THM

Massachusetts Department of Environmental Protection - Drinking Water Program Total Trihalomethanes Report

	4122000 : Hanover Wate	r Dept				City/Town: _Hano PWS Class: COM		NC			
v 3 Ivaille	DEP Location (LOC) ID#	Г Берг.	I	EP Location Name	Sample Acidified?	Date Collected		cted by			
A				640 King St.	X Yes	03/13/2012	ті	Flynn			
	10380		Fire Station # 3		X Yes	03/13/2012		Flynn			
	7 × 1000 × 2000		1 13 8 13	70 Ponderosa	X Yes	03/13/2012		Flynn			
D 10385 70 Ponder			70 T Oliderosa	Yes	03/13/2012	1.1	- Tylin				
	or Special Sample		Original or Res	ubmitted Report		If resubmitted	report, list below:				
					Reason for resubmission Collection date of original sample						
xRSSS xOriginalResubmittedConfirmation					Resample1	Reanalysis Report Corr.					
x	_RS SS	x Original _	Resubmitte	ed Confirmation	Resample1	Reanalysis Report Corr.					
x	_RS SS	xOriginal_	Resubmitte	ed Confirmation	Resample1	Reanalysis Report Corr.					
x	_RS SS	x Original _	Resubmitte	ed Confirmation	Resample1	Reanalysis Report Corr.					
nple notes - (Such as manifold/multiple samp	le, list any sources that	were on line during	collection).							
ary Lab M	Laboratory Information A Cert. # _M-MA022 _ MA Cert. # _M-MA022	Prin		_Analytical Balance Co		acted? Y _x_ N					
	Contaminant	MC (μg/l	NAME OF STREET OF STREET OF STREET	MDL (μg/L)		Results¹ (µg					
otal THMs		80			40.6	B 67.6	C 69.4	D			
romoform		00		0.5	6.3	2.9	2.9				
hloroform				0.5	14.4	28.2	30.1				
romodichloro	omethane		Property and	0.5	10.7	22.7	22.7				
ibromochloro	omethane			0.5	9.2	13.8	13.7				
ab method	***************************************				EPA 524.2	EPA 524.2					
ate extracted	(551.1 only)										
ate analyzed					03/14/2012	03/14/2012	03/14/2012				
ab Sample ID)				45190-01	45190-02	45190-03				
urrogate # 1		1,2-dichlorobe	nzene d ₄		101%	103%	101%				
urrogate # 2		4-bromofluoro			98%	101%	99%				
	as a number greater than 0 o	r ND (not a <mdl< td=""><td>value).</td><td></td><td></td><td></td><td></td><td></td></mdl<>	value).								
A											
В		36	!		19 × 1 g		NTY F	-			
С				78							
D			W. Carlo	A.S.			7	B			
this form	er penalties of law the and the information the to the best extent of	contained her	rein is true, a	ccurate Prin	nary Lab Director Sign	ature:	25	1			
					: our DEP Regional Office ng period, whichever is s		ter the end of the mo	onth in			

THM

Massachusetts Department of Environmental Protection - Drinking Water Program Total Trihalomethanes Report

