



Barnstable County Health Laboratory

ANALYTICAL REPORT FOR Town of Plymouth DPW Environmental Management

Report Prepared for:

Town of Plymouth DPW Environmental Management

Kim Michaelis

11 Lincoln St.

Plymouth, MA 02360

Order #: G0635176

No. of Samples: 8

Date Received: 4/25/2006

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605

07/20/2006



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 7/20/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

Laboratory ID #: 0635176-01

Description: Water - Surface Water

Sample #:

Sampling Location GW-1

Collected: 4/25/2006

Collected by: KM & DG

Received: 4/25/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
<i>LAB: IC Lab</i>						
Chlorides	2.9	mg/L	1.0		EPA 300.0	4/25/2006
Nitrate as Nitrogen	0.22	mg/L	0.10	10	EPA 300.0	4/25/2006
<i>LAB: Inorganics</i>						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	5/5/2006
Dissolved Inorganic Nitroge	0.28	mg/L	0.02	1	SM 4500_NH3-H	5/10/2006
Dissolved Organic Carbon (	BRL	mg/L	0.50		EPA 9060	5/10/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.50	1	Calculation	5/10/2006
ortho-Phosphate as Phospho	BRL	mg/L	0.10		SM 4500-P F	4/26/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	5/4/2006
Total Dissolved Nitrogen (T	0.28	mg/L	0.02	1	EPA 353.2/351.2	5/1/2006
Total Dissolved Solids	48	mg/L	7.0		EPA 160.1	4/26/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 353.2/351.2	5/4/2006
<i>LAB: Metals</i>						
Boron	BRL	mg/L	0.10		EPA 6010B	5/3/2006
Copper	BRL	mg/L	0.10	1.3	SM 3111B	4/27/2006
Iron	BRL	mg/L	0.10		SM 3111B	4/27/2006
Mercury	BRL	mg/L	0.0002	0.002	EPA 7470A	5/2/2006
<i>LAB: Organics</i>						
TOC	BRL	mg/L	0.50		EPA 9060	5/10/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level



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Report Dated: 7/20/2006

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Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

EPA 524.2 - Volatile Organics by GC/MS

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
<i>LAB: GC/MS</i>						
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,1,1-Trichloroethane	BRL	ug/L	0.5	200	EPA 524.2	4/25/2006
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,1,2-Trichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
1,1-Dichloroethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,1-Dichloroethene	BRL	ug/L	0.5	7.0	EPA 524.2	4/25/2006
1,1-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2,3-Trichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2,3-Trichloropropane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2,4-Trichlorobenzene	BRL	ug/L	0.5	70	EPA 524.2	4/25/2006
1,2,4-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2-Dibromo-3-chloropropa	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2-Dibromoethane (EDB)	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2-Dichlorobenzene	BRL	ug/L	0.5	600	EPA 524.2	4/25/2006
1,2-Dichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
1,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,3,5-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,3-Dichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,3-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,4-Dichlorobenzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
2,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
2-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
4-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Benzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
Bromobenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Bromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006

RL = Reporting Limit

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Plymouth, MA 02360

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Bromodichloromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Bromoform	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Bromomethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Carbon tetrachloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
Chlorobenzene	BRL	ug/L	0.5	100	EPA 524.2	4/25/2006
Chloroethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Chloroform	BRL	ug/L	0.5	80	EPA 524.2	4/25/2006
Chloromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
cis-1,2-Dichloroethene	BRL	ug/L	0.5	70	EPA 524.2	4/25/2006
cis-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Dibromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Dibromomethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Dichlorodifluoromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Ethylbenzene	BRL	ug/L	0.5	700	EPA 524.2	4/25/2006
Hexachlorobutadiene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Isopropylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Methyl-tert-butyl ether	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Methylene chloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
n-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
n-Propylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Naphthalene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
p-Isopropyltoluene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
sec-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Styrene	BRL	ug/L	0.5	100	EPA 524.2	4/25/2006
tert-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Tetrachloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
Toluene	1.4	ug/L	0.5	1000	EPA 524.2	4/25/2006
Total xylenes	BRL	ug/L	0.5	10000	EPA 524.2	4/25/2006
trans-1,2-Dichloroethene	BRL	ug/L	0.5	100	EPA 524.2	4/25/2006

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Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

Laboratory ID #: 0635176-02

Description: Water - Surface Water

Sample #:

Sampling Location 2SR

Collected by: KM & DG

Collected: 4/25/2006

Received: 4/25/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
LAB: IC Lab						
Chlorides	6.2	mg/L	1.0		EPA 300.0	4/25/2006
Nitrate as Nitrogen	1.0	mg/L	0.10	10	EPA 300.0	4/25/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	5/5/2006
Dissolved Inorganic Nitroge	1.0	mg/L	0.02	1	SM 4500_NH3-H	5/10/2006
Dissolved Organic Carbon (	BRL	mg/L	0.50		EPA 9060	5/10/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.50	1	Calculation	5/10/2006
ortho-Phosphate as Phospho	BRL	mg/L	0.10		SM 4500-P F	4/26/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	5/4/2006
Total Dissolved Nitrogen (T	1.0	mg/L	0.02	1	EPA 353.2/351.2	5/1/2006
Total Dissolved Solids	36	mg/L	7.0		EPA 160.1	4/26/2006
Total Nitrogen (TN)	1.1	mg/L	0.50	1	EPA 353.2/351.2	5/4/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	5/1/2006
LAB: Organics						
TOC	BRL	mg/L	0.50		EPA 9060	5/10/2006

EPA 524.2 - Volatile Organics by GC/MS

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
LAB: GC/MS						
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,1,1-Trichloroethane	BRL	ug/L	0.5	200	EPA 524.2	4/25/2006
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006

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Chloroform	BRL	ug/L	0.5	80	EPA 524.2	4/25/2006
Chloromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
cis-1,2-Dichloroethene	BRL	ug/L	0.5	70	EPA 524.2	4/25/2006
cis-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Dibromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Dibromomethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Dichlorodifluoromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Ethylbenzene	BRL	ug/L	0.5	700	EPA 524.2	4/25/2006
Hexachlorobutadiene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Isopropylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Methyl-tert-butyl ether	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Methylene chloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
n-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
n-Propylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Naphthalene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
p-Isopropyltoluene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
sec-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Styrene	BRL	ug/L	0.5	100	EPA 524.2	4/25/2006
tert-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Tetrachloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
Toluene	BRL	ug/L	0.5	1000	EPA 524.2	4/25/2006
Total xylenes	BRL	ug/L	0.5	10000	EPA 524.2	4/25/2006
trans-1,2-Dichloroethene	BRL	ug/L	0.5	100	EPA 524.2	4/25/2006
trans-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Trichloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
Trichlorofluoromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Vinyl chloride	BRL	ug/L	0.5	2.0	EPA 524.2	4/25/2006

RL = Reporting Limit

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Plymouth, MA 02360

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1,1,2-Trichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
1,1-Dichloroethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,1-Dichloroethene	BRL	ug/L	0.5	7.0	EPA 524.2	4/25/2006
1,1-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2,3-Trichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2,3-Trichloropropane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2,4-Trichlorobenzene	BRL	ug/L	0.5	70	EPA 524.2	4/25/2006
1,2,4-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2-Dibromo-3-chloropropa	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2-Dibromoethane (EDB)	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2-Dichlorobenzene	BRL	ug/L	0.5	600	EPA 524.2	4/25/2006
1,2-Dichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
1,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,3,5-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,3-Dichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,3-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,4-Dichlorobenzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
2,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
2-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
4-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Benzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
Bromobenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Bromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Bromodichloromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Bromoform	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Bromomethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Carbon tetrachloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
Chlorobenzene	BRL	ug/L	0.5	100	EPA 524.2	4/25/2006
Chloroethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006

RL = Reporting Limit

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Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



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Plymouth, MA 02360

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trans-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Trichloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
Trichlorofluoromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Vinyl chloride	BRL	ug/L	0.5	2.0	EPA 524.2	4/25/2006

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Barnstable County Health Laboratory

Report Dated: 7/21/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

Laboratory ID #: 0635176-03

Description: Water - Surface Water

Sample #:

Sampling Location 2DR

Collected by: KM & DG

Collected: 4/25/2006

Received: 4/25/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
<i>LAB: IC Lab</i>						
Chlorides	24	mg/L	1.0		EPA 300.0	4/25/2006
Nitrate as Nitrogen	BRL	mg/L	0.10	10	EPA 300.0	4/25/2006
<i>LAB: Inorganics</i>						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	5/5/2006
Dissolved Inorganic Nitroge	0.07	mg/L	0.02	1	SM 4500_NH3-H	5/8/2006
Dissolved Organic Carbon (	BRL	mg/L	0.50		EPA 9060	5/10/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.50	1	Calculation	5/8/2006
ortho-Phosphate as Phospho	BRL	mg/L	0.10		SM 4500-P F	4/26/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	5/4/2006
Total Dissolved Nitrogen (T	0.07	mg/L	0.02	1	EPA 353.2/351.2	5/1/2006
Total Dissolved Solids	110	mg/L	7.0		EPA 160.1	4/26/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 353.2/351.2	5/4/2006
<i>LAB: Metals</i>						
Boron	BRL	mg/L	0.10		EPA 6010B	5/1/2006
<i>LAB: Organics</i>						
TOC	1.7	mg/L	0.50		EPA 9060	5/10/2006

EPA 524.2 - Volatile Organics by GC/MS

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
<i>LAB: GC/MS</i>						
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,1,1-Trichloroethane	BRL	ug/L	0.5	200	EPA 524.2	4/25/2006
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006

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1,1,2-Trichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
1,1-Dichloroethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,1-Dichloroethene	BRL	ug/L	0.5	7.0	EPA 524.2	4/25/2006
1,1-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2,3-Trichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2,3-Trichloropropane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2,4-Trichlorobenzene	BRL	ug/L	0.5	70	EPA 524.2	4/25/2006
1,2,4-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2-Dibromo-3-chloropropa	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2-Dibromoethane (EDB)	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,2-Dichlorobenzene	BRL	ug/L	0.5	600	EPA 524.2	4/25/2006
1,2-Dichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
1,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,3,5-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,3-Dichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,3-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
1,4-Dichlorobenzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
2,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
2-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
4-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Benzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
Bromobenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Bromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Bromodichloromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Bromoform	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Bromomethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Carbon tetrachloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
Chlorobenzene	BRL	ug/L	0.5	100	EPA 524.2	4/25/2006
Chloroethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006

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Barnstable County Health Laboratory

Report Dated: 7/20/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

Chloroform	BRL	ug/L	0.5	80	EPA 524.2	4/25/2006
Chloromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
cis-1,2-Dichloroethene	BRL	ug/L	0.5	70	EPA 524.2	4/25/2006
cis-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Dibromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Dibromomethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Dichlorodifluoromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Ethylbenzene	BRL	ug/L	0.5	700	EPA 524.2	4/25/2006
Hexachlorobutadiene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Isopropylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Methyl-tert-butyl ether	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Methylene chloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
n-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
n-Propylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Naphthalene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
p-Isopropyltoluene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
sec-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Styrene	BRL	ug/L	0.5	100	EPA 524.2	4/25/2006
tert-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Tetrachloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
Toluene	BRL	ug/L	0.5	1000	EPA 524.2	4/25/2006
Total xylenes	BRL	ug/L	0.5	10000	EPA 524.2	4/25/2006
trans-1,2-Dichloroethene	BRL	ug/L	0.5	100	EPA 524.2	4/25/2006
trans-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Trichloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/25/2006
Trichlorofluoromethane	BRL	ug/L	0.5		EPA 524.2	4/25/2006
Vinyl chloride	BRL	ug/L	0.5	2.0	EPA 524.2	4/25/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



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Barnstable County Health Laboratory

Report Dated: 7/21/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

Laboratory ID #: 0635176-04

Description: Water - Surface Water

Sample #:

Sampling Location A13

Collected: 4/25/2006

Received: 4/25/2006

Collected by: KM & DG

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
LAB: IC Lab						
Chlorides	220	mg/L	1.0		EPA 300.0	4/25/2006
Nitrate as Nitrogen	0.10	mg/L	0.10	10	EPA 300.0	4/25/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	5/5/2006
Dissolved Inorganic Nitroge	0.55	mg/L	0.02	1	SM 4500_NH3-H	5/8/2006
Dissolved Organic Carbon (	1.5	mg/L	0.50		EPA 9060	5/10/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.50	1	Calculation	5/8/2006
ortho-Phosphate as Phospho	BRL	mg/L	0.10		SM 4500-P F	4/26/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	5/4/2006
Total Dissolved Nitrogen (T	0.55	mg/L	0.02	1	EPA 353.2/351.2	5/1/2006
Total Dissolved Solids	460	mg/L	7.0		EPA 160.1	4/26/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 353.2/351.2	5/4/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	5/1/2006
Copper	BRL	mg/L	0.10	1.3	SM 3111B	4/27/2006
Iron	230	mg/L	0.10		SM 3111B	4/27/2006
Mercury	BRL	mg/L	0.0002	0.002	EPA 7470A	5/2/2006
LAB: Organics						
TOC	1.3	mg/L	0.50		EPA 9060	5/10/2006

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Barnstable County Health Laboratory

Report Dated: 7/20/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

EPA 524.2 - Volatile Organics by GC/MS

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
LAB: GC/MS						
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,1-Trichloroethane	BRL	ug/L	0.5	200	EPA 524.2	4/26/2006
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,2-Trichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,1-Dichloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1-Dichloroethene	BRL	ug/L	0.5	7.0	EPA 524.2	4/26/2006
1,1-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,4-Trichlorobenzene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
1,2,4-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromo-3-chloropropa	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromoethane (EDB)	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dichlorobenzene	BRL	ug/L	0.5	600	EPA 524.2	4/26/2006
1,2-Dichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3,5-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,4-Dichlorobenzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
2,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
2-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
4-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Benzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Bromobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Perchloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006

Reporting Limit

CL = Maximum Contaminant Level



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11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

Bromodichloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromoform	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Carbon tetrachloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Chlorobenzene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
Chloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Chloroform	BRL	ug/L	0.5	80	EPA 524.2	4/26/2006
Chloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
cis-1,2-Dichloroethene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
cis-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dichlorodifluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Ethylbenzene	BRL	ug/L	0.5	700	EPA 524.2	4/26/2006
Hexachlorobutadiene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Isopropylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methyl-tert-butyl ether	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methylene chloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
n-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
n-Propylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Naphthalene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
p-Isopropyltoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
sec-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Styrene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
tert-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Tetrachloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Toluene	BRL	ug/L	0.5	1000	EPA 524.2	4/26/2006
Total xylenes	BRL	ug/L	0.5	10000	EPA 524.2	4/26/2006
trans-1,2-Dichloroethene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006

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Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

trans-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Trichloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Trichlorofluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Vinyl chloride	BRL	ug/L	0.5	2.0	EPA 524.2	4/26/2006

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Barnstable County Health Laboratory

Report Dated: 7/20/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

EPA 524.2 - Volatile Organics by GC/MS

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
LAB: GC/MS						
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,1-Trichloroethane	BRL	ug/L	0.5	200	EPA 524.2	4/26/2006
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,2-Trichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,1-Dichloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1-Dichloroethene	BRL	ug/L	0.5	7.0	EPA 524.2	4/26/2006
1,1-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,4-Trichlorobenzene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
1,2,4-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromo-3-chloropropa	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromoethane (EDB)	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dichlorobenzene	BRL	ug/L	0.5	600	EPA 524.2	4/26/2006
1,2-Dichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3,5-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,4-Dichlorobenzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
2,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
2-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
4-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Benzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Bromobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006

RL = Reporting Limit

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Barnstable County Health Laboratory

Report Dated: 7/21/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

Laboratory ID#: 0635176-05

Description: Water - Surface Water

Sample #:

Sampling Location A17

Collected by: KM & DG

1205
4
Collected: 4/25/2006

Received: 4/25/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	17	mg/L	1.0		EPA 300.0	4/25/2006
Nitrate as Nitrogen	2.2	mg/L	0.10	10	EPA 300.0	4/25/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	5/5/2006
Dissolved Inorganic Nitroge	2.4	mg/L	0.02	1	SM 4500_NH3-H	5/8/2006
Dissolved Organic Carbon (	BRL	mg/L	0.50		EPA 9060	5/10/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.50	1	Calculation	5/8/2006
ortho-Phosphate as Phospho	BRL	mg/L	0.10		SM 4500-P F	4/26/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	5/4/2006
Total Dissolved Nitrogen (T	2.4	mg/L	0.02	1	EPA 353.2/351.2	5/1/2006
Total Dissolved Solids	72	mg/L	7.0		EPA 160.1	4/26/2006
Total Nitrogen (TN)	2.4	mg/L	0.50	1	EPA 353.2/351.2	5/4/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	5/3/2006
Copper	BRL	mg/L	0.10	1.3	SM 3111B	4/27/2006
Iron	BRL	mg/L	0.10		SM 3111B	4/27/2006
Mercury	BRL	mg/L	0.0002	0.002	EPA 7470A	5/2/2006
LAB: Organics						
TOC	BRL	mg/L	0.50		EPA 9060	5/10/2006

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Barnstable County Health Laboratory

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Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

Bromodichloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromoform	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Carbon tetrachloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Chlorobenzene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
Chloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Chloroform	BRL	ug/L	0.5	80	EPA 524.2	4/26/2006
Chloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
cis-1,2-Dichloroethene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
cis-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dichlorodifluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Ethylbenzene	BRL	ug/L	0.5	700	EPA 524.2	4/26/2006
Hexachlorobutadiene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Isopropylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methyl-tert-butyl ether	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methylene chloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
n-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
n-Propylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Naphthalene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
p-Isopropyltoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
sec-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Styrene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
tert-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Tetrachloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Toluene	BRL	ug/L	0.5	1000	EPA 524.2	4/26/2006
Total xylenes	BRL	ug/L	0.5	10000	EPA 524.2	4/26/2006
trans-1,2-Dichloroethene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006

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Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

trans-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Trichloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Trichlorofluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Vinyl chloride	BRL	ug/L	0.5	2.0	EPA 524.2	4/26/2006

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Barnstable County Health Laboratory

Report Dated: 7/21/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

Laboratory ID #: 0635176-06

Description: Water - Surface Water

Sample #:

Sampling Location 3S

Collected by: KM & DG

1325
Collected: 4/25/2006

Received: 4/25/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	9.3	mg/L	1.0		EPA 300.0	4/25/2006
Nitrate as Nitrogen	0.87	mg/L	0.10	10	EPA 300.0	4/25/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	5/5/2006
Dissolved Inorganic Nitroge	0.94	mg/L	0.02	1	SM 4500_NH3-H	5/8/2006
Dissolved Organic Carbon (	0.70	mg/L	0.50		EPA 9060	5/10/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.50	1	Calculation	5/8/2006
ortho-Phosphate as Phospho	BRL	mg/L	0.10		SM 4500-P F	4/26/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	5/4/2006
Total Dissolved Nitrogen (T	0.94	mg/L	0.02	1	EPA 353.2/351.2	5/1/2006
Total Dissolved Solids	54	mg/L	7.0		EPA 160.1	4/26/2006
Total Nitrogen (TN)	0.90	mg/L	0.50	1	EPA 353.2/351.2	5/4/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	5/1/2006
Copper	BRL	mg/L	0.10	1.3	SM 3111B	4/27/2006
Iron	0.26	mg/L	0.10		SM 3111B	4/27/2006
Mercury	BRL	mg/L	0.0002	0.002	EPA 7470A	5/2/2006
LAB: Organics						
TOC	0.60	mg/L	0.50		EPA 9060	5/10/2006

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Barnstable County Health Laboratory

Report Dated: 7/20/2006

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Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

EPA 524.2 - Volatile Organics by GC/MS

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: GC/MS						
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,1-Trichloroethane	BRL	ug/L	0.5	200	EPA 524.2	4/26/2006
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,2-Trichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,1-Dichloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1-Dichloroethene	BRL	ug/L	0.5	7.0	EPA 524.2	4/26/2006
1,1-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,4-Trichlorobenzene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
1,2,4-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromo-3-chloropropa	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromoethane (EDB)	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dichlorobenzene	BRL	ug/L	0.5	600	EPA 524.2	4/26/2006
1,2-Dichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3,5-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,4-Dichlorobenzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
2,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
2-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
4-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Benzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Bromobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level



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Barnstable County Health Laboratory

Report Dated: 7/20/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

Bromodichloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromoform	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Carbon tetrachloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Chlorobenzene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
Chloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Chloroform	BRL	ug/L	0.5	80	EPA 524.2	4/26/2006
Chloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
cis-1,2-Dichloroethene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
cis-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dichlorodifluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Ethylbenzene	BRL	ug/L	0.5	700	EPA 524.2	4/26/2006
Hexachlorobutadiene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Isopropylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methyl-tert-butyl ether	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methylene chloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
n-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
n-Propylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Naphthalene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
p-Isopropyltoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
sec-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Styrene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
tert-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Tetrachloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Toluene	BRL	ug/L	0.5	1000	EPA 524.2	4/26/2006
Total xylenes	BRL	ug/L	0.5	10000	EPA 524.2	4/26/2006
trans-1,2-Dichloroethene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

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Report Dated: 7/20/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

trans-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Trichloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Trichlorofluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Vinyl chloride	BRL	ug/L	0.5	2.0	EPA 524.2	4/26/2006

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Barnstable County Health Laboratory

Report Dated: 7/21/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

Laboratory ID #: 0635176-07

Description: Water - Surface Water

Sample #:

Sampling Location 3D

Collected by: KM & DG

Collected: 4/25/2006

Received: 4/25/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
<i>LAB: IC Lab</i>						
Chlorides	19	mg/L	1.0		EPA 300.0	4/25/2006
Nitrate as Nitrogen	BRL	mg/L	0.10	10	EPA 300.0	4/25/2006
<i>LAB: Inorganics</i>						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	5/5/2006
Dissolved Inorganic Nitroge	0.04	mg/L	0.02	1	SM 4500_NH3-H	5/8/2006
Dissolved Organic Carbon (	BRL	mg/L	0.50		EPA 9060	5/10/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.50	1	Calculation	5/8/2006
ortho-Phosphate as Phospho	BRL	mg/L	0.10		SM 4500-P F	4/26/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	5/4/2006
Total Dissolved Nitrogen (T	0.04	mg/L	0.02	1	EPA 353.2/351.2	5/1/2006
Total Dissolved Solids	82	mg/L	7.0		EPA 160.1	4/26/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 353.2/351.2	5/4/2006
<i>LAB: Metals</i>						
Boron	BRL	mg/L	0.10		EPA 6010B	5/1/2006
Copper	BRL	mg/L	0.10	1.3	SM 3111B	4/27/2006
Iron	BRL	mg/L	0.10		SM 3111B	4/27/2006
Mercury	BRL	mg/L	0.0002	0.002	EPA 7470A	5/2/2006
<i>LAB: Organics</i>						
TOC	BRL	mg/L	0.50		EPA 9060	5/10/2006

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Report Dated: 7/20/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

EPA 524.2 - Volatile Organics by GC/MS

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: GC/MS						
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,1-Trichloroethane	BRL	ug/L	0.5	200	EPA 524.2	4/26/2006
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,2-Trichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,1-Dichloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1-Dichloroethene	BRL	ug/L	0.5	7.0	EPA 524.2	4/26/2006
1,1-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,4-Trichlorobenzene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
1,2,4-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromo-3-chloropropa	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromoethane (EDB)	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dichlorobenzene	BRL	ug/L	0.5	600	EPA 524.2	4/26/2006
1,2-Dichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3,5-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,4-Dichlorobenzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
2,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
2-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
4-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Benzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Bromobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006

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Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

Bromodichloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromoform	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Carbon tetrachloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Chlorobenzene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
Chloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Chloroform	BRL	ug/L	0.5	80	EPA 524.2	4/26/2006
Chloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
cis-1,2-Dichloroethene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
cis-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dichlorodifluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Ethylbenzene	BRL	ug/L	0.5	700	EPA 524.2	4/26/2006
Hexachlorobutadiene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Isopropylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methyl-tert-butyl ether	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methylene chloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
n-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
n-Propylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Naphthalene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
p-Isopropyltoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
sec-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Styrene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
tert-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Tetrachloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Toluene	BRL	ug/L	0.5	1000	EPA 524.2	4/26/2006
Total xylenes	BRL	ug/L	0.5	10000	EPA 524.2	4/26/2006
trans-1,2-Dichloroethene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006

RL = Reporting Limit

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Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

trans-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Trichloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Trichlorofluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Vinyl chloride	BRL	ug/L	0.5	2.0	EPA 524.2	4/26/2006

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Barnstable County Health Laboratory

Report Dated: 7/21/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

Laboratory ID #: 0635176-08

Description: Water - Surface Water

Sample #:

Sampling Location Bradford

Collected by: KM & DG

Collected: 4/25/2006

Received: 4/25/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
<i>LAB: IC Lab</i>						
Chlorides	8.7	mg/L	1.0		EPA 300.0	4/25/2006
Nitrate as Nitrogen	BRL	mg/L	0.10	10	EPA 300.0	4/25/2006
<i>LAB: Inorganics</i>						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	5/5/2006
Dissolved Inorganic Nitroge	0.08	mg/L	0.02	1	SM 4500_NH3-H	5/8/2006
Dissolved Organic Carbon (	BRL	mg/L	0.50		EPA 9060	5/10/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.50	1	Calculation	5/8/2006
ortho-Phosphate as Phospho	BRL	mg/L	0.10		SM 4500-P F	4/26/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	5/4/2006
Total Dissolved Nitrogen (T	0.08	mg/L	0.02	1	EPA 353.2/351.2	5/1/2006
Total Dissolved Solids	56	mg/L	7.0		EPA 160.1	4/26/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 353.2/351.2	5/4/2006
<i>LAB: Metals</i>						
Boron	BRL	mg/L	0.10		EPA 6010B	5/1/2006
Copper	BRL	mg/L	0.10	1.3	SM 3111B	4/27/2006
Iron	BRL	mg/L	0.10		SM 3111B	4/27/2006
Mercury	BRL	mg/L	0.0002	0.002	EPA 7470A	5/2/2006
<i>LAB: Organics</i>						
TOC	BRL	mg/L	0.50		EPA 9060	5/10/2006

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Barnstable County Health Laboratory

Report Dated: 7/20/2006

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11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

EPA 524.2 - Volatile Organics by GC/MS

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: GC/MS						
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,1-Trichloroethane	BRL	ug/L	0.5	200	EPA 524.2	4/26/2006
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,2-Trichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,1-Dichloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1-Dichloroethene	BRL	ug/L	0.5	7.0	EPA 524.2	4/26/2006
1,1-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,4-Trichlorobenzene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
1,2,4-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromo-3-chloropropa	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromoethane (EDB)	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dichlorobenzene	BRL	ug/L	0.5	600	EPA 524.2	4/26/2006
1,2-Dichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3,5-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,4-Dichlorobenzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
2,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
2-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
4-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Benzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Bromobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006

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Report Dated: 7/20/2006

Report Prepared For:

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Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

Bromodichloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromoform	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Carbon tetrachloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Chlorobenzene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
Chloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Chloroform	BRL	ug/L	0.5	80	EPA 524.2	4/26/2006
Chloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
cis-1,2-Dichloroethene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
cis-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dichlorodifluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Ethylbenzene	BRL	ug/L	0.5	700	EPA 524.2	4/26/2006
Hexachlorobutadiene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Isopropylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methyl-tert-butyl ether	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methylene chloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
n-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
n-Propylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Naphthalene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
p-Isopropyltoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
sec-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Styrene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
tert-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Tetrachloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Toluene	BRL	ug/L	0.5	1000	EPA 524.2	4/26/2006
Total xylenes	BRL	ug/L	0.5	10000	EPA 524.2	4/26/2006
trans-1,2-Dichloroethene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 7/20/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635176

trans-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Trichloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Trichlorofluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Vinyl chloride	BRL	ug/L	0.5	2.0	EPA 524.2	4/26/2006

Approved By:

Gongmin Le
(Lab Director)

7/21/2006

ORIGINAL

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



Barnstable County Health Laboratory

ANALYTICAL REPORT FOR Town of Plymouth DPW Environmental Management

Report Prepared for:

Town of Plymouth DPW Environmental Management

Kim Michaelis

11 Lincoln St.

Plymouth, MA 02360

Order #: G0635206

No. of Samples: 3

Date Received: 4/26/2006

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605

05/19/2006



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 5/22/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635206

Laboratory ID #: 0635206-01

Description: Water - Surface Water

Sample #:

Sampling Location A15

Collected by: KM & KC

Collected: 4/26/2006

Received: 4/26/2006

C952

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	36	mg/L	1.0		EPA 300.0	4/27/2006
Nitrate as Nitrogen	0.91	mg/L	0.10	10	EPA 300.0	4/27/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	5/10/2006
Dissolved Inorganic Nitroge	0.76	mg/L	0.1	1	SM 4500_NH3-H	5/1/2006
Dissolved Organic Carbon (	BRL	mg/L	1.0		SM 5310	5/11/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.1	1	Calculation	5/4/2006
Nitrogen, Total (TKN, Nitra	0.70	mg/L	0.50	0	351.2 /SM 4500	5/4/2006
ortho-Phosphate as Phospho	BRL	mg/L	0.10		SM 4500-P F	4/27/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	5/4/2006
Total Dissolved Nitrogen (T	0.76	mg/L	0.1	1	EPA 353.2/351.2	5/1/2006
Total Dissolved Solids	94	mg/L	7.0		EPA 160.1	4/27/2006
LAB: Metals						
Boron	BRL	mg/L	0.01		EPA 6010B	5/2/2006
Copper	BRL	mg/L	0.10	1.3	SM 3111B	4/27/2006
Iron	BRL	mg/L	0.10		SM 3111B	4/27/2006
Mercury	BRL	mg/L	0.0002	0.002	EPA 245.1	5/2/2006
LAB: Organics						
TOC	BRL	mg/L	1.0		SM 5310B	5/11/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 5/22/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635206

