

Trihalomethane Report

Data Check - Unsigned

PWS ID #: 4122000 City/Town: HANOVER
 PWS Name: HANOVER WATER DEPT
 Primary Lab MA Cert #: M-MA022 Primary Lab Name: ANALYTICAL BALANCE CORP

PWS Class: COM

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10383	925 CIRCUIT ST - FIRE STATION #3	RS	W. MILLS	3/3/2015	O		
Sample Comments:		Analysis Comments:		Lab Sample ID:			
				157499901			

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
BROMODICHLOROMETHANE	22.5	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP
BROMOFORM	7.0	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP
CHLOROFORM	28.9	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP
DIBROMOCHLOROMETHANE	18.8	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	77.2	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10385	70 PONDEROSA	RS	W. MILLS	3/3/2015	O		
Sample Comments:		Analysis Comments:		Lab Sample ID:			
				157499902			

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
BROMODICHLOROMETHANE	22.9	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP
BROMOFORM	9.3	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP
CHLOROFORM	16.9	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP
DIBROMOCHLOROMETHANE	30.9	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	80.0	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10388	33 ROCKLAND ST - HANOVER FITNESS	RS	W. MILLS	3/3/2015	O		
Sample Comments:		Analysis Comments:		Lab Sample ID:			
				157499903			

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
BROMODICHLOROMETHANE	25.0	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP
BROMOFORM	0.6	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP

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

3/16/2015 8:45:09 AM

Trihalomethane Report

Data Check - Unsigned

CHLOROFORM	46.7	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP
DIBROMOCHLOROMETHANE	7.9	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	80.2	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10387	2055 WASHINGTON ST - COMPUTER CENTER	RS	W. MILLS	3/3/2015	O		

Sample Comments:

Analysis Comments:

Lab Sample ID:

157499904

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
BROMODICHLOROMETHANE	8.5	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP
BROMOFORM	5.6	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP
CHLOROFORM	3.6	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP
DIBROMOCHLOROMETHANE	12.9	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	30.6	UG/L	0.5	EPA 524.2	3/6/2015	M-MA022	ANALYTICAL BALANCE CORP

EDEP Transaction ID: 727920

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.



Neal Merritt
 Hanover Water Dept.
 40 Pond St.
 Hanover, MA 02339

COLLECTED BY: W. Mills
 TIME: 13:35
 LOCATION: Pond St. Clearwell
 Grab

REPORTED: 03/27/2015
 ORDER #: G1575286
 SAMPLE DATE: 3/17/2015
 DATE RECEIVED: 3/17/2015
 SAMPLE ID: Special
 DESCRIPTION: DRINKING WATER

CERTIFICATE OF ANALYSIS

RESULTS OF ANALYSIS

Compound (regulated)	Result (µg/L)	MCL ¹ (µg/L)	Detection Limit (µg/L)	Analytical Method	Date Analyzed
<i>Trihalomethanes 524.2</i>			LAB-ID#: 1575286-01		
Total Trihalomethanes	4.6	80.0	0.5	EPA 524.2	03/24/2015
Bromoform	1.0	---	0.5	EPA 524.2	03/24/2015
Chloroform	0.8	---	0.5	EPA 524.2	03/24/2015
Bromodichloromethane	1.2	---	0.5	EPA 524.2	03/24/2015
Dibromochloromethane	1.6	---	0.5	EPA 524.2	03/24/2015

Surrogate Recoveries (As required by EPA methods 524.1 and 524.2)

Compound	% Recovered	QC Limits (%)	
1,2-dichlorobenzene-d4	97	70	130
4-bromofluorobenzene	95	70	130



Neal Merritt
 Hanover Water Dept.
 40 Pond St.
 Hanover, MA 02339

CERTIFICATE OF ANALYSIS

COLLECTED BY: W. Mills
 TIME: 13:45
 LOCATION: Pond St. 100 Ft. Finish
 Grab

REPORTED: 03/27/2015
 ORDER #: G1575286
 SAMPLE DATE: 3/17/2015
 DATE RECEIVED: 3/17/2015
 SAMPLE ID: Special
 DESCRIPTION: DRINKING WATER

