Maine Center for Disease Control and Prevention
An Office of the Department of Health and Human Services
John E. Baldacci, Governor Brenda M. Harvey, Commissioner

Department of Health and Human Services
Maine Center for Disease Control and Prevention
286 Water Street
11 State House Station
Augusta, Maine 04333-0011
Tel: (207) 287-2070; Fax: (207) 287-4172
TTY: 1-800-606-0215

March 23, 2009

Ms. Cynthia Clements
Belfast Water District
PO Box 506.
Belfast, ME 04915

RE: Final Approval for a New Water Supply Well, Roy C. Talbot Well, to serve the Belfast Water District, PWSID # 90140

Dear Ms. Clements:

The Department has received and reviewed your water test results, Microscopic Particulate Analysis (MPA) test results, and hydrogeologic report for final approval to use a new well, Roy C. Talbot Well, as a source for a public water supply at the Belfast Water District, in Belfast, Maine. The new well is a 18-inch diameter, 66-foot deep, drilled sand and gravel well with an estimated safe yield of 3000 gpm. The well is known locally as the Roy C. Talbot Well and was installed by the R.E. Chapman Co. of West Boylston, MA, on October 3, 2005. All known well construction information can be found in the materials submitted by the Water District, including Preliminary and Final Approval applications and a site plan, and are available in your system file.

Final approval is granted for this well with the following conditions:

Roy C. Talbot Well is designated a ground water source, and is required to conduct water quality testing as required by the Maine Drinking Water Program

It is understood that this well will not go on-line in the immediate future. Should you plan to put the well on-line, please contact the DWP, as there is a three year limit on new well approval test results and testing will need to be conducted again before the well can go on-line. Please feel free to call Jennifer at 287-3962, or Rod at 561-4363 if you have any questions or concerns.

Sincerely,

Jennifer Grant
Compliance Officer
Maine Drinking Water Program

Rodney L. Hanscom
Field Inspector
Maine Drinking Water Program

Ec: Andy Tolman, Nathan Saunders, Rod Hanscom, Amilyn Stillings, DWP

RECEIVED
AUG 16 2005
BELFAST WATER DISTRICT

MAINE HEALTH AND ENVIRONMENTAL
TESTING LABORATORY
221 State Street, Station #12
Department of Health and Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

PUBLIC HETL

Logged: 6/15/2005 8:08:00AM

Folder/ Invoice #: A008362

BELFAST WATER DISTRICT
BELFAST WATER DISTRICT
PO BOX 506
BELFAST ME 04915

Fax#:

Office Use Only:
Line Item
90140
Public

Project Name:

Released: 8/10/2005

No. of Samples in Folder: 1

Case #:

A008362001

CERTIFICATION

The HETL hereby certifies that all test results for this sample were analyzed by the approved method listed, including preservation, preparation , and holding times, unless otherwise indicated.

John A. Krueger, Director

Richard French,
Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by: Thomas Crosby

CC:

Continued from Previous Page

HETL Sample Number: **A008362001** Description: **TEST WELL 18 DW-H20**

Matrix: **Potable Water** Sample Date: **6/14/2005** Time: **945**

Method: **4500-H+B** Analyst **MIKE B.** Analysis Date: **06/15/05**

Analyte	Result	Unit	Low Li	High Li	Qualifiers
pH	7.8		8.5	6.0	

Method: **L-10-117-07-1-A** Analyst **KimH** Analysis Date: **6/22/05**

Analyte	Result	Unit	RL	MCL	Qualifiers
Chloride	7	mg/L	3.0	250	

Method: Analyst **Rick Chartier** Analysis Date: **6/17/05**

Analyte	Result	Unit	RL	MCL	Qualifiers
Color	<5	PCU	5	15	U

Method: **200.8** Analyst **CHERYL** Analysis Date:

Analyte	Result	Unit	RL	MCL	Qualifiers
Total Hardness	85	mg/L	.025		

Continued from Previous Page HETL Sample Number: **A008362**

Method: **9223** Analyst **John Chandler** Analysis Date: **6/15/05**

Analyte	Result	Unit	Qualifiers
E. coli	Negative		

Method: **L-10-107-04-1-A** Analyst **KimH** Analysis Date: **6/15/05**

Analyte	Result	Unit	RL	MCL	Qualifiers
Nitrate Nitrogen	<.1	mg/L	.1	10.0	
Nitrite Nitrogen	<.01	mg/L	.01	1.0	

Method: **200.8** Analyst **CHERYL** Analysis Date: **6/16/05**

Analyte	Result	Unit	RL	MCL	Qualifiers
Arsenic	2.5	ug/L	0.5	50	
Barium	0.0030	mg/L	0.0005	2	
Cadmium	<.5	ug/L	0.5	5	
Calcium	28	mg/L	0.025		
Chromium	0.0015	mg/L	0.0005	.1	
Copper	<.0005	mg/L	0.0005	1.3	
Iron	0.03	mg/L	0.025	.3	
Lead	<.5	ug/L	0.5	15	

Continued from Previous Page HETL Sample Number: **A008362**

Magnesium	3.8	mg/L	0.025	
Manganese	0.0007	mg/L	0.0005	.05
Selenium	<.001	mg/L	0.001	.05
Silver	<.0005	mg/L	0.0005	.10
Sodium	4.6	mg/L	0.025	
Zinc	0.001	mg/L	0.001	5
Mercury	<.05	ug/L	0.05	2

Method: **180.1** Analyst **MIKE B.** Analysis Date: **06/15/05**

Analyte	Result	Unit	RL	MCL	Qualifiers
Turbidity	0.25	NTU			

Method: **L-10-109-12-2-A** Analyst **Rick Chartier** Analysis Date: **6/19/05**

Analyte	Result	Unit		RL	Low Limit	High Limit	Qualifiers
Fluoride	<.2	mg/L	0.00193	0.2	0.6		*U

Method: **9223** Analyst **John Chandler** Analysis Date: **6/15/05**

Continued from Previous Page HETL Sample Number: A008362

Analyte	Result	Unit	Qualifiers
Coliform, Total	Negative		

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Results meet the requirements of the NELAC standards unless otherwise noted.

"mg/L" = Milligrams per liter; "ug/L" = Micrograms per Liter; "mg/Kg" = Milligrams per Kilogram; "ug/Kg" = Micrograms per Kilogram; "PPM" = Parts per Million; "NTU" = Nephelometric Turbidity Units; The MCL, Maximum Contaminant Level is listed for comparing your results with recommended levels. In the "Note" column, an " * " is placed to indicate any results that exceed this MCL. If there are no " * " in the "Note" column, your water is considered satisfactory for those tests.

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RL-Reporting Limit, the lowest concentration which can be reliably reported on a routine basis
"<" = Less than ">" = Greater than
Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

MAINE HEALTH AND ENVIRONMENTAL
TESTING LABORATORY
221 State Street, Station #12
Department of Health and Human Services
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Fax. No. 207-287-6832

PUBLIC HETL

BELFAST WATER DISTRICT
BELFAST WATER DISTRICT
PO BOX 506
BELFAST ME 04915

Fax#:

Logged: 6/17/2005 9:59:00AM
Folder/ Invoice #: A008363

Office Use Only:
Line Item
90140
Public

Released: 7/7/2005
Case #:

Project Name:
No. of Samples in Folder: 1

A008363001 TE3

CERTIFICATION

The HETL hereby certifies that all test results for this sample were analyzed by the approved method listed, including preservation, preparation , and holding times, unless otherwise indicated.

John A. Krueger, Director

Richard French,
Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

CC:

COPY
Faxed to Brad Cornell by lab

RECEIVED
AUG 10 2005
BELFAST WATER DISTRICT

7/7/2005 2:33:38PM

TE3

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY - Visit our Web Site at: http://www.state.me.us/dhs/etl

221 State Street, Station #12 Department of Human Services Augusta, Maine 04333 Tel. No. 207-287-1716 Fax. No. 207-287-6832

Continued from Previous Page

HETL Sample Number: **A008363001** Description:**TW18 DW-H20**

Matrix: **Potable Water** Sample Date:**6/17/2005** Time: **11:05**

Method: **335.3** Analyst **JOHNN** Analysis Date:

Analyte	Result	Unit	RL	MCL	Qualifiers
Cyanide	<0.010	mg/L	.010	.2	U

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RL-Reporting Limit, the lowest concentration which can be reliably reported on a routine basis

COPY

THIS FORM IS USED ONLY FOR COMPLIANCE WATER SAMPLES

MAINE DRINKING WATER PROGRAM

Water Test for:

For Compliance Period: to ONLY.

PUBLIC WATER SYSTEM INFORMATION

BELFAST WATER DISTRICT
PO BOX 506

BELFAST, ME 04915

TE3

Kit# 9317
A008363

90140

Please Circle One:
ess Change | Send Addl. Copy to:

LABORATORY INFORMATION

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY
221 State Street, Station #12
Department of Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716 Fax. No. 207-287-6832

Step 1. Follow instructions for collecting sample on enclosed sheet: INSERT

Step 2. Fill in ALL the information below for the samples(s).

Step 3. Sign the form. IMPORTANT!! The sample will automatically be rejected if the form is not signed.

Required Information for Each Bottle in the Analytical Test Kit

SAMPLE POINT LOCATION, IN ACCORDANCE WITH SITE PLAN	DATE SAMPLE WAS TAKEN	TIME SAMPLE WAS TAKEN	SAMPLER'S INITIALS
TW 18	6-17-05	7:10 A.M.	KP

Town Where Sample Was Taken: SWANVILLE/BELFAST Other Comments: _____

I certify that I collected this sample at the location, date and time recorded above and that I collected the sample in accordance with the directions on the enclosed insert.

SIGNATURE:	Print Name for Data Entry at Lab:	WORK TELEPHONE:	HOME TELEPHONE:
Keith Pooler	Keith Pooler	338-1200	

STATE OF MAINE
DEPARTMENT OF HEALTH AND HUMAN SERVICES
12 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0012

JOHN ELIAS BALDACCI
GOVERNOR

JOHN R. NICHOLAS
COMMISSIONER

May 17, 2005

Dear Client,

The Health & Environmental Testing Laboratory has recently switched to a new Laboratory Information Management System (LIMS) and as a result of this change there will be some differences in how we order kits, manage samples, and report results. We ultimately believe that you will be better served and that we will be more efficient, though there will be a learning curve for all involved. This letter summarizes some of the changes in hopes of making the transition as smooth as possible for you, our valued customer.

