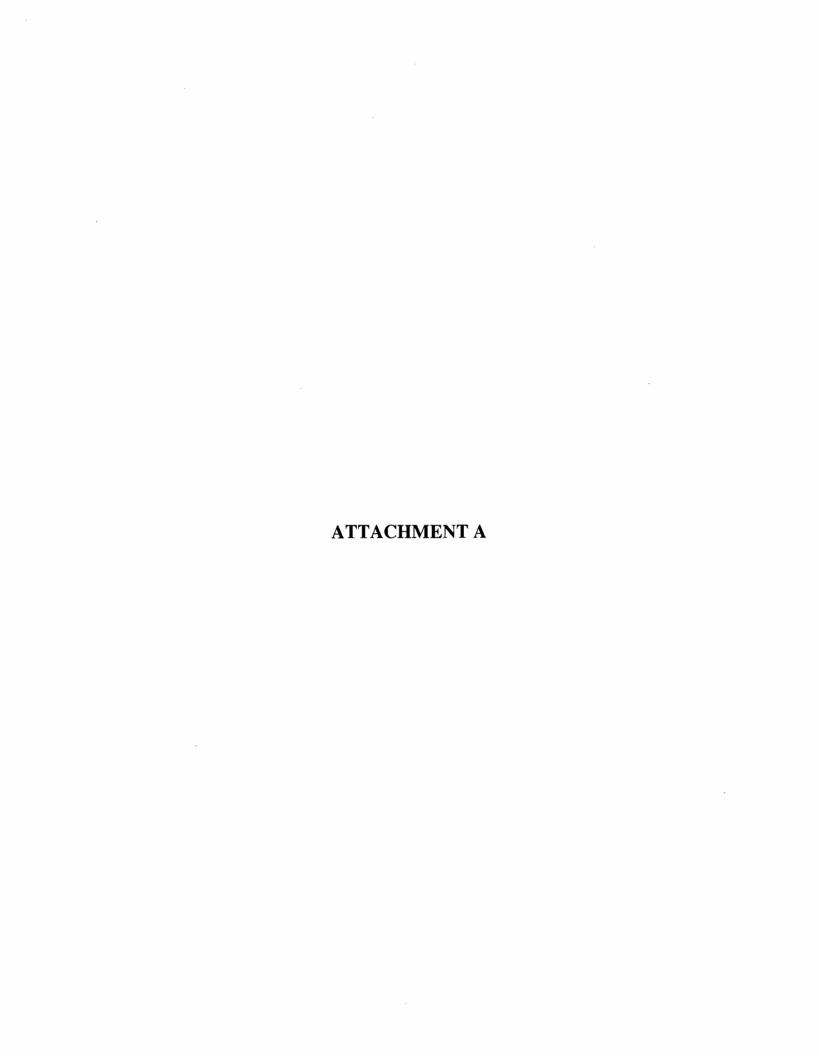
Attachment

cc: M. Dunham (N

Wendy DeMais

(NYSDEC)

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		,	
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			·



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## <u>Case Narrative:</u> Vestal 1-1, #05050021

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

## Comment(s):

None

## Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs) for each analyte requested.

## Method(s):

Low Level Volatile Organic Analysis, ESAT-SOP-132 (GC/MS Method).

Approval: Q R. Ase Date: 7-5-05

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## U.S. Environmental Protection Agency Region 2 Laboratory

Data Report: Vestal Well 1-1 [05/05]

Project Number: 05050021

Program: Y206E

Project Leader: L. Arabia

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

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		<i>y</i>	

Project Number: 05050021

\*Sorted By Sample ID

AG01192

Field/Station ID: INFLUENT

Date Received: 5/13/2005

Matrix: Aqueous

Sample Description:

Analysis Type: VOA	GCMS LOW LEVE	L DRINKING WATER
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Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	<u>Result</u>	Codes	<u>Units</u>
7541=4	្ត្រីៗ ប្រជុំដំណើសស្រី មាន ស្រី ស្រី ស្រី ស្រី ស្រី ស្រី ស្រី ស្រី			
000074873	CHLOROMETHANE	<del></del>	0.50U	ug/L
2000750740	BROMOMETHANE		0.500	
000074839	The state of the s		0,500	ug/L
000075694	TRICHLOROFLUOROMETHANE		0.501	ue/L
000075554	AMERICANO CONTROL VICENCE CONTROL CONT		San San San San San	
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	2.6		ug/L
000075150	ed average and a construction of the construct			
000067641	ACETONE		1.00	ug/L
70-20-9				
000075092	METHYLENE CHEORIDE		0.50U	ug/L
001634044	METHYL TERT-BUTYL ETHER	4.2	and the second second second second	ug/L
000075343	bl-BIGHLORGERIANIA.	17		ug/L
000156592	CIS-1,2-DICHLOROETHENE	47		ug/L
594-20-7	22:DICHEOROPROPANE		0.50U	ug/L
000078933	2-BUTANONE	and all some a filler	1,0U	ug/L
	ASSING MEDICAL PROPERTY OF A STATE OF A STAT			
000067663	CHLOROFORM		0.500	ng/b
110.00	SACHMAR (CHI PROBLEM AND SAPAMA AND AND AND AND AND AND AND AND AND AN		0.500	And the second
110-82-7			920Q	ug/L
000563586	IN-DICHLOROPROPENE	4 (4) (2) 1 <u>20</u> 41 w	0.500	ug/L
OCCUPATION OF THE PARTY OF THE	PETERSON CO.			
000107062	1,2-DICHLOROETHANE	e divini de la companya de la compa	0.500	ug/E
ALCOHOL: A CAMPAGE AND A CAMPA	Enviolation Konstantian and the Karaman with the contraction of the co			
108-87-2	METHYLCYCLOREXANE		0.50U	ug/L
000074953	DIBROMOMENHANIE		0.500	
000074933 Mass Repaires and the	SERVINGED IN THE PROPERTY OF T		6,300	ug/b
010061015	CIS-1,3-DICHLOROPROPENE	erak New Son Bresse	0.50U	ug/L
SAN SANGAMANIK (ORGA				
000108883	TOLUENE		0.50U	ug/L
c. 010061026	TRANS-IS-DICELOROPROPENE		0.500	ug/L
000079005	1,1,2-TRICHLOROETHANE		0.50U	ug/L
14 - 15 - 000 00 00 00 00 00 00 00 00 00 00 00	TENRACHECKO PHILIPPE		0.50U	nā/T
000142289	1,3-DICHLOROPROPANE		0.500	ug/b
000124451a.a 000106934	Sales (S) A (SCATE DIX S) ARE THANKS 1,24DIBROMOETHANE		0.50U	ug/L
000100954	1,2-DIDROMOE FIANE			
000108907	CHLOROBENZENE		0.50U	ug/L
THE RESERVE OF THE PARTY OF THE	, the state of the	the victimists, identic received the delay state of the	and the second section in the second	

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Project Number: 05050021

\*Sorted By Sample II

AG01192

Field/Station ID: INFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 5/13/2005

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark	
CAS Number	Analyte Name	Result	Codes	Units
V 2006\$0206	S-PANALOGERGRACHLOROERHANE COMPANY	The same	. 0.50U	e le negle
100-41-4	ETHYLBENZENE	of white production is the state of the stat	0.50U	ug/L
001330202	M/R-XXD END O-XYLENE		0.50U	ug/L
000100425	STYRENE	 Vinis Constant and Alberta	0.500	ag/L
000075252	BROMOFORM		0.50U	ug/L
**************************************	SINGEROPEESERVERE			
000108861	BROMOBENZENE	e krajovski stalicije	0.50H	ug/L
000079345	SIN 22-TETRACHEOROBIHANE		0.500	uv/L
000079345	N.PROINTENZEN			
000095498	2-CHLOROTOLUENE		0.501	ug/L
100-43-4		energia de la magneta de la como		gatelli i kanang ita
000108678		and the second s	0.500	ug/E
000098066 000095636	TERTABUTYEBENZENE 1.2.4-TRIMETHYEBENZENE	de construit de la construit d	0.500 t 0.500	ng/L
1000/0100	INTERNATIONAL PROPERTY.			
000541731	1,3-DICHLOROBENZENB	据设置于1984年1984年1984年1984年1984年1984年1984年1984年	0.500	ug/L
348 34 00000646915	ing selating that the contraction of the contractio			kenig(la <sub>ke</sub>
000095501	1,2-DICHLOROBENZENE		0.50U	ug/L
000099875 000104518	AJSOPROPYLITOLIUSWE N-BUTYLBENZENE	Managar Bankin and <del>an</del> thochiologic	0.50U 0.50U	ug/L
000104518	A DIBROKOBATI BOROPROPANE	er i de la companya d	0.500	igh.
000120821	1,2,4-TRICHLOROBENZENE		0.50U	ug/L
144 - 87683 Maria	LIEVAGEI OROBITTADIISMO	<mark>New Production (1984)</mark>	-OLSON	
000091203	NAPHTHALENE COMPANY OF THE COMPANY		0/50U+	nalr
1330-20-7	en la		0.500	ug/E
	SPECIFANDOS DIO EL TORO DE OSTRIBUER DE SESSO			

AG01193

Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 5/13/2005

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Page 3 of 5

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Project Number: 05050021

\*Sorted By Sample ID

AG01193

Field/Station ID: EFFLUENT

Date Received: 5/13/2005

Matrix: Aqueous

Sample Description:

CAS Number   Analyte Name   Result   Codes   Units   T5-43-4   DICHLORODIFLUOROMETHANE     0.50F   tig/L	Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark	
T5-43-4   DICHLORODIFLUOROMETHANE	CAS Number	Analyte Name	Result		Units
O00075014		<del></del>		0.50U	ue/L
000075014					THE RESERVE AND ADDRESS OF THE PARTY OF THE
000075003   CHLOROETHANE				0.500	ug/L
000075594   TRIGHEOROFISIORICHENE   050U ug/L   000075354   1,1-DICHLOROETHENE   0.50U ug/L   050075354   1,1-DICHLOROETHENE   0.50U ug/L   000075150   CARBON DISULFIDE   0.50U ug/L   000075150   ACETONIC   0.50U ug/L   000056245   ACETONIC   0.50U ug/L   00005600   METHY LACETATE   0.50U ug/L   00005605   TRANS-1,2-DICHLOROETHENE   0.50U ug/L   00005605   TRANS-1,2-DICHLOROETHENE   0.50U ug/L   000075343   1,1-DICHLOROETHENE   0.50U ug/L   000075343   1,1-DICHLOROETHENE   2,0 ug/L   0000756592   CICLEDIGEOROETHENE   0.50U ug/L   0000756592   CICLEDIGEOROETHENE   0.50U ug/L   000075935   BUNNES   000074975   BROMOCHLOROMETHENE   0.50U ug/L   000074975   BROMOCHLOROMETHENE   0.50U ug/L   000074975   BROMOCHLOROMETHENE   0.50U ug/L   000056235   CARBON TETRACHLORIDE   0.50U ug/L   000056235   000056235   000056235   000056235   000056235   000056235   000056235   000056235   000056235   000056235   000056235   000056235   000056235	000074889	REPORT OF THE PROPERTY OF THE			ACCUSATION OF THE PROPERTY OF
1,1-DICHLOROETHENE	000075003	CHLOROETHANE		0.500	ug/L
TB-151	000075694	TRICHLOROFILLOROMETHANE.	a de la companya della companya della companya de la companya della companya dell	0.50U	ug/L
O00075150   CARBON DISULFIDE	000075354	,	·	0.50U	ug/L
100   100	/4 / 76-120 b Satu			A STATE OF THE PARTY OF THE PAR	Berger Grand Committee and Committee and The Committee and
79-20-9       METHYL ACETATE        0.50U       ug/L         000055092       MERIFY I NEED ORDS        0.50U       ug/L         000156605       TRANS-1,2-DICHLOROETHENE        0.50U       ug/L         000075343       1,1-DICHLOROETHANE       2.0       ug/L         000156592       CIS-1,2-DIGHLOROETHANE       6.6       ug/L         594-20-7       2,2-DICHLOROPROPANE        0.50U       ug/L         000074975       BROMOCHLOROMETHANE        0.50U       ug/L         000074975       BROMOCHLOROMETHANE        0.50U       ug/L         71-55-6       1,1,1-TRICHLOROETHANE       5.3       ug/L         000056235       CARBON TETRACHLORIDE        0.50U       ug/L         000656235       CARBON TETRACHLORIDE        0.50U       ug/L	• •		enament visible a side en in englishe en in en	and a statement of address of the state of t	and the state of t
000005092   MISTIFICENEORIE   100000   100000   100000   100000   100000   100000   100000   100000   100000   10000			and the state of t	Secretaria de la companya del companya de la companya del companya de la companya del la companya de la company	6 c c c c c c c c c c c c c c c c c c c
000156605   TRANS-1,2-DICHLOROETHENE		어느 이 구현하게 하는 점에 이 잘 될수요? 나는 아니는 나는 사람들이 아니는 사람들이 어느 때문에 어느		ndu variable has elemente proportion of the confirmation of the co	
000075343		The state of the s	AND SERVICE OF SERVICE AND SER		Bill and Richard Said State and Billion Barbardian and an actual security.
000075343   1,1-DICHLOROETHANE   2.0   ug/L	and control of the co	是一个"可能性能性"。"我们的经验是我们的特殊是这些数据是那么都是那种的基础是我的,我们就是这种的人,我们就是一个"一个","你们的人,我们就是一个"一个"的		0.300	Control of the Contro
000156592   CIN-12-DREE-URGERIERS   5.6   ug/L			20	edianos (	SC2 Coll. Set Library Services (Fig. 1)
594-20-7 2,2-DICHLOROPROPANE — 0.50U ug/L  000074975 BROMOCHLOROMETHANE — 0.50U ug/L  000063664 CHROROMETHANE — 0.50U ug/L  71-55-6 1,1,1-TRICHLOROPTHANE 5.3 ug/L  000056235 CARBON TETRACHLORIDE — 0.50U ug/L  000056235 CARBON TETRACHLORIDE — 0.50U ug/L	100 Philipping 100 Ph		and the second s		and contraction of histories and an experience of the con-
000074975 BROMOCHLOROMETHANE — 0.500 mg/L 000074975 BROMOCHLOROMETHANE — 0.500 mg/L 71-55-6 1,1,1-TRICHLOROETHANE 5.3 mg/L 000056235 CARBON TETRACHLORIDE — 0.500 ug/L 000656235 CARBON TETRACHLORIDE — 0.500 ug/L	A STATE OF THE PROPERTY OF THE	A DESCRIPTION OF THE PROPERTY			A W Obs. 10.
000074975 BROMOCHEOROMETHANE — 0.508 mg/L  10508	1 4 7,400	W 11.13 11.13 11.13 11.13 11.13 11.13 11.13 11.13 11.13 11.13 11.13 11.13 11.13 11.13 11.13 11.13 11.13 11.13			
000006688 6HBOROREDO  71-55-6 1,1,1-TRICHLOROPTHANB 5.3 ug/L  10088 1008 1009 1009 1009 1009 1009 1009	<b>对这种是有关的人,但是不是不是不是的人,但是是是不是不是是不是不是是是不是是是是不是的。</b>		不是好的解析 阿拉斯	10500	üe/L
000056235 CARBON TETRACHLORIDE — 0.500 ug/L 0005655805 EUGELLORIDERORIS SEE SEE	and the second section of the second				The second secon
000056235 CARBON TETRACHIORIDE — U500 ug/L 000656-5866 : DESPERIORISM DESPENSE DES	71-55-6	1,1,1-TRICHLOROETHANE	- 1 A - 1 A - 5 3 A - 5 4 B	140	ug/L
THE RIGHTS SO THE PICTURE ROBERT TO MAKE THE RESIDENCE OF THE PROPERTY OF THE		CAN COLONY TO SEE THE COLONY T		William Co.	
	000056235			0.500	ug/L
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA				Traffic Sol	
	000071432	BENZENE		0.50U	ug/L
GOUTO7062 12-DIETECROFICIANE	一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一		file that the transfer	**************************************	AND THE PERSON OF THE PERSON O
025323891 TRICHLOROETHENE 3.1 ug/L				Aliente constant	
000078875 1,2-DICHLOROPROPANE — 0.50U ug/L	· · · · · · · · · · · · · · · · · · ·	·프로젝트 프라이어 아니는 그는 아니는 아니는 아니는 아니는 아니는 아니는 아니는 아니는 아니는 아니		AZNE.	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT
000074983 DIBROMOND 1971 18 2	7 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	,一个大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大	• • • • • • • • • • • • • • • • • • • •		and the same of th
000075274 BROMODICHLOROMETHANE 0.50U ug/L	为42500 Table 10 10 10 10 10 10 10 10 10 10 10 10 10		in de la companya de 	CONTRACTOR	da . wat attable and
BORD AND COUNTY OF ACTION OF THE PROPERTY OF T		1.5- Care No. 9-60-16 3. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.			
000108101 4-METHYL-2-PENUANONE - LOU ug/L				20000	THE REAL PROPERTY OF THE PARTY
100108883 FOLURI DE 100108883		The state of the s		The American State of	
010061026 TRANS-1,3-DICHLOROPROPENE 0.50U ug/L				1111 M	
00007900S LA2 TRICHEOROPHANE 119/	000079005	AND STRUCTURE OF THE OWNER OWNER OF THE OWNER OWNE	Market and the second second second	0.500	
000127184 TETRACHLOROETHENE - 0,50U ug/L	000127184	TETRACHLOROETHENE		0.50U	
SELECTION CARROLL AND CHILD ROPANT CONTRACTOR OF A SELECTION OF A		५,८सम्(असर्वे <b>रस</b> विद्यस्थाप्रस्था		HAME	

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Project Number: 05050021

\*Sorted By Sample ID

AG01193

Field/Station ID: EFFLUENT

Date Received: 5/13/2005

Matrix: Aqueous

Sample Description:

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark	
CAS Number	Analyte Name	Result	Codes	Units
000124481	DIBROMOCHLOROMETHANE		0.50U	ug/L
450444 - Q0Q1069340 -	# 125DBROMOSTFAND data the same and a second		nama salahan	
000591786	2-HEXANONE		1.0U	ug/L
000630206	1/11/2-TETRACHIOROETHANE		0.50U	ue/L
	STREEN SERVICE STREET			
001330207	M/P-XYLENB	KIN MATERIAL	0,50U	ug/L
000095474	* OPXIVE ENDOS PROCESSOR SE ESTADOS POR ES	MASSITI AND	Www.dellesson	
000100425	STYRENE	CONTRACTOR OF	0.50U	ug/L-
\$2400 more 1997	STREET OF THE STREET			
000098828 000108868	ISOPROPYLBENZENE BROMOBENZEN	markarian sa	0.50U	ug/L
000096184	123-TRICHLOROPROPANE		0.500	ug/E
SEE E 10000098951	AND CONTRACTOR OF THE			
000103651	N-PROPYLBENZENE	W 444	0.500	ug/E
7000023498	S440 (10 COS			
106-43-4	4-CHLOROTOLUENE		0.500	ug/L
000108678 000098066	1,3,5-PRIMETERABENZENE TERT-BUTYLBENZENE	<del></del>	<b>0.50U</b> 0.50U	ug/L
000098088	TERT-BUTTEDENZENE		0.300	ug/L
135-98-8	SEC-BUITYEBENZENE		0.50U	ug/L
CONCACTOR	ald-Dicensicinus/2000 again and a salara live and		SOME OF STREET	in Neda
	1,4-DICHLOROBENZENE	100	0.50U	ug/L
536555650000000000000000000000000000000	in Capiter (Cartes) (Capiter) (Capit			
000099876	4-ISOPROPYLTOLUENE		0:50Us. Se (0:50Us.	ug/L
000096128	1.2-DIBROMO-3-CHLOROPROPANE		0.500	ug/L
000120824	and the control of th			sample same
87-68-3	HEXACHLOROBUTADIENE	40 ·科曼数13	13- 0.50U 176	ug/L
BENEVEL STORY	RATIVITY TO THE TAXABLE TO THE TAXAB			
000087616	1,2,3-TRICHLOROBENZENE	<b>大学性的</b>	0.500	ig/E
	grafia jarunga			

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leport Date: 6/27/2005 4:05PM

Date: 7-5-15

Page 5 of 5



14 July 2005 RAC II-2005-106

Ms. Sharon Trocher
Work Assignment Manager
U.S. Environmental Protection Agency
290 Broadway, 20th 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 APRIL 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the April 2005 Monthly Performance Monitoring Report for the Vestal Water Supply Well treatment facility.

#### A. Monthly Operations

The treatment system at the Vestal Water Supply Well was shut down from 6 April through 11 April due to flooding in the area. Numerous attempts to re-start the system from 12 April through 19 April were not successful due to malfunctions with the clear well pump and blower system. On 20 April, the system was restarted in auto mode. The problem appears to be the result of mice short-circuiting the wiring. A summary of the operation and maintenance activities performed during April is as follows:

- Routine inspections of the facility were performed;
- Pumps were checked and lubricated;
- · Air filters were cleaned or replaced;
- Water was pumped out of the foundation after flooding;
- · The sump pump was replaced;
- The blower malfunction was repaired; and
- The monthly influent and effluent samples were collected.