RESULTS OF ANALYSIS

Compound (regulated)	Result (µg/L)	MCL ¹ (µg/L)	Detection Limit (µg/L)	Analytical Method	Date Analyzed
<i>Trihalomethanes 524.2</i>			LAB-ID#: 1575286-02		
Total Trihalomethanes	12.0	80.0	0.5	EPA 524.2	03/24/2015
Bromoform	3.2	---	0.5	EPA 524.2	03/24/2015
Chloroform	1.3	---	0.5	EPA 524.2	03/24/2015
Bromodichloromethane	2.8	---	0.5	EPA 524.2	03/24/2015
Dibromochloromethane	4.7	---	0.5	EPA 524.2	03/24/2015

Surrogate Recoveries (As required by EPA methods 524.1 and 524.2)

Compound	% Recovered	QC Limits (%)	
1,2-dichlorobenzene-d4	96	70	130
4-bromofluorobenzene	95	70	130

Approved By: _____
 (Lab Manager) / Date

ND = Not Detected

1. These limits are maximum contaminant levels (MCL) as adopted by the Commonwealth of Massachusetts and represent the maximum acceptable level in drinking Water.

Haloacetic Acids Report

Data Check - Unsigned

PWS ID #: 4122000 City/Town: HANOVER
 PWS Name: HANOVER WATER DEPT
 Primary Lab MA Cert #: M-MA022 Primary Lab Name: ANALYTICAL BALANCE CORP

PWS Class: COM

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10383	925 CIRCUIT ST - FIRE STATION #3	RS	W. MILLS	6/5/2015	O		
Sample Comments:		Analysis Comments:		Lab Sample ID:			
				157748401			

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
MONOCHLOROACETIC ACID	ND	UG/L	2	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
DIBROMOACETIC ACID	ND	UG/L	1	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
TRICHLOROACETIC ACID	ND	UG/L	1	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
MONOBROMOACETIC ACID	ND	UG/L	2	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
DICHLOROACETIC ACID	ND	UG/L	3	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
HALOACETIC ACIDS	ND	UG/L	1	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10385	70 PONDEROSA	RS	W. MILLS	6/5/2015	O		
Sample Comments:		Analysis Comments:		Lab Sample ID:			
				157748402			

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
MONOCHLOROACETIC ACID	ND	UG/L	2	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
DIBROMOACETIC ACID	ND	UG/L	1	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
TRICHLOROACETIC ACID	5.9	UG/L	1	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
MONOBROMOACETIC ACID	ND	UG/L	2	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
DICHLOROACETIC ACID	ND	UG/L	3	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
HALOACETIC ACIDS	5.9	UG/L	1	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10388	33 ROCKLAND ST - HANOVER FITNESS	RS	W. MILLS	6/5/2015	O		
Sample Comments:		Analysis Comments:		Lab Sample ID:			
				157748403			

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.

Haloacetic Acids Report

Data Check - Unsigned

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
MONOCHLOROACETIC ACID	ND	UG/L	2	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
DIBROMOACETIC ACID	2.6	UG/L	1	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
TRICHLOROACETIC ACID	1.7	UG/L	1	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
MONOBROMOACETIC ACID	ND	UG/L	2	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
DICHLOROACETIC ACID	4.0	UG/L	3	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
HALOACETIC ACIDS	8.3	UG/L	1	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10387	2055 WASHINGTON ST - COMPUTER CENTER	RS	W. MILLS	6/5/2015	O		

Sample Comments:

Analysis Comments:

Lab Sample ID:

157748404

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
MONOCHLOROACETIC ACID	ND	UG/L	2	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
DIBROMOACETIC ACID	4.0	UG/L	1	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
TRICHLOROACETIC ACID	8.2	UG/L	1	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
MONOBROMOACETIC ACID	ND	UG/L	2	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
DICHLOROACETIC ACID	10.2	UG/L	3	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY
HALOACETIC ACIDS	22.4	UG/L	1	EPA 552.2	6/16/2015	M-RI002	ESS LABORATORY