Some of our test codes have changed and some have remained the same. The ones that have changed are Bacteria is now ***TG***, Fluoride is now ***F_Lachat*** (F meaning Fluoride and Lachat is the instrument used to test Fluoride), TSN is now ***VOC_524***, TQ3 is now ***Carbam_531***, TQ1 is now ***Chlorinated Acids/Micro extraction***, TCP is now ***PEST_CL_PCBS_508***, TSO is now ***SVO_525***, TSP is now ***THM_524***, Thaac is now ***HAA_552***, TSS is now ***Radon Water***, and TSVY is now ***Radium 228***. TSH is also gone. Instead of seeing TSH, NO3N or TSH, AS you will now see ***NITRATE*** or ***ARSENIC***. These changes in the names reflect the EPA methods or actual analytes that the HETL uses.

If you have historically received Bacteria and Fluoride in the same bottle, you will now be receiving them in separate bottles. This change was necessary for improved sample tracking and quality control within the laboratory. We will however put them in the same box when we ship them to you and there will be a separate Chain of Custody for the two different sample types. We will use smaller bottles so that the shipping costs will not be changed significantly. As discussed previously, the new test codes will be used: TG and F_Lachat. .

For projects that calculate a result based upon multiple samples, such as groups of 5 Lead & Copper, all samples must be returned before the results, the report, the invoice and (importantly the calculations) can be released. The samples do **not** have to be sent at the same time.

Our new LIMS (StarLims) uses a different numbering system than our previous system. Our new system uses a combination of folder and sample numbers. Sample sets are grouped into "folders". A folder number looks like this: A123456. Individual samples become part of the "folder" with suffixes like: 001,002,003, etc. So, you may see a number like: A12345001 on a bottle. While this may seem confusing, it will allow us to track your samples more efficiently and ultimately be able to serve you better.

We are sorry for any confusion this has caused and hope this letter will help you to better understand how this new system works. If you have any questions please call us at 287-1716.

PHONE: (207) 2871716 FAX: (207) 2874525 TTY (Deaf/Hard of Hearing): (207) 2874479

INSERT# **8**

INSTRUCTIONS FOR COLLECTING COMPLIANCE WATER SAMPLES FOR Phase V Extended Inorganics

TE3

Note: Sample kits are pre-coded and can be used only for the tests and public water systems listed. Do not change the test codes or switch the paperwork or bottles from other sample kits.

1. Collect samples (ALL THREE BOTTLES) at the sample point preprinted on the sample form.

2. Remove any screen, hoses, and aerators from end of faucet.

3. Run COLD water for 3 to 5 minutes to make sure water has not been sitting for a long time in the pipes or tanks and is fresh from the well.

4. Turn water down so it does not splash.

5. Uncap bottle and fill to shoulder with water. Screw the cap on tightly.

6. Freeze cool-pack and replace in shipping container just prior to shipping.

7. Fill out the required information on sample form. **SIGN THE FORM!** The sample will not be processed unless the form has a signature!

8. Return bottles with complete paperwork to the lab. If mailed, use the enclosed label "Water Sample First Class Non-PMPC Direct to Augusta." **SAMPLE MUST ARRIVE AT THE LAB WITHIN 7 DAYS OF COLLECTION!**

IF YOU HAVE ANY QUESTIONS...PLEASE CALL THE MAINE DRINKING WATER PROGRAM AT (207) 287-2070 OR THE LABORATORY AT (207) 287-1716.

NOTE: If you do not want to use the Health & Environmental Testing Laboratory for your water testing, or do not wish to be on the automatic shipping list for sample kits, please return this kit and paperwork to the laboratory.

MAINE HEALTH AND ENVIRONMENTAL
TESTING LABORATORY
221 State Street, Station #12
Department of Health and Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

PUBLIC HETL

BELFAST WATER DISTRICT
BELFAST WATER DISTRICT
PO BOX 506
BELFAST ME 04915 Fax#:

Logged: 6/17/2005 9:59:00AM
Folder/ Invoice # A008363

Office Use Only:
Line Item
90140
Public

Project Name:

Released: 12/28/2005

No. of Samples in Folder: 1

Case #:

A008363001 TE3

CERTIFICATION

The HETL hereby certifies that all test results for this sample were analyzed by the approved method listed, including preservation, preparation , and holding times, unless otherwise indicated.

John A. Krueger, Director Richard French, Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by: Thomas Crosby

CC:

12/28/2005 9:22:18AM

TE3

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY - Visit our Web Site at: http://www.state.me.us/dhs/etl
221 State Street, Station #12 Department of Human Services Augusta, Maine 04333 Tel. No. 207-287-1716 Fax. No. 207-287-6832

Continued from Previous Page HETL Folder Number: **A008363**

HETL Sample Number: A008363001 Description: TW18 DW-H20

Matrix: Potable Water Sample Point:

Sampler: KEITH POOLER Sample Date: 6/17/2005 Time: 7:10

Analyte	Result	Units	Qualifier	High Limit	Low Limit	RL	MCL	Method	Analyst	Analysis Date
Cyanide	<0.010	mg/L	U			0.010	.2	335.3	johnn	
Sulfate	7	mg/L				5.000	250	375.2	kimhurd	6/17/05
Antimony	<.5	ug/L				0.50	6	200.8	cheryl	6/28/05
Beryllium	<.5	ug/L				0.50	4	200.8	cheryl	6/28/05
Nickel	<.0005	mg/L				0.00050		200.8	cheryl	6/28/05
Thallium	<.0005	mg/L				0.00050	.002	200.8	cheryl	6/28/05

Comment
Attached By JOHNN **Date** 7/1/2005 12:00:00AM **Time** 19:49

Comment : Cyanide analyzed at Katahdin Labs by method EPA 335.3.

Continued from Previous Page HETL Folder Number: **A008363**

Units & Measurement

"**mg/L**" = Milligrams per liter; "**ug/L**" = Micrograms per Liter; "**mg/Kg**" = Milligrams per Kilogram;
"**ug/Kg**" = Micrograms per Kilogram; "**PPM**" = Parts per Million; "**NTU**" = Nephelometric Turbidity Units;

Results meet the requirements of the **NELAC** standards unless otherwise noted.

The MCL, Maximum Contaminant Level is listed for comparing your results with recommended levels.
In the "**Qualifier**" column, **an " * " is** placed to indicate any results that **exceed** this MCL.

If there are no " * " in the "Qualifier" column, your water is considered satisfactory for those tests.

All solid results on a "**Dry Weight**" basis

NC = Not confirmed **NQ** = Not Quantitated **NA** = Not Analyzed **J** = Approximately **U** = Undetected

RL-Reporting Limit, the lowest concentration which can be reliably reported on a routine basis
"<" = Less than ">" = Greater than

Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

Disclaimer

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Results **meet** the requirements of the **NELAC** standards unless otherwise noted.

MAINE HEALTH AND ENVIRONMENTAL
TESTING LABORATORY
221 State Street, Station #12
Department of Health and Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

PUBLIC HETL

Logged: 6/17/2005 10:50:00AM

BELFAST WATER DISTRICT
BELFAST WATER DISTRICT
PO BOX 506
BELFAST ME 04915

Fax#:

Folder/ Invoice #: A008364

Office Use Only:
Line Item
90140
Public

Project Name:

Released: 6/22/2005

No. of Samples in Folder: 1

Case #:

A008364001

CERTIFICATION

The HETL hereby certifies that all test results for this sample were analyzed by the approved method listed, including preservation, preparation , and holding times, unless otherwise indicated.

John A. Krueger, Director

Richard French,
Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

CC:

Continued from Previous Page

HETL Sample Number: **A008364001** Description:**TW 18 DW-H20**

Matrix: **Potable Water** Sample Date:**6/17/2005** Time: **11:06**

Method: **524.2** Analyst **WAYNE BUCK** Analysis Date: **062105**

Analyte	Result	Unit	RL	MCL	Qualifiers
Ethylbenzene	<.5	ug/L	0.50	700	
Styrene	<.5	ug/L	0.50	100	
cis-1,3-Dichloropropene	<.5	ug/L	0.50		
trans-1,3-Dichloropropene	<.5	ug/L	0.50		
n-Propylbenzene	<.5	ug/L	0.50		
n-Butylbenzene	<.5	ug/L	0.50		
4-Chlorotoluene	<.5	ug/L	0.50		
1,4-Dichlorobenzene	<.5	ug/L	0.5	75	
1,2-Dibromoethane	<.5	ug/L	0.50		
1,2-Dichloroethane	<.5	ug/L	0.50	5	
1,3,5-Trimethylbenzene	<.5	ug/L	0.50		
Bromobenzene	<.5	ug/L	0.50		
Toluene	<.5	ug/L	0.50	100	
Chlorobenzene	<.5	ug/L	0.50	100	
1,2,4-Trichlorobenzene	<.5	ug/L	0.50	70	
Dibromochloromethane	<1	ug/L	1.0		
Tetrachloroethene	<.5	ug/L	0.50	5	
sec-Butylbenzene	<.5	ug/L	0.50		
m,p-Xylenes	<1	ug/L	1.0		
1,3-Dichloropropane	<.5	ug/L	0.50		
cis-1,2-Dichloroethene	<.5	ug/L	0.50	70	
trans-1,2-Dichloroethene	<.5	ug/L	0.50	100	

Continued from Previous Page HETL Sample Number: **A008364**

Methyl tert-Butyl Ether	<1	ug/L	1.0	
1,3-Dichlorobenzene	<.5	ug/L	0.50	
Carbon Tetrachloride	<1	ug/L	1.0	5
1,1-Dichloropropene	<.5	ug/L	0.50	
2,2-Dichloropropane	<.5	ug/L	0.50	
1,1,1,2-Tetrachloroethane	<.5	ug/L	0.50	
Chloroform	<1	ug/L	1.0	
Benzene	<.5	ug/L	0.50	5
1,1,1-Trichloroethane	<.5	ug/L	0.50	200
Bromomethane	<.5	ug/L	0.5	
Chloromethane	<.5	ug/L	0.50	
Dibromomethane	<.5	ug/L	0.50	
Bromochloromethane	<.5	ug/L	0.50	
Chloroethane	<.5	ug/L	0.50	
Vinyl Chloride	<.5	ug/L	0.50	2
Bromoform	<1	ug/L	1.0	
Bromodichloromethane	<1	ug/L	1.0	
1,1-Dichloroethane	<.5	ug/L	0.50	
1,1-Dichloroethene	<.5	ug/L	0.50	7
Trichlorofluoromethane	<.5	ug/L	0.50	
Dichlorodifluoromethane	<.5	ug/L	0.50	
1,2-Dichloropropane	<.5	ug/L	0.50	5
1,1,2-Trichloroethane	<.5	ug/L	0.50	5
Trichloroethene	<.5	ug/L	0.50	5
1,1,2,2-Tetrachloroethane	<.5	ug/L	0.50	

