

FEB 1 7

15 February 2006 RAC II-2006-018

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
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.



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	81.4*					
Volume of groundwa	ater treated for the C	OU-1		2684.8*		

^{*}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	Concen	tration (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

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.

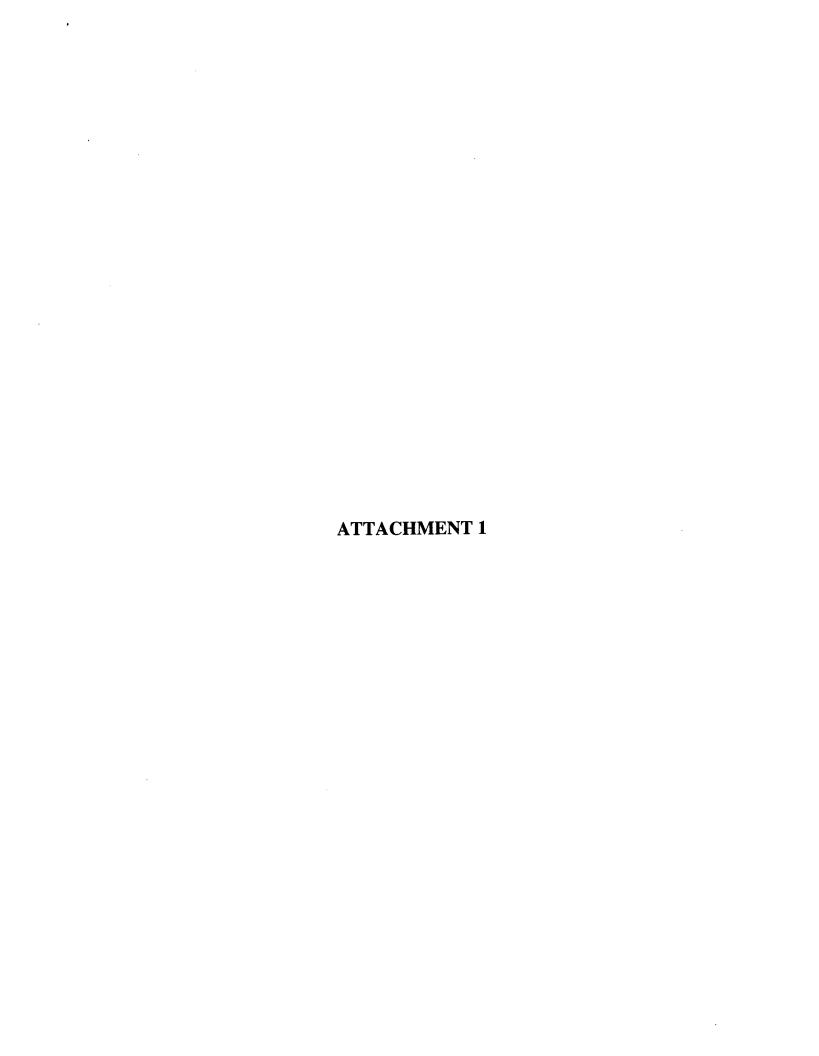
Sincerely,

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.

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Comment		
0 0 1111-11 0 111		_

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: 2 R. - 10-06



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

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

Project Number: 05110026

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: 12/23/2005 9:35AM

Project Number: 05110026

*Sorted By Sample ID

AG08414

Field/Station ID: INFLUENT

Matrix: Aqueous

Date Received: 11/8/2005

Sample Description:

A	Analysis Type: VC	OA GCMS LOW LEVEL DRINKING WATER		Remark	
	CAS Number	Analyte Name	Result	Codes	Units
	75-43-4	DICHLORODIFLUOROMETHANE		0.50U	ug/L
	000074873	CHLOROMETHANE	20112442529 (20124412204)	0.50U	ug/L
10000 300	000075014	VINYL CHLORIDE	3.8	- C. 200	ug/L
*	000074839	BROMOMETHANE		0.50U	ug/L
	000075003	CHLOROETHANE	0.51		ug/L
	000075694	TRICHLOROFLUOROMETHANE		0.50U	ug/L
150	000075354	I,I-DICHLOROETHENE	i 83	Single Control	ng/L
	76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	2.7	A.M. Carlotte	ug/L
1000	000075150	CARBON DISULFIDE		0.50U	ng/L
	000067641	ACETONE		10 U	ug/L
	79-20-9	METHYL ACETATE	₩	0.50U	iig/L
***********************************	000075092	METHYLENE CHLORIDE		0.50U	ug/L
	000156605	TRANS-1,2-DICHLOROETHENE		0.50U	ug/L
0 - Ou & -	001634044	METHYL TERT-BUTYL ETHER	3.0	NORWANIA MARKATA TANIFARIA	ug/L
	000075343	1,1-DICHLOROETHANE	16	Line of the	ug/L.
	000156592	CIS-1,2-DICHLOROETHENE	40		ug/L
	594-20-7	2,2-DICHLOROPROPANE	<u> </u>	0.50U	ug/L
s norscharter	000078933	2-BUTANONE		1.0U	ug/L
	000074975	BROMOCHLOROMETHANE CHLOROFORM		0.500	197 12
5.85% A 5.95.	000067663 71-55-6	1,1,1-TRICHLOROETHANE	110	0.50U	ug/L
	110-82-7	CYCLOHEXANE		0.50U	ug/L ug/L
	000056235	CARBON TETRACHLORIDE		0.50U	ug/L
LI BASASE	000563586	1,1-DICHLOROPROPENE		0.50U	ug/L
. Williams	000071432	BENZENE		0.50U	ng/L
	000107062	1,2-DICHLOROETHANE		0.50U	ug/L
	025323891	TRICHLOROETHENE	35	7,17	ug/L
4. 4 1	108-87-2	METHYLCYCLOHEXANE		0.50U	ug/L
	000078875	1,2-DICHLOROPROPANE		0.50U	ug/L
. 144	000074953	DIBROMOMETHANE		0.50U	ug/L
	000075274	BROMODICHLOROMETHANE		0.50U	ug/L
	010061015	CIS-1,3-DICHLOROPROPENE		0.50U	ug/L
	000108101	4-METHYL-2-PENTANONE	ing Landows Ad	1.0U	ug/L
	000108883	TOLUENE		0.50U	ug/L
in o	010061026	TRANS-1,3-DICHLOROPROPENE	er. Tirreza	0.50U	ug/L
	000079005	1,1,2-TRICHLOROETHANE	ina a panagana mandana	0.50U	ug/L
{ 3 · · ·	000127184	TETRACHLOROETHENE		0.50U	ug/L
	000142289	1,3-DICHLOROPROPANE	లిండికి గేర్వి మైట్లాని సమోదవర అమ్మ 100 క	0.50U	ug/L
	000124481	DIBROMOCHLOROMETHANE The first than the state of the stat	y ay festevi	0.500	rig/L
	000106934	1,2-DIBROMOETHANE	A.S. A.S 7 7	0.50U	ug/L
	000591786	2-HEXANONE		I.OU	ug/L
	000108907	CHLOROBENZENE		0.50U	ug/L·

Refer to Page 1 for an explanation of Remark Codes

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

Project Number: 05110026

*Sorted By Sample ID

Remark

AG08414

Field/Station ID: INFLUENT

Matrix: Aqueous

Date Received: 11/8/2005

Sample Description:

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

				Remark_	
	CAS Number	Analyte Name	<u>Result</u>	<u>Codes</u>	<u>Units</u>
	000630206	1,1,1,2-TETRACHLOROETHANE		0.50U	ug/L
***	100-41-4	ETHYLBENZENE	riid wa rii in	0.50U	ug/L
100	001330207	M/P-XYLENE		0.50U	ug/L
21	000095476	O-XYLENE		0.50U	ug/L
- C	000100425	STYRENE *		0.500	ug/L
-00	000075252	BROMOFORM		0.50U	ug/L
77	000098828	ISOPROPYLBENZENE		0,50U	ng/L
	000108861	BROMOBENZENE		0.50U	ug/L
	000096184	1,2,3-TRICHLOROPROPANE			ug/L
	000079345	1,1,2,2-TETRACHLOROETHANE		0.50U	ug/L
40.00	000103651	N-PROPYLBENZENE		0,50U	ug/L
	000095498	2-CHLOROTOLUENE		0.50U	ug/L
(400)	106-43-4	4-CHLOROTOLUENE	(A) # (A <u></u>	0.500	ug/L
	000108678	1,3,5-TRIMETHYLBENZENE	M 4-11/2	0.50U	ug/L
	000098066	TERT-BUTYLBENZENE - COLOR - CO	arrest of	0.50U.	ug/L
	000095636	1,2,4-TRIMETHYLBENZENE		0.50U	ug/L
۳. ب	135-98-8	SEC-BUTYLBENZENE		0.50U	ug/L
	000541731	1,3-DICHLOROBENZENE		0.50U	ug/L,
10 m	000106467	1,4-DICHLOROBENZENE		0.50U	ùg/L
	000095501	1,2-DICHLOROBENZENE	*** ***** * * * * * * * * * * * * * *	0.50U	ug/L
Section 1	000099876	4-ISOPROPYLTOLUENE		0.50U	ug/L
	000104518	N-BUTYLBENZENE	-	0.50U	ug/L
	000096128	1,2-DIBROMO-3-CHLOROPROPANE	-	5.00	ng/L
	000120821	1,2,4-TRICHLOROBENZENE		0.50U	ug/L
6 77	87-68-3	HEXACHLOROBUTADIENE	<u>-</u>	************	ug/L
	000091203	NAPHTHALENE		0.50U	ug/L
	000087616	1,2,3-TRICHLOROBENZENE		0.50U	ng/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:

	Analysis Type: VC	DA GCMS LOW LEVEL DRINKING WATER		Remark	
	CAS Number	Analyte Name	Result	<u>Codes</u>	<u>Units</u>
4 37	75-43-4	DICHLORODIFLUOROMETHANE	rui <u>us</u> tia	0.50U	ug/L
**	000074873	CHLOROMETHANE		0.50U	ug/L
	000075014	VINYL CHLORIDE	144	0,50U	ug/L
	000074839	BROMOMETHANE	+40-	0.50U	ug/L
	000075003	CHLOROETHANE	100 (100 (100 (100 (100 (100 (100 (100	0.50U	ug/L
,	000075694	TRICHLOROFLUOROMETHANE		0.50U	ug/L
2.7%	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> 2</u> 11 (2)	0.50U	ug/L
	000067641	ACETONE		10U	ug/L
. Section As	79-20-9	METHYL ACETATE		0.50U	ug/L
•	000075092	METHYLENE CHLORIDE		0.50U	ug/L
	000156605	TRANS-1,2-DICHLOROETHENE	7.44	0.50U	ug/L
	001634044	METHYL TERT-BUTYL ETHER	1.7	rengara e tragara satura son o escento sonas.	ug/L
	000075343	1,1-DICHLOROETHANE	-1.8		ug/L
	000156592	CIS-1,2-DICHLOROETHENE	5.3	- serventendermonocopologico de contra politico de contra mentende de contra	ug/L
r Vija	594-20-7	2,2-DICHLOROPROPANE	- 	0.50U	ug/L.
	000078933	2-BUTANONE		1.0U	ug/L
	000074975	BROMOCHLOROMETHANE	THAT	0.50U	ug/L
	000067663	CHLOROFORM	e de la composición dela composición de la composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición dela composición de la composición dela c	0.50U	ug/L
	71-55-6	1,1,1-TRICHEOROETHANE	4.8	With a	ug/L
as to the same state of	110-82-7	CYCLOHEXANE		0.50U	ug/L
7	000056235	CARBON TETRACHLORIDE	- 100 mg	0.50U	ug/L
and the San State of th	000563586	1,1-DICHLOROPROPENE		0.50U	ug/L
	000071432	BENZENE		0.50U	ug/L
	000107062	1,2-DICHLOROETHANE		0.50U	ug/L
and the second	025323891	TRICHLOROFTHENE	2.5	Lacerta	ng/L
	108-87-2	METHYLCYCLOHEXANE		0.50U	ug/L
गहाँ दिवसी र पूर्व	000078875	1.2-DICHLOROPROPANE (**)	A THEFT IS	0.500	ug/L
and the state of the	000074953	DIBROMOMETHANE		0.50U	ug/L
and stated in	000075274	BROMODICHLOROMETHANE	S. ATT. CO.	0.50U	ug/L
	010061015	CIS-1,3-DICHLOROPROPENE		0.50U	ug/L
. Table Colons	000108101	4-METHYL-2-PENTANONE	a ##/	1.0U	ug/L
	000108883	TOLUENE	espera in the statement and the second	0.50U	ug/L
W. Salah	010061026	TRANS-1,3-DICHLOROPROPENE	****	o.sou	og/L
	000079005	1,1,2-TRICHLOROETHANE		0.50U	ug/L
	000127184	TETRACHLOROETHENE		0.50U	ug/L
	000142289	1,3-DICHLOROPROPANE		0.50U	ug/L