EDEP Transaction ID: 752109

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

6/22/2015 3:22:46 PM

Page 2 of 2

Trihalomethane Report

Data Check - Unsigned

PWS ID #: 4122000 City/Town: HANOVER
 PWS Name: HANOVER WATER DEPT
 Primary Lab MA Cert #: M-MA022 Primary Lab Name: ANALYTICAL BALANCE CORP

PWS Class: COM

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10383	925 CIRCUIT ST - FIRE STATION #3	RS	W. MILLS	6/5/2015	O		
Sample Comments:		Analysis Comments:		Lab Sample ID:			
				157748401			

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
BROMODICHLOROMETHANE	11.9	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP
BROMOFORM	6.6	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP
CHLOROFORM	8.0	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP
DIBROMOCHLOROMETHANE	15.6	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	42.1	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10385	70 PONDEROSA	RS	W. MILLS	6/5/2015	O		
Sample Comments:		Analysis Comments:		Lab Sample ID:			
				157748402			

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
BROMODICHLOROMETHANE	35.0	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP
BROMOFORM	4.9	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP
CHLOROFORM	30.9	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP
DIBROMOCHLOROMETHANE	26.7	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	97.5	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10388	33 ROCKLAND ST - HANOVER FITNESS	RS	W. MILLS	6/5/2015	O		
Sample Comments:		Analysis Comments:		Lab Sample ID:			
				157748403			

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
BROMODICHLOROMETHANE	14.9	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP
BROMOFORM	0.5	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP

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

6/22/2015 3:22:46 PM

Trihalomethane Report

Data Check - Unsigned

CHLOROFORM	57.2	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP
DIBROMOCHLOROMETHANE	4.0	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	76.6	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10387	2055 WASHINGTON ST - COMPUTER CENTER	RS	W. MILLS	6/5/2015	O		

Sample Comments:

Analysis Comments:

Lab Sample ID:

157748404

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
BROMODICHLOROMETHANE	23.5	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP
BROMOFORM	1.8	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP
CHLOROFORM	24.5	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP
DIBROMOCHLOROMETHANE	15.9	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	65.7	UG/L	0.5	EPA 524.2	6/10/2015	M-MA022	ANALYTICAL BALANCE CORP

EDEP Transaction ID: 752109

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

6/22/2015 3:22:46 PM

Page 2 of 2



Neal Merritt
 Hanover Water Dept.
 40 Pond St.
 Hanover, MA 02339

COLLECTED BY: W. Mills
 TIME: 12:00
 LOCATION: 58 Rockland St.

REPORTED: 08/12/2015
 ORDER #: G1579420
 SAMPLE DATE: 8/4/2015
 DATE RECEIVED: 8/4/2015
 SAMPLE ID: Special
 DESCRIPTION: DRINKING WATER

CERTIFICATE OF ANALYSIS

RESULTS OF ANALYSIS

Compound (regulated)	Result (µg/L)	MCL ¹ (µg/L)	Detection Limit (µg/L)	Analytical Method	Date Analyzed
<i>Trihalomethanes 524.2</i>			LAB-ID#: 1579420-01		
Total Trihalomethanes	7.1	80.0	0.5	EPA 524.2	08/10/2015
Bromoform	1.1	---	0.5	EPA 524.2	08/10/2015
Chloroform	1.1	---	0.5	EPA 524.2	08/10/2015
Bromodichloromethane	1.9	---	0.5	EPA 524.2	08/10/2015
Dibromochloromethane	3.0	---	0.5	EPA 524.2	08/10/2015

Surrogate Recoveries (As required by EPA methods 524.1 and 524.2)

Compound	% Recovered	QC Limits (%)	
1,2-dichlorobenzene-d4	94	70	130
4-bromofluorobenzene	89	70	130

Approved By: _____
 (Lab Manager) / Date

ND = Not Detected

1. These limits are maximum contaminant levels (MCL) as adopted by the Commonwealth of Massachusetts and represent the maximum acceptable level in drinking Water.