	ater Dept.		NAME OF THE OWNER OWNER OF THE OWNER OWNE	City/Town: _Han PWS Class: CON	1 X NTNC	NC		
DEP Location (LOC) ID#		DEP Location Name	Sample Acidified?	Date Collected	Collec	cted by		
A 10380		640 King St.	XYes	06/05/2012	T. F	lynn		
В 10383		Fire Station # 3	XYes	06/05/2012	Т. F	lynn		
C 10385		70 Ponderosa	X Yes	06/05/2012	T. F	lynn		
D			Yes					
Routine or Special Sample	Original o	or Resubmitted Report		If resubmitte	d report, list below:			
			Reason for resubmission Collection date of original sample					
xSS	xOriginalResu	bmitted Confirmation	ResampleR	Reanalysis Report Corr.				
xRSSS	xOriginalResu	bmitted Confirmation	ResampleR	Reanalysis Report Corr.				
xRSSS	xOriginalResu	bmitted Confirmation	ResampleR	Reanalysis Report Corr.				
O RS SS	OriginalResu	abmitted Confirmation	ResampleR	Reanalysis Report Corr.				
sample notes - (Such as manifold/multiple	sample, list any sources that were on line	during collection).						
A								
В				=		/		
2								
D								
. Analytical Laboratory Inform rimary Lab MA Cert. # _M-MA0: nalysis Lab MA Cert. # _M-MA0	Primary Lab N	ame: _Analytical Balance Corp.		acted? Y _x_ N				
Contaminant	MCL (μg/L)	MDL (μg/L)		Results¹ (,	μg/L)			
			A	В	c	D		
Total THMs	80		67.5	106	109			
Bromoform		0.5	3.8	1.0	0.7			
Chloroform		0.5	35.6	60.8	63.0			
Bromodichloromethane 0.5			18.5	32.8	33.9			
	Dibromochloromethane							
		0.5	9.6	10.9	11.0			
Dibromochloromethane		0.5	9.6 EPA 524.2	10.9 EPA 524.2	11.0 EPA 524.2			
Dibromochloromethane Lab method		0.5						
Dibromochloromethane Lab method Date extracted (551.1 only)		0.5	EPA 524.2	EPA 524.2	EPA 524.2			
Dibromochloromethane Lab method Date extracted (551.1 only) Date analyzed		0.5	EPA 524.2	EPA 524.2	EPA 524.2			
Dibromochloromethane Lab method Date extracted (551.1 only) Date analyzed Lab Sample ID	1,2-dichlorobenzene d ₄	0.5	EPA 524.2	EPA 524.2 06/05/2012	EPA 524.2 06/05/2012			
Dibromochloromethane Lab method Date extracted (551.1 only) Date analyzed Lab Sample ID Surrogate # 1	$1,2$ -dichlorobenzene d_4 4-bromofluorobenzene	0.5	EPA 524.2 06/05/2012 47506-01	EPA 524.2 06/05/2012 47506-02	EPA 524.2 06/05/2012 47506-03			
Dibromochloromethane Lab method Date extracted (551.1 only) Date analyzed Lab Sample ID Surrogate # 1 Surrogate # 2 Report results as a number greater than	4-bromofluorobenzene	0.5	EPA 524.2 06/05/2012 47506-01 107%	EPA 524.2 06/05/2012 47506-02 109%	EPA 524.2 06/05/2012 47506-03 110%			
Dibromochloromethane Lab method Date extracted (551.1 only) Date analyzed Lab Sample ID Surrogate # 1 Surrogate # 2 Lab sample notes:	4-bromofluorobenzene	0.5	EPA 524.2 06/05/2012 47506-01 107%	EPA 524.2 06/05/2012 47506-02 109%	EPA 524.2 06/05/2012 47506-03 110%			
Dibromochloromethane Lab method Date extracted (551.1 only) Date analyzed Lab Sample ID Surrogate # 1 Surrogate # 2 eport results as a number greater than Lab sample notes: A	4-bromofluorobenzene n 0 or ND (not a <mdl td="" value).<=""><td>0.5</td><td>EPA 524.2 06/05/2012 47506-01 107%</td><td>EPA 524.2 06/05/2012 47506-02 109%</td><td>EPA 524.2 06/05/2012 47506-03 110%</td><td></td></mdl>	0.5	EPA 524.2 06/05/2012 47506-01 107%	EPA 524.2 06/05/2012 47506-02 109%	EPA 524.2 06/05/2012 47506-03 110%			