EPA 524.2 - Volatile Organics by GC/MS

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
<i>LAB: GC/MS</i>						
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,1-Trichloroethane	BRL	ug/L	0.5	200	EPA 524.2	4/26/2006
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,2-Trichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,1-Dichloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1-Dichloroethene	BRL	ug/L	0.5	7.0	EPA 524.2	4/26/2006
1,1-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,4-Trichlorobenzene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
1,2,4-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromo-3-chloropropa	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromoethane (EDB)	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dichlorobenzene	BRL	ug/L	0.5	600	EPA 524.2	4/26/2006
1,2-Dichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3,5-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,4-Dichlorobenzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
2,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
2-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
4-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Benzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Bromobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 5/22/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635206

Bromodichloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromoform	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Carbon tetrachloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Chlorobenzene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
Chloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Chloroform	0.65	ug/L	0.5	80	EPA 524.2	4/26/2006
Chloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
cis-1,2-Dichloroethene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
cis-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dichlorodifluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Ethylbenzene	BRL	ug/L	0.5	700	EPA 524.2	4/26/2006
Hexachlorobutadiene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Isopropylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methyl-tert-butyl ether	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methylene chloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
n-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
n-Propylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Naphthalene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
p-Isopropyltoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
sec-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Styrene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
tert-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Tetrachloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Toluene	BRL	ug/L	0.5	1000	EPA 524.2	4/26/2006
Total xylenes	BRL	ug/L	0.5	10000	EPA 524.2	4/26/2006
trans-1,2-Dichloroethene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006

RL = Reporting Limit

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Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 5/22/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635206

trans-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Trichloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Trichlorofluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Vinyl chloride	BRL	ug/L	0.5	2.0	EPA 524.2	4/26/2006

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Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 5/22/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635206

Laboratory ID #: 0635206-02

Description: Water - Surface Water

Sample #:

Sampling Location DW-1

Collected by: KM & KC

Collected: 4/26/2006

Received: 4/26/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	35	mg/L	1.0		EPA 300.0	4/27/2006
Nitrate as Nitrogen	0.93	mg/L	0.10	10	EPA 300.0	4/27/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	5/10/2006
Dissolved Inorganic Nitroge	0.76	mg/L	0.1	1	SM 4500_NH3-H	5/1/2006
Dissolved Organic Carbon (	BRL	mg/L	1.0		SM 5310	5/11/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.1	1	Calculation	5/4/2006
Nitrogen, Total (TKN, Nitra	0.70	mg/L	0.50	0	351.2 / SM 4500	5/7/2006
ortho-Phosphate as Phospho	BRL	mg/L	0.10		SM 4500-P F	4/27/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	5/4/2006
Total Dissolved Nitrogen (T	0.76	mg/L	0.1	1	EPA 353.2/351.2	5/1/2006
Total Dissolved Solids	90	mg/L	7.0		EPA 160.1	4/27/2006
LAB: Metals						
Boron	BRL	mg/L	0.01		EPA 6010B	5/2/2006
Copper	BRL	mg/L	0.10	1.3	SM 3111B	4/27/2006
Iron	BRL	mg/L	0.10		SM 3111B	4/27/2006
Mercury	BRL	mg/L	0.0002	0.002	EPA 245.1	5/2/2006
LAB: Organics						
TOC	BRL	mg/L	1.0		SM 5310B	5/11/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 5/22/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635206

EPA 524.2 - Volatile Organics by GC/MS

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: GC/MS						
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,1-Trichloroethane	BRL	ug/L	0.5	200	EPA 524.2	4/26/2006
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,2-Trichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,1-Dichloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1-Dichloroethene	BRL	ug/L	0.5	7.0	EPA 524.2	4/26/2006
1,1-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,4-Trichlorobenzene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
1,2,4-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromo-3-chloropropa	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromoethane (EDB)	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dichlorobenzene	BRL	ug/L	0.5	600	EPA 524.2	4/26/2006
1,2-Dichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3,5-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,4-Dichlorobenzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
2,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
2-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
4-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Benzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Bromobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006

RL = Reporting Limit

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 5/22/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635206

Bromodichloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromoform	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Carbon tetrachloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Chlorobenzene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
Chloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Chloroform	0.65	ug/L	0.5	80	EPA 524.2	4/26/2006
Chloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
cis-1,2-Dichloroethene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
cis-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dichlorodifluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Ethylbenzene	BRL	ug/L	0.5	700	EPA 524.2	4/26/2006
Hexachlorobutadiene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Isopropylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methyl-tert-butyl ether	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methylene chloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
n-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
n-Propylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Naphthalene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
p-Isopropyltoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
sec-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Styrene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
tert-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Tetrachloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Toluene	BRL	ug/L	0.5	1000	EPA 524.2	4/26/2006
Total xylenes	BRL	ug/L	0.5	10000	EPA 524.2	4/26/2006
trans-1,2-Dichloroethene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006

RL = Reporting Limit

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Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 5/22/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635206

trans-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Trichloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Trichlorofluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Vinyl chloride	BRL	ug/L	0.5	2.0	EPA 524.2	4/26/2006

RL = Reporting Limit

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Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 5/22/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635206

Laboratory ID #: 0635206-03

Description: Water - Surface Water

Sample #:

Sampling Location A21

Collected by: KM & KC

1112

Collected: 4/26/2006

Received: 4/26/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	21	mg/L	1.0		EPA 300.0	4/27/2006
Nitrate as Nitrogen	0.11	mg/L	0.10	10	EPA 300.0	4/27/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	5/10/2006
Dissolved Inorganic Nitroge	0.13	mg/L	0.1	1	SM 4500_NH3-H	5/1/2006
Dissolved Organic Carbon (	BRL	mg/L	1.0		SM 5310	5/11/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.1	1	Calculation	5/4/2006
Nitrogen, Total (TKN, Nitra	BRL	mg/L	0.50	0	351.2 /SM 4500	5/4/2006
ortho-Phosphate as Phospho	BRL	mg/L	0.10		SM 4500-P F	4/27/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	5/4/2006
Total Dissolved Nitrogen (T	0.13	mg/L	0.1	1	EPA 353.2/351.2	5/1/2006
Total Dissolved Solids	50	mg/L	7.0		EPA 160.1	4/27/2006
LAB: Metals						
Boron	BRL	mg/L	0.01		EPA 6010B	5/2/2006
Copper	BRL	mg/L	0.10	1.3	SM 3111B	4/27/2006
Iron	1.7	mg/L	0.10		SM 3111B	4/27/2006
Mercury	BRL	mg/L	0.0002	0.002	EPA 245.1	5/2/2006
LAB: Organics						
TOC	BRL	mg/L	1.0		SM 5310B	5/11/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 5/22/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635206

EPA 524.2 - Volatile Organics by GC/MS

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: GC/MS						
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,1-Trichloroethane	BRL	ug/L	0.5	200	EPA 524.2	4/26/2006
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1,2-Trichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,1-Dichloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,1-Dichloroethene	BRL	ug/L	0.5	7.0	EPA 524.2	4/26/2006
1,1-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,3-Trichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2,4-Trichlorobenzene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
1,2,4-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromo-3-chloropropa	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dibromoethane (EDB)	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,2-Dichlorobenzene	BRL	ug/L	0.5	600	EPA 524.2	4/26/2006
1,2-Dichloroethane	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
1,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3,5-Trimethylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichlorobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,3-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
1,4-Dichlorobenzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
2,2-Dichloropropane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
2-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
4-Chlorotoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Benzene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Bromobenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level



CERTIFICATE OF ANALYSIS

Page: 11

Barnstable County Health Laboratory

Report Dated: 5/22/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635206

Bromodichloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromoform	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Bromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Carbon tetrachloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Chlorobenzene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
Chloroethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Chloroform	BRL	ug/L	0.5	80	EPA 524.2	4/26/2006
Chloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
cis-1,2-Dichloroethene	BRL	ug/L	0.5	70	EPA 524.2	4/26/2006
cis-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromochloromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dibromomethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Dichlorodifluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Ethylbenzene	BRL	ug/L	0.5	700	EPA 524.2	4/26/2006
Hexachlorobutadiene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Isopropylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methyl-tert-butyl ether	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Methylene chloride	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
n-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
n-Propylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Naphthalene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
p-Isopropyltoluene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
sec-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Styrene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006
tert-Butylbenzene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Tetrachloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Toluene	BRL	ug/L	0.5	1000	EPA 524.2	4/26/2006
Total xylenes	BRL	ug/L	0.5	10000	EPA 524.2	4/26/2006
trans-1,2-Dichloroethene	BRL	ug/L	0.5	100	EPA 524.2	4/26/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

Page: 12

Barnstable County Health Laboratory

Report Dated: 5/22/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0635206

trans-1,3-Dichloropropene	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Trichloroethene	BRL	ug/L	0.5	5.0	EPA 524.2	4/26/2006
Trichlorofluoromethane	BRL	ug/L	0.5		EPA 524.2	4/26/2006
Vinyl chloride	BRL	ug/L	0.5	2.0	EPA 524.2	4/26/2006

Approved By:

[Signature]
(Lab Director)

5/24/2006

ORIGINAL

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:
Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Groundwater Sampling Eel River
Project Site: Eel River, Plymouth
Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
04/24/06	1025	A13	1	100mL Glass	Orthophosphate ✓	ICE
04/24/06	1025	A13	1	1 liter Plastic	Ammonia, ✓ TN, TP, TOC	ICE H2SO4
04/24/06	1025	A13	1	1 liter Plastic	TDN, DIN, ✓ DON, DOC	ICE H2SO4
04/24/06	1025	A13	1	250mL Plastic	TDS ✓ NO3, Chlorides	ICE B
04/24/06	1025	A13	1	250mL Plastic	Boron, Mercury ✓	ICE HNO3
04/24/06	1025	A13	1	250mL Plastic	Copper, Iron ✓	ICE HNO3 B
04/24/06	1025	A13	3	50mL Amber glass vial	VOC ✓ EPA 524.2	ICE HCL B
04/24/06	1205	A17	1	100mL Glass	Orthophosphate ✓	ICE
04/24/06	1205	A17	1	1 liter Plastic	Ammonia, ✓ TN, TP, TOC	ICE H2SO4
04/24/06	1205	A17	1	1 liter Plastic	TDN, DIN, ✓ DON, DOC	ICE H2SO4
04/24/06	1205	A17	1	250mL Plastic	TDS ✓ NO3, Chlorides	ICE B
04/24/06	1205	A17	1	250mL Plastic	Boron, Mercury ✓	ICE HNO3
04/24/06	1205	A17	1	250mL Plastic	Copper, Iron ✓	ICE HNO3 B
04/24/06	1205	A17	3	50mL Amber glass vial	VOC ✓ EPA 524.2	ICE HCL B

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Kim Michaelis, 4/25/06 3:14

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Laboratory:
 Barnstable County Department of Health and the Environment
 Superior Court House, PO Box 427, Barnstable, MA 02630
 508-375-6605;6612

Chain of Custody

Client:
 Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
 11 Lincoln Street, Plymouth, MA 02360
 508-747-1620 x198

Project Name: Groundwater Sampling Eel River
 Project Site: Eel River, Plymouth
 Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
04/24/06	1325	3S	1	100mL Glass	Orthophosphate ✓	ICE
04/24/06	1325	3S	1	1 liter Plastic	Ammonia, ✓ TN, TP, TOC	ICE H2SO4
04/24/06	1325	3S	1	1 liter Plastic	TDN, DIN, ✓ DON, DOC	ICE H2SO4
04/24/06	1325	3S	1	250mL Plastic	TDS NO3, Chlorides ✓	ICE B
04/24/06	1325	3S	1	250mL Plastic	Boron, Mercury ✓	ICE HNO3
04/24/06	1325	3S	1	250mL Plastic	Copper, Iron ✓	ICE HNO3 B
04/24/06	1325	3S	3	50mL Amber glass vial	VOC EPA 524.2 ✓	ICE HCL B
04/24/06	1415	3D	1	100mL Glass	Orthophosphate ✓	ICE
04/24/06	1415	3D	1	1 liter Plastic	Ammonia, ✓ TN, TP, TOC	ICE H2SO4
04/24/06	1415	3D	1	1 liter Plastic	TDN, DIN, ✓ DON, DOC	ICE H2SO4
04/24/06	1415	3D	1	250mL Plastic	TDS NO3, Chlorides ✓	ICE B
04/24/06	1415	3D	1	250mL Plastic	Boron, Mercury ✓	ICE HNO3
04/24/06	1415	3D	1	250mL Plastic	Copper, Iron ✓	ICE HNO3 B
04/24/06	1415	3D	3	50mL Amber glass vial	VOC EPA 524.2 ✓	ICE HCL B

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Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605/6612

Chain of Custody

Client:

Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Groundwater Sampling Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
04/25/06	0845	GW-1	1	100mL Glass	Orthophosphate ✓	ICE
04/25/06	0845	GW-1	1	1 liter Plastic	Ammonia, ✓ TN, TP, TOC	ICE H2SO4
04/25/06	0845	GW-1	1	1 liter Plastic	TDN, DIN, ✓ DON, DOC	ICE H2SO4
04/25/06	0845	GW-1	1	250mL Plastic	TDS ✓ NO3, Chlorides	ICE B
04/25/06	0845	GW-1	1	250mL Plastic	Boron, Mercury ✓	ICE HNO3
04/25/06	0845	GW-1	1	250mL Plastic	Copper, Iron ✓	ICE HNO3 B
04/25/06	0845	GW-1	3	50mL Amber glass vial	VOC ✓ EPA 524.2	ICE HCL B
04/25/06	0937	25L	1	100mL Glass	Orthophosphate ✓	ICE
04/25/06	0937	25L	1	1 liter Plastic	Ammonia, ✓ TN, TP, TOC	ICE H2SO4
04/25/06	0937	25L	1	1 liter Plastic	TDN, DIN, ✓ DON, DOC	ICE H2SO4
04/25/06	0937	25L	1	250mL Plastic	TDS ✓ NO3, Chlorides	ICE B
04/25/06	0937	25L	1	250mL Plastic	Boron, Mercury ✓ ^{K.M.}	ICE HNO3
04/25/06	0937	25L	1	250mL Plastic	Copper, Iron	ICE HNO3
04/25/06	0937	25L	3	50mL Amber glass vial	VOC ✓ EPA 524.2	ICE HCL B

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Chain of Custody

Client:
Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Groundwater Sampling Eel River
Project Site: Eel River, Plymouth
Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
04/25/06	1042	2DL	1	100mL Glass	Orthophosphate ✓	ICE
04/25/06	1042	2DL	1	1 liter Plastic	Ammonia, TN, TP, TOC ✓	ICE H2SO4
04/25/06	1042	2DL	1	1 liter Plastic	TDN, DIN, DON, DOC ✓	ICE H2SO4
04/25/06	1042	2DL	1	250mL Plastic	TDS NO3, Chlorides ✓	ICE B
04/25/06	1042	2DL	1	250mL Plastic	Boron, Mercury ✓	ICE HNO3
04/25/06	1042	2DL	1	250mL Plastic	Copper, Iron	ICE HNO3 ✓
04/25/06	1042	2DL	3	50mL Amber glass vial	VOC EPA 524.2 ✓	ICE HCL B
04/25/06			1	100mL Glass	Orthophosphate	ICE
04/25/06			1	1 liter Plastic	Ammonia, TN, TP, TOC	ICE H2SO4
04/25/06			1	1 liter Plastic	TDN, DIN, DON, DOC	ICE H2SO4
04/25/06			1	250mL Plastic	TDS NO3, Chlorides	ICE
04/25/06			1	250mL Plastic	Boron, Mercury	ICE HNO3
04/25/06			1	250mL Plastic	Copper, Iron	ICE HNO3
04/25/06			3	50mL Amber glass vial	VOC EPA 524.2	ICE HCL

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Kim Michaelis 4/25/06 1:14

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Chain of Custody

Client:
Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Groundwater Sampling Eel River
Project Site: Eel River, Plymouth
Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
04/24/06	1455	Bradford	1	100mL Glass	Orthophosphate ✓	ICE
04/24/06	1455	Bradford	1	1 liter Plastic	Ammonia, TN, TP, TOC ✓	ICE H2SO4
04/24/06	1455	Bradford	1	1 liter Plastic	TDN, DIN, DON, DOC ✓	ICE H2SO4
04/24/06	1455	Bradford	1	250mL Plastic	TDS NO3, Chlorides ✓	ICE B
04/24/06	1455	Bradford	1	250mL Plastic	Boron, Mercury ✓	ICE HNO3
04/24/06	1455	Bradford	1	250mL Plastic	Copper, Iron ✓	ICE HNO3 B
04/24/06	1455	Bradford	3	50mL Amber glass vial	VOC EPA 524.2 ✓	ICE HCL B
04/24/06			1	100mL Glass	Orthophosphate	ICE
04/24/06			1	1 liter Plastic	Ammonia, TN, TP, TOC	ICE H2SO4
04/24/06			1	1 liter Plastic	TDN, DIN, DON, DOC	ICE H2SO4
04/24/06			1	250mL Plastic	TDS NO3, Chlorides	ICE
04/24/06			1	250mL Plastic	Boron, Mercury	ICE HNO3
04/24/06			1	250mL Plastic	Copper, Iron	ICE HNO3
04/24/06			3	50mL Amber glass vial	VOC EPA 524.2	ICE HCL

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Chain of Custody

Client:
Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Groundwater Sampling Eel River
Project Site: Eel River, Plymouth
Sampler: Kim Michaelis (KM), Kerin McCall (KC)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
04/26/06	0952	AIS	1	100mL Glass	Orthophosphate ✓	NONE
04/26/06	0952	AIS	1	1 liter Plastic	Ammonia, TN, TP, TOC ✓	H2SO4
04/26/06	0952	AIS	1	1 liter Plastic	TDN, DIN, DON, DOC ✓	H2SO4 Ice
04/26/06	0952	AIS	1	250mL Plastic	TDS ✓	NONE
04/26/06	0952	AIS	1	250mL Plastic	NO3, Chlorides ✓	HNO3
04/26/06	0952	AIS	1	250mL Plastic	Boron, Mercury ✓	HNO3
04/26/06	0952	AIS	1	250mL Plastic	Copper, Iron ✓	HNO3
04/26/06	0952	AIS	3	50mL Amber glass vial	VOC EPA 524.2 ✓	HCL
04/26/06	0952	DW-1	1	100mL Glass	Orthophosphate ✓	NONE
04/26/06	0952	DW-1	1	1 liter Plastic	Ammonia, TN, TP, TOC ✓	H2SO4
04/26/06	0952	DW-1	1	1 liter Plastic	TDN, DIN, DON, DOC ✓	H2SO4 Ice
04/26/06	0952	DW-1	1	250mL Plastic	TDS ✓	NONE
04/26/06	0952	DW-1	1	250mL Plastic	NO3, Chlorides ✓	HNO3
04/26/06	0952	DW-1	1	250mL Plastic	Boron, Mercury ✓	HNO3
04/26/06	0952	DW-1	1	250mL Plastic	Copper, Iron ✓	HNO3
04/26/06	0952	DW-1	3	50mL Amber glass vial	VOC EPA 524.2	HCL ✓

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Kim Michaelis 4/26/06 2:42

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Laboratory:
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Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605/6612

Chain of Custody

Client:
Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Groundwater Sampling Eel River
Project Site: Eel River, Plymouth
Sampler: Kim Michaelis (KM), Kerin McCall (KC)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
04/26/06	1112	A21	1	100mL Glass	Orthophosphate	NONE
04/26/06	1112	A21	1	1 liter Plastic	Ammonia, TN, TP, TOC	H2SO4
04/26/06	1112	A21	1	1 liter Plastic	TDN, DIN, DON, DOC	H2SO4
04/26/06	1112	A21	1	250mL Plastic	TDS	NONE
04/26/06	1112	A21	1	250mL Plastic	NO3, Chlorides	HNO3
04/26/06	1112	A21	1	250mL Plastic	Boron, Mercury	HNO3
04/26/06	1112	A21	1	250mL Plastic	Copper, Iron	HNO3
04/26/06	1112	A21	3	50mL Amber glass vial	VOC EPA 524.2	HCL
04/26/06						
04/26/06			1	100mL Glass	Orthophosphate	NONE
04/26/06			1	1 liter Plastic	Ammonia, TN, TP, TOC	H2SO4
04/26/06			1	1 liter Plastic	TDN, DIN, DON, DOC	H2SO4
04/26/06			1	250mL Plastic	TDS	NONE
04/26/06			1	250mL Plastic	NO3, Chlorides	HNO3
04/26/06			1	250mL Plastic	Boron, Mercury	HNO3
04/26/06			1	250mL Plastic	Copper, Iron	HNO3
04/26/06			3	50mL Amber glass vial	VOC EPA 524.2	HCL

Relinquished By: Date/Time

Kim Michaelis 4/26/06 2:42

Received By: Date/Time:

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ANALYTICAL REPORT

Thursday, August 27, 2009

Kim Michaelis
Town of Plymouth
11 Lincoln Street
Plymouth, MA 02360

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

TEL: (508) 747-1620
FAX: (508) 830-4081

Project: Ground Water - Eel River Watershed
Location: Plymouth, MA

Order No.: 0610386

Dear Kim Michaelis:

GeoLabs, Inc. received 4 sample(s) on 10/31/2006 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Charles Morrow
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - NJ (MA009) - NY (11796) - RI (LA000252)
Accredited in Accordance with NELAC

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0610386

Lab ID: 0610386-001

Collection Date: 10/31/2006 10:42:00 AM

Client Sample ID: A13

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	516	5.00		mg/L	1	11/3/2006
Analyst: JMC						
TOTAL METALS BY ICP - E200.7						
Boron	ND	0.0300		mg/L	1	11/6/2006
Copper	0.00890	0.00800		mg/L	1	11/6/2006
Iron	8.50	0.0600		mg/L	1	11/6/2006
Analyst: QS						
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	11/6/2006
Analyst: BF						
VOLATILE ORGANIC COMPOUNDS - SW8260B						
Analyst: MR						
1,1,1,2-Tetrachloroethane	ND	2.00		µg/L	1	11/3/2006 8:58:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
1,1,2,2-Tetrachloroethane	ND	0.610		µg/L	1	11/3/2006 8:58:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
1,1-Dichloroethene	ND	0.960		µg/L	1	11/3/2006 8:58:00 PM
1,1-Dichloropropene	ND	0.400		µg/L	1	11/3/2006 8:58:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
1,2-Dibromo-3-chloropropane	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	11/3/2006 8:58:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
1,2-Dichloroethane	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
1,2-Dichloropropane	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM
2-Butanone	ND	10.0		µg/L	1	11/3/2006 8:58:00 PM
2-Chloroethyl vinyl ether	ND	5.00		µg/L	1	11/3/2006 8:58:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0610386

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

2-Chlorotoluene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
2-Hexanone	ND	10.0	µg/L	1	11/3/2006 8:58:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
4-Methyl-2-pentanone	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Acetone	ND	50.0	µg/L	1	11/3/2006 8:58:00 PM
Acrolein	ND	50.0	µg/L	1	11/3/2006 8:58:00 PM
Acrylonitrile	ND	50.0	µg/L	1	11/3/2006 8:58:00 PM
Benzene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Bromobenzene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Bromochloromethane	ND	2.00	µg/L	1	11/3/2006 8:58:00 PM
Bromodichloromethane	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Bromoform	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Bromomethane	ND	2.00	µg/L	1	11/3/2006 8:58:00 PM
Carbon disulfide	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Carbon Tetrachloride	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Chlorobenzene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Chloroethane	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Chloroform	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Chloromethane	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
cis-1,3-Dichloropropene	ND	0.650	µg/L	1	11/3/2006 8:58:00 PM
Dibromochloromethane	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Dibromomethane	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Ethylbenzene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/3/2006 8:58:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Methyl tert-butyl ether	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Methylene chloride	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Naphthalene	ND	20.0	µg/L	1	11/3/2006 8:58:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Styrene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Toluene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
trans-1,3-Dichloropropene	ND	0.950	µg/L	1	11/3/2006 8:58:00 PM
Trichloroethene	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0610386

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

Vinyl chloride	ND	2.00	µg/L	1	11/3/2006 8:58:00 PM
Xylenes, Total	ND	5.00	µg/L	1	11/3/2006 8:58:00 PM
Surr: 1,2-Dichloroethane-d4	100	70-130	%REC	1	11/3/2006 8:58:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%REC	1	11/3/2006 8:58:00 PM
Surr: Dibromofluoromethane	100	70-130	%REC	1	11/3/2006 8:58:00 PM
Surr: Toluene-d8	103	70-130	%REC	1	11/3/2006 8:58:00 PM

NITRITE - SM4500-NO3-F

Analyst: SUB

Nitrite	ND	0.0100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	0.250	0.100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0	mg/L	1	11/16/2006
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NITROGEN, AMMONIA (AS N) - E350.2

Analyst: RP

Ammonia (as N)	0.317	0.130	mg/L	1	11/3/2006
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	309	15.0	mg/L	10	11/6/2006
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	0.360	0.0592	mg/L	1	11/8/2006
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: WFR

Phosphate, Ortho	ND	0	mg/L	1	11/1/2006
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.763	0.130	mg/L	1	11/7/2006
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	11/7/2006
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 17-Nov-06**CLIENT:** Town of Plymouth
Project: Ground Water - Eel River Watershed**Lab Order:** 0610386**TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR****Analyst:** RP

Total Dissolved Nitrogen 1.3 0.13 mg/L 1 11/7/2006

TOTAL PHOSPHOROUS - L10-115-01-1E**Analyst:** RP

Total Phosphorous 0.0484 0.0400 mg/L 1 11/7/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0610386

Lab ID: 0610386-002

Collection Date: 10/31/2006 11:57:00 AM

Client Sample ID: 2SR

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	40.0	5.00		mg/L	1	Analyst: JMC 11/3/2006
TOTAL METALS BY ICP - E200.7						
Boron	ND	0.0300		mg/L	1	Analyst: QS 11/6/2006
Copper	ND	0.00800		mg/L	1	11/6/2006
Iron	0.579	0.0600		mg/L	1	11/6/2006
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	Analyst: BF 11/6/2006
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	2.00		µg/L	1	Analyst: MR 11/3/2006 9:41:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
1,1,2,2-Tetrachloroethane	ND	0.610		µg/L	1	11/3/2006 9:41:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
1,1-Dichloroethene	ND	0.960		µg/L	1	11/3/2006 9:41:00 PM
1,1-Dichloropropene	ND	0.400		µg/L	1	11/3/2006 9:41:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
1,2-Dibromo-3-chloropropane	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
1,2-Dibromoethane	ND	1.00		µg/L	1	11/3/2006 9:41:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
1,2-Dichloroethane	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
1,2-Dichloropropane	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM
2-Butanone	ND	10.0		µg/L	1	11/3/2006 9:41:00 PM
2-Chloroethyl vinyl ether	ND	5.00		µg/L	1	11/3/2006 9:41:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0610386

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

2-Chlorotoluene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
2-Hexanone	ND	10.0	µg/L	1	11/3/2006 9:41:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
4-Methyl-2-pentanone	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Acetone	ND	50.0	µg/L	1	11/3/2006 9:41:00 PM
Acrolein	ND	50.0	µg/L	1	11/3/2006 9:41:00 PM
Acrylonitrile	ND	50.0	µg/L	1	11/3/2006 9:41:00 PM
Benzene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Bromobenzene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Bromochloromethane	ND	2.00	µg/L	1	11/3/2006 9:41:00 PM
Bromodichloromethane	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Bromoform	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Bromomethane	ND	2.00	µg/L	1	11/3/2006 9:41:00 PM
Carbon disulfide	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Carbon Tetrachloride	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Chlorobenzene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Chloroethane	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Chloroform	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Chloromethane	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
cis-1,3-Dichloropropene	ND	0.650	µg/L	1	11/3/2006 9:41:00 PM
Dibromochloromethane	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Dibromomethane	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Ethylbenzene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/3/2006 9:41:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Methyl tert-butyl ether	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Methylene chloride	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Naphthalene	ND	20.0	µg/L	1	11/3/2006 9:41:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Styrene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Toluene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
trans-1,3-Dichloropropene	ND	0.950	µg/L	1	11/3/2006 9:41:00 PM
Trichloroethene	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0610386

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

Vinyl chloride	ND	2.00	µg/L	1	11/3/2006 9:41:00 PM
Xylenes, Total	ND	5.00	µg/L	1	11/3/2006 9:41:00 PM
Surr: 1,2-Dichloroethane-d4	103	70-130	%REC	1	11/3/2006 9:41:00 PM
Surr: 4-Bromofluorobenzene	103	70-130	%REC	1	11/3/2006 9:41:00 PM
Surr: Dibromofluoromethane	97.4	70-130	%REC	1	11/3/2006 9:41:00 PM
Surr: Toluene-d8	101	70-130	%REC	1	11/3/2006 9:41:00 PM