Continued from Previous Page HETL Sample Number: **A008364**

Hexachlorobutadiene	<.5	ug/L	0.50	
Naphthalene	<.5	ug/L	0.50	
o-Xylene	<.5	ug/L	0.50	
2-Chlorotoluene	<.5	ug/L	0.50	
1,2-Dichlorobenzene	<.5	ug/L	0.50	600
1,2,4-Trimethylbenzene	<.5	ug/L	0.50	
1,2-Dibromo-3-chloropropane	<1	ug/L	1.0	0.2
1,2,3-Trichloropropane	<.5	ug/L	0.50	
tert-Butylbenzene	<.5	ug/L	0.50	
Isopropylbenzene	<.5	ug/L	0.50	
4-Isopropyltoluene	<.5	ug/L	0.50	
Methyl Ethyl Ketone	<5	ug/L	5.0	
Dichloromethane	<1	ug/L	1.0	5
Carbon disulfide	<1	ug/L	1.0	
MIBK	<1	ug/L	1.0	
2-Hexanone	<1	ug/L	1.0	
Nitrobenzene	<10	ug/L	10	
1,2,3-Trichlorobenzene	<.5	ug/L	0.50	

Surrogate Analyte (added as part of testing to verify performance)	**Result**	**Amount**	**% Rec**	**Low % Rec**	**High % Rec**	**Qualifiers**
4-Bromofluorobenzene	0.96	1.0	96.0	70	130	
1,2-Dichlorobenzene-d4	1.0	1.0	100.0	70	130	

Continued from Previous Page HETL Sample Number: **A008364**

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Results meet the requirements of the NELAC standards unless otherwise noted.

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THIS FORM IS USED ONLY FOR COMPLIANCE WATER SAMPLES

MAINE DRINKING WATER PROGRAM

Water Test for:

For Compliance Period: to ONLY

PUBLIC WATER SYSTEM INFORMATION

BELFAST WATER DISTRICT
PO BOX 506

BELFAST, ME 04915

VOC_524

90140

Kit # 9318
A008364

Please Circle One:
dress Change | Send Addl. Copy to:

LABORATORY INFORMATION

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY
221 State Street, Station #12
Department of Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716 Fax. No. 207-287-6832

Step 1. Follow instructions for collecting sample on enclosed sheet: INSERT

Step 2. Fill in ALL the information below for the samples(s).

Step 3. Sign the form. IMPORTANT!! The sample will automatically be rejected if the form is not signed.

Required Information for Each Bottle in the Analytical Test Kit

SAMPLE POINT LOCATION, IN ACCORDANCE WITH SITE PLAN	DATE SAMPLE WAS TAKEN	TIME SAMPLE WAS TAKEN	SAMPLER'S INITIALS
TW 18	6-17-05	7:07 A.M.	KP

Town Where Sample Was Taken: Swanville/Belfast Other Comments: _____

I certify that I collected this sample at the location, date and time recorded above and that I collected the sample in accordance with the directions on the enclosed insert.

SIGNATURE:	Print Name for Data Entry at Lab:	WORK TELEPHONE:	HOME TELEPHONE:
Keith Pooler	Keith Pooler	338-1200	

STATE OF MAINE
DEPARTMENT OF HEALTH AND HUMAN SERVICES
12 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0012

JOHN ELIAS BALDACCI
GOVERNOR

JOHN R. NICHOLAS
COMMISSIONER

May 17, 2005

Dear Client,

The Health & Environmental Testing Laboratory has recently switched to a new Laboratory Information Management System (LIMS) and as a result of this change there will be some differences in how we order kits, manage samples, and report results. We ultimately believe that you will be better served and that we will be more efficient, though there will be a learning curve for all involved. This letter summarizes some of the changes in hopes of making the transition as smooth as possible for you, our valued customer.

Some of our test codes have changed and some have remained the same. The ones that have changed are Bacteria is now ***TG***, Fluoride is now ***F_Lachat*** (F meaning Fluoride and Lachat is the instrument used to test Fluoride), TSN is now ***VOC_524***, TQ3 is now ***Carbam_531***, TQ1 is now ***Chlorinated Acids/Micro extraction***, TCP is now ***PEST_CL_PCBS_508***, TSO is now ***SVO_525***, TSP is now ***THM_524***, Thaac is now ***HAA_552***, TSS is now ***Radon Water***, and TSVY is now ***Radium 228***. TSH is also gone. Instead of seeing TSH, NO3N or TSH, AS you will now see ***NITRATE*** or ***ARSENIC***. These changes in the names reflect the EPA methods or actual analytes that the HETL uses.

If you have historically received Bacteria and Fluoride in the same bottle, you will now be receiving them in separate bottles. This change was necessary for improved sample tracking and quality control within the laboratory. We will however put them in the same box when we ship them to you and there will be a separate Chain of Custody for the two different sample types. We will use smaller bottles so that the shipping costs will not be changed significantly. As discussed previously, the new test codes will be used: TG and F_Lachat. .

For projects that calculate a result based upon multiple samples, such as groups of 5 Lead & Copper, all samples must be returned before the results, the report, the invoice and (importantly the calculations) can be released. The samples do **not** have to be sent at the same time.

Our new LIMS (StarLims) uses a different numbering system than our previous system. Our new system uses a combination of folder and sample numbers. Sample sets are grouped into "folders". A folder number looks like this: A123456. Individual samples become part of the "folder" with suffixes like: 001,002,003, etc. So, you may see a number like: A12345001 on a bottle. While this may seem confusing, it will allow us to track your samples more efficiently and ultimately be able to serve you better.

We are sorry for any confusion this has caused and hope this letter will help you to better understand how this new system works. If you have any questions please call us at 287-1716.

PHONE: (207) 2871716 FAX: (207) 2874525 TTY (Deaf/Hard of Hearing): (207) 2874479

INSERT# **5**

INSTRUCTIONS FOR COLLECTING COMPLIANCE WATER SAMPLES FOR Volatile Organics (Phase II and V)

(TSN)

Note: Sample kits are pre-coded and can be used only for the tests and public water systems listed. Do not change the test codes or switch the paperwork or bottles from other sample kits.

(Both bottles are to be collected at the same point and following the steps below)

1. Collect sample at the sample point preprinted on the sample form.
2. Remove any screen, hoses and aerators from end of faucet.
3. Run COLD water for 3 to 5 minutes to make sure water has not been sitting for a long time in pipes or tanks and is fresh from the well.
4. Turn water down so it does not splash.
5. Remove container cap. Do not allow inside of cap, inside of bottle, or bottle threads to be touched by any object.
6. The vial contains a small amount of 1:1 Hydrochloric acid as a preservative. **Caution!!** Hydrochloric acid is a strong acid and will cause burns. Open the vials slowly and carefully.
7. Carefully hook cap over the top of the vial, trying to match the threads as shown in the diagram on the back of these instructions. The Teflon side of the septum must be down (facing the sample).
8. Screw cap on securely and check for air bubbles by inverting the vial and gently tapping the cap. Samples with bubbles cannot be analyzed.
9. Fill out the required information on sample form. **SIGN THE FORM!** The sample will not be processed unless the form has a signature!
10. Return bottle with completed paperwork to lab. If mailed, use the enclosed label "Water Sample First Class Non-PMPC Direct to Augusta." **SAMPLE MUST ARRIVE AT LAB WITHIN 14 DAYS OF COLLECTION! If not mailed directly after sample collection, store samples at 4°C.**

IF YOU HAVE ANY QUESTIONS....PLEASE CALL THE MAINE DRINKING WATER PROGRAM AT (207) 287-2070 OR THE LABORATORY AT (207) 287-1716.

NOTE: If you do not want to use the Health & Environmental Testing Laboratory for your water testing, or do not wish to be on the automatic shipping list for sample kits, please return this kit and paperwork to the laboratory.

MAINE HEALTH AND ENVIRONMENTAL
TESTING LABORATORY
221 State Street, Station #12
Department of Health and Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

PUBLIC HETL

Logged: 6/17/2005 10:00:00AM

BELFAST WATER DISTRICT
BELFAST WATER DISTRICT
PO BOX 506
BELFAST ME 04915

Fax#:

Folder/ Invoice #: A008365

Office Use Only:
Line Item
90140
Public

Project Name:

Released: 6/22/2005

No. of Samples in Folder: 1

Case #:

A008365001

CERTIFICATION

The HETL hereby certifies that all test results for this sample were analyzed by the approved method listed, including preservation, preparation , and holding times, unless otherwise indicated.

John A. Krueger, Director

Richard French,
Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

CC:

6/22/2005 7:46:28AM

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY - Visit our Web Site at: http://www.state.me.us/dhs/etl
221 State Street, Station #12 Department of Human Services Augusta, Maine 04333 Tel. No. 207-287-1716 Fax. No. 207-287-6832

Continued from Previous Page

HETL Sample Number: **A008365001** Description:**TW 18**

Matrix: **Potable Water** Sample Date:**6/17/2005** Time: **11:07**

Method: **7500-RNB** Analyst **Tom Thornton** Analysis Date:

Analyte	Result	Unit	+/-	MDC	Qualifiers
Radon	969	pCi/L	35.1	16.6	

These results are expressed as picocuries per liter of water. A picocurie is a standard unit for measuring radioactivity and is one trillionth of a curie. "+/-" represents the 2 sigma uncertainty (95% confidence level) in the result. "MDC" = minimum detectable concentration.

While no level of radiation is considered completely safe,the Radiation Control Program recommends that corrective action be taken when the radon concentration in water exceeds 20,000 pCi/L.
The USEPA is currently considering establishing a maximum contaminant level for radon in public water supplies at 300 to 4,000 pCi/L.
Because natural fluctuations of radon do occur,a follow-up test is suggested for concentrations that exceed 10,000 pCi/L. Also,if your water supply is a drilled well,consider having a gross alpha test performed on the water.
If you have a private water supply and desire additional clarification of your report or further information concerning methods of corrective action,please contact the Radiation Control Program at 1-800-232-0842. If you represent a public water supply and desire addition clarification of your report,please contact the Radionuclide Coordinator of the Drinking Water Program at 287-2070.

This report shall not be reproduced, except in full, without written permission from the Maine Health and Environmental Testing Laboratory.

Results meet the requirements of the NELAC standards unless otherwise noted.