Dibromochloromethane Lab method Date extracted (551.1 only) Date analyzed Lab Sample ID Surrogate # 1 Surrogate # 2 eport results as a number greater than Lab sample notes: A B Sample # 47506-02 exceed	4-bromofluorobenzene	0.5	EPA 524.2 06/05/2012 47506-01 107%	EPA 524.2 06/05/2012 47506-02 109%	EPA 524.2 06/05/2012 47506-03 110%			
Dibromochloromethane Lab method Date extracted (551.1 only) Date analyzed Lab Sample ID Surrogate # 1 Surrogate # 2 Eport results as a number greater than Lab sample notes: A B Sample # 47506-02 exceed	4-bromofluorobenzene n 0 or ND (not a <mdl for="" is="" mcl="" td="" the="" total="" trihalomethanes.<="" value).=""><td>0.5</td><td>EPA 524.2 06/05/2012 47506-01 107%</td><td>EPA 524.2 06/05/2012 47506-02 109%</td><td>EPA 524.2 06/05/2012 47506-03 110%</td><td></td></mdl>	0.5	EPA 524.2 06/05/2012 47506-01 107%	EPA 524.2 06/05/2012 47506-02 109%	EPA 524.2 06/05/2012 47506-03 110%			
Dibromochloromethane Lab method Date extracted (551.1 only) Date analyzed Lab Sample ID Surrogate # 1 Surrogate # 2 eport results as a number greater than Lab sample notes: A B Sample # 47506-02 exceed C Sample # 47506-03 exceed D ertify under penalties of lat this form and the informatical entering and the sample method.	4-bromofluorobenzene n 0 or ND (not a <mdl am="" autition="" contained="" for="" herein="" i="" is="" mcl="" person="" td="" that="" the="" total="" trihalomethanes.="" tru<="" value).="" we=""><td>horized to fill</td><td>EPA 524.2 06/05/2012 47506-01 107%</td><td>EPA 524.2 06/05/2012 47506-02 109% 111%</td><td>EPA 524.2 06/05/2012 47506-03 110%</td><td></td></mdl>	horized to fill	EPA 524.2 06/05/2012 47506-01 107%	EPA 524.2 06/05/2012 47506-02 109% 111%	EPA 524.2 06/05/2012 47506-03 110%			
Dibromochloromethane Lab method Date extracted (551.1 only) Date analyzed Lab Sample ID Surrogate # 1 Surrogate # 2 eport results as a number greater than Lab sample notes: A B Sample # 47506-02 exceed C Sample # 47506-03 exceed Detrify under penalties of latt this form and the informated complete to the best externot submitting these results.	4-bromofluorobenzene n 0 or ND (not a <mdl am="" autilition="" contained="" electronically,="" for="" herein="" i="" is="" knowledge.="" mail="" mcl="" my="" of="" person="" td="" that="" the="" total="" trihalomethanes.="" truint="" two<="" value).="" we=""><td>horized to fill</td><td>EPA 524.2 06/05/2012 47506-01 107% 109% ary Lab Director Signa or DEP Regional Office</td><td>EPA 524.2 06/05/2012 47506-02 109% 111% Date:</td><td>EPA 524.2 06/05/2012 47506-03 110% 113%</td><td>John 12</td></mdl>	horized to fill	EPA 524.2 06/05/2012 47506-01 107% 109% ary Lab Director Signa or DEP Regional Office	EPA 524.2 06/05/2012 47506-02 109% 111% Date:	EPA 524.2 06/05/2012 47506-03 110% 113%	John 12		