		*

#### **B.** Operational Data

The following table presents operational data for the year 2005, arranged by month:

Month	Operating Days	Average flow Meter%	Average flow rate (gpm)	Amount of groundwater treated (mg)		
January	31	47	541	24.2		
February	28	46	529	21.3		
March	31	45	517.5	22.4		
April	17	48	552	13.5		
Volume of groundy	Volume of groundwater treated for 2005					
Volume of groundy	vater treated for th	ne OU-1		2684.8		

gpm - gallons per minute mg - millions of gallons

#### C. Comparison of Influent and Effluent Concentrations with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of April 2005 are included in Attachment 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

		Influent Concentration (ug/L)						Effluent Concentration						
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(ug/L) January
Vinyl Chloride	2	3.5	3.9	3.4	4.4									0.5 U
Chloroethane		0.5	0.6	0.5	0.73									0.5 U
1,1-Dichloroethene*	5	13	9.3	8.4	11									0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1	2.9	2.6	3.2									0.5 U
Acetone		1.0 U	2.3	1.0 U	1.0U									1.0 U
Trans 1,2-Dichloroethene*	5	0.5 U	0.5 U	0.5 U	0.5U									0.5 U
Methyl Tert-Butyl Ether		4.7	4.3	4.3	3.9									2.2
1,1-Dichloroethane	5	18	17	17	24									2.7
Cis-1,2-Dichloroethene*	5	50	46	46	54									8.1
Chloroform	7	0.5 U	0.5 U	0.5 U	0.5U									0.5 U
1,1,1-Trichloroethane*	5	110	120	110	140									7.3
Trichloroethene*	5	43	40	40	47									4.0
Total Volatile Organics*	100	245.8	246.3	232.2	288.23									24.3

Note:

ug/L = micrograms per liter

\* = Site Contaminant of Concern

U = Below Reporting Limit

NS = Not Sampled

#### D. Next Month's Activities

The following activities are planned for May 2005:

- Paint pump house, weather permitting;
- · Repair chlorinator pipe;
- · Repair actuator valve;
- Restore phone service (interrupted during flooding); and
- Perform monthly performance monitoring sampling.

#### E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8412 if you should have any questions.

Sincerely,

Wendy DeMaio

Project Manager

Attachment

cc: M. Dunham

Wandy DeMaic

(NYSDEC)

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			,



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# Case Narrative: Vestal 1-1. #05040039

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

## Comment(s):

None

# Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs) for each analyte requested.

# Method(s):

Low Level Volatile Organic Analysis, ESAT-SOP-132 (GC/MS Method).

Approval: Date: 7-5-05

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# U.S. Environmental Protection Agency Region 2 Laboratory

Data Report: Vestal Well 1-1 [04/05]

Project Number: 05040039

Program: Y206E

Project Leader: L. Arabia

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.
К	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

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Project Number: 05040039

\*Sorted By Sample ID

AG00872

Field/Station ID: INFLUENT

Date Received: 4/26/2005

Matrix: Aqueous

Sample Description:

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
75-48-4	DICHLORODIFLUOROMETHANE	and the same of the last	0.50U	ug/L
000074873 000075014	CHLOROMETHANE VINVI CHLORIDE	<del></del>	0.50U	ug/L
000074839	BROMOMETHANE		0.50U	ug/L
000075003	Caroroporania de la composición del composición de la composición			Manufle Man
000075694	TRICHLOROFLUOROMETHANE		0.50U	ug/L
76-13-1	2012EDIGHTORORUSEUSENE 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	372		us/L
745 A 346 (0) 1750 5 (151	A GARREON DISCUSSION			
000067641	ACETONE	$\pm$	1.0U	ug/L
79-20-9	PMISHED BY CALLY II		30 30 30	
000075092	METHYLENE CHLORIDE		0.500	tig/Li
001634044	METHYL TERT-BUTYL ETHER	3.9		ug/L
******* ODOG75343k)	TEDUSTROCKOPERENCE AND A CONTROL OF A CONTRO			
000156592	CIS-1,2-DICHEOROETHENE	54		ug/L
000078933	2-BUTANONE		1.00	υάγγ
00007075	BROWROUGOROMEDEZAREA SA SA SE SE SE			
000067663	CHLOROFORM	-	0.50U	ug/L
71-51-6 110-82-7	CYCLOHEXANE			12
110-62-7	CARRONAL CHARGE CRIDE AS A CONTROL OF THE CONTROL O		0.50U	ug/L
000563586	I.1-DICHLOROPROPENE		0.50U	ug/L
	GERTALIO ESCUENCIA CON EL SOCIO DE LA COMPANSA DE			
000107062	1,2-DICHLOROETHANE	in the state of th	.0:50U	tig/L
108-87-2	METHYLCYCLOHEXAND		0.500	ig/L
24 / 5 × 00000083745 (c)	energy (ext. 6); (one (dir-tweet) extent of the control of the con			
000074953	DIBROMOMETHANE		0.500	ug/la
9000/52/74 010061015	SEROM(10) (ASTROPORO PENERAL SERVICES S		050U	ug/L
	CONTRACTOR OF STREET		1 13	
000108883	TOLUENE		_ 0.510EF < ,;<	ng/E
	Particular (Springer)		0.200	
000079005	1,1,2-TRICHEOROETHANE		0.5010	ug/L
000142289	1,3-DICHLOROPROPANE		0.5011	ug/L
A-44-7 (000224884)	DELLEK (SINO), SELES OK (SIN) VIOLET VIOLET (SINO) (SINO) SELES (SINO) (SINO) SELES (SINO) (SINO) SELES (SINO)	<b>Kalenar</b>	0.50	THE PLANT
000106934	1,2-DIBROMOETHANE		0.500	ug/L
000591786 000108907	CHLOROBENZENE		0:50U	ug/C
in to Dear I Commentered	on of Pamork Codes	And the Control of th	CONTRACTOR CONTRACTOR	April 18 March 19 Mar

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ort Date: 6/27/2005 3:44PM

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Project Number: 05040039

\*Sorted By Sample ID

AG00872

Field/Station ID: INFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 4/26/2005

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Analysis Type: V	UA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
000630206	- LEGIZ TETRACHEOROETHANE			
100-41-4	ETHYLBENZENE		0.500	ug/L
000095476	O-XYLENE		0.500	ug/L
\$200 x 500 000000000000000000000000000000				
000075252	BROMOFORM		0.500	ug/L
00008888	MASSIER PROBLEMS IN			
000108861	BROMOBENZENE  A CHECKER OF CP.		0.50U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE		0.50U	ug/L
- 000103650k	AN EROPYPEROXENIA SALESCE AND AN AND AND AND AND AND AND AND AND			
000095498	2-CHLOROTOLUENE		0.500	ug/L
000108678	Section (Octobal) and the section of			
500 500 62 0000 8 022	1,3,5-TRIMETHYLBENZENE		0.500	ng/E
000095636	24-FRIMETHYEBENZENE		Se0/50(0)	in/E
77. E 153598-96-96	CANCELLE INSTITUTE CAUCHE CONTRACTOR OF THE CONT			
000541731	1,3-DICHLOROBENZENE			ng/L
000106460 000095501	1,2-DICHLOROBENZENE		0.500	
000099876			1020/12/2007	OFAL THE STATE OF THE STATE OF
000104518	N-BUTYLBENZENE	100 TTC	0.500	ug/L
	SILES DER (OSO EN EL COLO DE ORGENS PER LA COLO DE LA C			
000120821	L2,4-TRICHLOROBENZENE	<del>- 1</del>	0.500	ug/L
000091203	NAPHTHALENE		0.501	we/L
000087616	PRESENTATION OF THE PROPERTY O	AND WAR		MATERIAL STATES
1330-20-7	TOTAL XYLENES	5 = 1	0.500	ug/L
	BHANELMAD (CHEOROS INCAPATRICICAZ A LA CALLACA	2007	STAN STAN	

AG00873

Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 4/26/2005

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port Date: 6/27/2005 3:44PM

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Project Number: 05040039

\*Sorted By Sample ID

AG00873

Field/Station ID: EFFLUENT

Date Received: 4/26/2005

Matrix: Aqueous

Sample Description:

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
75-43-4	DICHLORODIFLUOROMETHANE	Carrottan <del>ina</del> anse	0.50U	ug/L
000074873	PORTOROWING AND ASSESSED ASSESSED AND A SECOND	ard vestigati		STATE CHESTOR
000075014	VINYL CHLORIDE	· ·	0.50U	ug/L
000074889	BROKOKOKO	A Company of the		
000075003	CHLOROETHANE		0.500	ug/L
000075690 S	ATRICET OROBUTOROLVICARION AND AND ASSESSMENT OF THE STATE OF THE STAT			
0000/3334 66186Raba			0.500	ug/L
000075150	CARBON DISULTIDE		0.500	uyle.
000067648-2	NACOTER CONTROL OF THE PROPERTY OF THE PROPERT			
79-20-9	METHYL ACETATE		0.50U	ug/L
	METALENI CHEPIDES SALVOES SUIS SAVARES		<b>MEGISTURES</b>	
000156605	TRANS-1,2-DICHLOROETHENE	ilinga a sa S <b>T</b> E ya sa ƙ	0.50U	ug/L
C*** ** 0016X046#	AND THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE PART			
000075343	I,1-DICHLOROETHANE	2.7		ug/L
000 50024	YOKI DEDICINARYE DIROK		Andrew Andrew	
594-20-7 000078933	2,2-DICHLOROPROPANE		0.50U	ug/L
000074975	BROMOCHLOROMETHANE	AND THE THE SHALL BE WELL AND THE	1.0U 0.50U	ug/L
000074373	CHOROLORM		0.50U	ug/L ug/L
71-55-6	1,1,1-TRICHLOROETHANE	7.3		ug/L
140-8297	AVOICHTEVANIES PROSEST SCHOOL - 19 16 JUNE 18 200			
000056235	CARBON TETRACHLORIDE	300 - 7 <u>420</u> 73	0.50U	ug/L
00056,586	ACCURATION PROPERTY AND ACCURATE OF THE PROPERTY OF THE PROPER			
000071432	BENZENE	40	0.500	ug/L
(0)(0)(0)(0)(0)(0)(0)				
025323891	TRICHLOROETHENE	4.0		ug/L
000078875	1.2-DICHLOROPROPANE		0.500	. 109/L
AND TOTAL SALES	Maintistan Atalatan ta a sa	Angele - Control Man	10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (	
000075274	BROMODICHLOROMETHANE	Color Colors	0.50E-	t-up/k
0100610136	GINDAGDICHDORABICODONES CARACTA AND AND AND AND AND AND AND AND AND AN		4.311	
000108101	4-METHYL-2-PENTANONE		1.002	ug/L
000108886	FIGURIAN SERVICES ASSESSED FOR SERVICES AND		PERSONAL SELECTION	NOTIFICATION OF THE PARTY OF TH
010061026	TRANS-1,3-DICHLOROPROPENE		0.500	ug/L
000079005	Folkalita(Grita)Korrationalita (A. 2007)		200 <b>(</b> ()	
000127184	TETRACHLOROETHENE	4	0.50U	ug/L
000142289	13-DICHLOROPROPANELAN ASSETTING	kide distant	41- <b>05004</b>	r ug/L:

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port Date: 6/27/2005 3:44PM

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Project Number: 05040039

\*Sorted By Sample ID

AG00873

Field/Station ID: EFFLUENT

Date Received: 4/26/2005

Matrix: Aqueous

Sample Description:

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
000124481	DIBROMOCHLOROMETHANE		0:50U	ug/L
.000106934	12-DIBROMOETHANE 2-HEXANONE		eren er	100 100 100 April 100 Apri
000591786	CHLOROBENZENES CONTRACTOR		1.00	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	<b>—</b>	0.500	ug/L
PARTY INDAMES	MEISEA, UREZARNO			Manual Contract of the
001330207	M/P-XYLENE	<del></del>	0.50U	ug/L
00009\$476 000100425	CEXMENT STYRENE		0.50U	ug/L
000073252	641K0M0140K0			
000098828	ISOPROPYLBENZENE	San Carata San San San San San San San San San Sa	0.50U	ug/L
4.45 000108860K 2	EBROMOBINZIUSE HER HERENE AUTOMO			
000096184	1,2,3-TRICHLOROPROPANE	<del></del>	0.50U at 1	ng/E <sub>s</sub> .
000103651	N-PROPYLBENZENE /	NEEDS CARREST IN THE STREET	40.5010	ing/i
898.51 (2000) 0000 0000 0000 0000 0000 0000 00	PROBERONO CONTRACTOR CONTRACTOR STATES			
106-43-4	4-CHLOROTOBUENE		· 0.50(a - ·	109/12
000703678	ADER STANDER DE MENER DE LE MAN DE L			
000098646	ACCOMPANIES AND ACCOMPANIES		Usalites 1 - (1)	pg <b>L</b>
135-98-8	SEC-BUTYLBENZENE		0.50U	ug/E
	જુનકથ આણામાં ભારત માને જુના કરતા કરતા કરતા કરતા કરતા કરતા કરતા કરત		4 - 191/1917	5,71.
000106467	1.4-DICHLOROBENZENE	in the second second	0.500	ug/L
000099876	4-ISOPROPYLTOLUENE		0.501	uell
00010858	Northwey Turking Alexanders			
000096128	1,2-DIBROMO-3-CHLOROPROPANE		0.500	ug/L
000120813070	HEXACHLOROBUTADIENE	and the second s	A COLL	
87-68-3 900091203-	NAPATHALENE		0.50U 0.500	ug/L
000087616	1,2,3-TRICHLOROBENZENE		0.50U	ug/L
	TOTALDXYLENES ESTATES OF A STAN	A STATE OF THE STA	PER KATAMAN	

'roject Approval:

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Date: 7-5-05

Page 5 of 5

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13 May 2005 RAC II-2005-072

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 MARCH 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the March 2005 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 in manual mode for the entire month. A summary of the operation and maintenance activities performed during March is as follows:

- Routine inspections of the facility were performed;
- Pumps were checked and lubricated;
- Air filters were cleaned or replaced;
- Snow removal activities were performed;
- System adjustments were made to restore auto mode of operation (this was not successful); and
- The monthly influent and effluent samples were collected.



#### **B.** Operational Data

The following table presents operational data for the year 2005, arranged by month:

Month	Operating Days	Average flow Meter %	Average flow rate (gpm)	Amount of groundwater treated (mg)
January	31	47	541	24.2
February	28	46	529	21.3
March	31	45	517.5	22.4
Volume of groundwater treated for 2005				67.9
Volume of groundwater treated for the OU-1				2671.3

gpm - gallons per minute mg - millions of gallons

#### C. Comparison of Influent and Effluent Concentrations with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month March 2005 are included in Attachment 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

	Discharge				Influ	ent Co	ncentra	ation	(ug/L	)				Effluent Concentration
	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(ug/L) January
Vinyl Chloride	2	3.5	3.9	3.4										0.5 U
Chloroethane		0.5	0.6	0.5										0.5 U
1,1-Dichloroethene*	5	13	9.3	8.4										0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1	2.9	2.6										0.5 U
Acetone		1.0 U	2.3	1.0 U										1.0 U
Trans 1,2-Dichloroethene*	5	0.5 U	0.5 U	0.5 U										0.5 U
Methyl Tert-Butyl Ether		4.7	4.3	4.3										1.8
1,1-Dichloroethane	5	18	17	17										2.5
Cis-1,2-Dichloroethene*	5	50	46	46										7.3
Chloroform	7	0.5 U	0.5 U	0.5 U										0.5 U
1,1,1-Trichloroethane*	5	110	120	110										7.2
Trichloroethene*	5	43	40	40										4.0
Total Volatile Organics*	100	245.8	246.3	232.2										22.8

Note:

ug/L = micrograms per liter
\* = Site Contaminant of Concern
U = Below Reporting Limit
NS = Not Sampled

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#### D. Next Month's Activities

The following activities are planned for April 2005:

- Paint pump house, weather permitting;
- · Repair chlorinator pipe;
- Replace sump pump in basement;
- Troubleshoot auto mode system; and
- · Perform monthly performance monitoring sampling.

#### E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8412 if you should have any questions.

Sincerely,

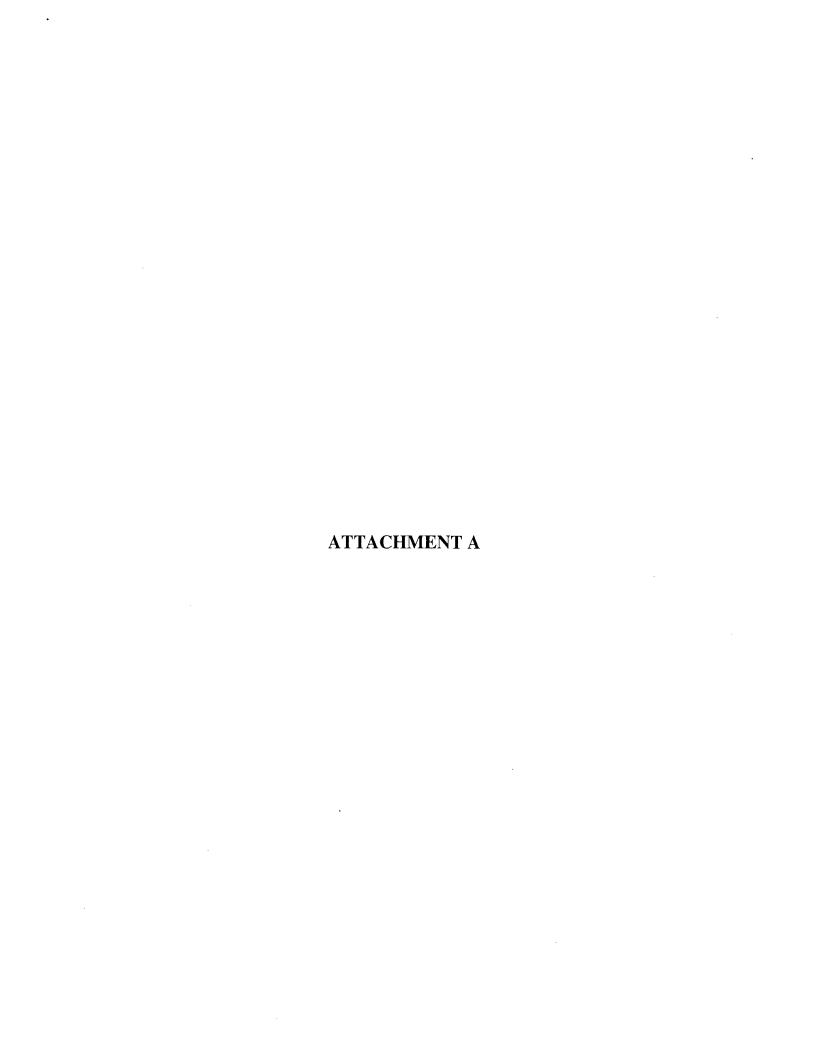
Wendy DeMaio

Project Manager

Attachment

cc: M. Dunham (NYSDEC)

Lebendy De Mais



## <u>Case Narrative:</u> Vestal 1-1. #05030011

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

#### Comment(s):

None

# Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs) for each analyte requested.

# Method(s):

Low Level Volatile Organic Analysis, ESAT-SOP-132 (GC/MS Method).