NITRITE - SM4500-NO3-F

Analyst: SUB

Nitrite	ND	0.0100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	0.120	0.100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0	mg/L	1	11/16/2006
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NITROGEN, AMMONIA (AS N) - E350.2

Analyst: RP

Ammonia (as N)	ND	0.130	mg/L	1	11/3/2006
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	8.41	1.50	mg/L	1	11/6/2006
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	0.271	0.0592	mg/L	1	11/8/2006
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: WFR

Phosphate, Ortho	ND	0	mg/L	1	11/1/2006
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.670	0.130	mg/L	1	11/7/2006
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	11/7/2006
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 17-Nov-06**CLIENT:** Town of Plymouth
Project: Ground Water - Eel River Watershed**Lab Order:** 0610386**TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**

Analyst: RP

Total Dissolved Nitrogen 0.86 0.13 mg/L 1 11/7/2006

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.0589 0.0400 mg/L 1 11/7/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0610386

Lab ID: 0610386-003

Collection Date: 10/31/2006 12:40:00 PM

Client Sample ID: 2DR

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	82.0	5.00		mg/L	1	11/3/2006
TOTAL METALS BY ICP - E200.7						
Boron	ND	0.0300		mg/L	1	11/6/2006
Copper	ND	0.00800		mg/L	1	11/6/2006
Iron	4.75	0.0600		mg/L	1	11/6/2006
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	11/6/2006
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	2.00		µg/L	1	11/4/2006 6:57:00 AM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
1,1,2,2-Tetrachloroethane	ND	0.610		µg/L	1	11/4/2006 6:57:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
1,1-Dichloroethene	ND	0.960		µg/L	1	11/4/2006 6:57:00 AM
1,1-Dichloropropene	ND	0.400		µg/L	1	11/4/2006 6:57:00 AM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
1,2-Dibromo-3-chloropropane	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
1,2-Dibromoethane	ND	1.00		µg/L	1	11/4/2006 6:57:00 AM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
1,2-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
1,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM
2-Butanone	ND	10.0		µg/L	1	11/4/2006 6:57:00 AM
2-Chloroethyl vinyl ether	ND	5.00		µg/L	1	11/4/2006 6:57:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0610386

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
2-Hexanone	ND	10.0	µg/L	1	11/4/2006 6:57:00 AM
4-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
4-Methyl-2-pentanone	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Acetone	ND	50.0	µg/L	1	11/4/2006 6:57:00 AM
Acrolein	ND	50.0	µg/L	1	11/4/2006 6:57:00 AM
Acrylonitrile	ND	50.0	µg/L	1	11/4/2006 6:57:00 AM
Benzene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Bromobenzene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Bromochloromethane	ND	2.00	µg/L	1	11/4/2006 6:57:00 AM
Bromodichloromethane	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Bromoform	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Bromomethane	ND	2.00	µg/L	1	11/4/2006 6:57:00 AM
Carbon disulfide	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Carbon Tetrachloride	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Chlorobenzene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Chloroethane	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Chloroform	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Chloromethane	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
cis-1,3-Dichloropropene	ND	0.650	µg/L	1	11/4/2006 6:57:00 AM
Dibromochloromethane	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Dibromomethane	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Ethylbenzene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/4/2006 6:57:00 AM
Isopropylbenzene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Methyl tert-butyl ether	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Methylene chloride	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Naphthalene	ND	20.0	µg/L	1	11/4/2006 6:57:00 AM
n-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
n-Propylbenzene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
sec-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Styrene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
tert-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Tetrachloroethene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Toluene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
trans-1,3-Dichloropropene	ND	0.950	µg/L	1	11/4/2006 6:57:00 AM
Trichloroethene	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0610386

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Vinyl chloride	ND	2.00	µg/L	1	11/4/2006 6:57:00 AM
Xylenes, Total	ND	5.00	µg/L	1	11/4/2006 6:57:00 AM
Surr: 1,2-Dichloroethane-d4	86.6	70-130	%REC	1	11/4/2006 6:57:00 AM
Surr: 4-Bromofluorobenzene	101	70-130	%REC	1	11/4/2006 6:57:00 AM
Surr: Dibromofluoromethane	93.1	70-130	%REC	1	11/4/2006 6:57:00 AM
Surr: Toluene-d8	103	70-130	%REC	1	11/4/2006 6:57:00 AM

NITRITE - SM4500-NO3-F

Analyst: SUB

Nitrite	ND	0.0100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	0.120	0.100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0	mg/L	1	11/16/2006
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NITROGEN, AMMONIA (AS N) - E350.2

Analyst: RP

Ammonia (as N)	ND	0.130	mg/L	1	11/3/2006
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	20.2	1.50	mg/L	1	11/6/2006
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	0.346	0.0592	mg/L	1	11/8/2006
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: WFR

Phosphate, Ortho	0.0209	0	mg/L	1	11/1/2006
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.744	0.130	mg/L	1	11/7/2006
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	11/7/2006
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0610386

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen	0.90	0.13	mg/L	1	11/7/2006
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	0.0591	0.0400	mg/L	1	11/7/2006
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Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0610386

Lab ID: 0610386-004

Collection Date: 10/31/2006 2:18:00 PM

Client Sample ID: A17

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	64.0	5.00		mg/L	1	Analyst: JMC 11/3/2006
TOTAL METALS BY ICP - E200.7						
Boron	ND	0.0300		mg/L	1	Analyst: QS 11/6/2006
Copper	ND	0.00800		mg/L	1	11/6/2006
Iron	ND	0.0600		mg/L	1	11/6/2006
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	Analyst: BF 11/6/2006
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	2.00		µg/L	1	Analyst: JG 11/4/2006 7:32:00 AM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
1,1,2,2-Tetrachloroethane	ND	0.610		µg/L	1	11/4/2006 7:32:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
1,1-Dichloroethene	ND	0.960		µg/L	1	11/4/2006 7:32:00 AM
1,1-Dichloropropene	ND	0.400		µg/L	1	11/4/2006 7:32:00 AM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
1,2-Dibromo-3-chloropropane	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
1,2-Dibromoethane	ND	1.00		µg/L	1	11/4/2006 7:32:00 AM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
1,2-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
1,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM
2-Butanone	ND	10.0		µg/L	1	11/4/2006 7:32:00 AM
2-Chloroethyl vinyl ether	ND	5.00		µg/L	1	11/4/2006 7:32:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0610386

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
2-Hexanone	ND	10.0	µg/L	1	11/4/2006 7:32:00 AM
4-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
4-Methyl-2-pentanone	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Acetone	ND	50.0	µg/L	1	11/4/2006 7:32:00 AM
Acrolein	ND	50.0	µg/L	1	11/4/2006 7:32:00 AM
Acrylonitrile	ND	50.0	µg/L	1	11/4/2006 7:32:00 AM
Benzene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Bromobenzene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Bromochloromethane	ND	2.00	µg/L	1	11/4/2006 7:32:00 AM
Bromodichloromethane	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Bromoform	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Bromomethane	ND	2.00	µg/L	1	11/4/2006 7:32:00 AM
Carbon disulfide	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Carbon Tetrachloride	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Chlorobenzene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Chloroethane	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Chloroform	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Chloromethane	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
cis-1,3-Dichloropropene	ND	0.650	µg/L	1	11/4/2006 7:32:00 AM
Dibromochloromethane	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Dibromomethane	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Ethylbenzene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/4/2006 7:32:00 AM
Isopropylbenzene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Methyl tert-butyl ether	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Methylene chloride	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Naphthalene	ND	20.0	µg/L	1	11/4/2006 7:32:00 AM
n-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
n-Propylbenzene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
sec-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Styrene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
tert-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Tetrachloroethene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Toluene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
trans-1,3-Dichloropropene	ND	0.950	µg/L	1	11/4/2006 7:32:00 AM
Trichloroethene	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0610386

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Vinyl chloride	ND	2.00	µg/L	1	11/4/2006 7:32:00 AM
Xylenes, Total	ND	5.00	µg/L	1	11/4/2006 7:32:00 AM
Surr: 1,2-Dichloroethane-d4	85.1	70-130	%REC	1	11/4/2006 7:32:00 AM
Surr: 4-Bromofluorobenzene	101	70-130	%REC	1	11/4/2006 7:32:00 AM
Surr: Dibromofluoromethane	98.3	70-130	%REC	1	11/4/2006 7:32:00 AM
Surr: Toluene-d8	103	70-130	%REC	1	11/4/2006 7:32:00 AM

NITRITE - SM4500-NO3-F

Analyst: SUB

Nitrite	ND	0.0100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	1.20	0.100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0	mg/L	1	11/16/2006
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NITROGEN, AMMONIA (AS N) - E350.2

Analyst: RP

Ammonia (as N)	ND	0.130	mg/L	1	11/3/2006
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	15.2	1.50	mg/L	1	11/6/2006
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	1.33	0.0592	mg/L	1	11/8/2006
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: WFR

Phosphate, Ortho	0.00540	0	mg/L	1	11/1/2006
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.765	0.130	mg/L	1	11/7/2006
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	11/7/2006
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 17-Nov-06**CLIENT:** Town of Plymouth
Project: Ground Water - Eel River Watershed**Lab Order:** 0610386**TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR****Analyst:** RP

Total Dissolved Nitrogen 2.0 0.13 mg/L 1 11/7/2006

TOTAL PHOSPHOROUS - L10-115-01-1E**Analyst:** RP

Total Phosphorous 1.52 0.0400 mg/L 1 11/7/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0610386 DR/LK

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: **Ground Water** - Eel River Watershed, Plymouth MA
Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
10/31/06	1042	A13	2	Vials	POC	HCL
			2	Vials	VOC	HCL
			1	250 mL Plastic	NH3, Total Phosphorus	H2SO4
			1	250 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4
10/31/06	1157	25R	2	Vials	POC	HCL
			2	Vials	VOC	HCL
			1	250 mL Plastic	NH3, Total Phosphorus	H2SO4
			1	250 mL Plastic	Boron, Copper , Iron, Mercury K.M.	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4

10386-001

10386-002

Relinquished By: Date/Time

Kim Michaelis 10/31/06
10/31/06
Kerin McCall 3:45

Received By: Date/Time:

Kerin McCall 10/31/06 3:45
Danielle Rega 10/31/06 3:45p

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0610386 DR/LK

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/

Project Name: **Ground Water** - Eel River Watershed, Plymouth MA

Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
10/31/06	1240	2DR	2	Vials	POC	HCL
			2	Vials	VOC	HCL
			1	250 mL Plastic	NH3, Total Phosphorus	H2SO4
			1	250 mL Plastic	Boron, Copper , Iron, Mercury <i>km</i>	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4
10/31/06	1418	A17	2	Vials	POC	HCL
			2	Vials	VOC	HCL
			1	250 mL Plastic	NH3, Total Phosphorus	H2SO4
			1	250 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4

10386-003

10386-004

Relinquished By: Date/Time

h. Michaelis 10/31/06
Kerin McCall 10/31/06 3:45

Received By: Date/Time:

Kerin McCall 10/31/06 3:45p
Danielle Rega 10/31/06 3:45p

ANALYTICAL REPORT

Thursday, August 27, 2009

Kim Michaelis
Town of Plymouth
11 Lincoln Street
Plymouth, MA 02360

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

TEL: (508) 747-1620
FAX: (508) 830-4081

Project: Ground Water - Eel River Watershed
Location:

Order No.: 0611021

Dear Kim Michaelis:

GeoLabs, Inc. received 7 sample(s) on 11/1/2006 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Charles Morrow
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - NJ (MA009) - NY (11796) - RI (LA000252)
Accredited in Accordance with NELAC

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

Lab ID: 0611021-001

Collection Date: 11/1/2006 1:45:00 PM

Client Sample ID: A15

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	125	5.00		mg/L	1	Analyst: JMC 11/6/2006
TOTAL METALS BY ICP - E200.7						
Boron	ND	0.0300		mg/L	1	Analyst: QS 11/8/2006
Copper	ND	0.00800		mg/L	1	11/8/2006
Iron	0.389	0.0600		mg/L	1	11/8/2006
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	Analyst: BF 11/7/2006
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	2.00		µg/L	1	Analyst: JG 11/4/2006 3:27:00 AM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
1,1,2,2-Tetrachloroethane	ND	0.610		µg/L	1	11/4/2006 3:27:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
1,1-Dichloroethene	ND	0.960		µg/L	1	11/4/2006 3:27:00 AM
1,1-Dichloropropene	ND	0.400		µg/L	1	11/4/2006 3:27:00 AM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
1,2-Dibromo-3-chloropropane	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
1,2-Dibromoethane	ND	1.00		µg/L	1	11/4/2006 3:27:00 AM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
1,2-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
1,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM
2-Butanone	ND	10.0		µg/L	1	11/4/2006 3:27:00 AM
2-Chloroethyl vinyl ether	ND	5.00		µg/L	1	11/4/2006 3:27:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
2-Hexanone	ND	10.0	µg/L	1	11/4/2006 3:27:00 AM
4-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
4-Methyl-2-pentanone	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Acetone	ND	50.0	µg/L	1	11/4/2006 3:27:00 AM
Acrolein	ND	50.0	µg/L	1	11/4/2006 3:27:00 AM
Acrylonitrile	ND	50.0	µg/L	1	11/4/2006 3:27:00 AM
Benzene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Bromobenzene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Bromochloromethane	ND	2.00	µg/L	1	11/4/2006 3:27:00 AM
Bromodichloromethane	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Bromoform	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Bromomethane	ND	2.00	µg/L	1	11/4/2006 3:27:00 AM
Carbon disulfide	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Carbon Tetrachloride	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Chlorobenzene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Chloroethane	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Chloroform	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Chloromethane	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
cis-1,3-Dichloropropene	ND	0.650	µg/L	1	11/4/2006 3:27:00 AM
Dibromochloromethane	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Dibromomethane	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Ethylbenzene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/4/2006 3:27:00 AM
Isopropylbenzene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Methyl tert-butyl ether	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Methylene chloride	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Naphthalene	ND	20.0	µg/L	1	11/4/2006 3:27:00 AM
n-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
n-Propylbenzene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
sec-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Styrene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
tert-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Tetrachloroethene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Toluene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
trans-1,3-Dichloropropene	ND	0.950	µg/L	1	11/4/2006 3:27:00 AM
Trichloroethene	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Vinyl chloride	ND	2.00	µg/L	1	11/4/2006 3:27:00 AM
Xylenes, Total	ND	5.00	µg/L	1	11/4/2006 3:27:00 AM
Surr: 1,2-Dichloroethane-d4	97.2	70-130	%REC	1	11/4/2006 3:27:00 AM
Surr: 4-Bromofluorobenzene	101	70-130	%REC	1	11/4/2006 3:27:00 AM
Surr: Dibromofluoromethane	102	70-130	%REC	1	11/4/2006 3:27:00 AM
Surr: Toluene-d8	103	70-130	%REC	1	11/4/2006 3:27:00 AM

NITRITE - SM4500-NO3-F

Analyst: SUB

Nitrite	ND	0.0100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	0.800	0.100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: RP

Ammonia (as N)	ND	0.130	mg/L	1	11/9/2006
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	25.9	1.50	mg/L	1	11/6/2006
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	0.903	0.0592	mg/L	1	11/8/2006
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: WFR

Phosphate, Ortho	0.0492	0	mg/L	1	11/1/2006
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.623	0.130	mg/L	1	11/7/2006
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	11/7/2006
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen	1.5	0.13	mg/L	1	11/7/2006
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 10-Nov-06**CLIENT:** Town of Plymouth
Project: Ground Water - Eel River Watershed**Lab Order:** 0611021**TOTAL PHOSPHOROUS - L10-115-01-1E****Analyst:** RP

Total Phosphorous 0.0839 0.0400 mg/L 1 11/7/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

Lab ID: 0611021-002

Collection Date: 11/1/2006 11:20:00 AM

Client Sample ID: 3D

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	66.0	5.00		mg/L	1	11/6/2006
Analyst: JMC						
TOTAL METALS BY ICP - E200.7						
Boron	ND	0.0300		mg/L	1	11/8/2006
Copper	ND	0.00800		mg/L	1	11/8/2006
Iron	ND	0.0600		mg/L	1	11/8/2006
Analyst: QS						
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	11/7/2006
Analyst: BF						
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	2.00		µg/L	1	11/4/2006 4:02:00 AM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
1,1,2,2-Tetrachloroethane	ND	0.610		µg/L	1	11/4/2006 4:02:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
1,1-Dichloroethene	ND	0.960		µg/L	1	11/4/2006 4:02:00 AM
1,1-Dichloropropene	ND	0.400		µg/L	1	11/4/2006 4:02:00 AM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
1,2-Dibromo-3-chloropropane	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
1,2-Dibromoethane	ND	1.00		µg/L	1	11/4/2006 4:02:00 AM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
1,2-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
1,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM
2-Butanone	ND	10.0		µg/L	1	11/4/2006 4:02:00 AM
2-Chloroethyl vinyl ether	ND	5.00		µg/L	1	11/4/2006 4:02:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
2-Hexanone	ND	10.0	µg/L	1	11/4/2006 4:02:00 AM
4-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
4-Methyl-2-pentanone	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Acetone	ND	50.0	µg/L	1	11/4/2006 4:02:00 AM
Acrolein	ND	50.0	µg/L	1	11/4/2006 4:02:00 AM
Acrylonitrile	ND	50.0	µg/L	1	11/4/2006 4:02:00 AM
Benzene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Bromobenzene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Bromochloromethane	ND	2.00	µg/L	1	11/4/2006 4:02:00 AM
Bromodichloromethane	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Bromoform	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Bromomethane	ND	2.00	µg/L	1	11/4/2006 4:02:00 AM
Carbon disulfide	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Carbon Tetrachloride	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Chlorobenzene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Chloroethane	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Chloroform	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Chloromethane	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
cis-1,3-Dichloropropene	ND	0.650	µg/L	1	11/4/2006 4:02:00 AM
Dibromochloromethane	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Dibromomethane	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Ethylbenzene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/4/2006 4:02:00 AM
Isopropylbenzene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Methyl tert-butyl ether	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Methylene chloride	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Naphthalene	ND	20.0	µg/L	1	11/4/2006 4:02:00 AM
n-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
n-Propylbenzene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
sec-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Styrene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
tert-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Tetrachloroethene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Toluene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
trans-1,3-Dichloropropene	ND	0.950	µg/L	1	11/4/2006 4:02:00 AM
Trichloroethene	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Vinyl chloride	ND	2.00	µg/L	1	11/4/2006 4:02:00 AM
Xylenes, Total	ND	5.00	µg/L	1	11/4/2006 4:02:00 AM
Surr: 1,2-Dichloroethane-d4	93.7	70-130	%REC	1	11/4/2006 4:02:00 AM
Surr: 4-Bromofluorobenzene	101	70-130	%REC	1	11/4/2006 4:02:00 AM
Surr: Dibromofluoromethane	101	70-130	%REC	1	11/4/2006 4:02:00 AM
Surr: Toluene-d8	105	70-130	%REC	1	11/4/2006 4:02:00 AM

NITRITE - SM4500-NO3-F

Analyst: SUB

Nitrite	ND	0.0100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	ND	0.100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: RP

Ammonia (as N)	0.141	0.130	mg/L	1	11/9/2006
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	8.80	1.50	mg/L	1	11/6/2006
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	0.108	0.0592	mg/L	1	11/8/2006
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: WFR

Phosphate, Ortho	0.00259	0	mg/L	1	11/1/2006
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.463	0.130	mg/L	1	11/7/2006
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	11/7/2006
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen	0.60	0.13	mg/L	1	11/7/2006
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 10-Nov-06**CLIENT:** Town of Plymouth
Project: Ground Water - Eel River Watershed**Lab Order:** 0611021**TOTAL PHOSPHOROUS - L10-115-01-1E****Analyst:** RP

Total Phosphorous 0.0654 0.0400 mg/L 1 11/7/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

Lab ID: 0611021-003

Collection Date: 11/1/2006 11:25:00 AM

Client Sample ID: DW-1

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	69.0	5.00		mg/L	1	11/6/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	11/8/2006
Copper	ND	0.00800		mg/L	1	11/8/2006
Iron	ND	0.0600		mg/L	1	11/8/2006
TOTAL MERCURY - E245.1						Analyst: BF
Mercury	ND	0.0005		mg/L	1	11/7/2006
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: JG
1,1,1,2-Tetrachloroethane	ND	2.00		µg/L	1	11/4/2006 4:37:00 AM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
1,1,2,2-Tetrachloroethane	ND	0.610		µg/L	1	11/4/2006 4:37:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
1,1-Dichloroethene	ND	0.960		µg/L	1	11/4/2006 4:37:00 AM
1,1-Dichloropropene	ND	0.400		µg/L	1	11/4/2006 4:37:00 AM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
1,2-Dibromo-3-chloropropane	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
1,2-Dibromoethane	ND	1.00		µg/L	1	11/4/2006 4:37:00 AM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
1,2-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
1,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM
2-Butanone	ND	10.0		µg/L	1	11/4/2006 4:37:00 AM
2-Chloroethyl vinyl ether	ND	5.00		µg/L	1	11/4/2006 4:37:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
2-Hexanone	ND	10.0	µg/L	1	11/4/2006 4:37:00 AM
4-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
4-Methyl-2-pentanone	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Acetone	ND	50.0	µg/L	1	11/4/2006 4:37:00 AM
Acrolein	ND	50.0	µg/L	1	11/4/2006 4:37:00 AM
Acrylonitrile	ND	50.0	µg/L	1	11/4/2006 4:37:00 AM
Benzene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Bromobenzene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Bromochloromethane	ND	2.00	µg/L	1	11/4/2006 4:37:00 AM
Bromodichloromethane	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Bromoform	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Bromomethane	ND	2.00	µg/L	1	11/4/2006 4:37:00 AM
Carbon disulfide	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Carbon Tetrachloride	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Chlorobenzene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Chloroethane	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Chloroform	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Chloromethane	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
cis-1,3-Dichloropropene	ND	0.650	µg/L	1	11/4/2006 4:37:00 AM
Dibromochloromethane	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Dibromomethane	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Ethylbenzene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/4/2006 4:37:00 AM
Isopropylbenzene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Methyl tert-butyl ether	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Methylene chloride	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Naphthalene	ND	20.0	µg/L	1	11/4/2006 4:37:00 AM
n-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
n-Propylbenzene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
sec-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Styrene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
tert-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Tetrachloroethene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Toluene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
trans-1,3-Dichloropropene	ND	0.950	µg/L	1	11/4/2006 4:37:00 AM
Trichloroethene	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Vinyl chloride	ND	2.00	µg/L	1	11/4/2006 4:37:00 AM
Xylenes, Total	ND	5.00	µg/L	1	11/4/2006 4:37:00 AM
Surr: 1,2-Dichloroethane-d4	90.7	70-130	%REC	1	11/4/2006 4:37:00 AM
Surr: 4-Bromofluorobenzene	102	70-130	%REC	1	11/4/2006 4:37:00 AM
Surr: Dibromofluoromethane	98.1	70-130	%REC	1	11/4/2006 4:37:00 AM
Surr: Toluene-d8	105	70-130	%REC	1	11/4/2006 4:37:00 AM

NITRITE - SM4500-NO3-F

Analyst: SUB

Nitrite	ND	0.0100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	ND	0.100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: RP

Ammonia (as N)	ND	0.130	mg/L	1	11/9/2006
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	8.71	1.50	mg/L	1	11/6/2006
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	0.0918	0.0592	mg/L	1	11/8/2006
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: WFR

Phosphate, Ortho	ND	0	mg/L	1	11/1/2006
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.590	0.130	mg/L	1	11/7/2006
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	11/7/2006
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen	0.66	0.13	mg/L	1	11/7/2006
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 10-Nov-06**CLIENT:** Town of Plymouth
Project: Ground Water - Eel River Watershed**Lab Order:** 0611021**TOTAL PHOSPHOROUS - L10-115-01-1E****Analyst:** RP

Total Phosphorous ND 0.0400 mg/L 1 11/7/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

Lab ID: 0611021-004

Collection Date: 11/1/2006 12:30:00 PM

Client Sample ID: A21

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	83.0	5.00		mg/L	1	11/6/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	11/8/2006
Copper	ND	0.00800		mg/L	1	11/8/2006
Iron	1.27	0.0600		mg/L	1	11/8/2006
TOTAL MERCURY - E245.1						Analyst: BF
Mercury	ND	0.0005		mg/L	1	11/7/2006
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: JG
1,1,1,2-Tetrachloroethane	ND	2.00		µg/L	1	11/4/2006 5:12:00 AM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
1,1,2,2-Tetrachloroethane	ND	0.610		µg/L	1	11/4/2006 5:12:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
1,1-Dichloroethene	ND	0.960		µg/L	1	11/4/2006 5:12:00 AM
1,1-Dichloropropene	ND	0.400		µg/L	1	11/4/2006 5:12:00 AM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
1,2-Dibromo-3-chloropropane	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
1,2-Dibromoethane	ND	1.00		µg/L	1	11/4/2006 5:12:00 AM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
1,2-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
1,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM
2-Butanone	ND	10.0		µg/L	1	11/4/2006 5:12:00 AM
2-Chloroethyl vinyl ether	ND	5.00		µg/L	1	11/4/2006 5:12:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
2-Hexanone	ND	10.0	µg/L	1	11/4/2006 5:12:00 AM
4-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
4-Methyl-2-pentanone	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Acetone	ND	50.0	µg/L	1	11/4/2006 5:12:00 AM
Acrolein	ND	50.0	µg/L	1	11/4/2006 5:12:00 AM
Acrylonitrile	ND	50.0	µg/L	1	11/4/2006 5:12:00 AM
Benzene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Bromobenzene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Bromochloromethane	ND	2.00	µg/L	1	11/4/2006 5:12:00 AM
Bromodichloromethane	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Bromoform	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Bromomethane	ND	2.00	µg/L	1	11/4/2006 5:12:00 AM
Carbon disulfide	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Carbon Tetrachloride	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Chlorobenzene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Chloroethane	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Chloroform	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Chloromethane	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
cis-1,3-Dichloropropene	ND	0.650	µg/L	1	11/4/2006 5:12:00 AM
Dibromochloromethane	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Dibromomethane	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Ethylbenzene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/4/2006 5:12:00 AM
Isopropylbenzene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Methyl tert-butyl ether	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Methylene chloride	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Naphthalene	ND	20.0	µg/L	1	11/4/2006 5:12:00 AM
n-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
n-Propylbenzene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
sec-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Styrene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
tert-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Tetrachloroethene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Toluene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
trans-1,3-Dichloropropene	ND	0.950	µg/L	1	11/4/2006 5:12:00 AM
Trichloroethene	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Vinyl chloride	ND	2.00	µg/L	1	11/4/2006 5:12:00 AM
Xylenes, Total	ND	5.00	µg/L	1	11/4/2006 5:12:00 AM
Surr: 1,2-Dichloroethane-d4	96.0	70-130	%REC	1	11/4/2006 5:12:00 AM
Surr: 4-Bromofluorobenzene	102	70-130	%REC	1	11/4/2006 5:12:00 AM
Surr: Dibromofluoromethane	98.4	70-130	%REC	1	11/4/2006 5:12:00 AM
Surr: Toluene-d8	102	70-130	%REC	1	11/4/2006 5:12:00 AM

NITRITE - SM4500-NO3-F

Analyst: SUB

Nitrite	ND	0.0100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	ND	0.100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: RP

Ammonia (as N)	ND	0.130	mg/L	1	11/9/2006
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	19.8	1.50	mg/L	1	11/6/2006
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	0.210	0.0592	mg/L	1	11/8/2006
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: WFR

Phosphate, Ortho	0.0166	0	mg/L	1	11/1/2006
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.580	0.130	mg/L	1	11/7/2006
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	11/7/2006
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen	0.70	0.13	mg/L	1	11/7/2006
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 10-Nov-06**CLIENT:** Town of Plymouth
Project: Ground Water - Eel River Watershed**Lab Order:** 0611021**TOTAL PHOSPHOROUS - L10-115-01-1E****Analyst:** RP

Total Phosphorous 0.0553 0.0400 mg/L 1 11/7/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	F	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