Haloacetic Acids Report

Data Check - Unsigned

PWS ID #: 4122000 City/Town: HANOVER
 PWS Name: HANOVER WATER DEPT
 Primary Lab MA Cert #: M-MA022 Primary Lab Name: ANALYTICAL BALANCE CORP

PWS Class: COM

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10383	925 CIRCUIT ST - FIRE STATION #3	RS	R. FARLEY	9/10/2015	O		
Sample Comments:		Analysis Comments:		Lab Sample ID:			
				158070701			

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
MONOCHLOROACETIC ACID	ND	UG/L	2	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
DIBROMOACETIC ACID	1.6	UG/L	1	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
TRICHLOROACETIC ACID	ND	UG/L	1	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
MONOBROMOACETIC ACID	ND	UG/L	2	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
DICHLOROACETIC ACID	ND	UG/L	3	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
HALOACETIC ACIDS	1.6	UG/L	1	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10385	70 PONDEROSA	RS	R. FARLEY	9/10/2015	O		
Sample Comments:		Analysis Comments:		Lab Sample ID:			
				158070702			

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
MONOCHLOROACETIC ACID	ND	UG/L	2	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
DIBROMOACETIC ACID	1.0	UG/L	1	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
TRICHLOROACETIC ACID	2.0	UG/L	1	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
MONOBROMOACETIC ACID	ND	UG/L	2	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
DICHLOROACETIC ACID	ND	UG/L	3	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
HALOACETIC ACIDS	3.0	UG/L	1	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10388	33 ROCKLAND ST - HANOVER FITNESS	RS	R. FARLEY	9/10/2015	O		
Sample Comments:		Analysis Comments:		Lab Sample ID:			
				158070703			

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

9/28/2015 8:55:04 AM
 Page 1 of 2

Haloacetic Acids Report

Data Check - Unsigned

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
MONOCHLOROACETIC ACID	ND	UG/L	2	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
DIBROMOACETIC ACID	1.7	UG/L	1	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
TRICHLOROACETIC ACID	1.3	UG/L	1	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
MONOBROMOACETIC ACID	ND	UG/L	2	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
DICHLOROACETIC ACID	ND	UG/L	3	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
HALOACETIC ACIDS	3.0	UG/L	1	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10387	2055 WASHINGTON ST - COMPUTER CENTER	RS	R. FARLEY	9/10/2015	O		

Sample Comments:

Analysis Comments:

Lab Sample ID:

158070704

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
MONOCHLOROACETIC ACID	ND	UG/L	2	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
DIBROMOACETIC ACID	4.5	UG/L	1	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
TRICHLOROACETIC ACID	3.8	UG/L	1	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
MONOBROMOACETIC ACID	ND	UG/L	2	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
DICHLOROACETIC ACID	3.9	UG/L	3	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY
HALOACETIC ACIDS	12.2	UG/L	1	EPA 552.2	9/18/2015	M-RI002	ESS LABORATORY

EDEP Transaction ID: 777312

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

9/28/2015 8:55:04 AM

Page 2 of 2

Trihalomethane Report

Data Check - Unsigned

PWS ID #: 4122000 City/Town: HANOVER
 PWS Name: HANOVER WATER DEPT
 Primary Lab MA Cert #: M-MA022 Primary Lab Name: ANALYTICAL BALANCE CORP

PWS Class: COM

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10383	925 CIRCUIT ST - FIRE STATION #3	RS	R. FARLEY	9/10/2015	O		
Sample Comments:		Analysis Comments:		Lab Sample ID:			
				158070701			

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
BROMODICHLOROMETHANE	9.4	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP
BROMOFORM	6.2	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP
CHLOROFORM	6.4	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP
DIBROMOCHLOROMETHANE	12.8	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	34.8	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10385	70 PONDEROSA	RS	R. FARLEY	9/10/2015	O		
Sample Comments:		Analysis Comments:		Lab Sample ID:			
				158070702			