Approval: \_\_\_\_\_\_\_ Date: 4-23-05

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# U.S. Environmental Protection Agency Region 2 Laboratory

Data Report: Vestal Well 1-1 [03/05]

Project Number: 05030011

Program: Y206E

Project Leader: L. Arabia

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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

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Project Number: 05030011

\*Sorted By Sample ID

AG00432

Field/Station ID: INFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 3/4/2005

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
75-43-4	DICHLORODIFLUOROMETHANE		0.50U	ug/L
000074873	CHLOROMETHANE	7.54 <del></del>	0.50U	ug/L
000075014	VINYL CHLORIDE	34	43.3	wug/L
000074839	BROMOMETHANE	A Walter The Control	0.50U	ug/L
000075003	CHLOROETHANE	0.50	A Addition	ug/L
000075694	TRICHLOROFLUOROMETHANE		0.50U	ug/L
000075354	1,1-DICHLOROETHENE	8.4		ug/L
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	2.6		ug/L
000075150	CARBON DISULFIDE		0.50U	ug/L
000067641	ACETONE	- <del></del>	1.0U	ug/L
	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	4.3	100	ug/L
000075343	1,1-DICHLOROETHANE	17		tig/L
000156592	CIS-1,2-DICHLOROETHENE	46	9897 YY	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	<del></del>	0.50U	ug/L
	CARBON TETRACHLORIDE	1. 1/14: - <del></del>	0.50U	ug/L
	1,1-DICHLOROPROPENE		0.50U	ug/L
000071432	BENZENE		0.50U	ug/L
000107062	1,2-DICHLOROETHANE		0,50U	ug/L
025323891	TRICHLOROETHENE	40	A A. Sandala	ug/L
108-87-2	METHYLCYCLOHEXANE	Carrie Commence and Carrie Commence	0.50U	ug/L
	1,2-DICHLOROPROPANE	2.1	0.50U	ug/L
000074953	DIBROMOMETHANE	and the second second	0'.50U	ug/L
+ 000075274	BROMODICHLOROMETHANE	(1992年) (19 <del>27年)</del> (1	120,50U	ing/L
010061015	CIS-1,3-DICHLOROPROPENE	roder and the second	0.50U	ug/L
000108101	4-METHYL-2-PENTANONE		11.0U/SE-0	ug/L
000108883	TOLUENE		0.50U	ug/L
010061026	TRANS-13-DICHLOROPROPENE	14 PM 14 PM	0.500	180 <u>0</u> /E
000079005	1,1,2-TRICHLOROETHANE	70	0.50U	+ ug/L
000127184	TETRACHLOROETHENE	that the Library	0.50U	ue/L
000142289	1,3-DICHLOROPROPANE		0.50U	ug/L
000124481	DIBROMOCHLOROMETHANE	达加 经无证证	0.500	ug/L
- 000106934	1,2-DIBROMOETHANE	<u></u>	0.50U	ug/L
000591786	2-HEXANONE *4 * S. J. 2		1.00	ug/L
1944年 000108907	CHLOROBENZENE	<del></del>	0.50U	ug/L

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Report Date: 4/7/2005 3:34PM

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Project Number: 05030011

\*Sorted By Sample ID

AG00432

Field/Station ID: INFLUENT

Date Received: 3/4/2005

Matrix: Aqueous

Sample Description:

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

		Remark_	
CAS Number Analyte Name	Result	Codes	<u>Units</u>
000630206 1,1,1,2-TETRACHLOROETHANE		0.50U	ug/L
100-41-4 ETHYLBENZENE		0.50U	ug/L
001330207 MP-XYLENE		0.50U	ug/L
000095476 O-XYLENE		0.50U	ug/L
000100425 STYRENE +		0.50U	ng/L
000075252 BROMOFORM	1 <del>1.</del> 1. 1.	0.50U	ug/L
000098828 ISOPROPYLBENZENE		0.50U	- ug/L
000108861 BROMOBENZENE		0.50U	ug/L
- 000096184 1,2,3-TRICHLOROPROPANE	144	0.50U	ug/L
000079345 1,1,2,2-TETRACHLOROETHANE	1 <del>1 1 1</del> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.50U	ug/L
000103651 N-PROPYLBENZENE	A CAPACITA	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	2	0.50U	Fug/L
000095636 1,2,4-TRIMETHYLBENZENE	1 <del>1</del> 13	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.		0.500	ug/L
000104518 N-BUTYLBENZENE		0.50U	ug/L
000096128 1,2-DIBROMO-3-CHLOROPROPANE		0.500	ug/L
000120821 1,2,4-TRICHLOROBENZENE	#	- 0.50U	ug/L
87-68-3 HEXACHLOROBUTADIENE		0.500	-fife\T
000091203 NAPHTHALENE		0.50U	ug/L
000087616 1,2,3-TRICHLOROBENZENE	2073	0.50UF	t. Pg/L
1330-20-7 TOTAL XYLENES		0.50U	ug/L
ETHANE,1,2-DICHLORO-1,1,2-TRIFLR,RT=4.56	0.55	ŊJ	ug/L ==

AG00433

Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 3/4/2005

lefer to Page 1 for an explanation of Remark Codes

Report Date: 4/7/2005 3:34PM

Project Number: 05030011

\*Sorted By Sample ID

AG00433

Field/Station ID: EFFLUENT

Date Received: 3/4/2005

Matrix: Aqueous

Sample Description:

Analysis Type:	VOA GCMS	LOW LEVEL	DRINKING	WATER
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Analysis Type: V	OA GEMS LOW LEVEL BIGING WATER		Remark_	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
75-43-4	DICHLORODIFLUOROMETHANE	36.4.1 - <del>11</del> -	0.50U	ug/L
000074873	CHLOROMETHANE	438 1	0,50U	ug/L
000075014	VINYL CHLORIDE	11 to 1	0.50U	ug/L
000074839	BROMOMETHANE	3. 4. 5. 4. <del>4.</del> 4. 4. 4.	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	4.1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		0.50U	ug/L
000075150	CARBON DISULFIDE	· 基本	0.50U	ug/L
	ACETONE		1.00 *	iig/L
79-20-9	METHYL ACETATE	wall from the first of the second	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	1.8		ug/L
000075343	1,1-DICHLOROETHANE	2.5		ug/L
000156592	CIS-1,2-DICHLOROETHENE	7,3		ug/L
594-20-7	2,2-DICHLOROPROPANE	<u>. 4 ( </u>	,0.50U	ug/L
000078933	2-BUTANONE		1.0U	ug/L
000074975	BROMOCHLOROMETHANE	6. (1. (1. (1. (1. (1. (1. (1. (1. (1. (1	0.50U	ug/L
. 000067663	CHLOROFORM	的 多数	0.50U+ **	ug/L
71-55-6	1,1,1-TRICHLOROETHANE	7.2		ug/L
110-82-7	CYCLOHEXANE		0.50U	i ug/L
000056235	CARBON TETRACHLORIDE		0.50U	ug/L
000563586	i,1-DICHLOROPROPENE		0.50U	ug/L
000071432	BENZENE		0.50U	ug/L
000107062	I,2-DICHLOROETHANE		0.50U	ug/L
025323891	TRICHLOROETHENE	4.0		ug/L
108-87-2	METHYLCYCLOHEXANE		0.500	r tig/L
000078875	1,2-DICHLOROPROPANE	and the second s	0.50U	ug/L
000074953	DIBROMOMETHANE	BARA BALATA	0.50U	ug/L
000075274	BROMODICHLOROMETHANE	75-	0.50U	ug/L
010061015	CIS-1.3-DICHLOROPROPENE - 21		0.500	ug/L
000108101	4-METHYL-2-PENTANONE		1.0U	ug/L
2. 2. 000108883	TOLUENE		0.500	ug/L
010061026	TRANS-1,3-DICHLOROPROPENE		0.50U	ug/L
* \$2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1,1,2-TRICHLOROETHANE		0.500	ug/L
000127184	TETRACHLOROETHENE	1000	0.50U	ug/L
2 000142289	1,3-DICHEOROPROPANE		0.500	ng/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 4/7/2005 3:34PM

Project Number: 05030011

\*Sorted By Sample ID

AG00433

Field/Station ID: EFFLUENT

Date Received: 3/4/2005

Matrix: Aqueous

Sample Description:

	Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER			
	CAS Number	Analyte Name	Result	Remark_ <u>Codes</u>	<u>Units</u>
	000124481	DIBROMOCHLOROMETHANE		0.50U	ug/L
	. 000106934	1,2-DIBROMOETHANE	14522-3867	0.50U	ug/L
	000591786	2-HEXANONE		1.0U	ug/L
	000108907	CHLOROBENZENE	76. <del></del> 41. / 6	0.50U	ug/C
	000630206	1,1,1,2-TETRACHLOROETHANE		0.50U	ug/L
	100-41-4	ETHYLBENZENE	Maria del	0.50U	ug/L
el ura	001330207	M/P-XYLENE		0.50U	ug/L
Weight 18	000095476	O-XYLENE	<u></u> -77	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	4	0.50U	ug/L
	000079345	1,1,2,2-TETRACHLOROETHANE		0.50U	ug/L
	000103651	N-PROPYLBENZENE	Maria	0.50U	- ug/L
	000095498	2-CHLOROTOLUENE	10 mm	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	₩. <del></del>	0.500	ug/L
	135-98-8	SEC-BUTYLBENZENE	744 E	0.50U	ug/L
	- 000541731	1,3-DICHLOROBENZENE	4.4	0.50U	ug/L
	000106467	1,4-DICHLOROBENZENE		0.50U	ug/L
	000095501	1,2-DICHLOROBENZENE	<b>建基金</b>	0.500	Jug/L
	000099876	4-ISOPROPYLTOLUENE	7 1 A	0.50U	ng/L
	000104518	N-BUTYLBENZENE (	3 574	0.50U	ug/L
	000096128	1,2-DIBROMO-3-CHLOROPROPANE		0.50U	ug/L
	000120821	1.2.4-TRICHLOROBENZENE		0.500	op/i
	87-68-3	HEXACHLOROBUTADIENE	e-e	0.50U	ug/L
	. 000091203	NAPHTHALENE	200	0.50U	iig/L
125	000087616	123-TRICHLOROBENZENE		0.50U	110/1

Project Approval:

Refer to Page 1 for an explanation of Remark Codes

Report Date: 4/7/2005 3:34PM

Page 5 of 5

Date: 4-23-05



13 May 2005 RAC II-2005-071

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 FEBRUARY 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the February 2005 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 until 19 February when the system shut down due to a clearwater pump malfunction. The system could not be restarted in auto mode, so the system operated in manual mode for the remainder of the month. A summary of the operation and maintenance activities performed during February is as follows:

- Routine cleaning and inspections of the facility were performed;
- Pumps were checked and lubricated;
- Air filters were cleaned or replaced;
- Snow removal activities were performed;
- System adjustments were made to restore auto mode of operation (this was not successful); and
- The monthly influent and effluent samples were collected.



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## **B.** Operational Data

The following table presents operational data for the year 2005, arranged by month:

Month	Operating Days	Average flow Meter%	Average flow rate (gpm)	Amount of groundwater treated (mg)		
January	31	47	541	24.2		
February	28	46	529	21.3		
Volume of groundw	45.5					
Volume of groundw	Volume of groundwater treated for the OU-1					

gpm - gallons per minute mg - millions of gallons

# C. Comparison of Influent and Effluent Concentrations with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of February 2005 are included in Attachment 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

	Discharge				Influ	ent Co	ncentra	ition	(ug/L	)				Effluent Concentration
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(ug/L) January
Vinyl Chloride	2	3.5	3.9											0.5 U
Chloroethane		0.5	0.6											0.5 U
1,1-Dichloroethene*	5	13	9.3											0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1	2.9											0.5 U
Acetone		1.0 U	2.3											1.0 U
Trans 1,2-Dichloroethene*	5	0.5 U	0.5 U											0.5 U
Methyl Tert-Butyl Ether		4.7	4.3											2.7
1,1-Dichloroethane	5	18	17											2.5
Cis-1,2-Dichloroethene*	5	50	46											7.3
Chloroform	7	0.5 U	0.5 U											0.5 U
1,1,1-Trichloroethane*	5	110	120											6.9
Trichloroethene*	5	43	40											3.8
Total Volatile Organics*	100	245.8	246.3											23.2

Note:

ug/L = micrograms per liter

\* = Site Contaminant of Concern

U = Below Reporting Limit

NS = Not Sampled

		•

#### D. Next Month's Activities

The following activities are planned for March 2005:

- Paint pump house, weather permitting;
- · Repair chlorinator pipe;
- · Troubleshoot auto mode system; and
- Perform monthly performance monitoring sampling.