Lab ID: 0611021-005

Collection Date: 11/1/2006 1:10:00 PM

Client Sample ID: GW-1

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	78.0	5.00		mg/L	1	Analyst: JMC 11/6/2006
TOTAL METALS BY ICP - E200.7						
Boron	ND	0.0300		mg/L	1	Analyst: QS 11/8/2006
Copper	ND	0.00800		mg/L	1	11/8/2006
Iron	ND	0.0600		mg/L	1	11/8/2006
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	Analyst: BF 11/7/2006
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	2.00		µg/L	1	Analyst: JG 11/4/2006 5:47:00 AM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
1,1,2,2-Tetrachloroethane	ND	0.610		µg/L	1	11/4/2006 5:47:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
1,1-Dichloroethene	ND	0.960		µg/L	1	11/4/2006 5:47:00 AM
1,1-Dichloropropene	ND	0.400		µg/L	1	11/4/2006 5:47:00 AM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
1,2-Dibromo-3-chloropropane	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
1,2-Dibromoethane	ND	1.00		µg/L	1	11/4/2006 5:47:00 AM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
1,2-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
1,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM
2-Butanone	ND	10.0		µg/L	1	11/4/2006 5:47:00 AM
2-Chloroethyl vinyl ether	ND	5.00		µg/L	1	11/4/2006 5:47:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
2-Hexanone	ND	10.0	µg/L	1	11/4/2006 5:47:00 AM
4-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
4-Methyl-2-pentanone	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Acetone	ND	50.0	µg/L	1	11/4/2006 5:47:00 AM
Acrolein	ND	50.0	µg/L	1	11/4/2006 5:47:00 AM
Acrylonitrile	ND	50.0	µg/L	1	11/4/2006 5:47:00 AM
Benzene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Bromobenzene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Bromochloromethane	ND	2.00	µg/L	1	11/4/2006 5:47:00 AM
Bromodichloromethane	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Bromoform	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Bromomethane	ND	2.00	µg/L	1	11/4/2006 5:47:00 AM
Carbon disulfide	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Carbon Tetrachloride	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Chlorobenzene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Chloroethane	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Chloroform	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Chloromethane	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
cis-1,3-Dichloropropene	ND	0.650	µg/L	1	11/4/2006 5:47:00 AM
Dibromochloromethane	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Dibromomethane	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Ethylbenzene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/4/2006 5:47:00 AM
Isopropylbenzene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Methyl tert-butyl ether	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Methylene chloride	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Naphthalene	ND	20.0	µg/L	1	11/4/2006 5:47:00 AM
n-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
n-Propylbenzene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
sec-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Styrene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
tert-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Tetrachloroethene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Toluene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
trans-1,3-Dichloropropene	ND	0.950	µg/L	1	11/4/2006 5:47:00 AM
Trichloroethene	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Vinyl chloride	ND	2.00	µg/L	1	11/4/2006 5:47:00 AM
Xylenes, Total	ND	5.00	µg/L	1	11/4/2006 5:47:00 AM
Surr: 1,2-Dichloroethane-d4	93.2	70-130	%REC	1	11/4/2006 5:47:00 AM
Surr: 4-Bromofluorobenzene	100	70-130	%REC	1	11/4/2006 5:47:00 AM
Surr: Dibromofluoromethane	98.5	70-130	%REC	1	11/4/2006 5:47:00 AM
Surr: Toluene-d8	102	70-130	%REC	1	11/4/2006 5:47:00 AM

NITRITE - SM4500-NO3-F

Analyst: SUB

Nitrite	ND	0.0100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	0.110	0.100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: RP

Ammonia (as N)	ND	0.130	mg/L	1	11/9/2006
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	9.29	1.50	mg/L	1	11/6/2006
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	0.191	0.0592	mg/L	1	11/8/2006
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: WFR

Phosphate, Ortho	0.0111	0	mg/L	1	11/1/2006
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.623	0.130	mg/L	1	11/7/2006
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	11/7/2006
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen	0.79	0.13	mg/L	1	11/7/2006
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 10-Nov-06**CLIENT:** Town of Plymouth
Project: Ground Water - Eel River Watershed**Lab Order:** 0611021**TOTAL PHOSPHOROUS - L10-115-01-1E****Analyst:** RP

Total Phosphorous 0.130 0.0400 mg/L 1 11/7/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

Lab ID: 0611021-006

Collection Date: 11/1/2006 9:00:00 AM

Client Sample ID: Bradford

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	61.0	5.00		mg/L	1	11/6/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	11/8/2006
Copper	0.0305	0.00800		mg/L	1	11/8/2006
Iron	3.28	0.0600		mg/L	1	11/8/2006
TOTAL MERCURY - E245.1						Analyst: BF
Mercury	ND	0.0005		mg/L	1	11/7/2006
NITRITE - SM4500-NO3-F						Analyst: SUB
Nitrite	ND	0.0100		mg/L	1	11/2/2006
NOTES:						
Analyzed by Premier Laboratory M-CT008						
NITRATE - SM4500-NO3-F						Analyst: SUB
Nitrate	ND	0.100		mg/L	1	11/2/2006
NOTES:						
Analyzed by Premier Laboratory M-CT008						
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: RP
Ammonia (as N)	ND	0.130		mg/L	1	11/9/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	ND	1.50		mg/L	1	11/6/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: RP
Dissolved Inorganic Nitrogen	0.129	0.0592		mg/L	1	11/8/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: WFR
Phosphate, Ortho	0.0238	0		mg/L	1	11/1/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.590	0.130		mg/L	1	11/7/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen ND 0.130 mg/L 1 11/7/2006

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen 0.66 0.13 mg/L 1 11/7/2006

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous ND 0.0400 mg/L 1 11/7/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

Lab ID: 0611021-007

Collection Date: 11/1/2006 10:40:00 AM

Client Sample ID: 3S

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	87.0	5.00		mg/L	1	Analyst: JMC 11/6/2006
TOTAL METALS BY ICP - E200.7						
Boron	ND	0.0300		mg/L	1	Analyst: QS 11/8/2006
Copper	ND	0.00800		mg/L	1	11/8/2006
Iron	0.835	0.0600		mg/L	1	11/8/2006
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	Analyst: BF 11/7/2006
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	2.00		µg/L	1	Analyst: JG 11/4/2006 6:22:00 AM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
1,1,2,2-Tetrachloroethane	ND	0.610		µg/L	1	11/4/2006 6:22:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
1,1-Dichloroethene	ND	0.960		µg/L	1	11/4/2006 6:22:00 AM
1,1-Dichloropropene	ND	0.400		µg/L	1	11/4/2006 6:22:00 AM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
1,2-Dibromo-3-chloropropane	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
1,2-Dibromoethane	ND	1.00		µg/L	1	11/4/2006 6:22:00 AM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
1,2-Dichloroethane	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
1,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM
2-Butanone	ND	10.0		µg/L	1	11/4/2006 6:22:00 AM
2-Chloroethyl vinyl ether	ND	5.00		µg/L	1	11/4/2006 6:22:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
2-Hexanone	ND	10.0	µg/L	1	11/4/2006 6:22:00 AM
4-Chlorotoluene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
4-Methyl-2-pentanone	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Acetone	ND	50.0	µg/L	1	11/4/2006 6:22:00 AM
Acrolein	ND	50.0	µg/L	1	11/4/2006 6:22:00 AM
Acrylonitrile	ND	50.0	µg/L	1	11/4/2006 6:22:00 AM
Benzene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Bromobenzene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Bromochloromethane	ND	2.00	µg/L	1	11/4/2006 6:22:00 AM
Bromodichloromethane	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Bromoform	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Bromomethane	ND	2.00	µg/L	1	11/4/2006 6:22:00 AM
Carbon disulfide	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Carbon Tetrachloride	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Chlorobenzene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Chloroethane	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Chloroform	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Chloromethane	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
cis-1,3-Dichloropropene	ND	0.650	µg/L	1	11/4/2006 6:22:00 AM
Dibromochloromethane	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Dibromomethane	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Ethylbenzene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/4/2006 6:22:00 AM
Isopropylbenzene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Methyl tert-butyl ether	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Methylene chloride	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Naphthalene	ND	20.0	µg/L	1	11/4/2006 6:22:00 AM
n-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
n-Propylbenzene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
sec-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Styrene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
tert-Butylbenzene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Tetrachloroethene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Toluene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
trans-1,3-Dichloropropene	ND	0.950	µg/L	1	11/4/2006 6:22:00 AM
Trichloroethene	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 10-Nov-06

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0611021

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Vinyl chloride	ND	2.00	µg/L	1	11/4/2006 6:22:00 AM
Xylenes, Total	ND	5.00	µg/L	1	11/4/2006 6:22:00 AM
Surr: 1,2-Dichloroethane-d4	90.0	70-130	%REC	1	11/4/2006 6:22:00 AM
Surr: 4-Bromofluorobenzene	101	70-130	%REC	1	11/4/2006 6:22:00 AM
Surr: Dibromofluoromethane	95.0	70-130	%REC	1	11/4/2006 6:22:00 AM
Surr: Toluene-d8	102	70-130	%REC	1	11/4/2006 6:22:00 AM

NITRITE - SM4500-NO3-F

Analyst: SUB

Nitrite	ND	0.0100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	1.90	0.100	mg/L	1	11/2/2006
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: RP

Ammonia (as N)	ND	0.130	mg/L	1	11/9/2006
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	15.4	1.50	mg/L	1	11/6/2006
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	2.10	0.0592	mg/L	1	11/8/2006
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: WFR

Phosphate, Ortho	ND	0	mg/L	1	11/1/2006
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.660	0.130	mg/L	1	11/7/2006
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	11/7/2006
------------------------------	----	-------	------	---	-----------

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen	2.6	0.13	mg/L	1	11/7/2006
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 10-Nov-06**CLIENT:** Town of Plymouth
Project: Ground Water - Eel River Watershed**Lab Order:** 0611021**TOTAL PHOSPHOROUS - L10-115-01-1E****Analyst:** RP

Total Phosphorous 0.0815 0.0400 mg/L 1 11/7/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0611021

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: **Ground Water** - Eel River Watershed, Plymouth MA
Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/1/06	1345	A15	2	Vials	POC	HCL
			2	Vials	VOC	HCL
			1	250 mL Plastic	NH3, Total Phosphorus ^{L2}	H2SO4
			1	250 mL Plastic	Boron, Copper, Iron, Mercury ^{L2}	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL ⁷	NONE
			1	500 mL Plastic	TDS ⁷	NONE
			1	1 Liter Plastic	TDN, DIN ⁷	NONE
			1	1 Liter Plastic	DON ⁷	NONE
			1	1 Liter Plastic	PON ^{L2}	H2SO4
			2	Vials	POC	HCL
			2	Vials	VOC	HCL
			1	250 mL Plastic	NH3, Total Phosphorus	H2SO4
			1	250 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4

Relinquished By: Date/Time

Kim Michaelis 11/1/06
Kerin McCall 11-1-06 3:35

Received By: Date/Time:

Kim Michaelis 11/1/06 2:40
Danielle Raga 11/1/06 3:35p

9

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0611021

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: **Ground Water** - Eel River Watershed, Plymouth MA
Sampler: Kim Michaelis (KM), Kerin McCall(KM)

5°

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/1/06	1120	3D	2	Vials	POC	HCL
			2	Vials	VOC	HCL
			1	250 mL Plastic	NH3, Total Phosphorus ²²	H2SO4
			1	250 mL Plastic	Boron, Copper, Iron, Mercury ²²	HN03
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL ⁷	NONE
			1	500 mL Plastic	TDS ⁷	NONE
			1	1 Liter Plastic	TDN, DIN ⁷	NONE
			1	1 Liter Plastic	DON ⁷	NONE
			1	1 Liter Plastic	PON ²²	H2SO4
11/1/06	1125	DW-1	2	Vials	POC	HCL
			2	Vials	VOC	HCL
			1	250 mL Plastic	NH3, Total Phosphorus ²²	H2SO4
			1	250 mL Plastic	Boron, Copper, Iron, Mercury ²²	HN03
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL ⁷	NONE
			1	500 mL Plastic	TDS ⁷	NONE
			1	1 Liter Plastic	TDN, DIN ⁷	NONE
			1	1 Liter Plastic	DON ⁷	NONE
			1	1 Liter Plastic	PON ²²	H2SO4

3°

0611021
-002

0611021
003

Relinquished By: Date/Time

Kim Michaelis 11/1/06
Kerin McCall 11-1-06 3:35

Received By: Date/Time:

Kerin McCall 11-1-06 3:40
Danielle Pega 11/1/06 3:35

9

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0611021

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/

Project Name: **Ground Water** - Eel River Watershed, Plymouth MA

Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/1/06	1230	A21	2	Vials	POC	HCL
			2	Vials	VOC	HCL
			1	250 mL Plastic	NH3, Total Phosphorus ^{LZ}	H2SO4
			1	250 mL Plastic	Boron, Copper, Iron, Mercury ^{LZ}	HN03
			1	500 mL Plastic	Orthophosphate, ⁴ NO3, NO2, CL	NONE
			1	500 mL Plastic	TDS ⁷	NONE
			1	1 Liter Plastic	TDN, DIN ⁷	NONE
			1	1 Liter Plastic	DON ⁷	NONE
			1	1 Liter Plastic	PON ^{LZ}	H2SO4
11/1/06	1310	GW-1	2	Vials	POC	HCL
			2	Vials	VOC	HCL
			1	250 mL Plastic	NH3, Total Phosphorus ^{LZ}	H2SO4
			1	250 mL Plastic	Boron, Copper, Iron, Mercury ^{LZ}	HN03
			1	500 mL Plastic	Orthophosphate, ⁷ NO3, NO2, CL	NONE
			1	500 mL Plastic	TDS ⁷	NONE
			1	1 Liter Plastic	TDN, DIN ⁷	NONE
			1	1 Liter Plastic	DON ⁷	NONE
			1	1 Liter Plastic	PON ^{LZ}	H2SO4

0611021
0040611021
005

Relinquished By: Date/Time

Kim Michaelis 11/1/06
11-1-06
Kerin McCall 3:35

Received By: Date/Time:

Ben McCall 11-1-06
2:40
Danielle Raga 11/1/06
3:35p

9

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0611021

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: **Ground Water - Eel River Watershed, Plymouth MA**
Sampler: **Kim Michaelis (KM), Kerin McCall(KM)**

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
		Bradford	2	Vials	POC ^{K.M.}	HCL
			2	Vials	VOC ^{K.M.}	HCL
11/1/06	0900	Bradford	1	250 mL Plastic	NH3, Total Phosphorus < 2	H2SO4
			1	250 mL Plastic	Boron, Copper, Iron, Mercury < 2	HN03
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL 7	NONE
			1	500 mL Plastic	TDS 7	NONE
			1	1 Liter Plastic	TDN, DIN 7	NONE
			1	1 Liter Plastic	DON 7	NONE
			1	1 Liter Plastic	PON < 2	H2SO4
11/1/06	1040	3S	2	Vials	POC	HCL
			2	Vials	VOC	HCL
			1	250 mL Plastic	NH3, Total Phosphorus < 2	H2SO4
			1	250 mL Plastic	Boron, Copper, Iron, Mercury < 2	HN03
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL 7	NONE
			1	500 mL Plastic	TDS 7	NONE
			1	1 Liter Plastic	TDN, DIN 7	NONE
			1	1 Liter Plastic	DON 7	NONE
			1	1 Liter Plastic	PON < 2	H2SO4

3⁰

Relinquished By: Date/Time

Kim Michaelis 11/1/06
Kerin McCall 11-1-06 3:35

Received By: Date/Time:

Kim Michaelis 11-1-06 2:40
Danielle Rega 11/1/06 3:35

Barnstable County Health Laboratory

ANALYTICAL REPORT

Town of Plymouth DPW Environmental Management

Report Prepared

Town of Plymouth DPW Environmental Management

Kim Michaelis

11 Lincoln St.

Plymouth, MA 02360

Order #:	G0634696
No. of Samples:	23
Date	3/7/2006

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6606

04/21/2006

CERTIFICATE OF ANALYSIS

Page: 1

Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-01

Sample #: 34696-01
Collected by: KM & BW

Description: Water - Surface Water
Sampling: S-5B

Collected: 3/6/2006
Received: 3/7/2006

8:46

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
<i>LAB: IC Lab</i>						
- Chlorides	29	mg/L	1.0		EPA 300.0	3/7/2006
- Nitrate as Nitrogen	0.17	mg/L	0.10	10	EPA 300.0	3/7/2006
<i>LAB: Inorganics</i>						
- Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
- Dissolved Inorganic Nitrogen	0.30	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
- Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
- Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
- ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
- Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
- Particulate Organic Nitrogen	BRL	mg/L	0.50		EPA 351.2	3/15/2006
- Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/13/2006
- Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
- Total Dissolved Solids	70	mg/L	9.0		EPA 160.1	3/7/2006
- Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/13/2006
<i>LAB: Metals</i>						
- Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
<i>LAB: Organics</i>						
- Chlorophyll A	17	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

CERTIFICATE OF ANALYSIS

Page: 2

Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-02

Sample #: 34696-02
Collected by: KM & BW

Description: Water - Surface Water
Sampling S-17

Collected: 3/6/2006
Received: 3/7/2006

0910

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	19	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	0.13	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	0.20	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/13/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	72	mg/L	9.0		EPA 160.1	3/7/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/13/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	12	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

CERTIFICATE OF ANALYSIS

Page: 3

Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-03

Sample #: 34696-03
Collected by: KM & BW

Description:
Sampling

Water - Surface Water
S-4B

Collected: 3/6/2006
Received: 3/7/2006

0928

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	18	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	BRL	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	BRL	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/13/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	34	mg/L	9.0		EPA 160.1	3/7/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/13/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	2.3	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

CERTIFICATE OF ANALYSIS

Page: 4

Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-04

Sample #: 34696-04
Collected by: KM & BW

Description:
Sampling

Water - Surface Water
S-4A

Collected: 3/6/2006 0935
Received: 3/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	18	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	BRL	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	BRL	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/13/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	22	mg/L	9.0		EPA 160.1	3/7/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/13/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	3.4	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory

Report Dated: 4/24/2006

Page: 5

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-05

Sample #: 34696-05
Collected by: KM & BW

Description: Water - Surface Water
Sampling S-11

Collected: 3/6/2006 0950
Received: 3/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	18	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	BRL	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	BRL	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	18	mg/L	9.0		EPA 160.1	3/7/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	2.3	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-06

Sample #: 34696-06
Collected by: KM & BW

Description: Water - Surface Water
Sampling S-15

Collected: 3/6/2006
Received: 3/7/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
LAB: IC Lab						
Chlorides	18	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	BRL	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	BRL	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	0.5	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	66	mg/L	9.0		EPA 160.1	3/7/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	3.0	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-07

Sample #: 34696-07
Collected by: KM & BV

Description:
Sampling

Water - Surface Water
S-19

Collected: 3/6/2006 1050
Received: 3/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	11	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	BRL	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	BRL	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	52	mg/L	9.0		EPA 160.1	3/7/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	13	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-08

Sample #: 34696-08
Collected by: KM & BW

Description: Water - Surface Water
Sampling S-16

Collected: 3/6/2006
Received: 3/7/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
LAB: IC Lab						
Chlorides	17	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	BRL	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	BRL	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	40	mg/L	9.0		EPA 160.1	3/7/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	0.80	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-09

Sample #: 34696-09
Collected by: KM & BW

Description: Water - Surface Water
Sampling S-18

Collected: 3/6/2006 1035
Received: 3/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	19	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	BRL	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	BRL	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	34	mg/L	9.0		EPA 160.1	3/7/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	1.2	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-10

Sample #: 34696-10
Collected by: KM & BW

Description:
Sampling

Water - Surface Water
S-20

Collected: 3/6/2006
Received: 3/7/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
LAB: IC Lab						
Chlorides	30	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	BRL	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	BRL	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	80	mg/L	9.0		EPA 160.1	3/7/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	4.5	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-11

Sample #: 34696-11
Collected by: KM & BW

Description: Water - Surface Water
Sampling S-8A

Collected: 3/6/2006
Received: 3/7/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
<i>LAB: IC Lab</i>						
Chlorides	30	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	BRL	mg/L	0.10	10	EPA 300.0	3/7/2006
<i>LAB: Inorganics</i>						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	BRL	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	40	mg/L	9.0		EPA 160.1	3/7/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
<i>LAB: Metals</i>						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
<i>LAB: Organics</i>						
Chlorophyll A	4.2	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

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Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-12

Sample #: 34696-12
Collected by: KM & BW

Description: Water - Surface Water
Sampling S-3B

Collected: 3/6/2006
Received: 3/7/2006

1130

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	18	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	0.20	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	BRL	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	0.50	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	36	mg/L	9.0		EPA 160.1	3/7/2006
Total Nitrogen (TN)	0.80	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	33	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-13

Description: Water - Surface Water
Sampling S-3A

Sample #: 34696-13
Collected by: KM & BW

Collected: 3/6/2006
Received: 3/7/2006

1140

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
LAB: IC Lab						
Chlorides	18	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	0.21	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	0.30	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	50	mg/L	9.0		EPA 160.1	3/7/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	20	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-14

Sample #: 34696-14
Collected by: KM & BW

Description: Water - Surface Water
Sampling S-8B

Collected: 3/6/2006
Received: 3/7/2006

1245
F.B.

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
LAB: IC Lab						
Chlorides	70	mg/L	1.0		EPA 300.0	3/8/2006
Nitrate as Nitrogen	0.21	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	0.30	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	210	mg/L	9.0		EPA 160.1	3/7/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	BRL	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-15

Sample #: 34696-15
Collected by: KM & BW

Description: Water - Surface Water
Sampling S- 2C

Collected: 3/6/2006
Received: 3/7/2006

1305

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
<i>LAB: IC Lab</i>						
Chlorides	16	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	0.17	mg/L	0.10	10	EPA 300.0	3/7/2006
<i>LAB: Inorganics</i>						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	0.30	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	48	mg/L	9.0		EPA 160.1	3/7/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
<i>LAB: Metals</i>						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
<i>LAB: Organics</i>						
Chlorophyll A	34	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-16

Sample #: 34696-16
Collected by: KM & BW

Description:
Sampling

Water - Surface Water
S-2B

Collected: 3/6/2006
Received: 3/7/2006

1315

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
LAB: IC Lab						
Chlorides	16	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	0.14	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	0.20	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	0.5	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	52	mg/L	9.0		EPA 160.1	3/7/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	31	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-17

Sample #: 34696-17
Collected by: KM & BW

Description: Water - Surface Water
Sampling S-1

Collected: 3/6/2006
Received: 3/7/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
LAB: IC Lab						
Chlorides	28	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	0.38	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/17/2006
Dissolved Inorganic Nitrogen	0.50	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	84	mg/L	9.0		EPA 160.1	3/9/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	2.1	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-18

Sample #: 34696-18
Collected by: KM & BW

Description: Water - Surface Water
Sampling S-9A

Collected: 3/6/2006 1355
Received: 3/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	30	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	0.42	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/20/2006
Dissolved Inorganic Nitrogen	0.50	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	0.5	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	0.50	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	92	mg/L	9.0		EPA 160.1	3/9/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	0.30	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-19

Sample #: 34696-19
Collected by: KM & BW

Description:
Sampling

Water - Surface Water
S-6B

Collected: 3/6/2006 1420
Received: 3/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	14	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	0.42	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/20/2006
Dissolved Inorganic Nitrogen	0.50	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	0.50	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	68	mg/L	9.0		EPA 160.1	3/9/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	1.4	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-20

Sample #: 34696-20
Collected by: KM & BW

Description: Water - Surface Water
Sampling S-6A

Collected: 3/6/2006 1435
Received: 3/7/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
LAB: IC Lab						
Chlorides	14	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	0.40	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/20/2006
Dissolved Inorganic Nitrogen	0.50	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	0.50	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	42	mg/L	9.0		EPA 160.1	3/9/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	1.2	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-21

Sample #: 34696-21
Collected by: KM & BW

Description: Water - Surface Water
Sampling S-12

Collected: 3/6/2006
Received: 3/7/2006

1445

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	13	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	0.41	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/20/2006
Dissolved Inorganic Nitrogen	0.50	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	0.50	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	56	mg/L	9.0		EPA 160.1	3/9/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	0.80	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-22

Sample #: 34696-22
Collected by: KM & BW

Description: Water - Surface Water
Sampling S-13

Collected: 3/6/2006
Received: 3/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Chlorides	13	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	0.43	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/20/2006
Dissolved Inorganic Nitrogen	0.60	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	0.60	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	66	mg/L	9.0		EPA 160.1	3/9/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	0.90	ug/L	0.1		SM 10200H3-C	3/9/2006

RL = Reporting Limit
MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 4/24/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0634696

Laboratory ID #: 0634696-23

Sample #: 34696-23
Collected by: KM & BW

Description: Water - Surface Water
Sampling S-14

Collected: 3/6/2006
Received: 3/7/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Tested
LAB: IC Lab						
Chlorides	11	mg/L	1.0		EPA 300.0	3/7/2006
Nitrate as Nitrogen	0.25	mg/L	0.10	10	EPA 300.0	3/7/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.20		SM4500-NH3	3/20/2006
Dissolved Inorganic Nitrogen	0.30	mg/L	0.2	1	SM 4500_NH3-H	3/20/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.5	1	351.2	3/15/2006
Nitrite as Nitrogen	BRL	mg/L	0.05	1.0	EPA 300.0	3/7/2006
ortho-Phosphate as	BRL	mg/L	0.10		SM 4500-P F	3/7/2006
Particulate Organic Carbon	BRL	mg/L	0.50		EPA 9060	3/22/2006
Particulate Organic Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Phosphorus - Total	BRL	mg/L	0.5		EPA 365.4	3/15/2006
Total Dissolved Nitrogen	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
Total Dissolved Solids	42	mg/L	9.0		EPA 160.1	3/9/2006
Total Nitrogen (TN)	BRL	mg/L	0.50	1	EPA 351.2	3/15/2006
LAB: Metals						
Boron	BRL	mg/L	0.10		EPA 6010B	3/10/2006
LAB: Organics						
Chlorophyll A	0.60	ug/L	0.1		SM 10200H3-C	3/9/2006

Approved By:

(Lab Director)

RL = Reporting Limit
MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph:

ORIGINAL

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), Brian Woodard (BW)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
03/06/06	0840	S-5B	1	250 mL Plastic	NO ₂ , NO ₃ , Cl, TDS ✓	NONE
03/06/06	0840	S-5B	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	0840	S-5B	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	0840	S-5B	1	250 mL Plastic	Boron ✓	HnO ₃
03/06/06	0840	S-5B	1	250 mL Plastic	TDS, POC ✓	H ₂ SO ₄
03/06/06	0840	S-5B	1	250 mL Plastic	PON (TKN-NH ₃)-(filtered TKN-NH ₃) ✓	H ₂ SO ₄
03/06/06	0840	S-5B	1	500 mL Plastic	TP, NH ₄ , TN, TOC ✓	H ₂ SO ₄
03/06/06	0910	S-17	1	250 mL Plastic	NO ₂ , NO ₃ , Cl, TDS ✓	NONE
03/06/06	0910	S-17	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	0910	S-17	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	0910	S-17	1	250 mL Plastic	Boron ✓	HnO ₃
03/06/06	0910	S-17	1	250 mL Plastic	TDS, POC ✓	H ₂ SO ₄
03/06/06	0910	S-17	1	250 mL Plastic	PON (TKN-NH ₃)-(filtered TKN-NH ₃) ✓	H ₂ SO ₄
03/06/06	0910	S-17	1	500 mL Plastic	TP, NH ₃ , TN, TOC ✓	H ₂ SO ₄

Relinquished By: Date/Time

Kim Michaelis 03/07/06 1106

Received By: Date/Time:

CMF RECEIVED

MAR 07 2006

TIME 1:00

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), Brian Woodard (BW)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
03/06/06	0928	S-4B	1	250 mL Plastic	NO ₂ , NO ₃ , Cl, TDS ✓	NONE
03/06/06	0928	S-4B	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	0928	S-4B	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	0928	S-4B	1	250 mL Plastic	Boron ✓	HNO ₃
03/06/06	0928	S-4B	1	250 mL Plastic	TDS, POC ✓	H ₂ SO ₄
03/06/06	0928	S-4B	1	250 mL Plastic	PON (TKN-NH ₃)-(filtered TKN-NH ₃) ✓	H ₂ SO ₄
03/06/06	0928	S-4B	1	500 mL Plastic	TP, NH ₃ , TN TOC ✓	H ₂ SO ₄
03/06/06	0935	S-4A	1	250 mL Plastic	NO ₂ , NO ₃ , Cl, TDS ✓	NONE
03/06/06	0935	S-4A	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	0935	S-4A	1	1 Liter Amber glass Blk plastic	Chlorophyll a ✓	NONE
03/06/06	0935	S-4A	1	250 mL Plastic	Boron ✓	HNO ₃
03/06/06	0935	S-4A	1	250 mL Plastic	TDS, POC ✓	H ₂ SO ₄
03/06/06	0935	S-4A	1	250 mL Plastic	PON (TKN-NH ₃)-(filtered TKN-NH ₃) ✓	H ₂ SO ₄
03/06/06	0935	S-4A	1	500 mL Plastic	TP, NH ₃ , TN TOC ✓	H ₂ SO ₄

Relinquished By: Date/Time

Kim Michaelis, 3/7/06 1100

Received By: Date/Time:

LMF RECEIVED

MAR 07 2006

TIME 11:00

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), Brian Woodard (BW)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
03/06/06	0950	S-11	1	250 mL Plastic	NO2, NO3, Cl, TDS ✓	NONE
03/06/06	0950	S-11	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	0950	S-11	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	0950	S-11	1	250 mL Plastic	Boron ✓	HNO3
03/06/06	0950	S-11	1	250 mL Plastic	TDS, POC ✓	H2SO4
03/06/06	0950	S-11	1	250 mL Plastic	PON (TKN-NH3)-(filtered TKN-NH3) ✓	H2SO4
03/06/06	0950	S-11	1	500 mL Plastic	TP, NH3, TN TOC ✓	H2SO4
03/06/06	1005	S-15	1	250 mL Plastic	NO2, NO3, Cl, TDS ✓	NONE
03/06/06	1005	S-15	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1005	S-15	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1005	S-15	1	250 mL Plastic	Boron ✓	HNO3
03/06/06	1005	S-15	1	250 mL Plastic	TDS, POC ✓	H2SO4
03/06/06	1005	S-15	1	250 mL Plastic	PON (TKN-NH3)-(filtered TKN-NH3) ✓	H2SO4
03/06/06	1005	S-15	1	500 mL Plastic	TP, NH3, TN TOC ✓	H2SO4