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
BROMODICHLOROMETHANE	27.2	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP
BROMOFORM	8.4	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP
CHLOROFORM	18.5	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP
DIBROMOCHLOROMETHANE	28.6	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	82.7	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10388	33 ROCKLAND ST - HANOVER FITNESS	RS	R. FARLEY	9/10/2015	O		
Sample Comments:		Analysis Comments:		Lab Sample ID:			
				158070703			

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
BROMODICHLOROMETHANE	2.0	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP
BROMOFORM	1.3	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP

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
 9/28/2015 8:55:05 AM

Trihalomethane Report

Data Check - Unsigned

CHLOROFORM	1.5	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP
DIBROMOCHLOROMETHANE	3.2	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	8.0	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP

Location ID	Location	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection:
10387	2055 WASHINGTON ST - COMPUTER CENTER	RS	R. FARLEY	9/10/2015	O		

Sample Comments:

Analysis Comments:

Lab Sample ID:

158070704

Contaminant:	Result:	UOM:	MDL:	Analytical Method:	Analysis Date:	Analytical Lab ID:	Analytical Lab:
BROMODICHLOROMETHANE	15.8	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP
BROMOFORM	4.2	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP
CHLOROFORM	9.6	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP
DIBROMOCHLOROMETHANE	17.0	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP
TOTAL TRIHALOMETHANES	46.6	UG/L	0.5	EPA 524.2	9/10/2015	M-MA022	ANALYTICAL BALANCE CORP

EDEP Transaction ID: 777312

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

9/28/2015 8:55:05 AM

Page 2 of 2

Massachusetts Department of Environmental Protection - Drinking Water Program

THM

Total Trihalomethanes Report

PWS Information: Please refer to your DEP Water Sampling Schedule (WQSS) to help complete this form.

PWS ID #: 4122000

PWS Name: Hanover Water Department

City/Town: Hanover

PWS Class: COM NTNC NC

DEP Location (LOC) ID#		DEP Location Name	Sample Acidified?	Date Collected	Collected by
A	10383	Fire Station #3	X Yes	12/01/2015	W. Mills
B	10385	70 Ponderosa Drive	X Yes	12/01/2015	W. Mills
C	10388	33 Rockland Street	X Yes	12/01/2015	W. Mills
D	10387	2055 Washington Street	X Yes	12/01/2015	W. Mills
Routine or Special Sample		Original or Resubmitted Report		If resubmitted report, list below:	
				Reason for resubmission	Collection date of original sample
A	<input checked="" type="checkbox"/> RS <input type="checkbox"/> SS	<input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation		<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Corr.	
B	<input checked="" type="checkbox"/> RS <input type="checkbox"/> SS	<input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation		<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Corr.	
C	<input checked="" type="checkbox"/> RS <input type="checkbox"/> SS	<input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation		<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Corr.	
D	<input checked="" type="checkbox"/> RS <input type="checkbox"/> SS	<input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation		<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Corr.	
Sample notes - (Such as manifold/multiple sample, list any sources that were on line during collection).					
A					
B					
C					
D					

II. Analytical Laboratory Information:

Primary Lab MA Cert. # M-MA022

Primary Lab Name: Analytical Balance Corp.

Subcontracted? Y N

Analysis Lab MA Cert. # M-MA022

Analysis Lab Name: Analytical Balance Corp.

Contaminant	MCL (µg/L)	MDL (µg/L)	Results ¹ (µg/L)			
			A	B	C	D
Total THMs	80	----	40.9	58.7	33.1	45.6
Bromoform		0.5	14.2	6.4	3.5	1.3
Chloroform		0.5	4.0	14.6	7.0	17.8
Bromodichloromethane		0.5	7.7	19.3	10.6	16.6
Dibromochloromethane		0.5	15.0	18.4	12.0	9.9
Lab method			EPA 524.2	EPA 524.2	EPA 524.2	EPA 524.2
Date extracted (51.1 only)			----	----	----	----
Date analyzed			12/04/2015	12/04/2015	12/04/2015	12/04/2015
Lab Sample ID			82988-01	82988-02	82988-03	82988-04
Surrogate # 1	1,2-dichlorobenzene d ₄		95%	94%	79%	73%
Surrogate # 2	4-bromofluorobenzene		99%	100%	84%	88%

¹ Report results as a number greater than 0 or ND (not a <MDL value).