## E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8412 if you should have any questions.

Sincerely,

Wendy DeMaio

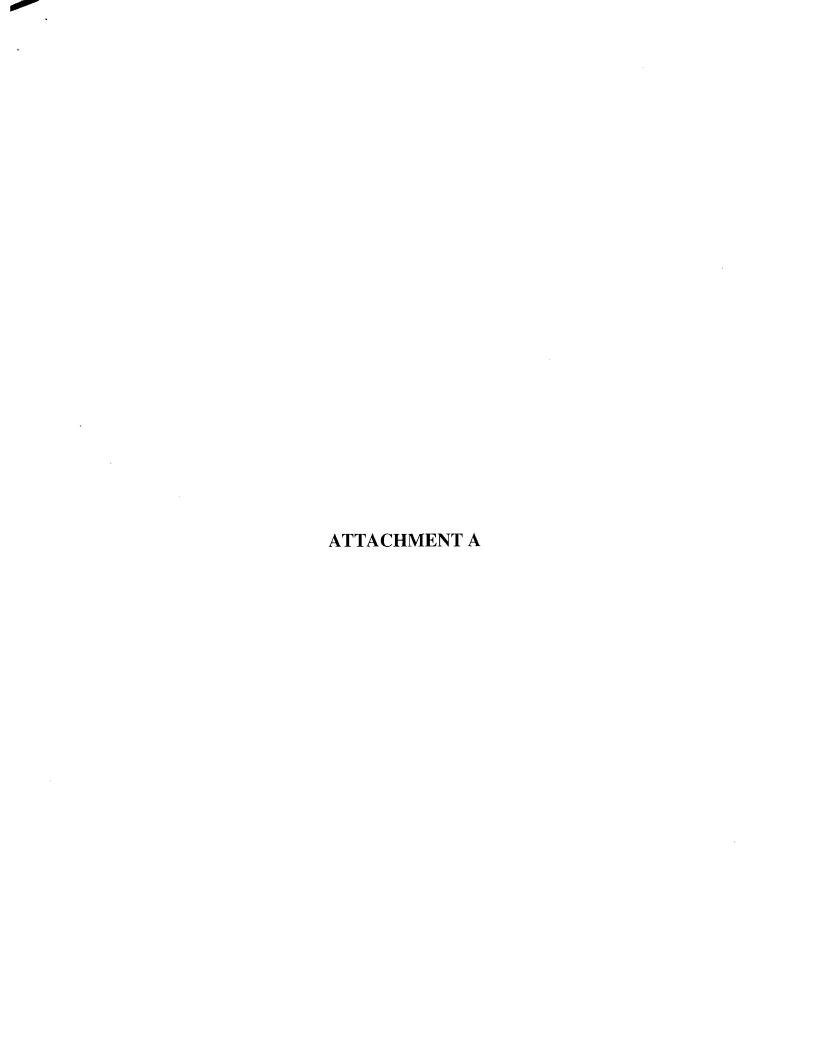
Project Manager

Attachment

cc: M. Dunham (NYSDEC)

Wendy DeMaia

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# Case Narrative: Vestal 1-1. #05020030

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

# Comment(s):

None

# Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs) for each analyte requested.

# Method(s):

Low-Level Volatile Organic Analysis, ESAT-SOP-132 (GC/MS Method).

Approval: \_\_\_\_\_\_ Date: <u>4-6-05</u>

# U.S. Environmental Protection Agency Region 2 Laboratory

Data Report: VESTAL WELL

Project Number: 05020030

Program: Y206E

Project Leader: L. Arabia

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.
ΩĴ	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.
К	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

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Project Number: 05020030

\*Sorted By Sample ID

AG00319

Field/Station ID: INFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 2/22/2005

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER Remark Codes Result Units CAS Number Analyte Name 0.50U DICHLORODIFLUOROMETHANE ue/I 75-43-4. 000074873 CHLOROMETHANE 0.50U ug/L VINYL CHLORIDE ue/L 000075014 0.50U ue/L 000074839 BROMOMETHANE 0.60 ue/L 000075003 CHLOROETHANE: 0.50U ug/L 000075694 TRICHLOROFLUOROMETHANE 9.3 ue/L 000075354 1.1-DICHLOROETHENE 2.9 ug/L 76-13-1 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE 0.50U ug/L CARBON DISULFIDE 000075150 2.3 ug/L ACETONE 000067641 METHYL ACETATE 0,50U ug/L 79-20-9 0.50U ug/L METHYLENE CHLORIDE 000075092 0.501 mozil. THRANKE PEDICHLOROFILIBRE D00156605 ug/L 001634044 METHYL TERT-BUTYLETHER 10/1 LI-DICHLOROFTHANE 000075343 46 CIS-1,2-DICHLOROETHENE ug/L 000156592 0:50U ug/L 594-20-7 2,2-DICHLOROPROPANE 1.0U ug/L 000078933 2-BUTANONE 0.50U 10/1 BROMOCHLOROMETHANE 000074975 0.50U ug/L 000067663 CHLOROFORM ? 120ug/L 1.1.1-TRICHLOROETHANE 71-55-6 ug/L 0.50U 110-82-7 CYCLOHEXANE CARBON TETRACHICOLIDE 0 50TU uo/L 000056235 0.50U ug/L 1,1-DICHLOROPROPENE 000563586 ug/L (I),510(U). 000071432 BENZENE 0.50U ug/L 000107062 1,2-DICHLOROETHANE ue/L, 025323891 0.50U ug/L METHYLCYCLOHEXANE 108-87-2 0.500 WZ/L 000078875 1,2-DICHLOROPROPANE 0.50U ug/L 000074953 DIBROMOMETHANE -10:300 112/6 \$3(X0)X(0)D)(0)\$11(0)X(0)M1\$18\$FAVXI Mountary a 0.50U ug/L 010061015 CIS-1,3-DICHLOROPROPENE PROPERTY OF THE PROPERTY OF THE 140141 100 1018(0)(0)010 0.50U ng/L 000108883 TOLUENE: (6) (0) 8 (6) (6) (6) (6) irkanis lahdichlokapkabbig ug/L 0.50U 000079005 1.1.2 TRICHLOROETHANE app. TERRETAY CHIECTRO ETUBIENTE 000127184 ug/L 0.5QU 1.3-DICHLOROPROPANE 000142289 (0) ((1) (1) entrakio) kroto ethio kroto kritii kakii nell ODD DEEKS 0.50U ug/L 000106934 1,2-DIBROMOETHANE 31(0)8 01016/549/17/346 0.50U ug/I 000108907 CHLOROBENZENE

Refer to Page 1 for an explanation of Remark Codes

Report Date: 3/28/2005 9:36AM

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Project Number: 05020030

\*Sorted By Sample ID

AG00319

Field/Station ID: INFLUENT

Date Received: 2/22/2005

Matrix: Aqueous

Sample Description:

Analysis Type: VOA	A GCMS LOW LEVEL	DRINKING WATER
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			Remark_	
CAS Number Analyte		Result	Codes	<u>Units</u>
	2-TETRACHLOROETHANE	<u> </u>	0,500	ug/L
STATE OF THE STATE	YLBENZENE		0.50U	ug/L
	XYLENE	100	0.50U	ug/L
	LENE		0.50U	ug/L
The state of the s	ENE AND TOTAL TOTAL		0.50U	ug/E
	MOFORM	E LANGE	0.50U	ug/L
\$55.00 (1995) \$1.	ROPYLBENZENE		0.5001	ug/L .
	MOBENZENE	244	0.50U	ug/L
	TERICHLOROPROPÁNE	RECEIVED	0.500	ne ve/Lt
the contract of the contract o	2-TETRACHLOROETHANE		0.50U + 👉	ug/L
per some and a contract of the	OPYLBENZENE A		0.500	ug/E
THE RESERVE OF THE PROPERTY OF	LOROTOLUENE	4-18	0.50U	ug/L
the control of the co	LOROTOLUENE		0.500	ug/L
The second secon	TRIMETHYLBENZENE	F 4475	0.50U	ug/L
Fig. 1. Compared to the control of t	-BUTYLBENZENE		0.50U	ug/L
	TRIMETHYLBENZENE		0.50U	ug/L
	BUTYLBENZENE		0.500	ug/L
	ICHLOROBENZENE	H 350	0.50U	ug/L
	(CHLOROBENZIENE		0.5001	ug/L
An explaining the second secon	ICHLOROBENZENE		0.50U	ug/L
the artist of the second of th	PROPYLLEOILUENE		0.500	PAUE LE A
	TYLBENZENE	<del></del>	0.50U	ug/L
A CONTROL OF THE PROPERTY OF T	BROMO-3-CHLOROPROPANE		10,500	ug/L
	TRICHLOROBENZENE		0.50U	ar ug/L
	ACHLOROBUTADIENE		0.50U	UP L
The state of the s	ITHALENE		0.50U	ug/L
	RMEHLOROBBNZENE		0.00	10/12 2005
The state of the s	L-XYLENES.	77	0.50U	ug/L
A TOPICS OF THE STATE OF THE	NE 12DOHORONAZARIERE 450	0.58 (tale)	3000	- 20 <u>9</u> /L