Massachusetts Department of Environmental Protection - Drinking Water Program

Trihalomethane Report

Location

Location

Data Check - Unsigned

PWS ID #: 4122000

City/Town: HANOVER

PWS Name:

Location ID

HANOVER WATER DEPT

PWS Class:

COM

Resubmit Reason:

Primary Lab MA Cert #: M-MA022

Routine/ Special: Collected By:

Collection Date:

O/R/C: 0

Original Collection:

10380 Sample Comments:

640 KING STREET

RS

W. MILLS

9/18/2012

Analysis Comments:

Primary Lab Name: ANALYTICAL BALANCE CORP

Lab Sample ID:

			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		125	100001	
Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID	: Analytical Lab:
BROMODICHLOROMETHANE	9.6	UG/L	0.5	EPA 524.2	9/18/2012	M-MA022	ANALYTICAL BALANCE CORP
BROMOFORM	2.6	UG/L	0.5	EPA 524.2	9/18/2012	M-MA022	ANALYTICAL BALANCE CORP
CHLOROFORM	12.9	UG/L	0.5	EPA 524.2	9/18/2012	M-MA022	ANALYTICAL BALANCE CORP
DIBROMOCHLOROMETHANE	6.4	UG/L	0.5	EPA 524.2	9/18/2012	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	31.5	UG/L	0.5	EPA 524.2	9/18/2012	M-MA022	ANALYTICAL BALANCE CORP

10383	FIRE STATION #3

RS W. MILLS **Collection Date:** 9/18/2012 O/R/C: Resubmit Reason: **Original Collection:**

Sample Comments:

Analysis Comments:

Routine/ Special: Collected By:

Lab Sample ID:

125108002

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID	: Analytical Lab:
BROMODICHLOROMETHANE	26.2	UG/L	0.5	EPA 524.2	9/18/2012	M-MA022	ANALYTICAL BALANCE CORP
BROMOFORM	2.2	UG/L	0.5	EPA 524.2	9/18/2012	M-MA022	ANALYTICAL BALANCE CORP
CHLOROFORM	53.6	UG/L	0.5	EPA 524.2	9/18/2012	M-MA022	ANALYTICAL BALANCE CORP
DIBROMOCHLOROMETHANE	10.2	UG/L	0.5	EPA 524.2	9/18/2012	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	92.2	UG/L	0.5	EPA 524.2	9/18/2012	M-MA022	ANALYTICAL BALANCE CORP

10385

Location ID

Location 70 PONDEROSA Routine/ Special: Collected By: RS

W. MILLS

Collection Date: 9/18/2012

O/R/C: Resubmit Reason: 0

Original Collection:

Sample Comments:

R/F = Raw or Finished water sample site.
MDL = Method Detection Limit.

Analysis Comments:

Lab Sample ID:

125108003

Contaminant: BROMOFORM

Result: UOM: MDL: BROMODICHLOROMETHANE 297 UG/I 0.5 1.5 UG/L 0.5 CHLOROFORM 62.7 UG/L M/S = Multiple or Single sources represented in sample site. D/S = Distribution or Source sample site.

EPA 524.2 EPA 524.2 EPA 524.2 PWS ID #: 4122000

Analytical Method:

Analysis Date: 9/18/2012 9/18/2012 9/18/2012

PWS Name: HANOVER WATER DEPT

Analytical Lab ID: M-MA022 M-MA022 M-MA022

ANALYTICAL BALANCE CORP ANALYTICAL BALANCE CORP ANALYTICAL BALANCE CORP 9/27/2012 2:17:13 PM

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Analytical Lab:

UOM = Unit of Measurement. O/R/C = Original submittal or Resubmitted submittal or Confirmation sample. Massachusetts Department of Environmental Protection - Drinking Water Program

Trihalomethane Report

Data Check - Unsigned

DIBROMOCHLOROMETHANE	10.5	UG/L	0.5	EPA 524.2	9/18/2012	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	104	UG/L	0.5	EPA 524.2	9/18/2012	M-MA022	ANALYTICAL BALANCE CORP

EDEP Transaction ID: 508441

M/S = Multiple or Single sources represented in sample site.
D/S = Distribution or Source sample site.
R/F = Raw or Finished water sample site.
MDL = Method Detection Limit.
UOM = Unit of Measurement.
O/R/C = Original submittal or Resubmitted submittal or Confirmation sample.

PWS ID #: 4122000
PWS Name: HANOVER WATER DEPT

9/27/2012 2:17:13 PM Page 2 of 2 PWS ID #: 4122000

City/Town: HANOVER

PWS Name:

HANOVER WATER DEPT

PWS Class:

M-MA022

M-MA022

11/6/2012

11/6/2012

4122000

PWS Name HANOVER WATER DEPT

ANALYTICAL BALANCE CORP

ANALYTICAL BALANCE CORP

11/29/2012 8:29:34 AM

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Page

COM

Primary Lab MA Cert #: M-MA022

Primary Lab Name: ANALYTICAL BALANCE CORP.