"mg/L" = Milligrams per liter; "ug/L" = Micrograms per Liter; "mg/Kg" = Milligrams per Kilogram;
"ug/Kg" = Micrograms per Kilogram; "PPM" = Parts per Million; "NTU" = Nephelometric Turbidity Units;
The MCL, Maximum Contaminant Level is listed for comparing your results with recommended levels.
In the "Note" column, an " * " is placed to indicate any results that exceed this MCL.
If there are no " * " in the "Note" column, your water is considered satisfactory for those tests.

NC = Not confirmed NQ = Not Quantitated NA = Not Analyzed J = Approximately U = Undetected
RL-Reporting Limit, the lowest concentration which can be reliably reported on a routine basis
"<" = Less than ">" = Greater than
Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

THIS FORM IS USED ONLY FOR COMPLIANCE WATER SAMPLES

MAINE DRINKING WATER PROGRAM

Water Test for:

For Compliance Period: to ONLY

PUBLIC WATER SYSTEM INFORMATION

BELFAST WATER DISTRICT
PO BOX 506

BELFAST, ME 04915

RADON IN WATER

Kit# 9319
A008365

90140

Please Circle One:
ss Change | Send Addl. Copy to:

_____
_____
_____
_____

LABORATORY INFORMATION

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY
221 State Street, Station #12
Department of Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716 Fax. No. 207-287-6832

Step 1. Follow instructions for collecting sample on enclosed sheet: INSERT

Step 2. Fill in ALL the information below for the samples(s).

Step 3. Sign the form. IMPORTANT!! The sample will automatically be rejected if the form is not signed.

Required Information for Each Bottle in the Analytical Test Kit

SAMPLE POINT LOCATION, IN ACCORDANCE WITH SITE PLAN	DATE SAMPLE WAS TAKEN	TIME SAMPLE WAS TAKEN	SAMPLER'S INITIALS
TW 18	6-17-05	7:03 A.M.	KP

Town Where Sample Was Taken: Swanville/Belfast Other Comments: _____

I certify that I collected this sample at the location, date and time recorded above and that I collected the sample in accordance with the directions on the enclosed insert.

SIGNATURE:	Print Name for Data Entry at Lab:	WORK TELEPHONE:	HOME TELEPHONE:
KP Poder	Keith poder	338-1200	

INSERT# **9**

INSTRUCTIONS FOR COLLECTING COMPLIANCE WATER SAMPLES FOR

Radon

(TSS)

Note: Sample kits are pre-coded and can be used only for the tests and public water systems listed. Do not change the test codes or switch the paperwork or bottles from other sample kits.

(Both vials are to be collected at the same point and following the steps below)

1. Collect sample at the sample point preprinted on the sample form.

2. Remove any screen, hoses and aerators from end of faucet.

3. Run COLD water for 3 to 5 minutes to make sure water has not been sitting for a long time in pipes or tanks and is fresh from the well.

4. Reduce water flow to 1/8 inch diameter stream.

5. Remove vial cap. Do not allow inside of cap, inside of vial, or vial threads to be touched by any object.

6. Carefully fill the vial until water is actually above the vial rim. Then, partially fill the cap from the same tap and quickly hook the cap over the top of the vial. The Teflon side of the septum must be down.

7. Screw cap on securely and check for air bubbles by inverting the vial and gently tapping the cap. Samples with bubbles cannot be analyzed. If bubbles are present, empty the vial and repeat the sampling procedure (steps 1-7).

8. Fill the second vial using the same procedure (steps 1-7).

9. Fill out the required information on sample form. SIGN THE FORM! The samples will not be processed unless the form has a signature! Return bottles with completed paperwork to lab. If mailed, use the enclosed label "Water Sample First Class Non-PMPC Direct to Augusta." The maximum holding time is 4 days.

IF YOU HAVE ANY QUESTIONS....PLEASE CALL THE MAINE DRINKING WATER PROGRAM AT (207) 287-2070 OR THE LABORATORY AT (207) 287-1716.

NOTE: If you do not want to use the Health & Environmental Testing Laboratory for your water testing, or do not wish to be on the automatic shipping list for sample kits, please return this empty kit and paperwork to the laboratory.

STATE OF MAINE
DEPARTMENT OF HEALTH AND HUMAN SERVICES
12 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0012

JOHN ELIAS BALDACCI
GOVERNOR

JOHN R. NICHOLAS
COMMISSIONER

May 17, 2005

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PHONE: (207) 2871716 FAX: (207) 2874525 TTY (Deaf/Hard of Hearing): (207) 2874479

MAINE HEALTH AND ENVIRONMENTAL
TESTING LABORATORY
221 State Street, Station #12
Department of Health and Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

PUBLIC HETL

Logged: 6/17/2005 9:59:00AM

Folder/ Invoice #: A008366

BELFAST WATER DISTRICT
BELFAST WATER DISTRICT
PO BOX 506
BELFAST ME 04915

Fax#:

Office Use Only:
Line Item
90140
Public

Project Name:

No. of Samples in Folder: 1

Released: 8/1/2005

Case #:

A008366001

CERTIFICATION

The HETL hereby certifies that all test results for this sample were analyzed by the approved method listed, including preservation, preparation , and holding times, unless otherwise indicated.

John A. Krueger, Director

Richard French,
Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

CC:

Continued from Previous Page

HETL Sample Number: **A008366001** Description: **TW 18**

Matrix: **Potable Water** Sample Date: **6/17/2005** Time: **0712**

Method: **900.0** Analyst **Tom Thornton** Analysis Date:

Analyte	Result	Unit	+/-	MDC	Qualifiers
Gross Alpha	1.45	pCi/L	0.526	0.390	

Continued from Previous Page HETL Sample Number: A008366

GROSS ALPHA
A picocurie is a standard unit for measuring radioactivity and is one trillionth of a curie. "+/-" represents the 2 sigma uncertainty (95% confidence level) in the result. "MDC" = minimum detectable concentration.

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GROSS ALPHA FACT SHEET
Alpha radiation in water is due to dissolved,naturally occurring elements such as radium and uranium. Radon is also an alpha emitter but is not measured in this screening test.
Becasue this is a screening test,an elevated gross alpha may indicate the necessity for further testing to determine which elements are present.

1. If the gross alpha result is less than 5 picocuries per liter,no further action is necessary.

2. If alpha gross alpha result is greater than 5 picocuries per liter but less than 15 picocuries per liter,a radium test is recommended.
Public water systems are required to test for radium at this concentration. The USEPA has set a drinking water limit for radium at 5 picocuries per liter.

3. If the gross alpha result is greater than 15 picocuries per liter,public water systems are required to retest for gross alpha and to test for radium,radon,and uranium. It is recommended that private home owners test for radium at these concentrations.

Because of the expense of testing non-public water supplies,most homeowners assume that if the source of the gorss aplha radiation is not radium than it is uranium. There is a slight possibility that the radiation could be due to other elements such as polonium.

Current regulations governing public water systems state that the gross alpha concentration minus the uranium concentartion must not exceed 15 picocuries per liter. EPA has also adopted a maximum contaminant level for uranium of 30 micrograms per liter.

Kits for the required retesting of public water systems will be shipped within two weeks of this letter.

Continued from Previous Page HETL Sample Number: A008366

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Results meet the requirements of the NELAC standards unless otherwise noted.

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"ug/Kg" = Micrograms per Kilogram; "PPM" = Parts per Million; "NTU" = Nephelometric Turbidity Units;
The MCL, Maximum Contaminant Level is listed for comparing your results with recommended levels.
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If there are no " * " in the "Note" column, your water is considered satisfactory for those tests.

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RL-Reporting Limit, the lowest concentration which can be reliably reported on a routine basis
"<" = Less than ">" = Greater than
Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

THIS FORM IS USED ONLY FOR COMPLIANCE WATER SAMPLES

MAINE DRINKING WATER PROGRAM

Water Test for:

For Compliance Period: to ONLY.

PUBLIC WATER SYSTEM INFORMATION

BELFAST WATER DISTRICT
PO BOX 506

BELFAST, ME 04915

GROSS ALPHA

Kit# 9320
A008366

90140

Please Circle One:
ess Change | Send Addl. Copy to:

LABORATORY INFORMATION

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY
221 State Street, Station #12
Department of Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716 Fax. No. 207-287-6832

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TW 18	6-17-05	7:12 A.M.	KP

Town Where Sample Was Taken: SWANVille/BELFAST Other Comments: _____

I certify that I collected this sample at the location, date and time recorded above and that I collected the sample in accordance with the directions on the enclosed insert.

SIGNATURE:	Print Name for Data Entry at Lab:	WORK TELEPHONE:	HOME TELEPHONE:
KP Pooler	Keith Pooler	338-1200	

MAINE HEALTH AND ENVIRONMENTAL
TESTING LABORATORY
221 State Street, Station #12
Department of Health and Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

PUBLIC HETL

Logged: 6/23/2005 12:35:00PM

Folder/ Invoice #: A008367

BELFAST WATER DISTRICT
BELFAST WATER DISTRICT
PO BOX 506
BELFAST ME 04915

Fax#:

Office Use Only:
Line Item
90140
Public

Project Name:

Released: 7/21/2005

No. of Samples in Folder: 1

Case #:

A008367001

CERTIFICATION

The HETL hereby certifies that all test results for this sample were analyzed by the approved method listed, including preservation, preparation , and holding times, unless otherwise indicated.