AG00320

Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 2/22/2005

Refer to Page 1 for an explanation of Remark Codes

Report Date: 3/28/2005 9:36AM Page 3 of 5

Project Number: 05020030

\*Sorted By Sample ID

AG00320

Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 2/22/2005

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER Remark\_ Codes CAS Number Analyte Name Result Units 75-43-4 0,50U DICHLORODIFLUOROMETHANE ug/L 000074873 CHLOROMETHANE: 0.500 000075014 VINYL CHLORIDE 0.50U ug/L 000074839 BROMOMETHANE ug/L 0.500 000075003 CHLOROETHANE 0.50U ug/L TRICHLOROELUOROMETHANE 000075694 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 CARBON DISULFIDE 0.50U ug/L 000075150 000067641 ACETONE 1000 79-20-9 METHYL ACETATE 0.50U ug/L METHYLENE CHLORIDE 0.50U 000075092 ug/L 000156605 TRANS-1,2-DICHLOROETHENE 0.50U ug/L 001634044 METHYL TERT BUTYL ETHER ug/L 2.5 000075343 1,1-DICHLOROETHANE ug/L CIS-1,2-DICHLOR@ETHENE 000156592 ug/L 0.50U 594-20-7 2,2-DICHLOROPROPANE ug/L 000078933 2-BUTANONE 1:0U ug/L 0.50U 000074975 BROMOCHLOROMETHANE ug/L 000067663 CHLOROFORM 0.500 no/L 6.9 1,1,1-TRICHLOROETHANE ug/L 71-55-6 110-82-7 CYCLOHEXANE (0,5(0)U ug/L 0.50U 000056235 CARBON TETRACHLORIDE ug/L A MORCHI GROPROPENE 0.500000563586 ne/L 000071432 BENZENE : 0.50U ug/L 1200 (CHLOROFUEAN) 0.500 ug/L 000107062 025323891 TRICHLOROETHENE ug/L 108-87-2 DISNEY CHECOMON AND CONTRACT 0,510 UE. 1,2-DICHLOROPROPANE 0.50U ug/L 000078875 000074953 IDIBIR(O)M(O)MIEINEIAVNE iiju/L 0.50U ug/L 000075274 BROMODICHLOROMETHANE 0110016010115 CENTRAL PROPERTY OF THE PROPER no/i 4-METHNESSPENHANONE 1.00 000108101 ug/L 000108883 T(O) MEDIAL (1) 51() 1127 010061026 TRANS-1,3-DICHLOROPROPENE 0:50U ue/L 101010107/2101035 0.50U 000127184 TETRACHLOROETHENE ue/L

Refer to Page 1 for an explanation of Remark Codes

LEAD (CHIKOROPRO) PANIE

Report Date: 3/28/2005 9:36AM

10)001016

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Project Number: 05020030

\*Sorted By Sample ID

AG00320

Field/Station ID: EFFLUENT

Date Received: 2/22/2005

Matrix: Aqueous

Sample Description:

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
000124481	DIBROMOCHLOROMETHANE	100 - 100 <del>4-</del>	0.50U	ug/L
₹ 000106934	1,2-DIBROMOETHANE	<b>"别说</b> ,你是学数,是	0.500	ug/L
000591786	2-HEXANONE	## ### - 100	1.00	ug/L
-1000108907	CHLOROBENZENE A CONTROL OF THE CONTR		# 0,50U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	1884 188 <del>4 1</del>	0.50U	ug/L
100-41-4	EURYLBENZENE	4	0.500	ug/L
-001330207	M/P-XYLENE		0,50U	ug/L
000095476	O-XYLENE.		0.500	ng/L
000100425	STYRENE		0.50U	ug/L
000075252	BRONORORANI	ASSAS A CARREST TRANSPORT	0.500	Congress of the congress of th
000098828	ISOPROPYLBENZENE	A SIGN PAGE TO A	0.50U	ug/L
000108861	BROMOBENZENE		0.500	ug/L
000096184	1,2,3-TRICHLOROPROPANE		0.50U	ug/L
000079345	1,1,2,2-TETRACHLOROETHANE		0.500	ug/L
000103651	N-PROPYLBENZENE		0.50U	ug/L
000095498	2-CHLOROTOLUENE	## PE	0.500	ug/L
106-43-4	4-CHLOROTOLUENE		0.50U	ug/L
000108678	1,3,5-TRIMETHY LIBENZENE		0.5012	ug/L
000098066	TERT-BUTYLBENZENE		0.50U	ug/L
000095636	12/4EIRHXIETHHYLLBENZENE		0.500	ug/L
135-98-8	SEC-BUTYLBENZENE		0.50U	ug/L
000541731	LS-DIGHLOROBENZENE		0.500	rug/L
000106467	1,4-DICHLOROBENZENE		0.50U	ug/L
000095501	H.25DICHLOROBENZENIE		= 0.5000	ng/L
000099876	4-ISOPROPYLTOLUENE		0.50U	ug/L
000104518	NEBOTYLBENZENE		0,50U	ug/L
000096128	1,2-DIBROMO-3-CHLOROPROPANE		0.50U	ug/L
0000120821	AN ACCUMINATION OF THE PROPERTY OF THE PROPERT		(),(( <b>)</b> (c), (()),	DU/E
87-68-3	HEXACHLOROBUTADIENE	45 Mar 1997 Mar	0,50U	ug/L
000001203	SANAPI AREA DE LA CONTRACTOR DE LA CONTR		0/400	10/E
000087616	1,2,3-TRICHLOROBENZENE	李子·李子等	0.50UL	cug/Ly
排除 * M1380F20-76 等	HONALKOMENES		months and	CHULL TO THE

Project Approval:

Refer to Page 1 for an explanation of Remark Codes

Report Date: 3/28/2005 9:36AM

Date: 4-6-05

Page 5 of 5

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13 May 2005 RAC II-2005-069

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 JANUARY 2005 PERFORMANCE MONITORING REPORT

Dear Ms. Trocher:

I am pleased to provide the January 2005 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 for the entire month. A summary of the operation and maintenance activities performed during January is as follows:

- Routine cleaning and inspections of the facility were performed;
- Pumps were checked and lubricated;
- · Air filters were replaced;
- Snow removal activities were performed;
- The electric motors in two ceiling-mounted heating units were repaired; and
- The monthly influent and effluent samples were collected.



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## **B.** Operational Data

The following table presents operational data for the year 2005, arranged by month:

Month	Operating Days	Average flow Meter%	Average flow rate (gpm)	Amount of groundwater treated (mg)			
January	31	47	541	24.2			
Volume of groundw	Volume of groundwater treated for 2005						
Volume of groundw	ater treated for th	ne OU-1		2627.6			

gpm - gallons per minute. mg - millions of gallons

# C. Comparison of Influent and Effluent Concentrations with Discharge Criteria

The treatment plant influent and effluent analytical data received from the EPA-DESA laboratory for the month of January 2005 are included in Attachment 1. A summary of the data for the compounds detected in the plant influent and effluent is as follows:

	Discharge				Influ	ent Co	ncentra	ation	(ug/L)	)				Effluent Concentration
Compound	Criteria (ug/L)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	(ug/L) January
Vinyl Chloride	2	3.5												0.5 U
Chloroethane		0.5												0.5 U
1,1-Dichloroethene*	5	13												0.5 U
1,1,2 Trichloro- 1,2,2-Trifluoroethane		3.1												0.5 U
Trans 1,2-Dichloroethene*	5	0.5 U												0.5 U
Methyl Tert-Butyl Ether		4.7												2.7
1,1-Dichloroethane	5	18												2.1
Cis-1,2-Dichloroethene*	5	50												7.0
Chloroform	7	0.5 U												0.5 U
1,1,1-Trichloroethane*	5	110												5.1
Trichloroethene*	5	43												3.3
Total Volatile Organics*	100	245.8												20.2

#### Note:

ug/L = micrograms per liter

\* = Site Contaminant of Concern

U = Below Reporting Limit

NS = Not Sampled

#### D. Next Month's Activities

The following activities are planned for February 2005:

- Paint pump house, weather permitting;
- Repair chlorinator pipe; and
- Perform monthly performance monitoring sampling.

## E. Summary and Recommendations

Based on the treatment plant influent and effluent data summarized above, it can be concluded the treated water continues to meet the discharge limits. Please feel free to contact me at (973) 630-8412 if you should have any questions.

Sincerely,

Wendy DeMaio

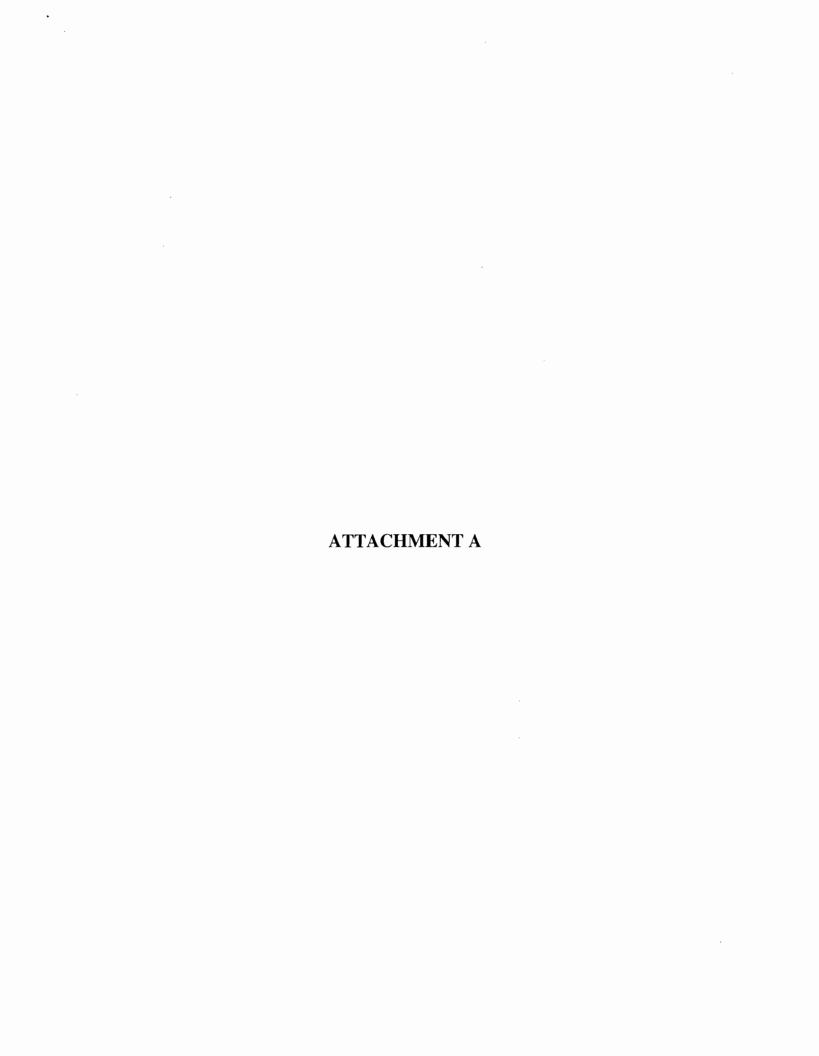
Project Manager

Attachment

cc: M. Dunham (NYSDEC)

Wendy DeMaia

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# Case Narrative:

# Vestal 1-1. #05010027

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

# Comment(s):

None

# Reporting Limit(s):

The Laboratory was able to achieve the Contract Required Quantitation Limits (CRQLs) for each analyte requested.

