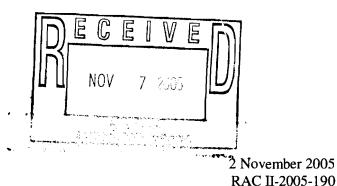
Untern.





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.



# RAC II-2005-190 Page 2

## **B.** Operational Data

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 groundwate	r treated for 2005			81.4*
Volume of groundwate	r treated for the C			2684.8*

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

\*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 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

RAC II-2005-190 Page 3

### **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,

Roldan 'emn

Heidemarie Roldan Project Manager

Attachment

cc: M. Dunham (NYSDEC)

## ATTACHMENT A

.

## <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: Q. R. The 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 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

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

1

Page 1 of 5



## Survey Name: Vestal Well 1-1 [08/05]

Project Number: 05080016

\*Sorted By Sample ID

AG03607 Field/Station ID: INFLUENT

5

Date Received: 8/9/2005

Matrix: Aqueous

Sample Description:

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

A	nalysis Type: vu	DA GEMIS LOW LEVEL DRINKING WATER		Remark_	
	CAS_Number	Analyte Name	<u>Result</u>	Codes	<u>Units</u>
	75-43-4	DICHLORODIFLUOROMETHANE		0,5011	Tuget
	000074873	CHLOROMETHANE	<del></del>	0.50U	ug/L
	000075014	VINYL CHLORIDE		PODEC STATE	aberta .
· · · · · · · · · · · · · · · · · · ·	000074839	BROMOMETHANE	an a	0.50U	ug/L
	000075003	CHLOROBERAND CALL STREET AND A PROVIDE			
er an an an Sector (Se	000075694	TRICHLOROFLUOROMETHANE		0.50U	ug/L
	000075354	1.1-DICHLORGETHENERAL			
and a station of the state	76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	2.4	and the second	ug/L
	000075150	ACETONE		Second Second	
3*.	000067641 79-20-9	METHYL ACETATE	 	5.0U	ug/L.
a state and	000075092	METHYLENE CHLORIDE		1.0U	and the second
	000073092	TRANS-1,2-DICHLOROETHENE	 **::::::::::::::::::::::::::::::::	0.500	ug/L
- Sheriya Kara	001634044	METHYL TERT-BUTYL ETHER	3.7		ug/L
A States .	001034044	1.1-DICHLORØETHANE	- 18 - to 1		
101912-012012	000156592	CIS-1,2-DICHLOROETHENE	41		ug/L
	594-20-7	2,2-DICHLOROPROPANE		05000	
39 - 21.	000078933	2-BUTANONE	and a second second Second second	1.0U	ug/L
	000074975	BROMOGHNOROMETERANIE		NORTH COM	
	000067663	CHLOROFORM		0.50U	ug/L
	71-55-6	ELL-TRICHLOROETHANE	4.100 ····		
	110-82-7	CYCLOHEXANE		0.50U	ug/L
Auge Mars	000056235	CARBON TETRACHLORIDE			Survey and States
	000563586	1,1-DICHLOROPROPENE	and the second	0.50U	ug/L
	000071432	BENZENE	e a brakar se a Carlos d'a d	sen (monespecto	
	000107062	1,2-DICHLOROETHANE		0.50U	ug/L
	025323891	TRICHLOROLOGIENE		0.700	
	108-87-2 000078875	LZDIRHEOROPACIANE		0.500	ig/L.
- Active Contraction Contraction	000074953	DIBROMOMETHANE		0.50U	uc/L
	000075274	BROMODIGEROROMERIPANE			
	010061015	CIS-1,3-DICHLOROPROPENE		0.50U	ug/L
State State	000108101	4 METHME-ZPENNANONE			
ন <b>ি⊾</b> ্ৰা¥ে চৰক্ষিতি গ	000108883	TOLUENE		0.50U	ug/L
in the state of the state of the	010061026	TRANS-1,3-DICHEOROPROPENE	3-46 H.	20300 Excert	PODE AN
the product of the	000079005	1,1,2-TRICHLOROETHANE	and a second	0.50U	ug/L
State 2	000127184	TETRACHLOROBTHENE	<b>Older W</b> ards	ato, stille 👝 🖉 🦂	
	000142289	1,3-DICHLOROPROPANE		0.50U	ug/L
	000124481	DIBROMOCHLOROMERHANE		80%00-2-1-2-2	
	000106934	1,2-DIBROMOETHANE		0.50U	ug/L
	000591786	2-HEXANONE		A CONTRACTOR AND A CONTRACTOR OF A CONTRACT OF	WALK .
	000108907	CHLOROBENZENE		0.5 <b>0U</b>	ug/L