John A. Krueger, Director

Richard French,
Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

CC:

7/21/2005 10:26:19AM

Continued from Previous Page

HETL Sample Number: **A008367001** Description: **TW 18 DW-H20**

Matrix: **Potable Water** Surface: ample Date: **6/17/2005** Time: **11:10**

Method: **525.2** Analyst **JIM EATON** Analysis Date: **07/13/05**

Preparation Method: 525 SPE **Prepared by:** BOB CAUGHEY

Date Prepared	Time Prepared	Amount Extracted	Extraction pH	Final Amount of Extract
6/23/05	1030	1 L	<2.0	1 ml

Analyte	Result	Unit	RL	MCL	Qualifiers
Acenaphthylene	<.5	ug/L	0.5		
Alachlor	<.5	ug/L	0.5		
Aldrin	<.5	ug/L	0.5		
Anthracene	<.5	ug/L	0.5		
Atrazine	<.5	ug/L	0.5		
Benzo(a)anthracene	<.5	ug/L	0.5		
Benzo(a)pyrene	0.0	ug/L	0.2		
Benzo(b)fluoranthene	<.1	ug/L	0.1		
Benzo(g,h,i)perylene	<.5	ug/L	0.5		
Benzo(k)fluoranthene	<.5	ug/L	0.5		
Bis (2-ethylhexyl) adipate	<2	ug/L	2.0		
Butachlor	<.5	ug/L	0.5		
Butyl benzyl phthalate	<2	ug/L	2.0		
Chlorothalonil (Bravo)	<.5	ug/L	0.5		
Chlorpyrifos (Dursban)	<.5	ug/L	0.5		
Chrysene	<.5	ug/L	0.5		
Diazinon (Spectracide)	<.5	ug/L	0.5		
Dibenzo(a,h)anthracene	<.5	ug/L	0.5		
Dieldrin	<.2	ug/L	0.2		
Diethyl phthalate	<2	ug/L	2.0		

Continued from Previous Page HETL Sample Number: **A008367**

Dimethyl phthalate	<2	ug/L	2.0
Di-n-butyl phthalate	<2	ug/L	2.0
Endosulfan I	<.5	ug/L	0.5
Endosulfan II	<.5	ug/L	0.5
Endosulfan sulfate	<1	ug/L	1.0
Endrin ketone	<.5	ug/L	0.5
Ethoprop	<1	ug/L	1.0
Fluorene	<.2	ug/L	0.2
Heptachlor	<.2	ug/L	0.2
Heptachlor epoxide	<.2	ug/L	0.2
Hexachlorobenzene	<.2	ug/L	0.2
Indeno(1,2,3-cd)pyrene	<.5	ug/L	0.5
Lindane	<.2	ug/L	0.2
Methoxychlor	<.5	ug/L	0.5
Metolachlor	<.5	ug/L	0.5
Metribuzin	<5	ug/L	5.0
p,p-DDD	<.5	ug/L	0.5
p,p-DDE	<.5	ug/L	0.5
p,p-DDT	<.5	ug/L	0.5
Phenanthrene	<.1	ug/L	0.1
Propachlor	<1	ug/L	1.0
Pyrene	<.5	ug/L	0.5
Simazine	<.2	ug/L	0.2
Velpar/Hexazinone	<1	ug/L	1.0
Hexachlorocyclopentadiene	<5	ug/L	5.0

Continued from Previous Page HETL Sample Number: **A008367**

Cyanazine (Bladex)	<1	ug/L	1.0
bis(2-ethylhexyl)phthalate	0.0	ug/L	2.0

Surrogate Analyte (added as part of testing to verify performance)	**Result**	**Amount**	**% Rec**	**Low % Rec**	**High % Rec**	**Qualifiers**
Perylene-d12	4.1	5.0	82.0	70	130	
Pyrene-d10	5.4	5.0	108.0	70	130	
Triphenylphosphate	5.3	5.0	106.0	70	130	
1,3-Dimethyl-2-nitrobenzene	4.5	5.0	90.0	70	130	

NOTE:

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"ug/Kg" = Micrograms per Kilogram; "PPM" = Parts per Million; "NTU" = Nephelometric Turbidity Units;
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MAINE HEALTH AND ENVIRONMENTAL
TESTING LABORATORY
221 State Street, Station #12
Department of Health and Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

PUBLIC HETL

Logged: 6/17/2005 10:56:00AM

BELFAST WATER DISTRICT
BELFAST WATER DISTRICT
PO BOX 506
BELFAST ME 04915

Fax#:

Folder/ Invoice #: A008368

Office Use Only:
Line Item
90140
Public

Project Name:

No. of Samples in Folder: 1

Released: 7/11/2005

Case #:

A008368001

CERTIFICATION

The HETL hereby certifies that all test results for this sample were analyzed by the approved method listed, including preservation, preparation , and holding times, unless otherwise indicated.

John A. Krueger, Director

Richard French,
Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

CC:

Continued from Previous Page

HETL Sample Number: **A008368001** Description:**TW 18 DW-H20**

Matrix: **Potable Water** Sample Date:**6/17/2005** Time: **11:14**

Method: **508.1** Analyst **BOB CAUGHEY** Analysis Date: **6/30/05**

Preparation Method: 508 SPE **Prepared by:** BOB CAUGHEY

Date Prepared	Time Prepared	Amount Extracted	Extraction pH	Final Amount of Extract
6/23/05	1030	1 L	<2.0	1 ml

Analyte	Result	Unit	RL	MCL	Qualifiers
Aroclor 1016	<0.20	ug/L	0.20		U
Aroclor 1221	<0.20	ug/L	0.20		U
Aroclor 1232	<0.20	ug/L	0.20		U
Aroclor 1242	<0.20	ug/L	0.20		U
Aroclor 1248	<0.20	ug/L	0.20		U
Aroclor 1254	<0.20	ug/L	0.20		U
Aroclor 1260	<0.20	ug/L	0.20		U
Chlordane	<0.25	ug/L	0.25	2.0	U
Toxaphene	<1.5	ug/L	1.5	3.0	U
Endrin	<0.20	ug/L	0.2	2.0	U

Surrogate Analyte (added as part of testing to verify performance)	Result	Amount	% Rec	Low % Rec	High % Rec	Qualifiers
4,4-Dibromobiphenyl	2.20	2.5	88.1	70	130	

Continued from Previous Page HETL Sample Number: **A008368**

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Results meet the requirements of the NELAC standards unless otherwise noted.

"mg/L" = Milligrams per liter; "ug/L" = Micrograms per Liter; "mg/Kg" = Milligrams per Kilogram;
"ug/Kg" = Micrograms per Kilogram; "PPM" = Parts per Million; "NTU" = Nephelometric Turbidity Units;
The MCL, Maximum Contaminant Level is listed for comparing your results with recommended levels.
In the "Note" column, an " * " is placed to indicate any results that exceed this MCL.
If there are no " * " in the "Note" column, your water is considered satisfactory for those tests.

NC = Not confirmed NQ = Not Quantitated NA = Not Analyzed J = Approximately U = Undetected
RL-Reporting Limit, the lowest concentration which can be reliably reported on a routine basis
"<" = Less than ">" = Greater than
Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

BELFAST WATER DISTRICT
PO BOX 506

BELFAST, ME 04915 Kit# 9322
PEST_CL_PCBS_508 A008368

90140

THIS FORM IS USED ONLY FOR COMPLIANCE WATER SAMPLES

MAINE DRINKING WATER PROGRAM

Water Test for:

For Compliance Period: to ONLY.

PUBLIC WATER SYSTEM INFORMATION

BELFAST WATER DISTRICT
PO BOX 506

BELFAST, ME 04915 Kit# 9321
SVO_525 A008367

90140

Please Circle One:
Address Change | Send Addl. Copy to:

_____
_____
_____
_____

LABORATORY INFORMATION

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY
221 State Street, Station #12
Department of Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716 Fax. No. 207-287-6832

Step 1. Follow instructions for collecting sample on enclosed sheet: INSERT

Step 2. Fill in ALL the information below for the samples(s).

Step 3. Sign the form. IMPORTANT!! The sample will automatically be rejected if the form is not signed.

Required Information for Each Bottle in the Analytical Test Kit

SAMPLE POINT LOCATION, IN ACCORDANCE WITH SITE PLAN	DATE SAMPLE WAS TAKEN	TIME SAMPLE WAS TAKEN	SAMPLER'S INITIALS
TW 18	6-17-05	6:57 A.m.	K.P.

Town Where Sample Was Taken: SWANVille/BELFAST Other Comments: _____

I certify that I collected this sample at the location, date and time recorded above and that I collected the sample in accordance with the directions on the enclosed insert.

SIGNATURE:	Print Name for Data Entry at Lab:	WORK TELEPHONE:	HOME TELEPHONE:
K Pooler	Keith Pooler	338-1200	

STATE OF MAINE
DEPARTMENT OF HEALTH AND HUMAN SERVICES
12 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0012

JOHN ELIAS BALDACCI
GOVERNOR

JOHN R. NICHOLAS
COMMISSIONER

May 17, 2005

Dear Client,

The Health & Environmental Testing Laboratory has recently switched to a new Laboratory Information Management System (LIMS) and as a result of this change there will be some differences in how we order kits, manage samples, and report results. We ultimately believe that you will be better served and that we will be more efficient, though there will be a learning curve for all involved. This letter summarizes some of the changes in hopes of making the transition as smooth as possible for you, our valued customer.

Some of our test codes have changed and some have remained the same. The ones that have changed are Bacteria is now ***TG***, Fluoride is now ***F_Lachat*** (F meaning Fluoride and Lachat is the instrument used to test Fluoride), TSN is now ***VOC_524***, TQ3 is now ***Carbam_531***, TQ1 is now ***Chlorinated Acids/Micro extraction***, TCP is now ***PEST_CL_PCBS_508***, TSO is now ***SVO_525***, TSP is now ***THM_524***, Thaac is now ***HAA_552***, TSS is now ***Radon Water***, and TSVY is now ***Radium 228***. TSH is also gone. Instead of seeing TSH, NO3N or TSH, AS you will now see ***NITRATE*** or ***ARSENIC***. These changes in the names reflect the EPA methods or actual analytes that the HETL uses.

If you have historically received Bacteria and Fluoride in the same bottle, you will now be receiving them in separate bottles. This change was necessary for improved sample tracking and quality control within the laboratory. We will however put them in the same box when we ship them to you and there will be a separate Chain of Custody for the two different sample types. We will use smaller bottles so that the shipping costs will not be changed significantly. As discussed previously, the new test codes will be used: TG and F_Lachat. .

For projects that calculate a result based upon multiple samples, such as groups of 5 Lead & Copper, all samples must be returned before the results, the report, the invoice and (importantly the calculations) can be released. The samples do **not** have to be sent at the same time.

Our new LIMS (StarLims) uses a different numbering system than our previous system. Our new system uses a combination of folder and sample numbers. Sample sets are grouped into "folders". A folder number looks like this: A123456. Individual samples become part of the "folder" with suffixes like: 001,002,003, etc. So, you may see a number like: A12345001 on a bottle. While this may seem confusing, it will allow us to track your samples more efficiently and ultimately be able to serve you better.

We are sorry for any confusion this has caused and hope this letter will help you to better understand how this new system works. If you have any questions please call us at 287-1716.

PHONE: (207) 2871716 FAX: (207) 2874525 TTY (Deaf/Hard of Hearing): (207) 2874479

INSERT# **14**

INSTRUCTIONS FOR COLLECTING COMPLIANCE WATER SAMPLES FOR Semi-Volatile Screen

(TSO/TCP)

Note: Sample kits are pre-coded and can be used only for the tests and public water systems listed. Do not change the test codes or switch the paperwork or bottles from other sample kits.