Relinquished By: Date/Time

Kim Michaelis 3/7/06 1100

Received By: Date/Time:

CMF RECEIVED

MAR 07 2006

TIME 1100

Laboratory:
 Barnstable County Department of Health and the Environment
 Superior Court House, PO Box 427, Barnstable, MA 02630
 508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
 11 Lincoln Street, Plymouth, MA 02360
 508-747-1620 x198

Project Name: Surface Water Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), Brian Woodard (BW)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
03/06/06	1050	S-19	1	250 mL Plastic	NO ₂ , NO ₃ , Cl, TDS ✓	NONE
03/06/06	1050	S-19	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1050	S-19	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1050	S-19	1	250 mL Plastic	Boron ✓	HNO ₃
03/06/06	1050	S-19	1	250 mL Plastic	TDS, POC ✓	H ₂ SO ₄
03/06/06	1050	S-19	1	250 mL Plastic	PON (TKN-NH ₃)-(filtered TKN-NH ₃) ✓	H ₂ SO ₄
03/06/06	1050	S-19	1	500 mL Plastic	TP, NH ₃ , TN TOC ✓	H ₂ SO ₄
03/06/06	1025	S-16	1	250 mL Plastic	NO ₂ , NO ₃ , Cl, TDS ✓	NONE
03/06/06	1025	S-16	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1025	S-16	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1025	S-16	1	250 mL Plastic	Boron ✓	HNO ₃
03/06/06	1025	S-16	1	250 mL Plastic	TDS, POC ✓	H ₂ SO ₄
03/06/06	1025	S-16	1	250 mL Plastic	PON (TKN-NH ₃)-(filtered TKN-NH ₃) ✓	H ₂ SO ₄
03/06/06	1025	S-16	1	500 mL Plastic	TP, NH ₃ , TN TOC ✓	H ₂ SO ₄

Relinquished By: Date/Time

Kim Michaelis 3/7/06 1100

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MAR 07 2006

TIME 11:00

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), Brian Woodard (BW)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
03/06/06	1035	S-18	1	250 mL Plastic	NO2, NO3, Cl, TDS ✓	NONE
03/06/06	1035	S-18	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1035	S-18	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1035	S-18	1	250 mL Plastic	Boron ✓	HNO3
03/06/06	1035	S-18	1	250 mL Plastic	TDS, POC ✓	H2SO4
03/06/06	1035	S-18	1	250 mL Plastic	PON (TKN-NH3)-(filtered TKN-NH3) ✓	H2SO4
03/06/06	1035	S-18	1	500 mL Plastic	TP, NH3, TN, TOC ✓	H2SO4
03/06/06	1105	S-20	1	250 mL Plastic	NO2, NO3, Cl, TDS ✓	NONE
03/06/06	1105	S-20	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1105	S-20	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1105	S-20	1	250 mL Plastic	Boron ✓	HNO3
03/06/06	1105	S-20	1	250 mL Plastic	TDS, POC ✓	H2SO4
03/06/06	1105	S-20	1	250 mL Plastic	PON (TKN-NH3)-(filtered TKN-NH3) ✓	H2SO4
03/06/06	1105	S-20	1	500 mL Plastic	TP, NH3, TN, TOC ✓	H2SO4

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Laboratory:
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 508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
 11 Lincoln Street, Plymouth, MA 02360
 508-747-1620 x198

Project Name: Surface Water Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), Brian Woodard (BW)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
03/06/06	1115	S-8A	1	250 mL Plastic	NO2,NO3, Cl, TDS ✓	NONE
03/06/06	1115	S-8A	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1115	S-8A	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1115	S-8A	1	250 mL Plastic	Boron ✓	HnO3
03/06/06	1115	S-8A	1	250 mL Plastic	TDS, POC ✓	H2SO4
03/06/06	1115	S-8A	1	250 mL Plastic	PON (TKN-NH3)-(filtered TKN-NH3) ✓	H2SO4
03/06/06	1115	S-8A	1	500 mL Plastic	TP, NH3, TN TOC ✓	H2SO4
03/06/06	1130	S-3B	1	250 mL Plastic	NO2,NO3, Cl, TDS ✓	NONE
03/06/06	1130	S-3B	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1130	S-3B	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1130	S-3B	1	250 mL Plastic	Boron ✓	HnO3
03/06/06	1130	S-3B	1	250 mL Plastic	TDS, POC ✓	H2SO4
03/06/06	1130	S-3B	1	250 mL Plastic	PON (TKN-NH3)-(filtered TKN-NH3) ✓	H2SO4
03/06/06	1130	S-3B	1	500 mL Plastic	TP, NH3, TN TOC ✓	H2SO4

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Kim Michaelis 3/7/06 1100

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Chain of Custody

Client:

Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), Brian Woodard (BW)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
03/06/06	1140	S-3A	1	250 mL Plastic	NO2, NO3, CI, TDS ✓	NONE
03/06/06	1140	S-3A	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1140	S-3A	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1140	S-3A	1	250 mL Plastic	Boron ✓	HNO3
03/06/06	1140	S-3A	1	250 mL Plastic	TDS, POC ✓	H2SO4
03/06/06	1140	S-3A	1	250 mL Plastic	PON (TKN-NH3)-(filtered TKN-NH3) ✓	H2SO4
03/06/06	1140	S-3A	1	500 mL Plastic	TP, NH3, TN TOC ✓	H2SO4
03/06/06	1245	S-8B	1	250 mL Plastic	NO2, NO3, CI, TDS ✓	NONE
03/06/06	1245	S-8B	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1245	S-8B	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1245	S-8B	1	250 mL Plastic	Boron ✓	HNO3
03/06/06	1245	S-8B	1	250 mL Plastic	TDS, POC ✓	H2SO4
03/06/06	1245	S-8B	1	250 mL Plastic	PON (TKN-NH3)-(filtered TKN-NH3) ✓	H2SO4
03/06/06	1245	S-8B	1	500 mL Plastic	TP, NH3, TN TOC ✓	H2SO4

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Chain of Custody

Client:
 Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
 11 Lincoln Street, Plymouth, MA 02360
 508-747-1620 x198

Project Name: Surface Water Eel River
 Project Site: Eel River, Plymouth
 Sampler: Kim Michaelis (KM), Brian Woodard (BW)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
03/06/06	1305	S-2C	1	250 mL Plastic	NO2,NO3, CI, TDS ✓	NONE
03/06/06	1305	S-2C	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1305	S-2C	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1305	S-2C	1	250 mL Plastic	Boron ✓	HnO3
03/06/06	1305	S-2C	1	250 mL Plastic	TDS, POC ✓	H2SO4
03/06/06	1305	S-2C	1	250 mL Plastic	PON (TKN-NH3)-(filtered TKN-NH3) ✓	H2SO4
03/06/06	1305	S-2C	1	500 mL Plastic	TP, NH3, TN, TOC ✓	H2SO4
03/06/06	1315	S-2B	1	250 mL Plastic	NO2,NO3, CI, TDS ✓	NONE
03/06/06	1315	S-2B	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1315	S-2B	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1315	S-2B	1	250 mL Plastic	Boron ✓	HnO3
03/06/06	1315	S-2B	1	250 mL Plastic	TDS, POC ✓	H2SO4
03/06/06	1315	S-2B	1	250 mL Plastic	PON (TKN-NH3)-(filtered TKN-NH3) ✓	H2SO4
03/06/06	1315	S-2B	1	500 mL Plastic	TP, NH3, TN, TOC ✓	H2SO4

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Kim Michaelis 3/7/06 1200

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Chain of Custody

Client:

Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), Brian Woodard (BW)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
03/06/06	1335	S-1	1	250 mL Plastic	NO ₂ , NO ₃ , Cl, TDS ✓	NONE
03/06/06	1335	S-1	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1335	S-1	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1335	S-1	1	250 mL Plastic	Boron ✓	HNO ₃
03/06/06	1335	S-1	1	250 mL Plastic	TDS, POC ✓	H ₂ SO ₄
03/06/06	1335	S-1	1	250 mL Plastic	PON (TKN-NH ₃)-(filtered TKN-NH ₃) ✓	H ₂ SO ₄
03/06/06	1335	S-1	1	500 mL Plastic	TP, NH ₃ , TN TOC ✓	H ₂ SO ₄
03/06/06	1355	S-9A	1	250 mL Plastic	NO ₂ , NO ₃ , Cl, TDS ✓	NONE
03/06/06	1355	S-9A	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1355	S-9A	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1355	S-9A	1	250 mL Plastic	Boron ✓	HNO ₃
03/06/06	1355	S-9A	1	250 mL Plastic	TDS, POC ✓	H ₂ SO ₄
03/06/06	1355	S-9A	1	250 mL Plastic	PON (TKN-NH ₃)-(filtered TKN-NH ₃) ✓	H ₂ SO ₄
03/06/06	1355	S-9A	1	500 mL Plastic	TP, NH ₃ , TN TOC ✓	H ₂ SO ₄

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Kim Michaelis 3/7/06 1100

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Chain of Custody

Client:

Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
 11 Lincoln Street, Plymouth, MA 02360
 508-747-1620 x198

Project Name: Surface Water Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), Brian Woodard (BW)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
03/06/06	1420	S-6 cb	1	250 mL Plastic	NO ₂ , NO ₃ , Cl, TDS ✓	NONE
03/06/06	1420	S-6 cb	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1420	S-6 cb	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1420	S-6 cb	1	250 mL Plastic	Boron ✓	HNO ₃
03/06/06	1420	S-6 cb	1	250 mL Plastic	TDS, POC ✓	H ₂ SO ₄
03/06/06	1420	S-6 cb	1	250 mL Plastic	PON (TKN-NH ₃)-(filtered TKN-NH ₃) ✓	H ₂ SO ₄
03/06/06	1420	S-6 cb	1	500 mL Plastic	TP, NH ₃ , TN TOC ✓	H ₂ SO ₄
03/06/06	1435	S-6A	1	250 mL Plastic	NO ₂ , NO ₃ , Cl, TDS ✓	NONE
03/06/06	1435	S-6A	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1435	S-6A	1	1 Liter Amber Glass Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1435	S-6A	1	250 mL Plastic	Boron ✓	HNO ₃
03/06/06	1435	S-6A	1	250 mL Plastic	TDS, POC ✓	H ₂ SO ₄
03/06/06	1435	S-6A	1	250 mL Plastic	PON (TKN-NH ₃)-(filtered TKN-NH ₃) ✓	H ₂ SO ₄
03/06/06	1435	S-6A	1	500 mL Plastic	TP, NH ₃ , TN TOC ✓	H ₂ SO ₄

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Kim Michaelis 3/7/06 1100

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Chain of Custody

Client:

Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), Brian Woodard (BW)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
03/06/06	1445	S-12	1	250 mL Plastic	NO ₂ , NO ₃ , Cl, TDS ✓	NONE
03/06/06	1445	S-12	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1445	S-12	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1445	S-12	1	250 mL Plastic	Boron ✓	HnO ₃
03/06/06	1445	S-12	1	250 mL Plastic	TDS, POC ✓	H ₂ SO ₄
03/06/06	1445	S-12	1	250 mL Plastic	PON (TKN-NH ₃)-(filtered TKN-NH ₃) ✓	H ₂ SO ₄
03/06/06	1445	S-12	1	500 mL Plastic	TP, NH ₃ , TN, TOC ✓	H ₂ SO ₄
03/06/06	1500	S-13	1	250 mL Plastic	NO ₂ , NO ₃ , Cl, TDS ✓	NONE
03/06/06	1500	S-13	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1500	S-13	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1500	S-13	1	250 mL Plastic	Boron ✓	HnO ₃
03/06/06	1500	S-13	1	250 mL Plastic	TDS, POC ✓	H ₂ SO ₄
03/06/06	1500	S-13	1	250 mL Plastic	PON (TKN-NH ₃)-(filtered TKN-NH ₃) ✓	H ₂ SO ₄
03/06/06	1500	S-13	1	500 mL Plastic	TP, NH ₃ , TN, TOC ✓	H ₂ SO ₄

Relinquished By: Date/Time

Kim Michaelis 3/7/06 1100

Received By: Date/Time:

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MAR 07 2006

TIME 11:00

Laboratory:
 Barnstable County Department of Health and the Environment
 Superior Court House, PO Box 427, Barnstable, MA 02630
 508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth – DPW Environmental Management Attn: Kim Michaelis
 11 Lincoln Street, Plymouth, MA 02360
 508-747-1620 x198

Project Name: Surface Water Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), Brian Woodard (BW)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
03/06/06	1515	S-14	1	250 mL Plastic	NO ₂ , NO ₃ , Cl, TDS ✓	NONE
03/06/06	1515	S-14	1	100 mL Glass	Orthophosphate ✓	NONE
03/06/06	1515	S-14	1	1 Liter Blk plastic	Chlorophyll a ✓	NONE
03/06/06	1515	S-14	1	250 mL Plastic	Boron ✓	HnO ₃
03/06/06	1515	S-14	1	250 mL Plastic	TDS, POC ✓	H ₂ SO ₄
03/06/06	1515	S-14	1	250 mL Plastic	PON (TKN-NH ₃)-(filtered TKN-NH ₃) ✓	H ₂ SO ₄
03/06/06	1515	S-14	1	500 mL Plastic	TP, NH ₃ , TN TOC ✓	H ₂ SO ₄

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Kim Michaelis 3/7/06 1100

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TIME 11:00



Barnstable County Health Laboratory

ANALYTICAL REPORT FOR Town of Plymouth DPW Environmental Management

Report Prepared for:

Town of Plymouth DPW Environmental Management

Kim Michaelis

11 Lincoln St.

Plymouth, MA 02360

Order #: G0636204

No. of Samples: 8

Date Received: 6/22/2006

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605

08/09/2006



CERTIFICATE OF ANALYSIS

Page: 1

Barnstable County Health Laboratory

Report Dated: 8/15/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636204

Laboratory ID #: 0636204-01

Description: Water - Surface Water

Sample #:

Sampling Location TB-1

Collected: 6/21/2006

Collected by: KM & DG

Received: 6/22/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	41	mg/L	1.0		EPA 300.0	LAP	6/22/2006	
Nitrate as Nitrogen	0.81	mg/L	0.0050	10	SM 4500-NO3 F	LAP	6/23/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.10	mg/L	0.011		EPA 350.1	DCB	6/29/2006	
Dissolved Inorganic Nitroge	0.87	mg/L	0.011	1	SM4500-NO3/EPA	DCB	7/11/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	7/11/2006	
Nitrite as Nitrogen	0.0030	mg/L	0.0010	1.0	SM 4500-NO3 F	LAP	6/23/2006	
ortho-Phosphate as Phospho	BRL	mg/L	0.020		EPA 365.1	DCB	6/23/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/12/2006	
Phosphorus - Total	0.039	mg/L	0.020		EPA 365.1	LAP	6/27/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	6/29/2006	
Total Dissolved Nitrogen (T	0.81	mg/L	0.26	1	Calculation	DCB	6/29/2006	
Total Dissolved Solids	92	mg/L	10.0		EPA 160.1	LAP	6/23/2006	
LAB: Organics								
Chlorophyll A	1.5	ug/L	0.1		SM 10200H	yn	6/24/2006	
TOC	3.2	mg/L	0.50		EPA 415.1	yn	6/28/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

Page: 2

Barnstable County Health Laboratory

Report Dated: 8/15/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636204

Laboratory ID #: 0636204-02

Description: Water - Surface Water

Sample #:

Sampling Location TB-2

Collected: 6/21/2006

Collected by: KM & DG

Received: 6/22/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	23	mg/L	1.0		EPA 300.0	LAP	6/22/2006	
Nitrate as Nitrogen	0.51	mg/L	0.0050	10	SM 4500-NO3 F	LAP	6/23/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.080	mg/L	0.011		EPA 350.1	DCB	6/29/2006	
Dissolved Inorganic Nitroge	0.58	mg/L	0.011	1	SM4500-NO3/EPA	DCB	7/11/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	7/11/2006	
Nitrite as Nitrogen	0.0030	mg/L	0.0010	1.0	SM 4500-NO3 F	LAP	6/23/2006	
ortho-Phosphate as Phospho	BRL	mg/L	0.020		EPA 365.1	DCB	6/23/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/12/2006	
Phosphorus - Total	0.038	mg/L	0.020		EPA 365.1	LAP	6/27/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	6/29/2006	
Total Dissolved Nitrogen (T	0.51	mg/L	0.26	1	Calculation	DCB	6/29/2006	
Total Dissolved Solids	76	mg/L	10		EPA 160.1	LAP	6/23/2006	
LAB: Organics								
Chlorophyll A	1.7	ug/L	0.1		SM 10200H	yn	6/24/2006	
TOC	3.6	mg/L	0.50		EPA 415.1	yn	6/28/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

Page: 3

Barnstable County Health Laboratory

Report Dated: 8/15/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636204

Laboratory ID #: 0636204-03

Description: Water - Surface Water

Sample #:

Sampling Location TB-3

Collected: 6/21/2006

Collected by: KM & DG

Received: 6/22/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	24	mg/L	1.0		EPA 300.0	LAP	6/22/2006	
Nitrate as Nitrogen	0.48	mg/L	0.0050	10	SM 4500-NO3 F	LAP	6/23/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.045	mg/L	0.011		EPA 350.1	DCB	6/29/2006	
Dissolved Inorganic Nitrogen	0.58	mg/L	0.011	1	SM4500-NO3/EPA	DCB	7/11/2006	
Dissolved Organic Nitrogen	0.38	mg/L	0.26	1	Calculation	DCB	7/11/2006	
Nitrite as Nitrogen	0.0030	mg/L	0.0010	1.0	SM 4500-NO3 F	LAP	6/23/2006	
ortho-Phosphate as Phospho	BRL	mg/L	0.020		EPA 365.1	DCB	6/23/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/12/2006	
Phosphorus - Total	0.040	mg/L	0.020		EPA 365.1	LAP	6/27/2006	
TKN	0.43	mg/L	0.26		EPA 351.1	LAP	6/29/2006	
Total Dissolved Nitrogen (T	0.49	mg/L	0.26	1	Calculation	DCB	6/29/2006	
Total Dissolved Solids	40	mg/L	10		EPA 160.1	LAP	6/23/2006	
LAB: Organics								
Chlorophyll A	2.3	ug/L	0.1		SM 10200H	yn	6/24/2006	
TOC	4.0	mg/L	0.50		EPA 415.1	yn	6/28/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 8/15/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636204

Laboratory ID #: 0636204-04

Description: Water - Surface Water

Sample #:

Sampling Location TB-4

Collected: 6/21/2006

Collected by: KM & DG

Received: 6/22/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	23	mg/L	1.0		EPA 300.0	LAP	6/22/2006	
Nitrate as Nitrogen	0.55	mg/L	0.0050	10	SM 4500-NO3 F	LAP	6/23/2006	
LAB: Inorganics								
Ammonia as Nitrogen	BRL	mg/L	0.011		EPA 350.1	DCB	6/29/2006	
Dissolved Inorganic Nitroge	0.58	mg/L	0.011	1	SM4500-NO3/EPA	DCB	7/11/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	7/11/2006	
Nitrite as Nitrogen	0.0030	mg/L	0.0010	1.0	SM 4500-NO3 F	LAP	6/23/2006	
ortho-Phosphate as Phospho	BRL	mg/L	0.020		EPA 365.1	DCB	6/23/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/12/2006	
Phosphorus - Total	0.031	mg/L	0.020		EPA 365.1	LAP	6/27/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	6/29/2006	
Total Dissolved Nitrogen (T	0.56	mg/L	0.26	1	Calculation	DCB	6/29/2006	
Total Dissolved Solids	56	mg/L	10		EPA 160.1	LAP	6/23/2006	
LAB: Organics								
Chlorophyll A	23	ug/L	0.1		SM 10200H	yn	6/24/2006	
TOC	3.1	mg/L	0.50		EPA 415.1	yn	6/28/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 8/9/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636204

Laboratory ID #: 0636204-05

Description: Water - Surface Water

Sample #:

Sampling Location S-7

Collected: 6/22/2006

Collected by: KM & DG

Received: 6/22/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Nitrate as Nitrogen	0.054	mg/L	0.0050	10	SM 4500-NO3 F	6/23/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.011		EPA 350.1	6/29/2006
Dissolved Inorganic Nitroge	0.054	mg/L	0.011	1	SM4500-NO3/EPA	7/11/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	7/11/2006
Nitrite as Nitrogen	0.0030	mg/L	0.0010	1.0	SM 4500-NO3 F	6/23/2006
ortho-Phosphate as Phospho	0.087	mg/L	0.020		EPA 365.1	6/23/2006
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	7/12/2006
Phosphorus - Total	0.026	mg/L	0.020		EPA 365.1	6/27/2006
TKN	BRL	mg/L	0.26		EPA 351.1	6/29/2006
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	6/29/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 8/9/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636204

Laboratory ID #: 0636204-06

Description: Water - Surface Water

Sample #:

Sampling Location S-10

Collected: 6/22/2006

Collected by: KM & DG

Received: 6/22/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Nitrate as Nitrogen	0.047	mg/L	0.0050	10	SM 4500-NO3 F	6/23/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.011		EPA 350.1	6/29/2006
Dissolved Inorganic Nitroge	0.055	mg/L	0.011	1	SM4500-NO3/EPA	7/11/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	7/11/2006
Nitrite as Nitrogen	0.0030	mg/L	0.0010	1.0	SM 4500-NO3 F	6/23/2006
ortho-Phosphate as Phospho	0.083	mg/L	0.020		EPA 365.1	6/23/2006
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	7/12/2006
Phosphorus - Total	0.035	mg/L	0.020		EPA 365.1	6/27/2006
TKN	BRL	mg/L	0.26		EPA 351.1	6/29/2006
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	6/29/2006

RL = Reporting Limit

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Barnstable County Health Laboratory

Report Dated: 8/9/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636204

Laboratory ID #: 0636204-07

Description: Water - Surface Water

Sample #:

Sampling Location S-8A

Collected: 6/22/2006

Collected by: KM & DG

Received: 6/22/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Nitrate as Nitrogen	0.20	mg/L	0.0050	10	SM 4500-NO3 F	6/23/2006
LAB: Inorganics						
Ammonia as Nitrogen	BRL	mg/L	0.011		EPA 350.1	6/29/2006
Dissolved Inorganic Nitroge	0.21	mg/L	0.011	1	SM4500-NO3/EPA	7/11/2006
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	7/11/2006
Nitrite as Nitrogen	0.0030	mg/L	0.0010	1.0	SM 4500-NO3 F	6/23/2006
ortho-Phosphate as Phospho	BRL	mg/L	0.020		EPA 365.1	6/23/2006
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	7/12/2006
Phosphorus - Total	BRL	mg/L	0.020		EPA 365.1	6/27/2006
TKN	BRL	mg/L	0.26		EPA 351.1	6/29/2006
Total Dissolved Nitrogen (T	0.51	mg/L	0.26	1	Calculation	6/29/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 8/9/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636204

Laboratory ID #: 0636204-08

Description: Water - Surface Water

Sample #:

Sampling Location S-8B

Collected: 6/22/2006

Collected by: KM & DG

Received: 6/22/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
<i>LAB: IC Lab</i>						
Nitrate as Nitrogen	0.046	mg/L	0.0050	10	SM 4500-NO3 F	6/23/2006
<i>LAB: Inorganics</i>						
Ammonia as Nitrogen	BRL	mg/L	0.011		EPA 350.1	6/29/2006
Dissolved Inorganic Nitroge	0.061	mg/L	0.011	1	SM4500-NO3/EPA	7/11/2006
Dissolved Organic Nitrogen	0.42	mg/L	0.26	1	Calculation	7/11/2006
Nitrite as Nitrogen	0.0030	mg/L	0.0010	1.0	SM 4500-NO3 F	6/23/2006
ortho-Phosphate as Phospho	0.085	mg/L	0.020		EPA 365.1	6/23/2006
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	7/12/2006
Phosphorus - Total	0.029	mg/L	0.020		EPA 365.1	6/27/2006
TKN	0.42	mg/L	0.26		EPA 351.1	6/29/2006
Total Dissolved Nitrogen (T	0.41	mg/L	0.26	1	Calculation	6/29/2006

Approved By:

Gregory Leis
(Lab Director)

8/17/2006

ORIGINAL

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



Barnstable County Health Laboratory

ANALYTICAL REPORT FOR

Town of Plymouth DPW Environmental Management

Report Prepared for:

Town of Plymouth DPW Environmental Management

Kim Michaelis

11 Lincoln St.

Plymouth, MA 02360

Order #: G0636791

No. of Samples: 23

Date Received: 7/13/2006

*Nitrite levels
are all ND

-lab will send new report

< 0.0010

see 8/16/06
signed
9/15/06 report

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605

08/16/2006



CERTIFICATE OF ANALYSIS

Page: 1

Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-01

Description: Water - Surface Water

Sample #:

Sampling Location S-5B

Collected by: KM & DG

Collected: 7/13/2006

Received: 7/13/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	30	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.13	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.051	mg/L	0.011		EPA 350.1	DCB	7/21/2006	
Dissolved Inorganic Nitroge	0.15	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.63	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.025	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.042	mg/L	0.020		EPA 365.1	LAP	7/19/2006	
TKN	0.38	mg/L	0.26		EPA 351.1	LAP	7/19/2006	
Total Dissolved Nitrogen (T	0.78	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	44	mg/L	10		EPA 160.1	LAP	7/17/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/19/2006	
LAB: Organics								
Chlorophyll A	3.8	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-02

Description: Water - Surface Water

Sample #:

Sampling Location S-17

Collected by: KM & DG

Collected: 7/13/2006

Received: 7/13/2006

0835

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	21	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.13	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.022	mg/L	0.011		EPA 350.1	DCB	7/21/2006	
Dissolved Inorganic Nitroge	0.17	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.28	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.025	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	3.0	mg/L	0.26	1	Calculation	DCB	7/26/2006	> MCL
Phosphorus - Total	0.036	mg/L	0.020		EPA 365.1	LAP	7/19/2006	
TKN	3.3	mg/L	0.26		EPA 351.1	LAP	7/19/2006	
Total Dissolved Nitrogen (T	0.45	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	60	mg/L	10		EPA 160.1	LAP	7/17/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/19/2006	
LAB: Organics								
Chlorophyll A	3.2	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID#: 0636791-03

Description: Water - Surface Water

Sample #:

Sampling Location S-4B

Collected by: KM & DG

0850
Collected: 7/13/2006

Received: 7/13/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	22	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.12	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.025	mg/L	0.011		EPA 350.1	DCB	7/21/2006	
Dissolved Inorganic Nitroge	0.16	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.32	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.022	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	0.75	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.035	mg/L	0.020		EPA 365.1	LAP	7/19/2006	
TKN	1.1	mg/L	0.26		EPA 351.1	LAP	7/19/2006	
Total Dissolved Nitrogen (T	0.48	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	70	mg/L	10		EPA 160.1	LAP	7/17/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/19/2006	
LAB: Organics								
Chlorophyll A	97	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-04

Description: Water - Surface Water

0858

Sample #:

Sampling Location S-4A

Collected: 7/13/2006

Collected by: KM & DG

Received: 7/13/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	18	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	BRL	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.022	mg/L	0.011		EPA 350.1	DCB	7/21/2006	
Dissolved Inorganic Nitroge	0.11	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.77	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.025	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.034	mg/L	0.020		EPA 365.1	LAP	7/19/2006	
TKN	0.29	mg/L	0.26		EPA 351.1	LAP	7/19/2006	
Total Dissolved Nitrogen (T	0.88	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	58	mg/L	10		EPA 160.1	LAP	7/17/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/19/2006	
LAB: Organics								
Chlorophyll A	3.1	ug/L	0.1		SM 10200H	yn	7/18/2006	

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CERTIFICATE OF ANALYSIS

Page: 5

Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-05

Description: Water - Surface Water

Sample #:

Sampling Location S-11

Collected by: KM & DG

Collected: 7/13/2006

Received: 7/13/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
<i>LAB: IC Lab</i>								
Chlorides	19	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.11	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
<i>LAB: Inorganics</i>								
Ammonia as Nitrogen	0.083	mg/L	0.011		EPA 350.1	DCB	7/21/2006	
Dissolved Inorganic Nitroge	0.12	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.39	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.024	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.036	mg/L	0.020		EPA 365.1	LAP	7/19/2006	
TKN	0.54	mg/L	0.26		EPA 351.1	LAP	7/19/2006	
Total Dissolved Nitrogen (T	0.51	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	26	mg/L	10		EPA 160.1	LAP	7/17/2006	
<i>LAB: Metals</i>								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
<i>LAB: Organics</i>								
Chlorophyll A	0.80	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-06

Description: Water - Surface Water

0920

Sample #:

Sampling Location S-15

Collected: 7/13/2006

Collected by: KM & DG

Received: 7/13/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	28	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.17	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	BRL	mg/L	0.011		EPA 350.1	DCB	7/21/2006	
Dissolved Inorganic Nitroge	0.17	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.88	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.023	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.025	mg/L	0.020		EPA 365.1	LAP	7/19/2006	
TKN	0.41	mg/L	0.26		EPA 351.1	LAP	7/19/2006	
Total Dissolved Nitrogen (T	1.0	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	34	mg/L	10		EPA 160.1	LAP	7/17/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	1.8	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory

Report Dated: 8/16/2006

Page: 7

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-07

Description: Water - Surface Water

Sample #:

Sampling Location S-16

Collected by: KM & DG

0935
Collected: 7/13/2006

Received: 7/13/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	16	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.11	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	BRL	mg/L	0.011		EPA 350.1	DCB	7/21/2006	
Dissolved Inorganic Nitroge	0.12	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.35	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.024	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.032	mg/L	0.020		EPA 365.1	LAP	7/19/2006	
TKN	0.44	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	22	mg/L	10		EPA 160.1	LAP	7/17/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	0.90	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-08

Description: Water - Surface Water

Sample #:

Sampling Location S-18

Collected by: KM & DG

Collected: 7/13/2006

Received: 7/13/2006

0945

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	24	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	BRL	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	BRL	mg/L	0.011		EPA 350.1	DCB	7/21/2006	
Dissolved Inorganic Nitroge	0.098	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.74	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.090	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.16	mg/L	0.020		EPA 365.1	LAP	7/19/2006	
TKN	0.36	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	0.84	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	64	mg/L	10		EPA 160.1	LAP	7/17/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	1.0	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-09

Description: Water - Surface Water

Sample #:

Sampling Location S-19

Collected by: KM & DG

Collected: 7/13/2006

Received: 7/13/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	9.7	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	BRL	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.036	mg/L	0.011		EPA 350.1	DCB	7/21/2006	
Dissolved Inorganic Nitroge	0.11	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.038	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	0.73	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.065	mg/L	0.020		EPA 365.1	LAP	7/19/2006	
TKN	0.77	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	24	mg/L	10		EPA 160.1	LAP	7/13/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	2.2	ug/L	0.1		SM 10200H	yn	7/18/2006	

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Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-10

Description: Water - Surface Water

Sample #:

Sampling Location S-20

Collected by: KM & DG

1010
Collected: 7/13/2006

Received: 7/13/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	36	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	BRL	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.038	mg/L	0.011		EPA 350.1	DCB	7/21/2006	
Dissolved Inorganic Nitroge	0.10	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.018	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	0.31	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	BRL	mg/L	0.010		EPA 365.1	LAP	7/19/2006	
TKN	0.35	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	54	mg/L	10		EPA 160.1	LAP	7/13/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	21	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

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CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory

Report Dated: 8/16/2006

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Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-11

Description: Water - Surface Water

Sample #:

Sampling Location S-3B

Collected by: KM & DG

1025
Collected: 7/13/2006
Received: 7/13/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	19	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.16	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.015	mg/L	0.011		EPA 350.1	DCB	7/21/2006	
Dissolved Inorganic Nitrogen	0.22	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.91	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.023	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.028	mg/L	0.010		EPA 365.1	LAP	7/21/2006	
TKN	0.60	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	1.1	mg/L	0.26	1	Calculation	DCB	7/26/2006	> MCL
Total Dissolved Solids	44	mg/L	10		EPA 160.1	LAP	7/13/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	5.0	ug/L	0.1		SM 10200H	yn	7/18/2006	

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Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-12

Description: Water - Surface Water

Sample #:

Sampling Location S-3A

Collected by: KM & DG

1640

Collected: 7/13/2006

Received: 7/13/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	19	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.15	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.037	mg/L	0.011		EPA 350.1	DCB	7/21/2006	
Dissolved Inorganic Nitroge	0.19	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.38	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.029	mg/L	0.010		EPA 365.1	LAP	7/21/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	0.57	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	36	mg/L	10		EPA 160.1	LAP	7/13/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	3.5	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-13

Description: Water - Surface Water

Sample #:

Sampling Location S-2C

Collected by: KM & DG

Collected: 7/13/2006

Received: 7/13/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	17	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	BRL	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	BRL	mg/L	0.011		EPA 350.1	DCB	7/21/2006	
Dissolved Inorganic Nitroge	0.11	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.021	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	0.41	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.022	mg/L	0.010		EPA 365.1	LAP	7/21/2006	
TKN	0.41	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	60	mg/L	10		EPA 160.1	LAP	7/17/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	19	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory

Report Dated: 8/16/2006

Page: 14

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-14

Description: Water - Surface Water

Sample #:

Sampling Location S-2B

Collected by: KM & DG

1115
Collected: 7/13/2006

Received: 7/13/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	17	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	BRL	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	BRL	mg/L	0.011		EPA 350.1	DCB	7/21/2006	
Dissolved Inorganic Nitroge	0.082	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.022	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	0.32	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.018	mg/L	0.010		EPA 365.1	LAP	7/21/2006	
TKN	0.32	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	46	mg/L	10		EPA 160.1	LAP	7/13/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	15	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory

Report Dated: 8/16/2006

Page: 15

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-15

Description: Water - Surface Water

Sample #:

Sampling Location S-1

Collected by: KM & DG

1150
Collected: 7/13/2006

Received: 7/13/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	31	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.36	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	BRL	mg/L	0.010		EPA 350.1	DCB	7/25/2006	
Dissolved Inorganic Nitroge	0.38	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.63	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.026	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	2.4	mg/L	0.26	1	Calculation	DCB	7/26/2006	> MCL
Phosphorus - Total	0.036	mg/L	0.010		EPA 365.1	LAP	7/21/2006	
TKN	3.0	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	1.0	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	88	mg/L	10		EPA 160.1	LAP	7/17/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	1.3	ug/L	0.1		SM 10200H	yn	7/18/2006	

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Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-16

Description: Water - Surface Water

Sample #:

Sampling Location S-9A

Collected by: KM & DG

1130
Collected: 7/13/2006
Received: 7/13/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	35	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.44	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.032	mg/L	0.010		EPA 350.1	DCB	7/25/2006	
Dissolved Inorganic Nitroge	0.46	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.53	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.025	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	0.84	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.059	mg/L	0.010		EPA 365.1	LAP	7/21/2006	
TKN	1.4	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	0.99	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	84	mg/L	10		EPA 160.1	LAP	7/17/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	0.50	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-17

Description: Water - Surface Water

1230

Sample #:

Sampling Location S-6B

Collected: 7/13/2006

Collected by: KM & DG

Received: 7/13/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	14	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.30	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	BRL	mg/L	0.010		EPA 350.1	DCB	7/25/2006	
Dissolved Inorganic Nitroge	0.30	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.33	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.025	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.034	mg/L	0.010		EPA 365.1	LAP	7/21/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	0.63	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	10	mg/L	10		EPA 160.1	LAP	7/17/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	5.5	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-18

Description: Water - Surface Water

Sample #:

Sampling Location S-6A

1240

Collected: 7/13/2006

Collected by: KM & DG

Received: 7/13/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	14	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.30	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.020	mg/L	0.010		EPA 350.1	DCB	7/25/2006	
Dissolved Inorganic Nitroge	0.31	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.48	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.026	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.036	mg/L	0.010		EPA 365.1	LAP	7/21/2006	
TKN	0.63	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	0.79	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	38	mg/L	10		EPA 160.1	LAP	7/13/2006	
LAB: Metals								
Boron	0.026	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	2.1	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

Page: 19

Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-19

Description: Water - Surface Water

1300

Sample #:

Sampling Location S-12

Collected: 7/13/2006

Collected by: KM & DG

Received: 7/13/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	12	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.32	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	BRL	mg/L	0.010		EPA 350.1	DCB	7/25/2006	
Dissolved Inorganic Nitroge	0.32	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.32	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.024	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	0.32	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.027	mg/L	0.010		EPA 365.1	LAP	7/21/2006	
TKN	0.64	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	0.64	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	32	mg/L	10		EPA 160.1	LAP	7/13/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	2.8	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, P.O. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

Page: 20

Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-20

Description: Water - Surface Water

1310

Sample #:

Sampling Location S-13

Collected: 7/13/2006

Collected by: KM & DG

Received: 7/13/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	12	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.36	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	BRL	mg/L	0.010		EPA 350.1	DCB	7/25/2006	
Dissolved Inorganic Nitroge	0.36	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.26	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.023	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.020	mg/L	0.010		EPA 365.1	LAP	7/21/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	0.62	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	50	mg/L	10		EPA 160.1	LAP	7/17/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	1.2	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

Page: 21

Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-21

Description: Water - Surface Water

Sample #:

Sampling Location S-8A

Collected by: KM & DG

1335
Collected: 7/13/2006

Received: 7/13/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	11	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.19	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	BRL	mg/L	0.010		EPA 350.1	DCB	7/25/2006	
Dissolved Inorganic Nitroge	0.19	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.64	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.020	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.023	mg/L	0.010		EPA 365.1	LAP	7/21/2006	
TKN	0.54	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	0.83	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	40	mg/L	10		EPA 160.1	LAP	7/17/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	12	ug/L	0.1		SM 10200H	yn	7/18/2006	

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Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-22

Description: Water - Surface Water

Sample #:

Sampling Location S-8B

Collected: 7/13/2006

Collected by: KM & DG

Received: 7/13/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	BRL	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.12	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	BRL	mg/L	0.010		EPA 350.1	DCB	7/25/2006	
Dissolved Inorganic Nitroge	0.12	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.053	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.046	mg/L	0.010		EPA 365.1	LAP	7/21/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	38	mg/L	10		EPA 160.1	LAP	7/17/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	BRL	ug/L	0.1		SM 10200H	yn	7/18/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

Page: 23

Barnstable County Health Laboratory

Report Dated: 8/16/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0636791

Laboratory ID #: 0636791-23

Description: Water - Surface Water

Sample #:

Sampling Location S-14

Collected by: KM & DG

Collected: 7/13/2006

Received: 7/13/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	11	mg/L	1.0		EPA 300.0	LAP	7/14/2006	
Nitrate as Nitrogen	0.20	mg/L	0.0050	10	SM 4500-NO3 F	LAP	7/14/2006	
LAB: Inorganics								
Ammonia as Nitrogen	BRL	mg/L	0.010		EPA 350.1	DCB	7/25/2006	
Dissolved Inorganic Nitroge	0.21	mg/L	0.011	1	SM 4500_NH3-H	DCB	8/1/2006	
Dissolved Organic Nitrogen	0.28	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Nitrite as Nitrogen	0.0038	mg/L	0.0010	1.0	SM 4500 NO3 F	LAP	7/14/2006	
ortho-Phosphate as Phospho	0.022	mg/L	0.010		EPA 365.1	DCB	7/14/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Phosphorus - Total	0.024	mg/L	0.010		EPA 365.1	LAP	7/21/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	7/20/2006	
Total Dissolved Nitrogen (T	0.49	mg/L	0.26	1	Calculation	DCB	7/26/2006	
Total Dissolved Solids	26	mg/L	10		EPA 160.1	LAP	7/13/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		SM 6010B	TFB	7/21/2006	
LAB: Organics								
Chlorophyll A	10	ug/L	0.1		SM 10200H	yn	7/18/2006	

Approved By:

(Lab Director)

8/17/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605

ORIGINAL

Laboratory:

Barnstable County Department of Health and the Environment
 Superior Court House, PO Box 427, Barnstable, MA 02630
 508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
 11 Lincoln Street, Plymouth, MA 02360
 508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/13/06	0815	S-5B	1	250 mL Plastic	Cl, TDS ✓	NONE
	0815	S-5B	1	100 mL Glass	Orthophosphate ✓	NONE
	0815	S-5B	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	0815	S-5B	1	250 mL Plastic	Boron ✓	HnO3
	0815	S-5B	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	0815	S-5B	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE
7/13/06	0835	S-17	1	250 mL Plastic	Cl, TDS ✓	NONE
	0835	S-17	1	100 mL Glass	Orthophosphate ✓	NONE
	0835	S-17	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	0835	S-17	1	250 mL Plastic	Boron ✓	HnO3
	0835	S-17	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	0835	S-17	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE

Relinquished By: Date/Time

Kim Michaelis 7/13/06 3:45

Received By: Date/Time:

CMF RECEIVED

JUL 13 2006

TIME 3:50

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/13/06	0850	S-4B	1	250 mL Plastic	Cl, TDS ✓	NONE
	0850	S-4B	1	100 mL Glass	Orthophosphate ✓	NONE
	0850	S-4B	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	0850	S-4B	1	250 mL Plastic	Boron ✓	HnO3
	0850	S-4B	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	0850	S-4B	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE
7/13/06	0858	S-4A	1	250 mL Plastic	Cl, TDS ✓	NONE
	0858	S-4A	1	100 mL Glass	Orthophosphate ✓	NONE
	0858	S-4A	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	0858	S-4A	1	250 mL Plastic	Boron ✓	HnO3
	0858	S-4A	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	0858	S-4A	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE

Relinquished By: Date/Time

Kim Michaelis 7/13/06 3:45

Received By:

CMF RECEIVED

Date/Time:

JUL 13 2006

TIME 3:50

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/13/06	0910	S-11	1	250 mL Plastic	Cl, TDS ✓	NONE
	0910	S-11	1	100 mL Glass	Orthophosphate ✓	NONE
	0910	S-11	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	0910	S-11	1	250 mL Plastic	Boron ✓	HnO3
	0910	S-11	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	0910	S-11	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE
7/13/06	0920	S-15	1	250 mL Plastic	Cl, TDS ✓	NONE
	0920	S-15	1	100 mL Glass	Orthophosphate ✓	NONE
	0920	S-15	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	0920	S-15	1	250 mL Plastic	Boron ✓	HnO3
	0920	S-15	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	0920	S-15	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE

Relinquished By: Date/Time

Kim Michaelis 7/13/06 3:45

Received By: Date/Time:

CMF RECEIVED

JUL 13 2006

TIME 3:50

Laboratory:
 Barnstable County Department of Health and the Environment
 Superior Court House, PO Box 427, Barnstable, MA 02630
 508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
 11 Lincoln Street, Plymouth, MA 02360
 508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	#Bottles	Type bottle	Analysis	Preservative
7/13/06	0935	S-16	1	250 mL Plastic	Cl, TDS ✓	NONE
	0935	S-16	1	100 mL Glass	Orthophosphate ✓	NONE
	0935	S-16	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	0935	S-16	1	250 mL Plastic	Boron ✓	HnO3
	0935	S-16	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	0935	S-16	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE
7/13/06	0945	S-18	1	250 mL Plastic	Cl, TDS ✓	NONE
	0945	S-18	1	100 mL Glass	Orthophosphate ✓	NONE
	0945	S-18	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	0945	S-18	1	250 mL Plastic	Boron ✓	HnO3
	0945	S-18	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	0945	S-18	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE

Relinquished By: Date/Time

Kim Michaelis 7/13/06 3:45

Received By: Date/Time:

CMF RECEIVED

JUL 13 2006

TIME

3:50

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/13/06	1000	S-19	1	250 mL Plastic	Cl, TDS ✓	NONE
	1000	S-19	1	100 mL Glass	Orthophosphate ✓	NONE
	1000	S-19	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	1000	S-19	1	250 mL Plastic	Boron ✓	HnO3
	1000	S-19	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	1000	S-19	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE
7/13/06	1010	S-20	1	250 mL Plastic	Cl, TDS ✓	NONE
	1010	S-20	1	100 mL Glass	Orthophosphate ✓	NONE
	1010	S-20	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	1010	S-20	1	250 mL Plastic	Boron ✓	HnO3
	1010	S-20	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	1010	S-20	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE

Relinquished By: Date/Time

Kim Michaelis 7/13/06 3:45

Received By: Date/Time:

CMF RECEIVED

JUL 13 2006

Laboratory:

TIME 3:50

Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/13/06	1025	S-3B	1	250 mL Plastic	Cl, TDS ✓	NONE
	1025	S-3B	1	100 mL Glass	Orthophosphate ✓	NONE
	1025	S-3B	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	1025	S-3B	1	250 mL Plastic	Boron ✓	HnO3
	1025	S-3B	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	1025	S-3B	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE
7/13/06	1040	S-3A	1	250 mL Plastic	Cl, TDS ✓	NONE
	1040	S-3A	1	100 mL Glass	Orthophosphate	NONE
	1040	S-3A	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	1040	S-3A	1	250 mL Plastic	Boron ✓	HnO3
	1040	S-3A	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	1040	S-3A	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE

Relinquished By: Date/Time

Kim Michaelis 7/13/06 345

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JUL 13 2006

TIME 3:50

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/13/06	1100	S-2C	1	250 mL Plastic	Cl, TDS ✓	NONE
	1100 1100	S-2C	1	100 mL Glass	Orthophosphate ✓	NONE
	1100	S-2C	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	1100	S-2C	1	250 mL Plastic	Boron ✓	HnO3
	1100	S-2C	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	1100	S-2C	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE
7/13/06	1115	S-2B	1	250 mL Plastic	Cl, TDS ✓	NONE
	1115	S-2B	1	100 mL Glass	Orthophosphate ✓	NONE
	1115	S-2B	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	1115	S-2B	1	250 mL Plastic	Boron ✓	HnO3
	1115	S-2B	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	1115	S-2B	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE

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Kim Michaelis 7/13/06 3:45

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Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:
Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River
Project Site: Eel River, Plymouth
Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/13/06	1150	S-1	1	250 mL Plastic	Cl, TDS ✓	NONE
↓	1150	S-1	1	100 mL Glass	Orthophosphate ✓	NONE
↓	1150	S-1	1	1 Liter am plastic	Chlorophyll a ✓	NONE
↓	1150	S-1	1	250 mL Plastic	Boron ✓	HnO3
↓	1150	S-1	1	500 mL Plastic	TP, NH4 ✓	H2SO4
↓	1150	S-1	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE
7/13/06	1130	S-9A	1	250 mL Plastic	Cl, TDS ✓	NONE
↓	1130	S-9A	1	100 mL Glass	Orthophosphate ✓	NONE
↓	1130	S-9A	1	1 Liter am plastic	Chlorophyll a ✓	NONE
↓	1130	S-9A	1	250 mL Plastic	Boron ✓	HnO3
↓	1130	S-9A	1	500 mL Plastic	TP, NH4 ✓	H2SO4
↓	1130	S-9A	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE

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508-375-6605;6612

Chain of Custody

Client:
Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River
Project Site: Eel River, Plymouth
Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/13/06	1230	S-6B	1	250 mL Plastic	Cl, TDS ✓	NONE
	1230	S-6B	1	100 mL Glass	Orthophosphate ✓	NONE
	1230	S-6B	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	1230	S-6B	1	250 mL Plastic	Boron ✓	HnO3
	1230	S-6B	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	1230	S-6B	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE
7/13/06	1240	S-6A	1	250 mL Plastic	Cl, TDS ✓	NONE
	1240	S-6A	1	100 mL Glass	Orthophosphate ✓	NONE
	1240	S-6A	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	1240	S-6A	1	250 mL Plastic	Boron ✓	HnO3
	1240	S-6A	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	1240	S-6A	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE

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Laboratory:
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 Superior Court House, PO Box 427, Barnstable, MA 02630
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Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
 11 Lincoln Street, Plymouth, MA 02360
 508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/13/06	1300	S-12	1	250 mL Plastic	Cl, TDS ✓	NONE
	1300	S-12	1	100 mL Glass	Orthophosphate ✓	NONE
	1300	S-12	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	1300	S-12	1	250 mL Plastic	Boron ✓	HnO3
	1300	S-12	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	1300	S-12	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE
7/13/06	1310	S-13	1	250 mL Plastic	Cl, TDS ✓	NONE
	1310	S-13	1	100 mL Glass	Orthophosphate ✓	NONE
	1310	S-13	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	1310	S-13	1	250 mL Plastic	Boron ✓	HnO3
	1310	S-13	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	1310	S-13	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE

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Kim Michaelis, 7/13/06 3:45

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Laboratory:
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 Superior Court House, PO Box 427, Barnstable, MA 02630
 508-375-6605;6612

Chain of Custody

Client:
 Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
 11 Lincoln Street, Plymouth, MA 02360
 508-747-1620 x198

Project Name: Surface Water - Eel River
 Project Site: Eel River, Plymouth
 Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/13/06	1330	S-14	1	250 mL Plastic	Cl, TDS ✓	NONE
	1330	S-14	1	100 mL Glass	Orthophosphate ✓	NONE
	1330	S-14	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	1330	S-14	1	250 mL Plastic	Boron ✓	HnO3
	1330	S-14	1	500 mL Plastic	TP, NH4 ✓	H2SO4
	1330	S-14	1	1 Liter Plastic	NO2, NO3, TDN, TN, DIN, DON, POC, PON ✓	NONE

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Laboratory:

Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

*A small note
added on 2 bottles*

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/13/06	1335	S-8A	1	500 mL Plastic	Cl, TDS ✓	NONE
	1335	S-8A	1	100 mL Glass	Orthophosphate ✓	NONE
	1335	S-8A	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	1335	S-8A	2	8oz Plastic	Boron ✓✓	HnO3
	1335	S-8A	2	250 mL Plastic	TP, TKN, NH4 ✓✓	H2SO4
	1335	S-8A	2	32 oz Plastic	NO2, NO3 ✓✓	NONE
	1335	S-8A	2	32 oz Plastic	TDN, TN, DIN, DON, POC, PON ✓✓	
7/13/06	0800	S-8B	1	500 mL Plastic	Cl, TDS	NONE
	0800	S-8B	1	100 mL Glass	Orthophosphate ✓	NONE
	0800	S-8B	1	1 Liter am plastic	Chlorophyll a ✓	NONE
	0800	S-8B	2	8oz Plastic	Boron ✓✓	HnO3
	0800	S-8B	2	250 mL Plastic	TP, TKN, NH4 ✓✓	H2SO4
	0800	S-8B	2	32 oz Plastic	NO2, NO3 ✓✓	NONE
	0800	S-8B	2	32 oz Plastic	TDN, TN, DIN, DON, POC, PON ✓✓	

Relinquished By: Date/Time

Kim Michaelis, 7/13/06 3:45

Received By: Date/Time:

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JUL 13 2006

TIME 3:50

entered 10/18/06

highlighted

entered 12/21/06



Barnstable County Health Laboratory

ANALYTICAL REPORT FOR Town of Plymouth DPW Environmental Management

Report Prepared for

Town of Plymouth DPW Environmental Management

Kim Michaelis

11 Lincoln St.

Plymouth, MA 02360

Order #: G0637450

No. of Samples: 21

Date Received: 8/7/2006

Corrected report

10/13/2006



CERTIFICATE OF ANALYSIS

Page: 1

Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-01

Description: Water - Surface Water

Sample #:

Sampling Location S-5B

Collected by: KM & DG

Collected: 8/7/2006

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
<i>LAB: IC Lab</i>								
Chlorides	30	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.074	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
<i>LAB: Inorganics</i>								
Ammonia as Nitrogen	0.056	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.19	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	0.020	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	0.70	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.058	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	8/14/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	98	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
<i>LAB: Metals</i>								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/11/2006	
<i>LAB: Organics</i>								
Chlorophyll A	2.7	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	2.4	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level



CERTIFICATE OF ANALYSIS

Page: 2

Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-02

Description: Water - Surface Water

Sample #:

Sampling Location S-17

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	22	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.070	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.025	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.22	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	0.011	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	0.90	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.042	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	8/14/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	70	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/11/2006	
LAB: Organics								
Chlorophyll A	6.0	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	2.4	mg/L	0.5		EPA 415.1	yn	8/11/2006	

L = Reporting Limit

ICL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

Page: 3

Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-03

Description: Water - Surface Water

Sample #:

Sampling Location S-4B

Collected by: KM & DG

Collected: 8/7/2006

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	18	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.060	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.049	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.12	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	BRL	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	0.80	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.042	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	8/14/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	22	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/11/2006	
LAB: Organics								
Chlorophyll A	70	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	2.8	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

Page: 4

Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-04

Description: Water - Surface Water

Sample #:

Sampling Location S-4A

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	18	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.060	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.16	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.12	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	BRL	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	1.3	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	1.3	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.14	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	1.5	mg/L	0.26		EPA 351.1	LAP	8/14/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	92	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	1.6	mg/L	0.26	1	Calculation	DCB	8/31/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/11/2006	
LAB: Organics								
Chlorophyll A	150	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	4.4	mg/L	0.5		EPA 415.1	yn	8/11/2006	

L = Reporting Limit

MCL = Maximum Contaminant Level



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-05

Description: Water - Surface Water

Sample #:

Sampling Location S-11

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	19	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.093	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.079	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.17	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	0.011	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	0.50	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.040	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	8/14/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	48	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	> MCL
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/11/2006	
LAB: Organics								
Chlorophyll A	2.9	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	2.2	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-06

Description: Water - Surface Water

Sample #:

Sampling Location S-15

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	19	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.14	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.020	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitrogen	0.20	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	BRL	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	0.60	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.044	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	8/14/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	96	mg/L	10		EPA 160.1	LAP	8/8/2006	
Total Nitrogen (TN)	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/11/2006	
LAB: Organics								
Chlorophyll A	3.1	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	2.3	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis
Town of Plymouth DPW Environmental Management
11 Lincoln St.
Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-07

Description: Water - Surface Water

Sample #:

Sampling Location S-16

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
<i>LAB: IC Lab</i>								
Chlorides	16	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.099	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
<i>LAB: Inorganics</i>								
Ammonia as Nitrogen	0.026	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.14	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	BRL	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	0.50	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.082	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	0.30	mg/L	0.26		EPA 351.1	LAP	8/14/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	64	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	0.40	mg/L	0.26	1	Calculation	DCB	8/31/2006	
<i>LAB: Metals</i>								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/11/2006	
<i>LAB: Organics</i>								
Chlorophyll A	1.8	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	2.3	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-08

Description: Water - Surface Water

Sample #:

Sampling Location S-18

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	29	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.068	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.083	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.20	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	0.084	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	2.8	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	5.6	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	2.6	mg/L	0.020		EPA 365.1	LAP	8/14/2006	
TKN	5.7	mg/L	0.26		EPA 351.1	LAP	8/14/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	52	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	5.8	mg/L	0.26	1	Calculation	DCB	8/31/2006	> MCL
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/11/2006	
LAB: Organics								
Chlorophyll A	56	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	17	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-09

Description: Water - Surface Water

Sample #:

Sampling Location S-3B

Collected by: KM & DG

Collected: 8/7/2006

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	20	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.14	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.078	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.22	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	BRL	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	BRL	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.038	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	8/14/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	60	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/11/2006	
LAB: Organics								
Chlorophyll A	2.9	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	1.8	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-10

Description: Water - Surface Water

Sample #:

Sampling Location S-3A

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	19	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.24	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.12	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitrogen	0.33	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	0.017	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	BRL	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.091	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	8/14/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	90	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/11/2006	
LAB: Organics								
Chlorophyll A	2.0	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	2.0	mg/L	0.5		EPA 415.1	yn	8/11/2006	

L = Reporting Limit

CL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-11

Description: Water - Surface Water

Sample #:

Sampling Location S-2C

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	18	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.079	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.092	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.11	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	BRL	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	0.50	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.040	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	8/15/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	34	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/14/2006	
LAB: Organics								
Chlorophyll A	10	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	1.8	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-12

Description: Water - Surface Water

Sample #:

Sampling Location S-2B

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	18	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.060	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.050	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.90	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	BRL	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	0.50	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.032	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	8/15/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	32	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/14/2006	
LAB: Organics								
Chlorophyll A	11	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	1.9	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-13

Description: Water - Surface Water

Sample #:

Sampling Location S-1

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	32	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.34	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.45	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.41	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	0.011	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	1.1	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	3.1	mg/L	0.26	1	Calculation	DCB	8/31/2006	> MCL
Phosphorus - Total	1.0	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	3.6	mg/L	0.26		EPA 351.1	LAP	8/15/2006	
Total Dissolved Nitrogen (T	0.34	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	110	mg/L	10		EPA 160.1	LAP	8/8/2006	
Total Nitrogen (TN)	3.9	mg/L	0.26	1	Calculation	DCB	8/31/2006	> MCL
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/14/2006	
LAB: Organics								
Chlorophyll A	24	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	5.3	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-14

Description: Water - Surface Water

Sample #:

Sampling Location S-9A

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	37	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.41	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.089	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.48	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	0.42	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	BRL	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	1.9	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.040	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	8/15/2006	
Total Dissolved Nitrogen (T	0.87	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	130	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	0.41	mg/L	0.26	1	Calculation	DCB	8/31/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/14/2006	
LAB: Organics								
Chlorophyll A	0.50	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	1.9	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-15

Description: Water - Surface Water

Sample #:

Sampling Location S-6B

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	14	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.24	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.095	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.30	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	0.014	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	BRL	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.049	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	8/15/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	46	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/14/2006	
LAB: Organics								
Chlorophyll A	0.70	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	1.5	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, P.O. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-16

Description: Water - Surface Water

Sample #:

Sampling Location S-6A

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	15	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.24	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.038	mg/L	0.020		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.30	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	1.1	mg/L	0.26	1	Calculation	DCB	8/31/2006	> MCL
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	0.012	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	BRL	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.058	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	8/15/2006	
Total Dissolved Nitrogen (T	0.36	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	76	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/14/2006	
LAB: Organics								
Chlorophyll A	3.4	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	1.6	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-17

Description: Water - Surface Water

Sample #:

Sampling Location S-12

Collected by: KM & DG

Collected: 8/7/2006

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	13	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.24	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.038	mg/L	0.010		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.38	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	BRL	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	BRL	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.046	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	8/15/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	34	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/14/2006	
LAB: Organics								
Chlorophyll A	0.80	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	1.6	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-21

Description: Water - Surface Water

Sample #:

Sampling Location S-8B

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Nitrate as Nitrogen	0.12	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.13	mg/L	0.010		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitrogen	0.15	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	0.040	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	BRL	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.048	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	8/16/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Nitrogen (TN)	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
LAB: Organics								
Chlorophyll A	BRL	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	BRL	mg/L	0.5		EPA 415.1	yn	8/11/2006	

Approved By:

(Lab Director)