Location ID	Location		Routi	ne/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason;	Original Collection:		
10380	640 KING STREET	-	RS		W. MILLS	11/6/2012	0				
Sample Comments:			Anal	ysis Comm	ints:	Lab	Lab Sample ID:				
·						125	250601				
Contaminant:		Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical I	Lab ID: Analy	rtical Lab:		
BROMODICHLO	ROMETHANE	12.2	UG/L	0.5	EPA 524.2	11/6/2012	M-MA022	ANALYTICAL BA	LANCE CORP		
BROMOFORM		0.8	UG/L	0.5	EPA 524.2	11/6/2012	M-MA022	ANALYTICAL BA	LANCE CORP		
CHLOROFORM		20.2	UG/L	0.5	EPA 524.2	11/6/2012	M-MA022	ANALYTICAL BA	LANCE CORP		
DIBROMOCHLO	ROMETHANE	3.9	UG/L	0.5	EPA 524.2	11/6/2012	M-MA022	ANALYTICAL BA	LANCE CORP		
	TOTAL TRIHALOMETHANES 37.1		UG/L	0.5	EPA 524.2	11/6/2012	M-MA022	ANALYTICAL BA			
Location ID	Location		Routi	ne/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:		
10383	FIRE STATION #3		RS		W. MILLS	11/6/2012	0				
Sample Comments:			Anal	ysis Comme	ents:	Lab	Sample ID:				
						125	250602				
Contaminant:		Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical I	Lab ID: Analy	tical Lab:		
BROMODICHLO	ROMETHANE	21.1	UG/L	0.5	EPA 524.2	11/6/2012	M-MA022	ANALYTICAL BA	LANCE CORP		
BROMOFORM		3.1	UG/L	0.5	EPA 524.2	11/6/2012	M-MA022	ANALYTICAL BA	LANCE CORP		
CHLOROFORM		42.2	UG/L	0.5	EPA 524.2	11/6/2012	M-MA022	ANALYTICAL BA	LANCE CORP		
DIBROMOCHLO	ROMETHANE	10.6	UG/L	0.5	EPA 524.2	11/6/2012	M-MA022	ANALYTICAL BA	LANCE CORP		
TOTAL TRIHALO	DMETHANES	77.0	UG/L	0.5	EPA 524.2	11/6/2012	M-MA022	ANALYTICAL BA	LANCE CORP		
Location iD	Location		Routi	ne/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:		
10385	70 PONDEROSA		RS		W. MILLS	11/6/2012	0				
Sample Comme	Sample Comments:		Anal	ysis Comme	ents:	Lab Sample ID:					
						125	250603				
Contaminant:		Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical I	Lab ID: Analy			
BROMODICHLOROMETHANE		26.7	UG/L	0.5	EPA 524.2	11/6/2012	M-MA022	ANALYTICAL BA	I ANCE CODD		

EPA 524.2

EPA 524.2

PWS ID #.

M/S = Multiple or Single sources represented in sample site.

D/S = Distribution or Source sample site.

R/F = Raw or Finished water sample site.

MDL = Method Detection Limit. UOM = Unit of Measurement.

BROMOFORM

CHLOROFORM

O/R/C = Original submittal or Resubmitted submittal or Confirmation sample.

1.0

54.9

UG/L

UG/L

0.5

0.5

DIBROMOCHLOROMETHANE	106	UG/L	0.5	EPA 524.2	11/6/2012	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	93. 2	UG/L	0.5	EPA 524.2	11/6/2012	M-MA022	ANALYTICAL BALANCE CORP

Primary Lab Signature: Robert Bentley

Date: 11/29/2012

Certified Signer User Name: ANALYTICAL

EDEP Transaction ID: 523709

M/S = Multiple or Single sources represented in sample site. D/S = Distribution or Source sample site.

R/F = Raw or Finished water sample site.

MDL = Method Detection Limit.

UOM = Unit of Measurement.

O/R/C = Original submittal or Resubmitted submittal or Confirmation sample.

PWS ID #. 4122000

PWS Name. HANOVER WATER DEPT

11/29/2012 8:29:34 AM

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