(Both bottles are to be collected at the same point and following the steps below)

1. Collect sample at the sample point preprinted on the sample form.
2. Remove any screen, hoses and aerators from end of faucet.
3. Run COLD water for 3 to 5 minutes to make sure water has not been sitting for a long time in pipes or tanks and is fresh from the well.
4. Turn water down so it does not splash.
5. **Caution!!!** Contains Hydrochloric acid and can cause burns. "Empty" sample vials contain a special preservative. Open slowly and carefully. **Do not rinse bottle.**
6. Remove container cap. Do not allow inside of cap, inside of bottle, or bottle threads to be touched by any object.
7. Fill bottle carefully to shoulder. Screw cap on securely.
8. Freeze cool-pack and replace in shipping container just prior to shipping.
9. Fill out the required information on sample form. **SIGN THE FORM!** The sample will not be processed unless the form has a signature!
10. Return bottle with completed paperwork to lab. If mailed, use the enclosed label "Water Sample First Class Non-PMPC Direct to Augusta." **SAMPLE MUST ARRIVE AT LAB WITHIN 07 DAYS OF COLLECTION! If not mailed directly after sample collection, store samples at 4°C.**

IF YOU HAVE ANY QUESTIONS....PLEASE CALL THE MAINE DRINKING WATER PROGRAM AT (207) 287-2070 OR THE LABORATORY AT (207) 287-1716.

NOTE: If you do not want to use the Health & Environmental Testing Laboratory for your water testing, or do not wish to be on the automatic shipping list for sample kits, please return this kit and paperwork to the laboratory.

MAINE HEALTH AND ENVIRONMENTAL
TESTING LABORATORY
221 State Street, Station #12
Department of Health and Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

PUBLIC HETL

Logged: 6/17/2005 10:55:00AM

BELFAST WATER DISTRICT
BELFAST WATER DISTRICT
PO BOX 506
BELFAST ME 04915

Fax#:

Folder/ Invoice #: A008369

Office Use Only:
Line Item
90140
Public

Project Name:

Released: 6/27/2005

No. of Samples in Folder: 1

Case #:

A008369001

CERTIFICATION

The HETL hereby certifies that all test results for this sample were analyzed by the approved method listed, including preservation, preparation , and holding times, unless otherwise indicated.

John A. Krueger, Director

Richard French,
Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

CC:

6/27/2005 3:28:40PM

Continued from Previous Page

HETL Sample Number: **A008369001** Description: **TW 18 DW-H20**

Matrix: **Potable Water** ample Date: **6/17/2005** Time: **11:15**

Method: **515.3** Analyst **BOB CAUGHEY** Analysis Date: **6/21/05**

Preparation Method:	Microextraction		**Prepared by:**	BOB CAUGHEY
Date Prepared	**Time Prepared**	**Amount Extracted**	**Extraction pH**	**Final Amount of Extract**
6/20/05	0830	40 ml	<2.0	3 ml

Analyte	Result	Unit	RL	MCL	Qualifiers
2,4,5-T	<1.5	ug/L	1.5		U
2,4-D	<4.0	ug/L	4.0		U
Aciflorfen	<3.0	ug/L	3.0		U
Dalapon	<3.0	ug/L	3.0	200	U
Dicamba	<0.50	ug/L	0.5		U
Dinoseb	<0.80	ug/L	0.8	7.0	U
Garlon	<1.5	ug/L	1.5		U
Pentachlorophenol	<0.20	ug/L	0.2	1.0	U
Picloram	<4.0	ug/L	4.0	500	U
Silvex	<0.50	ug/L	0.5		U

Surrogate Analyte (added as part of testing to verify performance)	Result	Amount	% Rec	Low % Rec	High % Rec	Qualifiers
DCAA	25.3	25.0	101.2	70	130	

221 State Street, Station #12 Department of Human Services Augusta, Maine 04333 Tel. No. 207-287-1716 Fax. No. 207-287-6832

Continued from Previous Page HETL Sample Number: **A008369**

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Results meet the requirements of the NELAC standards unless otherwise noted.

"mg/L" = Milligrams per liter; "ug/L" = Micrograms per Liter; "mg/Kg" = Milligrams per Kilogram;
"ug/Kg" = Micrograms per Kilogram; "PPM" = Parts per Million; "NTU" = Nephelometric Turbidity Units;
The MCL, Maximum Contaminant Level is listed for comparing your results with recommended levels.
In the "Note" column, an " * " is placed to indicate any results that exceed this MCL.
If there are no " * " in the "Note" column, your water is considered satisfactory for those tests.

NC = Not confirmed NQ = Not Quantitated NA = Not Analyzed J = Approximately U = Undetected
RL-Reporting Limit, the lowest concentration which can be reliably reported on a routine basis
"<" = Less than ">" = Greater than
Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

THIS FORM IS USED ONLY FOR COMPLIANCE WATER SAMPLES

MAINE DRINKING WATER PROGRAM

Water Test for:

For Compliance Period: to ONLY

PUBLIC WATER SYSTEM INFORMATION

BELFAST WATER DISTRICT
PO BOX 506

BELFAST, ME 04915 Kit# 9323
CHLORINATED ACIDS A008369

90140

Please Circle One:
Address Change | Send Addl. Copy to:

LABORATORY INFORMATION

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY
221 State Street, Station #12
Department of Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716 Fax. No. 207-287-6832

Step 1. Follow instructions for collecting sample on enclosed sheet: INSERT

Step 2. Fill in ALL the information below for the samples(s).

Step 3. Sign the form. IMPORTANT!! The sample will automatically be rejected if the form is not signed.

Required Information for Each Bottle in the Analytical Test Kit

SAMPLE POINT LOCATION, IN ACCORDANCE WITH SITE PLAN	DATE SAMPLE WAS TAKEN	TIME SAMPLE WAS TAKEN	SAMPLER'S INITIALS
TW 18	6-17-05	6:50 AM	K.P

Town Where Sample Was Taken: SWANVILLE/BELFAST Other Comments: _____

I certify that I collected this sample at the location, date and time recorded above and that I collected the sample in accordance with the directions on the enclosed insert.

SIGNATURE:	Print Name for Data Entry at Lab:	WORK TELEPHONE:	HOME TELEPHONE:
Keith H Pooler	KEITH POOLER	338-1200	

INSERT# **13**

INSTRUCTIONS FOR COLLECTING COMPLIANCE WATER SAMPLES FOR Herbicide Screen

(TQ1)

Note: Sample kits are pre-coded and can be used only for the tests and public water systems listed. Do not change the test codes or switch the paperwork or bottles from other sample kits.

(Both bottles are to be collected at the same point and following the steps below)

1. Collect sample at the sample point preprinted on the sample form.
2. Remove any screen, hoses and aerators from end of faucet.
3. Run COLD water for 3 to 5 minutes to make sure water has not been sitting for a long time in pipes or tanks and is fresh from the well.
4. Turn water down so it does not splash.
5. **Caution!!!** Contains Hydrochloric acid and can cause burns. "Empty" sample vials contain a special preservative. Open slowly and carefully. **Do not rinse bottle.**
6. Remove container cap. Do not allow inside of cap, inside of bottle, or bottle threads to be touched by any object.
7. Fill bottle carefully to shoulder. Screw cap on securely.
8. Freeze cool-pack and replace in shipping container just prior to shipping.
9. Fill out the required information on sample form. **SIGN THE FORM!** The sample will not be processed unless the form has a signature!
10. Return bottle with completed paperwork to lab. If mailed, use the enclosed label "Water Sample First Class Non-PMPC Direct to Augusta." **SAMPLE MUST ARRIVE AT LAB WITHIN 14 DAYS OF COLLECTION! If not mailed directly after sample collection, store samples at 4°C.**

IF YOU HAVE ANY QUESTIONS....PLEASE CALL THE MAINE DRINKING WATER PROGRAM AT (207) 287-2070 OR THE LABORATORY AT (207) 287-1716.

NOTE: If you do not want to use the Health & Environmental Testing Laboratory for your water testing, or do not wish to be on the automatic shipping list for sample kits, please return this kit and paperwork to the laboratory.

MAINE HEALTH AND ENVIRONMENTAL
TESTING LABORATORY
221 State Street, Station #12
Department of Health and Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

PUBLIC HETL

Logged: 6/17/2005 10:52:00AM

Folder/ Invoice #: A008370

BELFAST WATER DISTRICT
BELFAST WATER DISTRICT
PO BOX 506
BELFAST ME 04915

Fax#:

Office Use Only:
Line Item
90140
Public

Project Name:

Released: 6/27/2005

No. of Samples in Folder: 1

Case #:

A008370001

CERTIFICATION

The HETL hereby certifies that all test results for this sample were analyzed by the approved method listed, including preservation, preparation , and holding times, unless otherwise indicated.

John A. Krueger, Director

Richard French,
Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by:

CC:

6/27/2005 2:01:45PM

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY - Visit our Web Site at: http://www.state.me.us/dhs/etl
221 State Street, Station #12 Department of Human Services Augusta, Maine 04333 Tel. No. 207-287-1716 Fax. No. 207-287-6832

Continued from Previous Page

HETL Sample Number: **A008370001** Description: **TW 18 DW-H20**

Matrix: **Potable Water** Sample Date: **6/17/2005** Time: **11:16**

Method: **531.1** Analyst **BOB CAUGHEY** Analysis Date: **6/23/05**

Analyte	Result	Unit	RL	MCL	Qualifiers
Aldicarb	<3.0	ug/L	3.0		U
Aldicarb Sulfone	<2.0	ug/L	2.0		U
Aldicarb Sulfoxide	<2.0	ug/L	2.0		U
Carbaryl	<1.0	ug/L	1.0		U
Carbofuran	<2.0	ug/L	2.0	40	U
3-Hydroxycarbofuran	<2.0	ug/L	2.0		U
Methomyl	<2.0	ug/L	2.0		U
Oxamyl	<2.0	ug/L	2.0	200	U

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Results meet the requirements of the NELAC standards unless otherwise noted.

"mg/L" = Milligrams per liter; "ug/L" = Micrograms per Liter; "mg/Kg" = Milligrams per Kilogram;
"ug/Kg" = Micrograms per Kilogram; "PPM" = Parts per Million; "NTU" = Nephelometric Turbidity Units;
The MCL, Maximum Contaminant Level is listed for comparing your results with recommended levels.
In the "Note" column, an " * " is placed to indicate any results that exceed this MCL.
If there are no " * " in the "Note" column, your water is considered satisfactory for those tests.