10/25/06

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-20

Description: Water - Surface Water

Sample #:

Sampling Location S-8A

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

ITEM	RESULT	UNITS	RL	MCL	Method #	Analyst	Tested	Note
LAB: IC Lab								
Chlorides	11	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.11	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.083	mg/L	0.010		EPA 350.1	DCB	8/16/2006	
Dissolved Inorganic Nitroge	0.13	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	0.010	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	0.60	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	1.2	mg/L	0.26	1	Calculation	DCB	8/31/2006	> MCL
Phosphorus - Total	0.048	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	1.3	mg/L	0.26		EPA 351.1	LAP	8/15/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	38	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	1.4	mg/L	0.26	1	Calculation	DCB	8/31/2006	> MCL
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/14/2006	
LAB: Organics								
Chlorophyll A	46	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	1.9	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-19

Description: Water - Surface Water

Sample #:

Sampling Location S-14

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	11	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.091	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.11	mg/L	0.010		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.18	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	BRL	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	1.2	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	1.2	mg/L	0.26	1	Calculation	DCB	8/31/2006	> MCL
Phosphorus - Total	0.093	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	1.3	mg/L	0.26		EPA 351.1	LAP	8/15/2006	
Total Dissolved Nitrogen (T	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	66	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	1.4	mg/L	0.26	1	Calculation	DCB	8/31/2006	> MCL
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/14/2006	
LAB: Organics								
Chlorophyll A	69	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	2.6	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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CERTIFICATE OF ANALYSIS

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Barnstable County Health Laboratory

Report Dated: 10/25/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0637450

Laboratory ID #: 0637450-18

Description: Water - Surface Water

Sample #:

Sampling Location S-13

Collected: 8/7/2006

Collected by: KM & DG

Received: 8/7/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Analyst</u>	<u>Tested</u>	<u>Note</u>
LAB: IC Lab								
Chlorides	14	mg/L	1.0		EPA 300.0	LAP	8/7/2006	
Nitrate as Nitrogen	0.31	mg/L	0.0050	10	SM 4500-NO3 F	LAP	8/9/2006	
LAB: Inorganics								
Ammonia as Nitrogen	0.033	mg/L	0.010		EPA 350.1	DCB	8/15/2006	
Dissolved Inorganic Nitroge	0.39	mg/L	0.011	1	Calculation	DCB	8/31/2006	
Dissolved Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Nitrite as Nitrogen	BRL	mg/L	0.0037	1.0	SM 4500-NO3 F	LAP	8/8/2006	
ortho-Phosphate as Phospho	BRL	mg/L	0.010		EPA 365.1	DCB	8/9/2006	
Particulate Organic Carbon	BRL	mg/L	0.50		Calculation	DCB	8/17/2006	
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Phosphorus - Total	0.031	mg/L	0.010		EPA 365.1	LAP	8/14/2006	
TKN	BRL	mg/L	0.26		EPA 351.1	LAP	8/15/2006	
Total Dissolved Nitrogen (T	0.31	mg/L	0.26	1	Calculation	DCB	8/31/2006	
Total Dissolved Solids	60	mg/L	10		EPA 160.1	LAP	8/7/2006	
Total Nitrogen (TN)	0.31	mg/L	0.26	1	Calculation	DCB	8/31/2006	
LAB: Metals								
Boron	BRL	mg/L	0.01		EPA 200.7	TFB	8/14/2006	
LAB: Organics								
Chlorophyll A	5.4	ug/L	0.1		10200H3-C	yn	8/9/2006	
TOC	1.6	mg/L	0.5		EPA 415.1	yn	8/11/2006	

RL = Reporting Limit

MCL = Maximum Contaminant Level

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Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:
Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River
Project Site: Eel River, Plymouth
Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/7/06	0805	S-5B	1	250mL Plastic	TDN, TN ✓	NONE p
		S-5B	1	250 mL Plastic	Boron ✓	HnO3 p
		S-5B	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4 p
		S-5B	1	500 mL Plastic	Cl, TDS ✓	NONE
		S-5B	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE p
		S-5B	1	1 Liter blk plastic	Chlorophyll a ✓	NONE (pmt)
8/7/06	0815	S-17	1	250mL Plastic	TDN, TN ✓	NONE
		S-17	1	250 mL Plastic	Boron ✓	HnO3
		S-17	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
		S-17	1	500 mL Plastic	Cl, TDS ✓	NONE
		S-17	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
		S-17	1	1 Liter blk plastic	Chlorophyll a ✓	NONE

Relinquished By: Date/Time

Kim Michaelis

Received By: Date/Time:

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AUG 07 2006

TIME 3:00

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/7/06	0830	S-4B	1	250mL Plastic	TDN, TN ✓	NONE
↓	↓	S-4B	1	250 mL Plastic	Boron ✓	HnO3
↓	↓	S-4B	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
↓	↓	S-4B	1	500 mL Plastic	Cl, TDS ✓	NONE
↓	↓	S-4B	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
↓	↓	S-4B	1	1 Liter blk plastic	Chlorophyll a ✓	NONE
8/7/06	0835	S-4A	1	250mL Plastic	TDN, TN ✓	NONE
↓	↓	S-4A	1	250 mL Plastic	Boron ✓	HnO3
↓	↓	S-4A	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
↓	↓	S-4A	1	500 mL Plastic	Cl, TDS ✓	NONE
↓	↓	S-4A	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
↓	↓	S-4A	1	1 Liter blk plastic	Chlorophyll a ✓	NONE

Relinquished By: Date/Time

Kim Michaelis

Received By: Date/Time:

DMF RECEIVED

AUG 07 2006

TIME 3:00

Laboratory:

Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/7/06	0845	S-11	1	250mL Plastic	TDN, TN ✓	NONE
↓	↓	S-11	1	250 mL Plastic	Boron ✓	HnO3
↓	↓	S-11	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
↓	↓	S-11	1	500 mL Plastic	Cl, TDS ✓	NONE
↓	↓	S-11	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
↓	↓	S-11	1	1 Liter blk plastic	Chlorophyll a ✓	NONE
8/7/06	0855	S-15	1	250mL Plastic	TDN, TN ✓	NONE
↓	↓	S-15	1	250 mL Plastic	Boron ✓	HnO3
↓	↓	S-15	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
↓	↓	S-15	1	500 mL Plastic	Cl, TDS ✓	NONE
↓	↓	S-15	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
↓	↓	S-15	1	1 Liter blk plastic	Chlorophyll a ✓	NONE

Relinquished By: Date/Time

Kim Michaelis

Received By: Date/Time:

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AUG 07 2006

TIME 3:00

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/7/06	0903	S-16	1	250mL Plastic	TDN, TN ✓	NONE
↓	↓	S-16	1	250 mL Plastic	Boron ✓	HnO3
↓	↓	S-16	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
↓	↓	S-16	1	500 mL Plastic	Cl, TDS ✓	NONE
↓	↓	S-16	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
↓	↓	S-16	1	1 Liter blk plastic	Chlorophyll a ✓	NONE
8/7/06	0910	S-18	1	250mL Plastic	TDN, TN ✓	NONE
↓	↓	S-18	1	250 mL Plastic	Boron ✓	HnO3
↓	↓	S-18	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
↓	↓	S-18	1	500 mL Plastic	Cl, TDS ✓	NONE
↓	↓	S-18	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
↓	↓	S-18	1	1 Liter blk plastic	Chlorophyll a ✓	NONE

Relinquished By: Date/Time

Kim Michaelis

Received By: Date/Time:

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TIME

3:10

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Note: S-3A is actually
S-3B. S-3B is S-3A.
Note this when entering
data. Loc IDs were
accidentally switched

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/7/06	0934	S-3B	1	250mL Plastic	TDN, TN ✓	NONE
		S-3B	1	250 mL Plastic	Boron ✓	HnO3
		S-3B	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
		S-3B	1	500 mL Plastic	Cl, TDS ✓	NONE
		S-3B	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
		S-3B	1	1 Liter blk plastic	Chlorophyll a ✓	NONE
8/7/06	0940	S-3A	1	250mL Plastic	TDN, TN ✓	NONE
		S-3A	1	250 mL Plastic	Boron ✓	HnO3
		S-3A	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
		S-3A	1	500 mL Plastic	Cl, TDS ✓	NONE
		S-3A	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
		S-3A	1	1 Liter blk plastic	Chlorophyll a ✓	NONE

Relinquished By: Date/Time

Kim Michaelis

Received By: Date/Time:

CMF RECEIVED

AUG 07 2006

TIME 3:00

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:
Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River
Project Site: Eel River, Plymouth
Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
		S-2A	1	250mL Plastic	TDN, TN	NONE
		S-2A	1	250 mL Plastic	Boron	HnO3
		S-2A	1	500 mL Plastic	TP, NH4, TKN, TOC	H2SO4
		S-2A	1	500 mL Plastic	Cl, TDS	NONE
		S-2A	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN	NONE
		S-2A	1	1 Liter blk plastic	Chlorophyll a	NONE
8/7/06	1035	S-2C	1	250mL Plastic	TDN, TN ✓	NONE
		S-2C	1	250 mL Plastic	Boron ✓	HnO3
		S-2C	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
		S-2C	1	500 mL Plastic	Cl, TDS ✓	NONE
		S-2C	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
		S-2C	1	1 Liter blk plastic	Chlorophyll a ✓	NONE

Relinquished By: Date/Time

Kim Michaelis

Received By: Date/Time:
CMF RECEIVED

AUG 07 2006

TIME 2:00

Laboratory:
 Barnstable County Department of Health and the Environment
 Superior Court House, PO Box 427, Barnstable, MA 02630
 508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
 11 Lincoln Street, Plymouth, MA 02360
 508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/7/06	1045	S-2B	1	250mL Plastic	TDN, TN ✓	NONE
↓	↓	S-2B	1	250 mL Plastic	Boron ✓	HnO3
↓	↓	S-2B	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
↓	↓	S-2B	1	500 mL Plastic	Cl, TDS ✓	NONE
↓	↓	S-2B	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
↓	↓	S-2B	1	1 Liter blk plastic	Chlorophyll a ✓	NONE
8/7/06	1115	S-1	1	250mL Plastic	TDN, TN ✓	NONE
↓	↓	S-1	1	250 mL Plastic	Boron ✓	HnO3
↓	↓	S-1	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
↓	↓	S-1	1	500 mL Plastic	Cl, TDS ✓	NONE
↓	↓	S-1	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
↓	↓	S-1	1	1 Liter blk plastic	Chlorophyll a ✓	NONE

Relinquished By: Date/Time

Kim Michaelis

Received By: Date/Time:

CMF RECEIVED

AUG 07 2006

TIME 3:00

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:
Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River
Project Site: Eel River, Plymouth
Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/7/06	1055	S-9A	1	250mL Plastic	TDN, TN ✓	NONE
		S-9A	1	250 mL Plastic	Boron ✓	HnO3
		S-9A	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
		S-9A	1	500 mL Plastic	Cl, TDS ✓	NONE
		S-9A	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
		S-9A	1	1 Liter blk plastic	Chlorophyll a ✓	NONE
8/7/06	1145	S-6B	1	250mL Plastic	TDN, TN ✓	NONE
		S-6B	1	250 mL Plastic	Boron ✓	HnO3
		S-6B	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
		S-6B	1	500 mL Plastic	Cl, TDS ✓	NONE
		S-6B	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
		S-6B	1	1 Liter blk plastic	Chlorophyll a ✓	NONE

Relinquished By: Date/Time

Kim Michaelis

Received By: Date/Time:

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Laboratory:
 Barnstable County Department of Health and the Environment
 Superior Court House, PO Box 427, Barnstable, MA 02630
 508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
 11 Lincoln Street, Plymouth, MA 02360
 508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/7/06	1135	S-6A	1	250mL Plastic	TDN, TN ✓	NONE
		S-6A	1	250 mL Plastic	Boron ✓	HnO3
		S-6A	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
		S-6A	1	500 mL Plastic	Cl, TDS ✓	NONE
		S-6A	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, ✓ PON, DON, DIN	NONE
		S-6A	1	1 Liter blk plastic	Chlorophyll a ✓	NONE
8/7/06	1205	S-12	1	250mL Plastic	TDN, TN ✓	NONE
		S-12	1	250 mL Plastic	Boron ✓	HnO3
		S-12	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
		S-12	1	500 mL Plastic	Cl, TDS ✓	NONE
		S-12	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, ✓ PON, DON, DIN	NONE
		S-12	1	1 Liter blk plastic	Chlorophyll a ✓	NONE

Relinquished By: Date/Time

Kim Michaelis

Received By: Date/Time:

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TIME 3:00

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/7/06	1240	S-13	1	250mL Plastic	TDN, TN ✓	NONE
		S-13	1	250 mL Plastic	Boron ✓	HnO3
		S-13	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
		S-13	1	500 mL Plastic	Cl, TDS ✓	NONE
		S-13	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
		S-13	1	1 Liter blk plastic	Chlorophyll a ✓	NONE
8/7/06	1250	S-14	1	250mL Plastic	TDN, TN ✓	NONE
		S-14	1	250 mL Plastic	Boron ✓	HnO3
		S-14	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
		S-14	1	500 mL Plastic	Cl, TDS ✓	NONE
		S-14	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
		S-14	1	1 Liter blk plastic	Chlorophyll a ✓	NONE

Relinquished By: Date/Time

Kim Michaelis

Received By: Date/Time:
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TIME 3:00

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:
Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Surface Water - Eel River
Project Site: Eel River, Plymouth
Sampler: Kim Michaelis (KM), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/7/06	1255	S-8A	1	250mL Plastic	TDN, TN ✓	NONE
		S-8A	1	250 mL Plastic	Boron ✓	HnO3
		S-8A	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
		S-8A	1	500 mL Plastic	Cl, TDS ✓	NONE
		S-8A	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
		S-8A	1	1 Liter blk plastic	Chlorophyll a ✓	NONE
8/7/06	0800	S-8B	1	250mL Plastic	TDN, TN ✓	NONE
		S-8B	1	250 mL Plastic	Boron ✓	HnO3
	0800	S-8B	1	500 mL Plastic	TP, NH4, TKN, TOC ✓	H2SO4
		S-8B	1	500 mL Plastic	Cl, TDS ✓	NONE
	0800	S-8B	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN ✓	NONE
	0800	S-8B	1	1 Liter blk plastic	Chlorophyll a ✓	NONE

Relinquished By: Date/Time

Kim Michaelis

Received By: Date/Time:

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AUG 07 2006

TIME 3:00

entered 12/20/06



Barnstable County Health Laboratory

ANALYTICAL REPORT FOR Town of Plymouth DPW Environmental Management

Report Prepared for:

Town of Plymouth DPW Environmental Management

Kim Michaelis

11 Lincoln St.

Plymouth, MA 02360

Order #: G0638070

No. of Samples: 2

Date Received: 8/31/2006

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605

09/26/2006



CERTIFICATE OF ANALYSIS

Barnstable County Health Laboratory

Report Dated: 9/26/2006

Page: 1 ✓

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0638070

Laboratory ID #: 0638070-01

Description: Water - Surface Water

11:35

Sample #: S-7

Sampling Location: S-7

Collected: 8/31/2006

Collected by: K. Michaelis

Received: 8/31/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Nitrate as Nitrogen	BRL	mg/L	0.0050	10	SM 4500-NO3 F	9/1/2006
LAB: Inorganics						
Ammonia as Nitrogen	0.066	mg/L	0.011		EPA 350.1	9/7/2006
Dissolved Inorganic Nitrogen	BRL	mg/L	0.26	1	SM 4500_NH3-H	9/11/2006
Dissolved Organic Nitrogen	0.41	mg/L	0.26	1	Calculation	9/11/2006
Nitrite as Nitrogen	BRL	mg/L	0.0010	1.0	SM 4500-NO3 F	9/1/2006
ortho-Phosphate as Phospho	0.080	mg/L	0.010		EPA 365.1	9/1/2006
Particulate Organic Carbon	BRL	mg/L	0.50		Calculation	9/18/2006
Particulate Organic Nitrogen	BRL	mg/L	0.26	1	Calculation	9/11/2006
Phosphorus - Total	0.043	mg/L	0.010		EPA 365.1	9/6/2006
TKN	0.55	mg/L	0.26		EPA 351.1	9/5/2006
Total Dissolved Nitrogen (T	0.44	mg/L	0.26	1	EPA 353.2/351.2	9/7/2006
Total Nitrogen (TN)	0.55	mg/L	0.26	1	Calculation	9/7/2006
LAB: Organics						
TOC	BRL	mg/L	0.50		EPA 415.1	9/7/2006

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, PO. Box 427, Barnstable, MA 02630 Ph: 508-375-6605



CERTIFICATE OF ANALYSIS

Page: 2

Barnstable County Health Laboratory

Report Dated: 9/26/2006

Report Prepared For:

Kim Michaelis

Town of Plymouth DPW Environmental Management

11 Lincoln St.

Plymouth, MA 02360

Order No.: G0638070

Laboratory ID #: 0638070-02

Description: Water - Surface Water

11:20

Sample #: S-10

Sampling Location: S-10

Collected: 8/31/2006

Collected by: K. Michaelis

Received: 8/31/2006

Test Parameters

<u>ITEM</u>	<u>RESULT</u>	<u>UNITS</u>	<u>RL</u>	<u>MCL</u>	<u>Method #</u>	<u>Tested</u>
LAB: IC Lab						
Nitrate as Nitrogen	BRL	mg/L	0.0050	10	SM 4500-NO3 F	9/1/2006
LAB: Inorganics						
Ammonia as Nitrogen	0.043	mg/L	0.011		EPA 350.1	9/7/2006
Dissolved Inorganic Nitroge	BRL	mg/L	0.26	1	SM 4500_NH3-H	9/11/2006
Dissolved Organic Nitrogen	0.34	mg/L	0.26	1	Calculation	9/11/2006
Nitrite as Nitrogen	BRL	mg/L	0.0010	1.0	SM 4500-NO3 F	9/1/2006
ortho-Phosphate as Phospho	0.080	mg/L	0.010		EPA 365.1	9/1/2006
Particulate Organic Carbon	0.60	mg/L	0.50		Calculation	9/18/2006
Particulate Organic Nitroge	BRL	mg/L	0.26	1	Calculation	9/11/2006
Phosphorus - Total	0.040	mg/L	0.010		EPA 365.1	9/6/2006
TKN	0.41	mg/L	0.26		EPA 351.1	9/5/2006
Total Dissolved Nitrogen (T	0.49	mg/L	0.26	1	EPA 353.2/351.2	9/5/2006
Total Nitrogen (TN)	0.41	mg/L	0.26	1	Calculation	9/7/2006
LAB: Organics						
TOC	0.60	mg/L	0.50		EPA 415.1	9/7/2006

Approved By: *Gongmin Lei*

(Lab Director)

10/6/2006

ORIGINAL

RL = Reporting Limit

MCL = Maximum Contaminant Level

Superior Court House, P.O. Box 427, Barnstable, MA 02630 Ph: 508-375-6605

Laboratory:
Barnstable County Department of Health and the Environment
Superior Court House, PO Box 427, Barnstable, MA 02630
508-375-6605;6612

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360
508-747-1620 x198

Project Name: Harbor Sampling - Eel River

Project Site: Eel River, Plymouth

Sampler: Kim Michaelis (KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
08/31/06	1135	S-7	1	250mL Plastic	TDN, TN	NONE P
08/31/06	1135	S-7	1	500 mL Plastic	TP, NH4, TKN, TOC	H2SO4 P
08/31/06	1135	S-7	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN	NONE P
08/31/06	1120	S-10	1	250mL Plastic	TDN, TN	NONE P
08/31/06	1120	S-10	1	500 mL Plastic	TP, NH4, TKN, TOC	H2SO4 P
08/31/06	1120	S-10	1	1 Liter Plastic	Orthophosphate, NO2, NO3, POC, PON, DON, DIN	NONE P

Relinquished By: Date/Time

Kim Michaelis 8/31/06 12:30

Received By: Date/Time:

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AUG 31 2006

TIME 12:33

ANALYTICAL REPORT

Thursday, August 27, 2009

Kim Michaelis
Town of Plymouth
11 Lincoln Street
Plymouth, MA 02360

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

TEL: (508) 747-1620
FAX: (508) 830-4081

Project: Surface Water
Location: Eel River, Plymouth, MA

Order No.: 0609186

Dear Kim Michaelis:

GeoLabs, Inc. received 20 sample(s) on 9/19/2006 for the analyses presented in the following report.

Re-issued report with lower detection limit for Total Phosphorus. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Charles Morrow
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - NJ (MA009) - NY (11796) - RI (LA000252)

Accredited in Accordance with NELAC

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

Lab ID: 0609186-002

Collection Date: 9/19/2006 8:55:00 AM

Client Sample ID: S-5B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	70.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	ND	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	43.9	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.86	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	0.0227	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.788	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.799	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank BRL Below Reporting Limit
E Value above quantitation range H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit
S Spike Recovery outside recovery limits

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 29-Sep-06**CLIENT:** Town of Plymouth
Project: Surface Water**Lab Order:** 0609186**PON-SM4500-NH3-B,C, SM4500-NORG-B,C**

Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen 1.7 0.13 mg/L 1 9/25/2006

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous ND 0.0400 mg/L 1 9/27/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth Lab Order: 0609186
Project: Surface Water

Lab ID: 0609186-003 Collection Date: 9/19/2006 9:20:00 AM
Client Sample ID: S-17 Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	55.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	0.131	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	39.6	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.90	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	0.0244	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.806	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.793	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank BRL Below Reporting Limit
E Value above quantitation range H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits ND Not Detected at the Reporting Limit
S Spike Recovery outside recovery limits

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 29-Sep-06**CLIENT:** Town of Plymouth
Project: Surface Water**Lab Order:** 0609186**PON-SM4500-NH3-B,C, SM4500-NORG-B,C**

Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen 1.8 0.13 mg/L 1 9/25/2006

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous ND 0.0400 mg/L 1 9/27/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

Lab ID: 0609186-004

Collection Date: 9/19/2006 9:40:00 AM

Client Sample ID: S-4B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	60.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	ND	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	42.1	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.93	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.792	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.522	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 29-Sep-06**CLIENT:** Town of Plymouth
Project: Surface Water**Lab Order:** 0609186**PON-SM4500-NH3-B,C, SM4500-NORG-B,C**

Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen 1.4 0.13 mg/L 1 9/25/2006

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous ND 0.0400 mg/L 1 9/27/2006

Qualifiers:
B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

Lab ID: 0609186-005

Collection Date: 9/19/2006 9:50:00 AM

Client Sample ID: S-4A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	71.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	ND	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	34.9	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.83	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	0.0223	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.685	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.489	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen	1.3	0.13	mg/L	1	9/25/2006
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	ND	0.0400	mg/L	1	9/27/2006
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Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

Lab ID: 0609186-006

Collection Date: 9/19/2006 10:05:00 AM

Client Sample ID: S-11

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	102	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	ND	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	21.0	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.16	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	ND	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	0.0486	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.898	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 29-Sep-06**CLIENT:** Town of Plymouth
Project: Surface Water**Lab Order:** 0609186**PON-SM4500-NH3-B,C, SM4500-NORG-B,C**

Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen 1.0 0.13 mg/L 1 9/25/2006

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.0820 0.0400 mg/L 1 9/27/2006

Qualifiers:
B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

Lab ID: 0609186-007

Collection Date: 9/19/2006 10:25:00 AM

Client Sample ID: S-15

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	48.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	ND	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	34.2	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	1.1	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	0.164	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.943	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.639	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen	1.7	0.13	mg/L	1	9/25/2006
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	ND	0.0400	mg/L	1	9/27/2006
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Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

Lab ID: 0609186-008

Collection Date: 9/19/2006 10:40:00 AM

Client Sample ID: S-16

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	59.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	ND	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	18.5	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.29	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.0307	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.974	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 29-Sep-06**CLIENT:** Town of Plymouth
Project: Surface Water**Lab Order:** 0609186**PON-SM4500-NH3-B,C, SM4500-NORG-B,C**

Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen 1.1 0.13 mg/L 1 9/25/2006

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous ND 0.0400 mg/L 1 9/27/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water
Lab Order: 0609186

Lab ID: 0609186-009
Collection Date: 9/19/2006 10:50:00 AM
Client Sample ID: S-18
Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	69.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	ND	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	44.2	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.74	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	0.0247	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.605	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	0.0345	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	1.11	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 29-Sep-06**CLIENT:** Town of Plymouth
Project: Surface Water**Lab Order:** 0609186**PON-SM4500-NH3-B,C, SM4500-NORG-B,C**Analyst: **RP****TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst: **RP**

Total Dissolved Nitrogen 1.3 0.13 mg/L 1 9/25/2006

TOTAL PHOSPHOROUS - L10-115-01-1EAnalyst: **RP**

Total Phosphorous ND 0.0400 mg/L 1 9/27/2006

Qualifiers:
B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water
Lab Order: 0609186

Lab ID: 0609186-010
Collection Date: 9/19/2006 11:10:00 AM
Client Sample ID: S-19
Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	95.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	ND	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	26.5	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.77	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.629	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.995	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09**Original Reported Date:** 29-Sep-06**CLIENT:** Town of Plymouth
Project: Surface Water**Lab Order:** 0609186**PON-SM4500-NH3-B,C, SM4500-NORG-B,C**

Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen 1.7 0.13 mg/L 1 9/25/2006

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.0607 0.0400 mg/L 1 9/27/2006

Qualifiers:
B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

Lab ID: 0609186-011

Collection Date: 9/19/2006 11:20:00 AM

Client Sample ID: S-20

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	54.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	ND	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	41.4	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.59	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.503	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.782	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen	1.4	0.13	mg/L	1	9/25/2006
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	ND	0.0400	mg/L	1	9/27/2006
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Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

Lab ID: 0609186-012

Collection Date: 9/19/2006 11:40:00 AM

Client Sample ID: S-3B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	88.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	0.137	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	21.3	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.83	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.717	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.913	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen	1.8	0.13	mg/L	1	9/25/2006
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	ND	0.0400	mg/L	1	9/27/2006
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Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

Lab ID: 0609186-013

Collection Date: 9/19/2006 11:50:00 AM

Client Sample ID: S-25

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	64.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	ND	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	21.3	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.23	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.0860	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	1.01	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 29-Sep-06**CLIENT:** Town of Plymouth
Project: Surface Water**Lab Order:** 0609186**PON-SM4500-NH3-B,C, SM4500-NORG-B,C**Analyst: **RP****TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst: **RP**

Total Dissolved Nitrogen 1.2 0.13 mg/L 1 9/25/2006

TOTAL PHOSPHOROUS - L10-115-01-1EAnalyst: **RP**

Total Phosphorous ND 0.0400 mg/L 1 9/27/2006

Qualifiers:
B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

Lab ID: 0609186-014

Collection Date: 9/19/2006 12:05:00 PM

Client Sample ID: S-24

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	55.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	0.131	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	21.2	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.21	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.0911	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.949	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 29-Sep-06**CLIENT:** Town of Plymouth
Project: Surface Water**Lab Order:** 0609186**PON-SM4500-NH3-B,C, SM4500-NORG-B,C**

Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen 1.2 0.13 mg/L 1 9/25/2006

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous ND 0.0400 mg/L 1 9/27/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

Lab ID: 0609186-015

Collection Date: 9/19/2006 12:20:00 PM

Client Sample ID: S-23

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	55.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	ND	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	21.0	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.22	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.0895	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.950	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT:	Town of Plymouth	Lab Order:	0609186
Project:	Surface Water		

PON-SM4500-NH3-B,C, SM4500-NORG-B,C Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen	1.2	0.13	mg/L	1	9/25/2006
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	0.0888	0.0400	mg/L	1	9/27/2006
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Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	II	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water
Lab Order: 0609186

Lab ID: 0609186-016
Collection Date: 9/19/2006 12:35:00 PM
Client Sample ID: S-3A
Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	50.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	ND	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	21.2	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.29	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.102	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	1.54	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT:	Town of Plymouth	Lab Order:	0609186
Project:	Surface Water		

PON-SM4500-NH3-B,C, SM4500-NORG-B,C Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR Analyst: RP
Total Dissolved Nitrogen 1.8 0.13 mg/L 1 9/25/2006TOTAL PHOSPHOROUS - L10-115-01-1E Analyst: RP
Total Phosphorous ND 0.0400 mg/L 1 9/27/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

Lab ID: 0609186-017

Collection Date: 9/19/2006 1:35:00 PM

Client Sample ID: S-2C

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	93.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	ND	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	19.8	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.22	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	ND	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT:	Town of Plymouth	Lab Order:	0609186
Project:	Surface Water		

PON-SM4500-NH3-B,C, SM4500-NORG-B,C Analyst: RP**TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR** Analyst: RP
Total Dissolved Nitrogen 1.3 0.13 mg/L 1 9/25/2006**TOTAL PHOSPHOROUS - L10-115-01-1E** Analyst: RP
Total Phosphorous ND 0.0400 mg/L 1 9/27/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

Lab ID: 0609186-018

Collection Date: 9/19/2006 1:50:00 PM

Client Sample ID: S-2B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	52.0	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	ND	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	19.6	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	1.6	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	1.45	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.930	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 29-Sep-06**CLIENT:** Town of Plymouth
Project: Surface Water**Lab Order:** 0609186**PON-SM4500-NH3-B,C, SM4500-NORG-B,C**

Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen 2.5 0.13 mg/L 1 9/25/2006

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous ND 0.0400 mg/L 1 9/27/2006

Qualifiers:
B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water
Lab Order: 0609186