Refer to Page 1 for an explanation of Remark Codes

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

Project Number: 05110026

*Sorted By Sample ID

Remark_

AG08415

Field/Station ID: EFFLUENT

Matrix: Aqueous

Sample Description:

Date Received: 11/8/2005

Analysis Type: VOA GCMS LOW LEVEL DRINKING WATER

				Remark_	
	CAS Number	Analyte Name	Result	Codes	<u>Units</u>
	000124481	DIBROMOCHLOROMETHANE	10. 14	. 0.50U	ug/L
, , , , ,	000106934	1,2-DIBROMOETHANE		0.50U	ug/L
	000591786	2-HEXANONE	3.44	1.00	ug/L
E. S. C. Joseph C. S. St. Antibudia State	000108907	CHLOROBENZENE		0.50U	ug/L
1914 新門山南縣	000630206	1,1,1,2-TETRACHLOROETHANE	ret <mark>ur</mark> ner	0.500	''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
· 海水水外	000100425	STYRENE	eri (etr e e esta	0.500	ug/L
4	000075252	BROMOFORM	18 18 18 18 18 18 18 18 18 18 18 18 18 1	0.50U	ug/L
	000098828	ISOPROPYLBENZENE	100	0.50U	ug/L
	000108861	BROMOBENZENE		0.50U	ug/L
· 新教公司	000096184	1,2,3-TRICHLOROPROPANE		10.500	ug/L
	000079345	1,1,2,2-TETRACHLOROETHANE	Say al abak se s	0.50U	ug/L
or Million State	000103651	N-PROPYLBENZENE	ALIMAN CONTRACT	0.50L1	ug/L
	000095498	2-CHLOROTOLUENE	-	0.50U	ug/L
	106-43-4	4-CHLOROTOLUENE		0 .50U	ug/L
	000108678	1,3,5-TRIMETHYLBENZENE	7 - 	0.50U	ug/L
	000098066	TERT-BUTYLBENZENE	$A \leftarrow A$	0.50U	ig/L
5 1 st. 1	000095636	1,2,4-TRIMETHYLBENZENB	de la	0.50U	ug/L
	135-98-8	SEC-BUTYLBENZENE	Par TT	0.500	.ug/L
20 - Charati Li di fore liste	000541731	1,3-DICHLOROBENZENE	and a second a second and a second a second and a second	0.50U	ug/L
	000106467	1,4-DICHLOROBENZENE		0.30U	ug/L
17 00 2500	000095501	1,2-DICHLOROBENZENE	a destruction de la company de	0.50U	ug/L
Control of the Control of the	000099876	4-ISOPROPYLTOLUENE		0.500	ng/L
	000104518	N-BUTYLBENZENE		0.50U	ug/L
. d. 1	000096128	1,2-DIBROMO-3-CHLOROPROPANE		5.00	ug/L
	000120821	1,2,4-TRICHLOROBENZENE	CANCEL STATE OF THE STATE OF TH	0.50U	ug/L
经总统会	87-68-3	HEXACHLOROBUTADIENE.	A THE PARTY	0.59U	. ve/L
	000091203	NAPHTHALENE	man in the second secon	0.50U	ug/L
	000087616	1,2,3-TRICHLOROBENZENE		0.50U	ug/L
	1330-20-7	TOTAL XYLENES		0.50U	ug/L

Date: _ /-10-06 Project Approval:

Refer to Page 1 for an explanation of Remark Codes

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