NC = Not confirmed NQ = Not Quantitated NA = Not Analyzed J = Approximately U = Undetected
RL-Reporting Limit, the lowest concentration which can be reliably reported on a routine basis
"<" = Less than ">" = Greater than
Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

THIS FORM IS USED ONLY FOR COMPLIANCE WATER SAMPLES

MAINE DRINKING WATER PROGRAM

Water Test for:

For Compliance Period: to ONLY

PUBLIC WATER SYSTEM INFORMATION

BELFAST WATER DISTRICT
PO BOX 506

BELFAST, ME 04915
CARBAM_531

Kit # 9324
A008370

90140

Please Circle One:
Address Change | Send Addl. Copy to:

LABORATORY INFORMATION

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY
221 State Street, Station #12
Department of Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716 Fax. No. 207-287-6832

Step 1. Follow instructions for collecting sample on enclosed sheet: INSERT

Step 2. Fill in ALL the information below for the samples(s).

Step 3. Sign the form. IMPORTANT!! The sample will automatically be rejected if the form is not signed.

Required Information for Each Bottle in the Analytical Test Kit

SAMPLE POINT LOCATION, IN ACCORDANCE WITH SITE PLAN	DATE SAMPLE WAS TAKEN	TIME SAMPLE WAS TAKEN	SAMPLER'S INITIALS
TW 1	6-17-05	6:54 AM	KP

Town Where Sample Was Taken: SWANV, CO/BELFAST Other Comments: _____

I certify that I collected this sample at the location, date and time recorded above and that I collected the sample in accordance with the directions on the enclosed insert.

SIGNATURE:	Print Name for Data Entry at Lab:	WORK TELEPHONE:	HOME TELEPHONE:
Keith Pooler	Keith Pooler	338-1200	

INSERT# **15**

INSTRUCTIONS FOR COLLECTING COMPLIANCE WATER SAMPLES FOR Carbamates

(TQ3)

Note: Sample kits are pre-coded and can be used only for the tests and public water systems listed. Do not change the test codes or switch the paperwork or bottles from other sample kits.

(Both bottles are to be collected at the same point and following the steps below)

1. Collect sample at the sample point preprinted on the sample form.
2. Remove any screen, hoses and aerators from end of faucet.
3. Run COLD water for 3 to 5 minutes to make sure water has not been sitting for a long time in pipes or tanks and is fresh from the well.
4. Turn water down so it does not splash.
5. **Caution!!!** Contains Monochloroacetic acid that may irritate skin. "Empty" sample vials contain a special preservative. Open slowly and carefully. **Do not rinse bottle.**
6. Remove container cap. Do not allow inside of cap, inside of bottle, or bottle threads to be touched by any object.
7. Fill vial carefully until water is actually above the rim. (This will prevent the formation of an air pocket in the vial).
8. Carefully hook cap over the top of the vial, trying to match the threads as shown in the diagram on the back of these instructions. The Teflon side of the septum must be down (facing the sample).
9. Screw cap on securely and check for air bubbles by inverting the vial and gently tapping the cap. Samples with bubbles cannot be analyzed.
10. Freeze cool-pack and replace in shipping container just prior to shipping.
11. Fill out the required information on sample form. **SIGN THE FORM!** The sample will not be processed unless the form has a signature!
12. Return bottle with completed paperwork to lab. If mailed, use the enclosed label "Water Sample First Class Non-PMPC Direct to Augusta." **SAMPLE MUST ARRIVE AT LAB WITHIN 07 DAYS OF COLLECTION! If not mailed directly after sample collection, store samples at 4°C.**

IF YOU HAVE ANY QUESTIONS....PLEASE CALL THE MAINE DRINKING WATER PROGRAM AT (207) 287-2070 OR THE LABORATORY AT (207) 287-1716.

NOTE: If you do not want to use the Health & Environmental Testing Laboratory for your water testing, or do not wish to be on the automatic shipping list for sample kits, please return this kit and paperwork to the laboratory.

BELFAST WATER DISTRICT
PO BOX 506

BELFAST, ME 04915
PEST_CL_PCBS_508

Kit# 9322
A008368

90140

THIS FORM IS USED ONLY FOR COMPLIANCE WATER SAMPLES

MAINE DRINKING WATER PROGRAM

Water Test for:

For Compliance Period: to ONLY.

PUBLIC WATER SYSTEM INFORMATION

BELFAST WATER DISTRICT
PO BOX 506

BELFAST, ME 04915
SVO_525

Kit# 9321
A008367

90140

Please Circle One:
Address Change | Send Addl. Copy to:

_____
_____
_____
_____

LABORATORY INFORMATION

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY
221 State Street, Station #12
Department of Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716 Fax. No. 207-287-6832

Step 1. Follow instructions for collecting sample on enclosed sheet: INSERT

Step 2. Fill in ALL the information below for the samples(s).

Step 3. Sign the form. IMPORTANT!! The sample will automatically be rejected if the form is not signed.

Required Information for Each Bottle in the Analytical Test Kit

SAMPLE POINT LOCATION, IN ACCORDANCE WITH SITE PLAN	DATE SAMPLE WAS TAKEN	TIME SAMPLE WAS TAKEN	SAMPLER'S INITIALS
TW 18	6-17-05	6:57 A.M.	K.P.

Town Where Sample Was Taken: SWANVille/BELFAST Other Comments: _____

I certify that I collected this sample at the location, date and time recorded above and that I collected the sample in accordance with the directions on the enclosed insert.

SIGNATURE:	Print Name for Data Entry at Lab:	WORK TELEPHONE:	HOME TELEPHONE:
Keith Pooler	Keith POOLER	338-1200	

MAINE HEALTH AND ENVIRONMENTAL
TESTING LABORATORY
221 State Street, Station #12
Department of Health and Human Services
Augusta, Maine 04333
Tel. No. 207-287-1716
Fax. No. 207-287-6832

PUBLIC HETL

BELFAST WATER DISTRICT
BELFAST WATER DISTRICT
PO BOX 506
BELFAST ME 04915 Fax#:

Logged: 8/30/2005 10:57:00AM
Folder/ Invoice # **A017728**

Office Use Only:
Line Item
90140
Public

Project Name:

No. of Samples in Folder: 1

Released: 9/2/2005
Case #:

A017728001

CERTIFICATION

The HETL hereby certifies that all test results for this sample were analyzed by the approved method listed, including preservation, preparation , and holding times, unless otherwise indicated.

John A. Krueger, Director Richard French, Quality Assurance Officer

If we can be of further assistance to you, Please Call us at 287-1716

Approved by: Thomas Crosby

CC:

MAINE HEALTH AND ENVIRONMENTAL TESTING LABORATORY - Visit our Web Site at: http://www.state.me.us/dhs/etl
221 State Street, Station #12 Department of Human Services Augusta, Maine 04333 Tel. No. 207-287-1716 Fax. No. 207-287-6832

Continued from Previous Page HETL Folder Number: **A017728**

HETL Sample Number: A017728001 Description: RPA008360 TW 18 DW-H20

Matrix: Potable Water Sample Date: 8/29/2005 Time: 1235

Sampler: KEITH POOLER

Analyte	Result	Units	High Limit	Low Limit	RL	MCL	Qualifier	Method	Analyst	Analysis Date
Color	<5	PCU			5	15	U		rickc	

Units & Measurement

"**mg/L**" = Milligrams per liter; "**ug/L**" = Micrograms per Liter; "**mg/Kg**" = Milligrams per Kilogram;
"**ug/Kg**" = Micrograms per Kilogram; "**PPM**" = Parts per Million; "**NTU**" = Nephelometric Turbidity Units;

The MCL, Maximum Contaminant Level is listed for comparing your results with recommended levels.
In the "Note" column, **an " * "** is placed to indicate any results that **exceed** this MCL.
If there are no **" * "** in the "Qualifier" column, your water is considered **satisfactory** for those tests.

NC = Not confirmed **NQ** = Not Quantitated **NA** = Not Analyzed **J** = Approximately **U** = Undetected

RL-Reporting Limit, the lowest concentration which can be reliably reported on a routine basis
"<" = Less than ">" = Greater than

Note: Results below the advisory limit, including < and K are considered satisfactory for that parameter.

Disclaimer

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Results **meet** the requirements of the **NELAC** standards unless otherwise noted.

Part of TE/
RoTAKO

CEC

CLANCY ENVIRONMENTAL CONSULTANTS, INC.
Consulting and Microbiological Laboratory Services

REPORT: MPA, *Giardia* and *Cryptosporidium*

Client Information

Name: Belfast Water District

Address: P.O. Box 506
Belfast, ME 04915

Report Date: 29 June 2005

Attention: Harry Smith

Sample Information

Lab ID:	205171-1
Sample ID:	TW18
Sample Type:	Groundwater
Sample Volume:	1,016 gal (3,845 L)
Date Sampled:	16-17 June 2005
Date Received:	18 June 2005
Turbidity Start/End (ntu):	Not Reported
pH Start/End:	7.40/7.50
Filter Color:	Pale tan
Packed Pellet Vol:	<0.1 mL

Microscopic Particulate Analysis

Category	No./100gal
Algae:	ND
Amoebae:	ND
Crustaceans/Parts:	6.9E+0
Diatoms:	ND
Insects/Parts:	ND
Invertebrates/Eggs:	ND
Nematodes/Eggs:	ND
Pollen:	3.0E+0
Protozoa (Free-Living):	3.2E+5
Rotifers/Eggs:	ND
Spores:	ND
Vegetative Debris:	ND
Volume Examined (L):	381.7
Detection Limit:	9.9E-1

ND: None Detected

Analyst: RMM

CEC

***Giardia* and *Cryptosporidium* Analysis**

205171-1
TW18

Giardia Cysts: <1/283 L (<0.4/100 L)

Cryptosporidium Oocysts: <1/283 L (<0.4/100 L)

Analyst: SH

Summary

a. *Giardia* and *Cryptosporidium*

No fluorescing objects resembling *Giardia* cysts or *Cryptosporidium* oocysts were observed in the sample. This does not mean that no cysts or oocysts were present in the sample, only that none were present in the portion examined.

Recovery of cysts and oocysts from environmental samples is difficult due to the nature of the method. The method detection limit and recoveries are not measured in routine sampling events. Numbers of cysts and oocysts may be underestimated or overestimated in any given sample due to the low recovery rates (underestimation) or the lack of specificity of the reagents (overestimation).

b. MPA

According to the USEPA Consensus Method the relative risk of surface water contamination for this sample is low.