Refer to Page 1 for an explanation of Remark Codes

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



#### Survey Name: Vestal Well 1-1 [08/05]

Date Received: 8/9/2005

Project Number: 05080016

\*Sorted By Sample ID

Field/Station ID: INFLUENT AG03607 Matrix: Aqueous

Sample Description:

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

Ai	nalysis Type: VO	DA GCMS LOW LEVEL DRINKING WATER		Remark_	
	CAS Number	Analyte Name	<u>Result</u>	Codes	<u>Units</u>
	000630206	1.1.1.2-TETRACHLOROETHANE	1 <u></u> -	0.500	NOR.
C. 11086-8969-061-0588-	100-41-4	ETHYLBENZENE		0.50U	ug/L
2. · · · · · · · · · · · · · · · · · · ·	001330207	MIPEXYLENE AND A CONTRACT OF A		- OSOFE & +	A BOOM
	000095476	O-XYLENE		0,50U	ug/L
encestig +	000100425	STYRENE		6-050UF#	Services and
	000075252	BROMOFORM		0.50U	ug/L
Sec. And	000098828	ISOPRORYLBENZENE AND A SAME AND A	s in the second	A CSOUL	
	000108861	BROMOBENZENE		0.50U	ug/L
Martin Area	000096184	1,2,3-TRICHLOROPROPANE		SOLUTION STATE	
osmiski kara	000079345	1,1,2,2-TETRACHLOROETHANE		0.50U	ug/L
e se de contactor	000103651	N-PROPYLIKENZENP	inatta ita ita	460-610 865.	4 02/15
	000095498	2-CHLOROTOLUENE	 Anto-1910 (1910)	0.50U	ug/L
	106-43-4	ACHLOROLOULENH		A COSTANT	
1000 A 10	000108678 000098066	1,3,5-TRIMETHYLBENZENE TERT-BUTMEBENZENE		0.50U	ug/L
\$\$***********	000095636	1,2,4-TRIMETHYLBENZENE		0.50U	ug/L
	135-98-8	SEC-BUTYLEPHNZENE			
	000541731	1,3-DICHLOROBENZENE		0.50U	ug/L
的建物。在这次的	000106467	1,5 DICHLOROBENZENE			
an Sandah an Inte o Sand	000095501	1,2-DICHLOROBENZENE		0.50U	ug/L
	000099876	4-ISOPROPHILICIALISME AND			
	000104518	N-BUTYLBENZENE		0.50U	ug/L.
	000096128	1.2-DIBROMO-4-CHEOROPROPANE		e cosmo ase	
	000120821	1,2,4-TRICHLOROBENZENE		0.50U	ug/L
246 2 Mar 28 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	87-68-3-	HEXACHLOROBUTADIENE		a com	A Jug A Star
	000091203	NAPHTHALENE		1.0U	ug/L
	000087616	1723-TRICELOROBENZENHS			
antan ing nationalisa	1330-20-7	TOTAL XYLENES		0.50U	ug/L
		ETHANE 12-DICHEORG-11-2-TRIFECTRIF4%			

Field/Station ID: EFFLUENT AG03608

Matrix: Aqueous

Date Received: 8/9/2005

Sample Description:



## Survey Name: Vestal Well 1-1 [08/05]

Project Number: 05080016

\*Sorted By Sample ID

#### Field/Station ID: EFFLUENT AG03608 Matrix: Aqueous

··`,

Date Received: 8/9/2005

Sample Description:

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

Analysis Type: VOA GCMS LOW LE	EVEL DRINKING WATER		Remark	
CAS Number Analyte Name		Result	Codes	Units
	LUOROMETHANE		0.50U	ug/L
000074873 CHLOROMBUL	가지 수 있는 것이 있는 것이 있는 것이 가지 않는 것이 많이 있는 것이 가지 않는 것이 없을까?			ERITAR PARTY
000075014 VINYL CHLOR			0.500	ug/L
000074839 BROISIOM 1127				
000075003 CHLOROETHA	NBC We have a set of the set of the		0.50U	ug/L
000075694 TRICHLOROF	LOROMETRANEZ		CONTRACTOR	
000075354 1,1-DICHLORO	ETHENE		0.50U	ug/L
2. "我们们的一方子们不是不能不是这些情况,我们的这些人,我们还是你的说道:" [1] 如果我们的问题,我们的是你的问题。"	RO-1.2,2-TRIFLUOROBTHANE		COSTINUES	whether that
000075150 CARBON DISU			0.50U	ug/L
000067641 ACETONE		and the second second	5.000	
79-20-9 METHYL ACET	the second se		0.50U	ug/L
000075092 METHYLENEC		TTANK STOPPET	TOP 1	
	HLOROETHENE		0.50U	ug/L
	EURIEPERER	na a constrait t	aa <b>x lagaa</b>	
000075343 1,1-DICHLORO 000156592 CIS-1,2-DICHLO		1.7		ug/L
594-20-7 2,2-DICHLORO			0.50U	
000078933 2-BUTANONE		 Biti - Biti - Solar - S	0.300	ug/L 2119/E. * * d
000074975 BROMOCHLOR	,你们的时候,你们们就是你们的你们的,你们们就是你们的你们,你们们们都是你们的你们的?""你们的你们,你们们们的你们,你们不能能能。""你们不是你们不能。""你们		0.50U	ug/L
000067663 CHLOROFORM	しょうよう むしか なみび 対理 ション・コール しょうしょう うちょうちょう 大手 太子			
71-55-6 1,1,1-TRICHLO		3.7		ug/L
2. Service 110-82-7				
000056235 CARBON TETR			0.50U	ug/L
000563586**** I,1*DICHLORO	PROPERTY		cisin asso	Contraction of the second
000071432 BENZENE		HT I	0.50U	u <b>g/L</b>
000107062 P2-DICHEOROL				
025323891 TRICHLOROET	이번에게 이 나고 있는 것 같아요. 이 가지 않는 것 같아요. 이 것 같아요. 한 ? 한 것 같아요. 한 ? 한 ? 한 ? ? 한 ? 한 ? ? 한 ? 한 ? 한 ? 한	2.1		ug/L
108-87-2 METEXICXCD			ansar si se	
000078875 1,2-DICHLOROF			0.500	ug/L
000074953 DIBROMOMET			Sastin Sast	
000075274 BROMODICHLO			0.50U	ug/L
CIS-F-BDICHEC			i ora	
000108101 4-METHYL-2-PE			1.0U	ug/L
000108883 TOLUENE 010061026 TRANS-1,3-DICI	HLOROPROPENE	Constant of the second state		
· · · · · · · · · · · · · · · · · · ·	IOETHANE		0.50U	ug/L Tg/L
000079005 1,1,2-TRICHEOR 000127184 TETRACHLORC	的情况后,但我们都知道是是我们的这些人来,这些是没有多少的。"这些是是这些人的。他们还是一种的人们的,也是是不是不少。		0.50Ü	ug/L
000127184 1ETRACHLORC 000142289 1,3-DICHLOROF			750179	
0001442403				



#### Survey Name: Vestal Well 1-1 [08/05]

Date Received: 8/9/2005

Project Number: 05080016

\*Sorted By Sample ID

AG03608

Field/Station ID: EFFLUENT Matrix: Aqueous

Sample Description:

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

Analysis Type: VOA	A GCMS LOW LEVEL DRINKING WATER		Remark	
CAS Number A	Analyte Name	Result	Codes	Units
	DIBROMOCHLOROMETHANE		0.50U	ug/L
000124481	1.2-DIBROMOETHANE	Alexandra Latin -	0.500	
こので、「「「「「「」」」、「「」」、「「」」、「「」」、「」」、「」」、「」」、「	2-HEXANONE		1.0U	Press and the second state of the second state
	CHLOROBENZENE			ug/L
· · · · · · · · · · · · · · · · · · ·	1,1,1,2-TETRACHLOROETHANE		0.50U	
		 CONSERVATION OF THE OWNER	and the second	ug/L
[1] "我们,你认为你认为你的问题,你们的事实是我的问题的。"我们,你们还不会。	ETHYLBENZENE M/P-XYLENE			
	OXYLENE		0.50U	ug/L
- こうやうしょう あいしょう 法の情報報告報 ほうしょう しょうちょう	STYRENE		0.50U	
	BROMOFORM		0.500	ug/L Ug/L
	ISOPROPYLBENZENE		0.50U	MANA MARKAGAN AND THE AND THE PARTY OF
	BROMOBENZENE	 20-20-20-00-00-00-00-00-00-00-00-00-00-0	and the second secon	ug/L
	An An Article of Anthropological and a start of the second transformer and the start of the second second second		O SOLUTION	ug/L
	1,2,3-TRICHLOROPROPANE		0.50U	ug/L
一、"你们的你们的你们你们不能是你的你们的你们,你不知道你们的你们。"	1.1.2.2-TEIRACHEOROETHANE			
	N-PROPYLBENZENE		0.50U	ug/L
	2-CHLOROTOLUENI		0.000	
	4-CHLOROTOLUENE	anna A tha	0.50U	ug/L
[1] A. M. C. L. C. M. Lands, and A. C. MORANS, AND MARKED 1.	1,3,5-TRIMETHYRBENZENE		O SOLL	THE/LL Y
	TERT-BUTYLBENZENE		0.50U	ug/L
- 「「「「「」」」、「」」、「「「「」」、「「」」、「「」」、「「」」、「「」	1,2,4-TRIMETHYLERSZENE		O'SOUR-	ug/IS a state
	SEC-BUTYLBENZENÉ		0.50U	ug/L
- · · · · · · · · · · · · · · · · · · ·	REDICHPOROBIEVAIND			<b>NHARA</b> IN
	1,4-DICHLOROBENZENE	an a	0.50U	ug/L
<ul> <li>MARKET MARKAR STREET AND AND AND AND AND AND AND AND AND AND</li></ul>	1-2-DICHLOROBENZEND were service and the service s			PDP/Let and a
	4-ISOPROPYLTOLUENE		0.50U	ug/L
- 2019 BAR LEVE YA LI WARRAND BAR AND AND THE LAND AND A MARKED AND A MARKED AND A MARKED AND A MARKED AND A MA	N-BIATYEUENZEND		OSOBLE T	Tug/A
	1,2-DIBROMO-3-CHLOROPROPANE	 Southermore reposed as chose	0.50U	ug/L
그 나와 아파 이 가지는 것 같아요. 아파 가지 않는 것 같이 많이 봐.	1,2,4=TRICHLOROBENZENE	3 <b>**</b> *	9.5014	pig/Le
	HEXACHLOROBUTADIENE		0.50U	ug/L
- こうかない こうしゃ 成本の通信 ご開催されたい 前語 いいち あつい	NAPHTHALENE	e d <del>et</del> zi ve kled	LOUIS	ug/L
	I,2,3-TRICHLOROBENZENE		0.50U	ug/L
1330-20-7 - 1	TOTAE XYLENES		0.500	160 B. C.

**Project Approval:** 

Date: <u>9-23-05</u>

Refer to Page 1 for an explanation of Remark Codes Report Date: 9/19/2005 1:04PM

Page 5 of 5