## Method(s):

Low Level Volatile Organic Analysis, ESAT-SOP-132 (GC/MS Method).

Approval: \_\_\_\_\_\_ Date: 3-11-05

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# U.S. Environmental Protection Agency Region 2 Laboratory

Data Report: VESTAL WELL
Project Number: 05010027

Program: Y206E

Project Leader: L. Arabia

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

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Project Number: 05010027

\*Sorted By Sample ID

AG00181

Field/Station ID: INFLUENT

Matrix: Aqueous

Date Received: 1/28/2005

Sample Description:

Sample 1	Description:			
Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER			
CAS Number	Analyte Name	Result	Remark_ <u>Codes</u>	Units
75-43-4	DICHLORODIFLUOROMETHANE	Kesun	0.50U	ug/L
000074873	CHLOROMETHANE		0.50U	ug/L
000075014	VINYL CHLORIDE'	734 735	1.13.184	ug/L
000074839	BROMOMETHANE		<b>0.50</b> Ü	ug/L
000075003	CHLOROETHANE	0.50		ug/L
000075694	TRICHLOROFLUOROMETHANE		0.50U	ug/L
	I,I-DICHLOROETHENE	1814 13		ug/L
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	3.1		ug/L
- 000075150	CARBON DISULFIDE		0.50U	ug/L
000067641	ACETONE	The Control of the Co	1.0U	ug/L
79-20-9	METHYL ACETATE	Halaco <del>T</del> alana	0.50U	ug/L
000075092	METHYLENE CHLORIDE		0.50U	ug/L
000156605 001634044	TRANS-1,2-DICHLOROETHENE METHYL TERT-BUTYL ETHER	4.7	0.50U	ug/L
001634044	1.1-DICHLOROETHANE	-18 - 18		ug/L ug/L***
000156592	CIS-1,2-DICHLOROETHENE	50		ug/L
594-20-7	2,2-DICHLOROPROPANE	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	0.50U	ug/L
000078933	2-BUTANONE	(24) 31 (24) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	1:0U	ug/L
000074975	BROMOCHLOROMETHANE	454 <b>/1</b> 36 (53 <u>12</u> 4.5 4	0.50U	ug/L
000067663	CHLOROFORM		0.50U	ug/L
71-55-6	1,1,1-TRICHLOROETHANE	110	0.00000	ug/L
110-82-7	CYCLOHEXANE		0.50U	ug/L
000056235	CARBON TETRACHLORIDE	Walley War	0:50U	ug/L
000563586	1,1-DICHLOROPROPENE		0.50U	ug/L
000071432	BENZENE	性特殊 发条点	0.50U	ug/L
000107062	1,2-DICHLOROETHANE	er i grand gestion i de grand gestion de g	0.50U	ug/L
025323891	TRICHLOROETHENE	10143		ug/L
108-87-2	METHYLCYCLOHEXANE	energialis era Ve	0.50U	ug/L
000078875 000074953	1,2-DICHLOROPROPANE DIBROMOMETHANE		0.50U 0.50U	· ug/L
			0.500	ug/L ug/L
000075274 010061015	BROMODICHLOROMETHANE CIS-1,3-DICHLOROPROPENE	anna <del>Sa</del> pa <b>n</b> Salaman (1966). Salaman	0.50U	ug/L
000108101	4-METHYL-2-PENTANONE	THE PERSON NAMED IN	1.00	ug/L
000108883	TOLUENE	100 mg	0.50ป	ug/L
010061026	TRANS:1,3-DICHLOROPKOPENE.		'0.50U	FilmE/EI
000079005	1,1,2-TRICHLOROETHANE	A CONTRACTOR OF CONTRACTOR OF CONTRACTOR	0.50U	ug/L
000127184	TETRACHLOROETHENE	Contract Services	0.50U	Ng/L
000142289	1,3-DICHLOROPROPANE		0.50U	ug/L
000124481	DIBROMOCHLOROMETHANE - 1	era Propries	0.50U	· ug/L
000106934	1,2-DIBROMOETHANE		0.50U	ug/L
//// 000591786	2-HEXANONE	33 11 12 13 <u></u> 1	1.00	Light.
000108907	CHLOROBENZENE	10 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15	0.50U	ug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 3/3/2005 9:48AM Page 2 of 5

Project Number: 05010027

\*Sorted By Sample ID

AG00181

Field/Station ID: INFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 1/28/2005

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

Analysis Type: V	OA GCMS LOW LEVEL DRINKING WATER		Remark_	
CAS Number	Analyte Name	<u>Result</u>	Codes	<u>Units</u>
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	Market St.	0.50U	ug/L
.000075252	BROMOFORM		0.50U	ug/L
000098828	ISOPROPYLBENZENÉ		0.50U	ug/L
000108861	BROMOBENZENE		0.50U	ug/L
000096184	1,2,3-TRICHLOROPROPANE		0.50U	ug/L
4 000079345	1,1,2,2-TETRACHLOROETHANE		0.50U	→ ug/L
the state of the s	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	200 C	0.50U	ng/L
000095636	1,2,4-TRIMETHYLBENZENE	1000 1000	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	4-24 CV-	0.50U	ug/L
000095501	1,2-DICHLOROBENZENE		0.50U	ug/L
000099876	4-ISOPROPYLTOLUENE 4-15 4-15 4-15	<b>用品 25</b>	0.50U	ug/L
000104518	N-BUTYLBENZENE	A CANADA	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	The American	0.50U	ug/L
1330-20-7	TOTAL XYLENES		0.50⊍	úg/L
	ETHANE,12-DICHEOR-1,1,2-TRIFLUOR,RT=4.48	7 - 1 0.54 ₹	NJ -	ug/L

AG00182

Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 1/28/2005

Refer to Page I for an explanation of Remark Codes

Report Date: 3/3/2005 9:48AM Page 3 of 5

Project Number: 05010027

\*Sorted By Sample ID

AG00182

Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 1/28/2005

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

manysis Type: ·	on demo bow bby bb brancand with ba		Remark_	
CAS Number	Analyte Name	Result	Codes	<u>Units</u>
75-43-4	DICHLORODIFLUOROMETHANE		0.50U	ug/L
000074873	CHLOROMETHANE		0.50U	ug/L
000075014	VINYL CHLORIDE		0.50U	ug/L
000074839	BROMOMETHANE	/¥2	0.50Ü-	ug/L
000075003	CHLOROETHANE		0.50U	ug/L
000075694	TRICHLOROFLUOROMETHANE	45 - 45-	0.50U	ug/L
000075354	1,1-DICHLOROETHENE	1 to 2	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	<b>李松,春</b>	1.0U	ug/L who
79-20-9	METHYL ACETATE		0.50U	ug/L
000075092	METHYLENE CHLORIDE 14. * * * * * * * * * * * * * * * * * * *		0.50U	ug/L
000156605	TRANS-1,2-DICHLOROETHENE	<u> </u>	0.50U	ug/L
001634044	METHYL TERT BUTYL ETHER	2.7		ug/L
000075343	1,1-DICHLOROETHANE	2.1		ug/L
- 000156592	CIS-1,2-DICHLOROETHENE	7-0		ug/L
594-20-7	2,2-DICHLOROPROPANE		0.50U	ug/L
000078933	2-BUTANONE		1.0U	.ug/L
, 000074975	BROMOCHLOROMETHANE	- <del></del>	0.50U	ug/L
000067663	CHLOROFORM		0.50U-	ug/L
71-55-6	1,1,1-TRICHLOROETHANE	5.1		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-DICHLOROETHANÉ		0.50U a	ug/L
025323891	TRICHLOROETHENE	3,3		ug/L
108-87-2	METHYLCYCLOHEXANE	<b>国建设营业</b>	0.50U	ng/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	之时,如于为。3	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
**** **********************************	1,1,2-TRICHLOROETHANE		0.500	) ug/L
000127184	TETRACHLOROETHENE		0.50U	.ug/L
000142289	1,3-DICHEOROPROPANE		0.50U	ug/L

Refer to Page 1 for an explanation of Remark Codes

Report Date: 3/3/2005 9:48AM Page 4 of 5

Project Number: 05010027

\*Sorted By Sample ID

AG00182

Field/Station ID: EFFLUENT

Matrix: Aqueous

Date Received: 1/28/2005

Sample Description:

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

,			Remark_	
CAS Number	er Analyte Name	<u>Result</u>	Codes	<u>Units</u>
000124481	Control of the Contro		0.50U	ug/L
000106934	1,2-DIBROMOETHANE	The state of the s	0.50U	ug/L
000591786	2-HEXANONE		1.0U	ug/L
- 000108907	CHLOROBENZENE	Maria (1964)	0.50U	ug/L
000630206	1,1,1,2-TETRACHLOROETHANE	CLOPERTON CHE	0.50U	ug/L
100-41-4	ETHYLBENZENE	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	0.50U	ug/L
001330207			0.50U	ug/L
000095476			0.50U	ug/L
000100425		a salah dari dari dari dari dari dari dari dari	0.50U	ug/L
∴ (#** ≠ 000075252			0.50U# T	ug/L
000098828			0.50U	ug/L
000108861	the contract of the contract o		0.50U	ug/L
000096184			0.50U	ug/L
	and the contract of the contra		0.50U	ug/L
000103651	N-PROPYLBENZENE	Salaharan	0.50U	ug/L
<i>≱</i> 000095498	The state of the s	A SECTION OF THE SECTION	0.50U	ug/L
106-43-4	4-CHLOROTOLUENE		0.50U	ug/L
000108678	the state of the s		0.50U	ug/L
000098066			0.50U	ug/L
000095636	The second secon		0.50U	ug/L
135-98-8	SEC-BUTYLBENZENE		0.50U	ug/L
.000541731	The state of the s	taki ilikalik ci <del>li</del> bira	0.50U	ug/L
000106467			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	par	0.50U	ug/L
000120821	and the second of the second	1、1多。《四祖》中一个多。	0.50U	ug/L
87-68-3	HEXACHLOROBUTADIENE		0.50U	ug/L
000091203	NAPHTHALENE	Naka Martin	0.500	ug/L
. 000087616	1,2,3-TRICHLOROBENZENE	yana arang ara	0.50U	ug/L
1330-20-7	TOTAL XYLENES		0.50U	ug/L

Project Approval: 4. 72

Date: 3-11-05

Refer to Page 1 for an explanation of Remark Codes

Report Date: 3/3/2005 9:48AM