Lab sample notes:	
A	
B	
C	
D	

Robert E. Bentley

Digitally signed by Robert E. Bentley
 DN: cn=Robert E. Bentley, o=US - UNITED STATES, ou=Analytical Balance Corp., email=rob@h2otest.net

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Primary Lab Director Signature/Date: 12/21/2015

p. 1 of 2

If not submitting these results electronically, mail TWO copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner.

DEP REVIEW STATUS (Initial & date) Accepted _____ Disapproved _____	Review comments	_____ WQTS data entered
--	-----------------	-------------------------

Massachusetts Department of Environmental Protection - Drinking Water Program

THM

Total Trihalomethanes Report

PWS Information: Please refer to your DEP Water Sampling Schedule (WQSS) to help complete this form.

PWS ID #: 4122000

City/Town: Hanover

PWS Name: Hanover Water Department

PWS Class: COM NTNC NC

DEP Location (LOC) ID#	DEP Location Name	Sample Acidified?	Date Collected	Collected by
A 10374	Pond Street WTP	X Yes	12/01/2015	W. Mills
B 10375	PC Beal WTP	X Yes	12/01/2015	W. Mills
C 10386	Broadway WTP	X Yes	12/01/2015	W. Mills
D		X Yes		

Routine or Special Sample	Original or Resubmitted Report	If resubmitted report, list below:	
		Reason for resubmission	Collection date of original sample
A <input type="checkbox"/> RS <input type="checkbox"/> SS	<input type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Corr.	
B <input type="checkbox"/> RS <input type="checkbox"/> SS	<input type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Corr.	
C <input type="checkbox"/> RS <input type="checkbox"/> SS	<input type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Corr.	
D <input type="checkbox"/> RS <input type="checkbox"/> SS	<input type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Corr.	

Sample notes - (Such as manifold/multiple sample, list any sources that were on line during collection).

A	
B	
C	
D	

II. Analytical Laboratory Information:

Primary Lab MA Cert. # M-MA022

Primary Lab Name: Analytical Balance Corp.

Subcontracted? Y N

Analysis Lab MA Cert. # M-MA022

Analysis Lab Name: Analytical Balance Corp.

Contaminant	MCL (µg/L)	MDL (µg/L)	Results ¹ (µg/L)			
			A	B	C	D
Total THMs	80	---	23.7	4.7	1.9	---
Bromoform		0.5	ND	2.2	ND	---
Chloroform		0.5	8.5	ND	0.7	---
Bromodichloromethane		0.5	10.3	0.6	0.6	---
Dibromochloromethane		0.5	4.9	1.9	0.6	---
Lab method			EPA 524.2	EPA 524.2	EPA 524.2	EPA 524.2
Date extracted (551.1 only)			----	----	----	----
Date analyzed			12/04/2015	12/04/2015	12/04/2015	----
Lab Sample ID			82988-05	82988-06	82988-07	----
Surrogate # 1	1,2-dichlorobenzene d ₄		79%	92%	97%	%
Surrogate # 2	4-bromofluorobenzene		81%	96%	106%	%

¹ Report results as a number greater than 0 or ND (not a <MDL value).

Lab sample notes:
A
B
C
D

Digitally signed by Robert E. Bentley

Robert E. Bentley

Robert E. Bentley
 US - UNITED STATES
 Analytical Balance Corp.
 bob@h2otest.net

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Primary Lab Director Signature/Date: 12/21/2015

If not submitting these results electronically, mail TWO copies of this report to your DEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner. p-2 of 2

DEP REVIEW STATUS (Initial & date) Accepted _____ Disapproved _____	Review comments	_____ WQTS data entered
--	-----------------	-------------------------