Bioindicator	Range	Relative Risk Factor
Giardia	Not Significant	0
Coccidia	Not Significant	0
Diatoms	Not Significant	0
Other Algae	Not Significant	0
Insects/Larvae	Not Significant	0
Rotifers	Not Significant	0
Plant Debris	Not Significant	0
Total:		0

Reviewed by:

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CLANCY ENVIRONMENTAL CONSULTANTS, INC.
Consulting and Microbiological Laboratory Services

SAMPLING DATA SHEET

Client: Harry Smith

Sample ID:

PWS ID No.(for LT2): 90140

Facility ID (for LT2):

Collection Point ID (for LT2) : TW18

Sampler: Keith Pooler

Analysis Requested: (check as appropriate)

Giardia/*Cryptosporidium* (USEPA Method 1623)	
Cryptosporidium (US EPA Method 1622)	
Microscopic Particulate Analysis (MPA)	X
Filtration Efficiency Using MPA	

Report To: Belfast Water District
P.O. Box 506
Belfast, ME 04915

Invoice To: Belfast Water District
P.O. Box 506
Belfast, ME 04915

Phone# 207-338-1200 Fax# 207-338-0444 PO#

Source Information

Water Type: Raw X Finished Other
Water Source: Surface, describe
Ground, describe X sand and gravel aquifer

Sampling Data

CEC Sampler No (number on the flow totalizer eg. 14443546) 40507533
Start Date/Time: 6/16/05 8:30 AM End Date/Time: 6/17/05 6:30 A.M.
Start Turbidity: End Turbidity:
Start pH: 7.40 End pH: 7.50
Meter Reading at Start: 9035 Meter Reading at End: 3051
Total Gallons Filtered:

If bulk water sample for matrix spike please provide sample collection information (ie. was the sample collected after the field sample or simultaneously?)

Treatment Information (for finished water)

Treatment Chemicals –Please list all chemicals used in the treatment process.

Filtration – Please describe the type of filter used.

Disinfection – Please list the disinfectant(s) used.

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Sampling Instructions for *Giardia*, *Cryptosporidium*, and Microscopic Particulate Analysis (MPA) Testing

******Please read all instructions carefully prior to beginning sample collection. ******

The Sampler

The sampler consists of a female hose connector, an inlet hose (which must be new and supplied by you), a filter holder, a 1 μm nominal porosity filter, a water meter, and a 1 gal/min (4L/min) flow control valve (see Fig 1) and an outlet hose (supplied by you). A pump will be needed for unpressurized sources.

Collecting the Sample

1. Be sure that the sampler is assembled with the correct direction of the flow at the filter holder and the water meter as indicated by arrows on both devices. Connect a new piece of hose to the inlet side of the sampler. The inlet hose should be new (uncontaminated) for each sample. If this is not possible, the hose should be well flushed with some of the sample water prior to use. New section of inlet hose for each sample will eliminate the possibility of carryover of particulate material that could contain *Giardia* cysts, *Cryptosporidium* oocysts or other biological particulates.
2. Connect the effluent hose to a drain to waste the water as the sample is being collected.
3. If the source to be sampled is not continuously flushed, allow the tap to run for 20 minutes prior to flushing the sampler to remove any debris that may be present in the piping or lines.
4. Flush the sampler with 10 gallons of water (10 minutes) prior to placing the filter in the holder. Open the flow from the water source. Check all connections for leaks. Check the flow rate of the discharge. If the flow rate is 0.75 – 1.25 gpm, no adjustments need to be made. If the flow rate is <0.75 gpm reduce the water pressure on the inlet side to 30 psi. This can be accomplished by reducing the sample flow rate in to the filter housing or by installing a pressure regulator on the inlet side of the housing. **DO NOT REMOVE** the flow control valve on the outlet side of the filter. If the sample collection rate exceeds 1.25 gpm the sample will be considered invalid. If you are collecting from an unpressurized source you may not be able to boost the sample collection rate without a pump.
5. After flushing, stop the flow to the sampler. Discard the water remaining in the holder. Put clean filter cartridge into the holder. Hands must be clean or gloves must be worn whenever handling the filter. Improper handling of the filter at any time can introduce sample contamination. Tighten the filter housing. Begin sampling by opening the inlet valve.
6. Record the start time, meter reading, pH, and turbidity on the data sheet. Record the additional information. Record any other information concerning the sample that may be important, i.e.: problems encountered in collecting the sample, changes in sampling conditions, or other observations.
7. The volume of sample collected will depend on the analysis requested. For raw surface water, 100-200 gallons (378-774L) is recommended. If waters are very turbid, 50 gallons is sufficient. For filtered surface or ground water samples, up to 1000 gallons (3785L) may be collected. We recommend collecting a minimum volume of 500 gallons (1893 L). Sample volumes can be adjusted up or down depending on sampling conditions, water quality, etc. Check with Clancy Environmental Consultant's staff if you are unsure of the appropriate volume to be sampled.

8. After the sample has been collected, turn off the flow to the sampler. Record the stop time, final meter reading, turbidity, and pH on the data sheet.

9. Disconnect the sampler while maintaining the inlet hose level above the level of the opening on the outlet hose to prevent backwashing of particulates from the filter.

10. Open the filter holder, and with clean or gloved hands, remove the filter and place it in the Zip-lock bag provided. Pour the water remaining in the holder into the bag with the filter. This residual water is part of the sample.

11. Seal the bag and place it into a second Zip-lock bag. Write the identifying sample information on the label on the second bag. Be sure you label each sample as it is collected.

12. Ship samples back to CEC by overnight carrier (Airborne Express, FedEx, UPS, etc). The samples should be kept cold with wet ice or blue ice packs. Samples should not be frozen during holding or shipping. If samples are to be held for shipping while other samples are being collected, they must be stored at 2-5°C. Samples **must** be shipped within 24 hours of the end of sampling.

Ship samples to: Clancy Environmental Consultants, Inc.
2 Mapleville Depot
St. Albans, VT 05478

NOTE: Samples shipped on Friday must be delivered on Saturday. Please call CEC for our Saturday delivery address.

14. Clean samplers MUST be used for each source and separate samplers are recommended for raw and filtered or groundwater samples. Instructions for cleaning the samplers between samples are included. It is very important to clean the sampler well between samples to avoid carryover of particulates form one sample to the next.

Use of a Pump for Unpressurized Sources

1. For unpressurized sources, a pump must be used to collect the sample. If possible, the pump should be connected at the outlet side of the sampler to avoid having the sample pass through the pump where contamination could be introduced.

2. Once the pump is in place, follow the sampling instructions above.

3. If the water being sampled is turbid, it is possible to plug the filter and burn out the pump. To avoid this, the person collecting the sample should remain in attendance throughout the sample collection. If the filter plugs, stop pumping immediately. Record the appropriate information and follow the instructions for sample preparation for shipping.

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Cleaning Samplers Between Samples

Samplers for *Giardia/Cryptosporidium* and MPA testing do not need to be sterilized. However, they must be clean and free from particulates from previous samples. Samplers can be cleaned between samples as follows:

1. Disassemble the filter holder from the hoses. Scrub the filter holder and its top in a solution of hot, soapy water. Use a brush to thoroughly clean the inside of the holder, its top, and the openings in the top. Remember that the purpose of this washing is to remove any particulates that may contaminate the next sample.
2. Rinse the holder and the top well in tap water to remove all traces of detergent. If available, follow with a rinse in laboratory grade DI water.
3. If the effluent hose is to be used again, be sure to flush it well with tap water to reduce any particulates that may have adhered from the previous sample.
4. If the influent hose must be used over, it must be thoroughly rinsed prior to use.
5. Once the sampler is cleaned, reassemble it, and flush it for 10 minutes with the water be sampled prior to collecting the sample as directed in the beginning of these instructions.
6. For storage of samplers between uses, the samplers should be cleaned immediately after the last sample is collected. The parts should be allowed to air dry and should be stored in a clean area to prevent airborne particulate contamination.

If you have any questions please feel free to phone CEC staff for assistance.

P.O. Box 314, St. Albans, VT 05478 Telephone (802) 527-2460 Fax (802) 524-3909

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2 Mapleville Depot St. Albans, VT 05478
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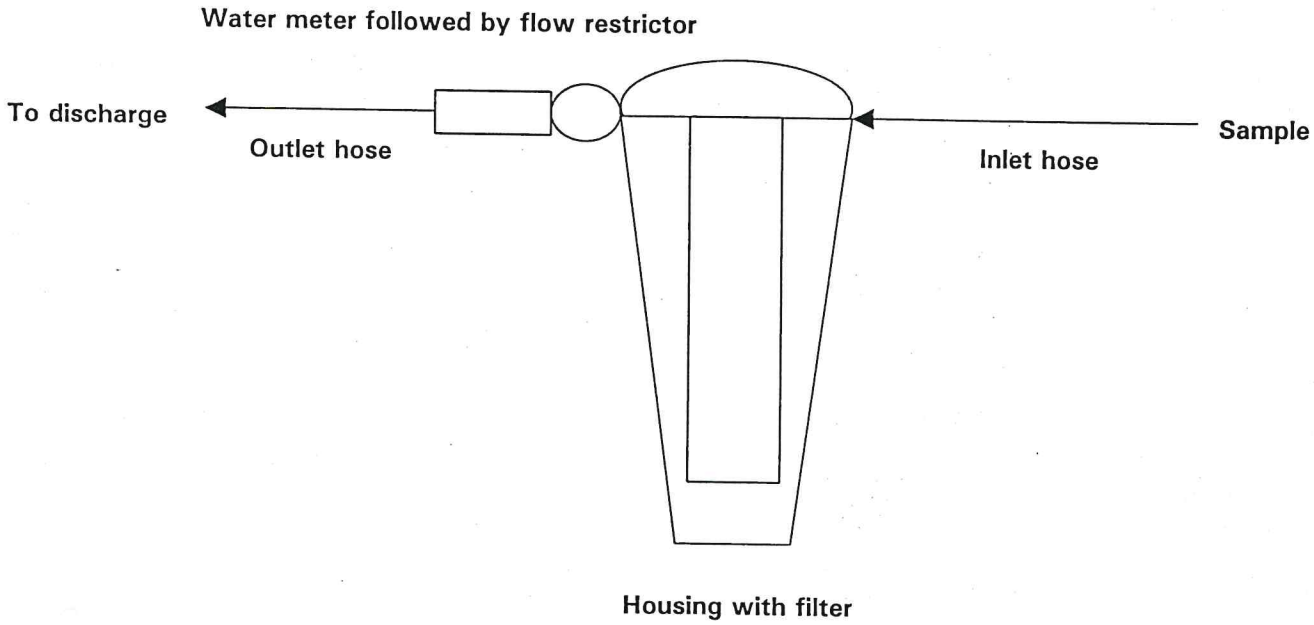

MPA Sampling Apparatus