Lab ID: 0609186-019
Collection Date: 9/19/2006 2:05:00 PM
Client Sample ID: S-1
Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	116	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	0.193	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	36.3	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.42	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	0.306	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.306	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	0.0266	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.977	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits
BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT:	Town of Plymouth	Lab Order:	0609186
Project:	Surface Water		

PON-SM4500-NH3-B,C, SM4500-NORG-B,C Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR Analyst: RP
Total Dissolved Nitrogen 1.5 0.13 mg/L 1 9/25/2006TOTAL PHOSPHOROUS - L10-115-01-1E Analyst: RP
Total Phosphorous 0.107 0.0400 mg/L 1 9/27/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 29-Sep-06

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0609186

Lab ID: 0609186-020

Collection Date: 9/19/2006 2:30:00 PM

Client Sample ID: S-9A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	119	5.00		mg/L	1	9/20/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/20/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: ML
Ammonia (as N)	0.193	0.130		mg/L	1	9/20/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	39.3	1.50		mg/L	1	9/20/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: ML
Dissolved Inorganic Nitrogen	0.45	0.059		mg/L	1	9/21/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/20/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.247	0.0257		mg/L	1	9/20/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.937	0.130		mg/L	1	9/25/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/25/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 29-Sep-06**CLIENT:** Town of Plymouth
Project: Surface Water**Lab Order:** 0609186**PON-SM4500-NH3-B,C, SM4500-NORG-B,C**

Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen 1.4 0.13 mg/L 1 9/25/2006

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous ND 0.0400 mg/L 1 9/27/2006

Qualifiers:
B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0609186 (SR)

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/

Project Name: **Surface Water** - Eel River, Plymouth MA

Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/19/06	0845	S-8B	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4
9/19/06	0855	S-5B	2	Vials	POC	NONE NCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4

Relinquished By: Date/Time

Kim Michaelis 9/19/06 1515
Kerin McCall 9/19/06 4:12

Received By: Date/Time:

Danielle Pega 9/19/06 3:20
Danielle Pega 9/19/06 4:10p

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0609186 @

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/

11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/

Project Name: Surface Water - Eel River, Plymouth MA

Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/19/06	0920	S-17	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4
9/19/06	0940	S-4B	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4

Relinquished By: Date/Time

Kim Michaelis 9/19/06 1515
Kerin McCall 9/19/06 4:10

Received By: Date/Time:

Kerin McCall 9/19/06 3:20
Danielle Rogn 9/19/06 4:10p

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0609186 (DR)

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: **Surface Water** - Eel River, Plymouth MA
Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/19/06	0950	S-4A	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4
9/19/06	1005	S-11	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4

Relinquished By: Date/Time

Kim Michaelis 9/19/06 1515
Kerin McCall 9/19/06 4:10

Received By: Date/Time:

Sam McCall 9/19/06 3:20
Danielle Rega 9/19/06 4:10p

8

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0609186 DR

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: **Surface Water** - Eel River, Plymouth MA
Sampler: Kim Michaelis (KM), Kerin McCall(KM)

9186-0075

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
09/19/06	1025	S-15	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4
9/19/06	1040	S-16	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4

9186-008

Relinquished By: Date/Time

Kim Michaelis 9/19/06 1515
Kerin McCall 9/19/06 4:10

Received By: Date/Time:

Kerin McCall 9/19/06 3:20
Danielle Page 9/19/06 4:10

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0609186 DR

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: **Surface Water** - Eel River, Plymouth MA
Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
09/19/06	1050	S-18	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4
9/19/06	1110	S-19	2	Vials	POC	NONE HCL
	1110		1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4

9186-009

9186-010

Relinquished By: Date/Time

Kim Michaelis 9/19/06 1515
Kerin McCall 9/19/06 4:10

Received By: Date/Time:

Kerin McCall 9/19/06 3:20
Danielle Rega 9/19/06 4:10p

8

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0609186 (SR)

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: Surface Water - Eel River, Plymouth MA
Sampler: Kim Michaelis (KM), Kerin McCall(KM)

9186-013

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/19/06	1150	S-25	2	Vials	POC	NONE NCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4
9/19/06	1205	S-24	2	Vials	POC	NONE NCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4

9186-014

Relinquished By: Date/Time

Kim Michaelis 9/19/06 1:55
Kerin McCall 9/19/06 4:10

Received By: Date/Time:

Kerin McCall 9/19/06 3:20
Danielle Rega 9/19/06 4:10

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0609186 DR

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/

11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/

Project Name: **Surface Water - Eel River, Plymouth MA**

Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/19/06	1220	S-23	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4
9/19/06	1235	S-3A	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4

Relinquished By: Date/Time

Kim Michaelis 9/19/06 1:51P
Kerin McCall 9/19/06 4:10P

Received By: Date/Time:

Kerin McCall 9/19/06 3:20
Danielle Page 9/19/06 4:10P

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0609186 (02)

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: **Surface Water - Eel River, Plymouth MA**
Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/19/06	1335	S-2C	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4
9/19/06	1350	S-2B	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4

9186-017

9186-018

Relinquished By: Date/Time

Kim Michaelis 9/19/06 1515
Kerin McCall 9/19/06 4:10

Received By: Date/Time:

Kim Michaelis 9/19/06 3:20
Danielle Paga 9/19/06 4:10p

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0609186 02

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: Surface Water - Eel River, Plymouth MA
Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
09/19/06	1405	S-1	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4
09/19/06	1430	S-9A	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4

Relinquished By: Date/Time

Kim Michaelis 9/19/06 1515
Kerin McCall 9/19/06 4:30

Received By: Date/Time:

Kim Michaelis 9/19/06 3:20
Stanille Rega 9/19/06 4:10

ANALYTICAL REPORT

Thursday, August 27, 2009

Kim Michaelis
Town of Plymouth
11 Lincoln Street
Plymouth, MA 02360

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

TEL: (508) 747-1620
FAX: (508) 830-4081

Project: Surface Water - Eel River
Location: Plymouth, MA

Order No.: 0609209

Dear Kim Michaelis:

GeoLabs, Inc. received 6 sample(s) on 9/20/2006 for the analyses presented in the following report.

Report re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Charles Morrow
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - NJ (MA009) - NY (11796) - RI (LA000252)
Accredited in Accordance with NELAC

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 13-Oct-06

CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0609209

Lab ID: 0609209-001

Collection Date: 9/20/2006 10:20:00 AM

Client Sample ID: S-6A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	41.0	5.00		mg/L	1	Analyst: JMC 9/25/2006
TOTAL METALS BY ICP - E200.7						
Boron	ND	0.0300		mg/L	1	Analyst: QS 9/21/2006
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	Analyst: SUB 9/27/2006
NOTES: Analyzed by Northeast Generation Svcs. MA-00071						
NITROGEN, AMMONIA (AS N) - E350.2						
Ammonia (as N)	0.219	0.130		mg/L	1	Analyst: RP 10/10/2006
CHLORIDE - L-10-177-07-1-B						
Chloride	14.1	1.50		mg/L	1	Analyst: RP 9/25/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.32	0.059		mg/L	1	Analyst: RP 10/10/2006
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	Analyst: RP 9/22/2006
NITRATE - L10-107-04-1-C						
Nitrate (as N)	0.150	0.0257		mg/L	1	Analyst: RP 9/22/2006
ORTHOPHOSPHATE, WATER - E365.2						
Phosphorus, Orthophosphate (As P)	0.0282	0.0257		mg/L	1	Analyst: RP 9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						
Dissolved Organic Nitrogen	ND	0.130		mg/L	1	Analyst: RP 10/11/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						
						Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 13-Oct-06**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River**Lab Order:** 0609209**PON-SM4500-NH3-B,C, SM4500-NORG-B,C****Analyst:** RP

Particulate Organic Nitrogen ND 0.130 mg/L 1 10/12/2006

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst:** RP

Total Dissolved Nitrogen 0.34 0.13 mg/L 1 10/11/2006

TOTAL PHOSPHOROUS - L10-115-01-1E**Analyst:** RP

Total Phosphorous 0.0731 0.0400 mg/L 1 10/11/2006

Qualifiers:
B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 13-Oct-06

CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0609209

Lab ID: 0609209-002

Collection Date: 9/20/2006 10:40:00 AM

Client Sample ID: S-12

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	36.0	5.00		mg/L	1	9/25/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/21/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NOTES:						
Analyzed by Northeast Generation Svcs. MA-00071						
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: RP
Ammonia (as N)	0.209	0.130		mg/L	1	10/10/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	13.2	1.50		mg/L	1	9/25/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: RP
Dissolved Inorganic Nitrogen	0.32	0.059		mg/L	1	10/10/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/22/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.128	0.0257		mg/L	1	9/22/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	0.0282	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.438	0.130		mg/L	1	10/11/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date: 27-Aug-09**
Original Reported Date: 13-Oct-06**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River**Lab Order:** 0609209**PON-SM4500-NH3-B,C, SM4500-NORG-B,C****Analyst: RP**

Particulate Organic Nitrogen ND 0.130 mg/L 1 10/12/2006

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst: RP**

Total Dissolved Nitrogen 0.79 0.13 mg/L 1 10/11/2006

TOTAL PHOSPHOROUS - L10-115-01-1E**Analyst: RP**

Total Phosphorous 0.0622 0.0400 mg/L 1 10/11/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 13-Oct-06

CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0609209

Lab ID: 0609209-003

Collection Date: 9/20/2006 9:30:00 AM

Client Sample ID: S-21

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	77.0	5.00		mg/L	1	9/25/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/21/2006
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NOTES:						
Analyzed by Northeast Generation Svcs. MA-00071						
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: RP
Ammonia (as N)	0.170	0.130		mg/L	1	10/10/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	35.5	1.50		mg/L	1	9/25/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: RP
Dissolved Inorganic Nitrogen	0.83	0.059		mg/L	1	10/10/2006
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/22/2006
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.0546	0.0257		mg/L	1	9/22/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.824	0.130		mg/L	1	10/11/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date: 27-Aug-09**
Original Reported Date: 13-Oct-06**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River**Lab Order:** 0609209**PON-SM4500-NH3-B,C, SM4500-NORG-B,C**

Analyst: RP

Particulate Organic Nitrogen ND 0.130 mg/L 1 10/12/2006

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Total Dissolved Nitrogen 1.7 0.13 mg/L 1 10/11/2006

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.376 0.0400 mg/L 1 10/11/2006

Qualifiers:
B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 13-Oct-06

CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0609209

Lab ID: 0609209-004

Collection Date: 9/20/2006 10:10:00 AM

Client Sample ID: S-6B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	54.0	5.00		mg/L	1	9/25/2006
TOTAL METALS BY ICP - E200.7						
Boron	0.0388	0.0300		mg/L	1	9/21/2006
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NOTES:						
Analyzed by Northeast Generation Svcs. MA-00071						
NITROGEN, AMMONIA (AS N) - E350.2						
Ammonia (as N)	0.230	0.130		mg/L	1	10/10/2006
CHLORIDE - L-10-177-07-1-B						
Chloride	14.2	1.50		mg/L	1	9/25/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.25	0.059		mg/L	1	10/10/2006
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	9/22/2006
NITRATE - L10-107-04-1-C						
Nitrate (as N)	0.135	0.0257		mg/L	1	9/22/2006
ORTHOPHOSPHATE, WATER - E365.2						
Phosphorus, Orthophosphate (As P)	0.0313	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						
Dissolved Organic Nitrogen	0.602	0.130		mg/L	1	10/11/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 13-Oct-06CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0609209

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Particulate Organic Nitrogen ND 0.130 mg/L 1 10/12/2006 Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Total Dissolved Nitrogen 0.98 0.13 mg/L 1 10/11/2006 Analyst: RP

TOTAL PHOSPHOROUS - L10-115-01-1E

Total Phosphorous ND 0.0400 mg/L 1 10/11/2006 Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 13-Oct-06

CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0609209

Lab ID: 0609209-005

Collection Date: 9/20/2006 10:55:00 AM

Client Sample ID: S-13

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	51.0	5.00		mg/L	1	9/25/2006
Analyst: JMC						
TOTAL METALS BY ICP - E200.7						
Boron	ND	0.0300		mg/L	1	9/21/2006
Analyst: QS						
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	1.1	1.0		mg/L	1	9/27/2006
Analyst: SUB						
NOTES:						
Analyzed by Northeast Generation Svcs. MA-00071						
NITROGEN, AMMONIA (AS N) - E350.2						
Ammonia (as N)	0.230	0.130		mg/L	1	10/10/2006
Analyst: RP						
CHLORIDE - L-10-177-07-1-B						
Chloride	14.7	1.50		mg/L	1	9/25/2006
Analyst: RP						
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.30	0.059		mg/L	1	10/10/2006
Analyst: RP						
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	9/22/2006
Analyst: RP						
NITRATE - L10-107-04-1-C						
Nitrate (as N)	0.211	0.0257		mg/L	1	9/22/2006
Analyst: RP						
ORTHOPHOSPHATE, WATER - E365.2						
Phosphorus, Orthophosphate (As P)	0.0596	0.0257		mg/L	1	9/21/2006
Analyst: RP						
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						
Dissolved Organic Nitrogen	0.406	0.130		mg/L	1	10/11/2006
Analyst: RP						
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						
Analyst: RP						

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date: 27-Aug-09**
Original Reported Date: 13-Oct-06**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River**Lab Order:** 0609209**PON-SM4500-NH3-B,C, SM4500-NORG-B,C****Analyst: RP**

Particulate Organic Nitrogen ND 0.130 mg/L 1 10/12/2006

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst: RP**

Total Dissolved Nitrogen 0.86 0.13 mg/L 1 10/11/2006

TOTAL PHOSPHOROUS - L10-115-01-1E**Analyst: RP**

Total Phosphorous 0.136 0.0400 mg/L 1 10/11/2006

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.**45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811**

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 13-Oct-06

CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0609209

Lab ID: 0609209-006

Collection Date: 9/20/2006 11:10:00 AM

Client Sample ID: S-14

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	36.0	5.00		mg/L	1	9/25/2006
TOTAL METALS BY ICP - E200.7						
Boron	ND	0.0300		mg/L	1	9/21/2006
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	9/27/2006
NOTES:						
Analyzed by Northeast Generation Svcs. MA-00071						
NITROGEN, AMMONIA (AS N) - E350.2						
Ammonia (as N)	0.268	0.130		mg/L	1	10/10/2006
CHLORIDE - L-10-177-07-1-B						
Chloride	11.0	1.50		mg/L	1	9/25/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.13	0.059		mg/L	1	10/10/2006
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	9/22/2006
NITRATE - L10-107-04-1-C						
Nitrate (as N)	0.120	0.0257		mg/L	1	9/22/2006
ORTHOPHOSPHATE, WATER - E365.2						
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/21/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						
Dissolved Organic Nitrogen	ND	0.130		mg/L	1	10/11/2006
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 13-Oct-06CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0609209

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Particulate Organic Nitrogen ND 0.130 mg/L 1 10/12/2006 Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Total Dissolved Nitrogen 0.43 0.13 mg/L 1 10/11/2006 Analyst: RP

TOTAL PHOSPHOROUS - L10-115-01-1E

Total Phosphorous ND 0.0400 mg/L 1 10/11/2006 Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0609209 DR

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: **Surface Water** - Eel River, Plymouth MA
Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/20/06	1020	S-6A	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4
9/20/06	1040	S-12	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4

9209-001

9209-002

Relinquished By: Date/Time

Kim Michaelis 9/20/06 2:50
Kerin McCall 9/20/06 3:55P

Received By: Date/Time:

Kim Michaelis 9/20/06 2:50P
Danielle Rega 9/20/06 3:55P

8

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0609209@2

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: **Surface Water - Eel River, Plymouth MA**
Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/20/06	0930	S-21	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4
09/20/06	1010	S-6B	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4

9209-003

Relinquished By: Date/Time

Kim Michaelis 9/20/06 2:50
Kerin McCall 9/20/06 3:55

Received By: Date/Time:

Kerin McCall 9/20/06 2:50
Danielle Rega 9/20/06 3:55

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0609209 DR

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: **Surface Water** - Eel River, Plymouth MA
Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/20/06	1055	S-13	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4
9/20/06	1110	S-14	2	Vials	POC	NONE HCL
			1	250 mL Plastic	NH3	H2SO4
			1	250 mL Plastic	NO2	NONE
			1	250 mL Plastic	Boron	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
			1	500 mL Plastic	Total Phosphorus	H2SO4
			1	500 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN	NONE
			1	1 Liter Plastic	DON	NONE
			1	1 Liter Plastic	PON	H2SO4

Relinquished By: Date/Time

Kim Michaelis 9/20/06 2:50
Kerin McCall 9/20/06 3:55

Received By: Date/Time:

Kerin McCall 9/20/06 2:58
Danielle Riga 9/20/06 3:55p

ANALYTICAL REPORT

Thursday, September 27, 2009

Kim Michaelis
Town of Plymouth
11 Lincoln Street
Plymouth, MA 02360

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

TEL: (508) 747-1620
FAX: (508) 830-4081

Project: Surface Water - Eel River
Location: Plymouth, MA

Order No.: 0610367

Dear Kim Michaelis:

GeoLabs, Inc. received 7 sample(s) on 10/30/2006 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Charles Morrow
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - NJ (MA009) - NY (11796) - RI (LA000252)
Accredited in Accordance with NELAC

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0610367

Lab ID: 0610367-001

Collection Date: 10/30/2006 8:40:00 AM

Client Sample ID: S-5B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	81.0	5.00		mg/L	1	Analyst: JMC 11/1/2006
TOTAL METALS BY ICP - E200.7						
Boron	ND	0.0300		mg/L	1	Analyst: QS 11/3/2006
NITRITE - SM4500-NO3-F						
Nitrite	ND	0.0100	H	mg/L	1	Analyst: SUB 11/2/2006
NOTES: Analyzed by Premier Laboratory M-CT008						
NITRATE - SM4500-NO3-F						
Nitrate	0.140	0.100	H	mg/L	1	Analyst: SUB 11/2/2006
NOTES: Analyzed by Premier Laboratory M-CT008						
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	Analyst: SUB 11/16/2006
NITROGEN, AMMONIA (AS N) - E350.2						
Ammonia (as N)	ND	0.130		mg/L	1	Analyst: RP 11/3/2006
CHLORIDE - L-10-177-07-1-B						
Chloride	29.5	1.50		mg/L	1	Analyst: RP 11/6/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.259	0.0592		mg/L	1	Analyst: RP 11/8/2006
ORTHOPHOSPHATE, WATER - E365.2						
Phosphate, Ortho	0.00540	0		mg/L	1	Analyst: WFR 11/1/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						
Dissolved Organic Nitrogen	0.968	0.130		mg/L	1	Analyst: RP 11/7/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 17-Nov-06**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River**Lab Order:** 0610367**PON-SM4500-NH3-B,C, SM4500-NORG-B,C**

Particulate Organic Nitrogen	ND	0.130	mg/L	1	11/7/2006	Analyst: RP
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Total Dissolved Nitrogen	1.2	0.13	mg/L	1	11/7/2006	Analyst: RP
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TOTAL PHOSPHOROUS - L10-115-01-1E

Total Phosphorous	0.0596	0.0400	mg/L	1	11/7/2006	Analyst: RP
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Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0610367

Lab ID: 0610367-002

Collection Date: 10/30/2006 9:00:00 AM

Client Sample ID: S-4B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	90.0	5.00		mg/L	1	11/1/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	11/3/2006
NITRITE - SM4500-NO3-F						Analyst: SUB
Nitrite	ND	0.0100	H	mg/L	1	11/2/2006
NOTES: Analyzed by Premier Laboratory M-CT008						
NITRATE - SM4500-NO3-F						Analyst: SUB
Nitrate	ND	0.100	H	mg/L	1	11/2/2006
NOTES: Analyzed by Premier Laboratory M-CT008						
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	11/16/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: RP
Ammonia (as N)	ND	0.130		mg/L	1	11/3/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	21.4	1.50		mg/L	1	11/6/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: RP
Dissolved Inorganic Nitrogen	0.145	0.0592		mg/L	1	11/8/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: WFR
Phosphate, Ortho	0.0110	0		mg/L	1	11/1/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.882	0.130		mg/L	1	11/7/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 17-Nov-06**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River**Lab Order:** 0610367**PON-SM4500-NH3-B,C, SM4500-NORG-B,C**

Particulate Organic Nitrogen	ND	0.130	mg/L	1	11/7/2006	Analyst: RP
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Total Dissolved Nitrogen	0.96	0.13	mg/L	1	11/7/2006	Analyst: RP
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TOTAL PHOSPHOROUS - L10-115-01-1E

Total Phosphorous	0.0558	0.0400	mg/L	1	11/7/2006	Analyst: RP
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Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0610367

Lab ID: 0610367-003

Collection Date: 10/30/2006 9:20:00 AM

Client Sample ID: S-3B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	82.0	5.00		mg/L	1	11/1/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	11/3/2006
NITRITE - SM4500-NO3-F						Analyst: SUB
Nitrite	ND	0.0100	H	mg/L	1	11/2/2006
NOTES: Analyzed by Premier Laboratory M-CT008						
NITRATE - SM4500-NO3-F						Analyst: SUB
Nitrate	0.170	0.100	H	mg/L	1	11/2/2006
NOTES: Analyzed by Premier Laboratory M-CT008						
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	11/16/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: RP
Ammonia (as N)	ND	0.130		mg/L	1	11/3/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	21.1	1.50		mg/L	1	11/6/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: RP
Dissolved Inorganic Nitrogen	0.333	0.0592		mg/L	1	11/8/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: WFR
Phosphate, Ortho	0.00260	0		mg/L	1	11/1/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.623	0.130		mg/L	1	11/7/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 17-Nov-06**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River**Lab Order:** 0610367**PON-SM4500-NH3-B,C, SM4500-NORG-B,C****Analyst:** RP

Particulate Organic Nitrogen ND 0.130 mg/L 1 11/7/2006

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst:** RP

Total Dissolved Nitrogen 0.89 0.13 mg/L 1 11/7/2006

TOTAL PHOSPHOROUS - L10-115-01-1E**Analyst:** RP

Total Phosphorous 0.512 0.0400 mg/L 1 11/7/2006

Qualifiers:
B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0610367

Lab ID: 0610367-004

Collection Date: 10/30/2006 9:45:00 AM

Client Sample ID: S-2B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	83.0	5.00		mg/L	1	11/1/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	11/3/2006
NITRITE - SM4500-NO3-F						Analyst: SUB
Nitrite	ND	0.0100	H	mg/L	1	11/2/2006
NOTES: Analyzed by Premier Laboratory M-CT008						
NITRATE - SM4500-NO3-F						Analyst: SUB
Nitrate	ND	0.100	H	mg/L	1	11/2/2006
NOTES: Analyzed by Premier Laboratory M-CT008						
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	11/16/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: RP
Ammonia (as N)	ND	0.130		mg/L	1	11/3/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	20.1	1.50		mg/L	1	11/6/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: RP
Dissolved Inorganic Nitrogen	0.178	0.0592		mg/L	1	11/8/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: WFR
Phosphate, Ortho	ND	0		mg/L	1	11/1/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.595	0.130		mg/L	1	11/7/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09**Original Reported Date:** 17-Nov-06**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River**Lab Order:** 0610367**PON-SM4500-NH3-B,C, SM4500-NORG-B,C**Analyst: **RP**

Particulate Organic Nitrogen ND 0.130 mg/L 1 11/7/2006

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NORAnalyst: **RP**

Total Dissolved Nitrogen 0.68 0.13 mg/L 1 11/7/2006

TOTAL PHOSPHOROUS - L10-115-01-1EAnalyst: **RP**

Total Phosphorous ND 0.0400 mg/L 1 11/7/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0610367

Lab ID: 0610367-005

Collection Date: 10/30/2006 10:30:00 AM

Client Sample ID: S-9A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	82.0	5.00		mg/L	1	11/1/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	11/3/2006
NITRITE - SM4500-NO3-F						Analyst: SUB
Nitrite	ND	0.0100	H	mg/L	1	11/2/2006
NOTES: Analyzed by Premier Laboratory M-CT008						
NITRATE - SM4500-NO3-F						Analyst: SUB
Nitrate	0.340	0.100	H	mg/L	1	11/2/2006
NOTES: Analyzed by Premier Laboratory M-CT008						
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	11/16/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: RP
Ammonia (as N)	0.249	0.130		mg/L	1	11/3/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	ND	1.50		mg/L	1	11/6/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: RP
Dissolved Inorganic Nitrogen	0.604	0.0592		mg/L	1	11/8/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: WFR
Phosphate, Ortho	0.0125	0		mg/L	1	11/1/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.723	0.130		mg/L	1	11/7/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 17-Nov-06**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River**Lab Order:** 0610367**PON-SM4500-NH3-B,C, SM4500-NORG-B,C****Analyst:** RP

Particulate Organic Nitrogen ND 0.130 mg/L 1 11/7/2006

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst:** RP

Total Dissolved Nitrogen 1.3 0.13 mg/L 1 11/7/2006

TOTAL PHOSPHOROUS - L10-115-01-1E**Analyst:** RP

Total Phosphorous 0.0786 0.0400 mg/L 1 11/7/2006

Qualifiers:
B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0610367

Lab ID: 0610367-006

Collection Date: 10/30/2006 11:00:00 AM

Client Sample ID: S-6A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	86.0	5.00		mg/L	1	11/1/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	11/3/2006
NITRITE - SM4500-NO3-F						Analyst: SUB
Nitrite	ND	0.0100	H	mg/L	1	11/2/2006
NOTES: Analyzed by Premier Laboratory M-CT008						
NITRATE - SM4500-NO3-F						Analyst: SUB
Nitrate	0.340	0.100	H	mg/L	1	11/2/2006
NOTES: Analyzed by Premier Laboratory M-CT008						
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	1.1	1.0		mg/L	1	11/16/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: RP
Ammonia (as N)	0.307	0.130		mg/L	1	11/3/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	15.7	1.50		mg/L	1	11/6/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: RP
Dissolved Inorganic Nitrogen	0.539	0.0592		mg/L	1	11/8/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: WFR
Phosphate, Ortho	0.0195	0		mg/L	1	11/1/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.611	0.130		mg/L	1	11/7/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 27-Aug-09
Original Reported Date: 17-Nov-06**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River**Lab Order:** 0610367**PON-SM4500-NH3-B,C, SM4500-NORG-B,C****Analyst:** RP

Particulate Organic Nitrogen ND 0.130 mg/L 1 11/7/2006

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst:** RP

Total Dissolved Nitrogen 1.3 0.13 mg/L 1 11/7/2006

TOTAL PHOSPHOROUS - L10-115-01-1E**Analyst:** RP

Total Phosphorous 0.0700 0.0400 mg/L 1 11/7/2006

Qualifiers:
B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06

CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0610367

Lab ID: 0610367-007

Collection Date: 10/30/2006 10:00:00 AM

Client Sample ID: S-1

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: JMC
Total Dissolved Solids (Residue, Filterable)	91.0	5.00		mg/L	1	11/1/2006
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	11/3/2006
NITRITE - SM4500-NO3-F						Analyst: SUB
Nitrite	ND	0.0100	H	mg/L	1	11/2/2006
NOTES: Analyzed by Premier Laboratory M-CT008						
NITRATE - SM4500-NO3-F						Analyst: SUB
Nitrate	0.360	0.100	H	mg/L	1	11/2/2006
NOTES: Analyzed by Premier Laboratory M-CT008						
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	11/16/2006
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: RP
Ammonia (as N)	0.265	0.130		mg/L	1	11/3/2006
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	38.0	1.50		mg/L	1	11/6/2006
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: RP
Dissolved Inorganic Nitrogen	0.538	0.0592		mg/L	1	11/8/2006
ORTHOPHOSPHATE, WATER - E365.2						Analyst: WFR
Phosphate, Ortho	0.00960	0		mg/L	1	11/1/2006
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.795	0.130		mg/L	1	11/7/2006

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 17-Nov-06CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0610367

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Particulate Organic Nitrogen ND 0.130 mg/L 1 11/7/2006 Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Total Dissolved Nitrogen 1.4 0.13 mg/L 1 11/7/2006 Analyst: RP

TOTAL PHOSPHOROUS - L10-115-01-1E

Total Phosphorous 0.101 0.0400 mg/L 1 11/7/2006 Analyst: RP

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0610367 DR

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/

Project Name: **Surface Water** - Eel River, Plymouth MA

Sampler: Kim Michaelis (KM), Kerin McCall (KM)

7⁰⁰/₃
on Tue

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
10/30/06	0810	S-5B	2	Vials	POC	HCL
10/30/06		S-5B	1	250 mL Plastic	NH3 L2	H2SO4
10/30/06		S-5B	1	250 mL Plastic	NO2 7	NONE
10/30/06		S-5B	1	250 mL Plastic	Boron L2	HNO3
10/30/06		S-5B	1	500 mL Plastic	Orthophosphate, NO3, CL 7	NONE
10/30/06		S-5B	1	500 mL Plastic	Total Phosphorus L2	H2SO4
10/30/06		S-5B	1	500 mL Plastic	TDS 7	NONE
10/30/06		S-5B	1	1 Liter Plastic	TDN, DIN 7	NONE
10/30/06		S-5B	1	1 Liter Plastic	DON 7	NONE
10/30/06		S-5B	1	1 Liter Plastic	PON L2	H2SO4
10/30/06	0900	S-4B	2	Vials	POC	HCL
10/30/06		S-4B	1	250 mL Plastic	NH3 L2	H2SO4
10/30/06		S-4B	1	250 mL Plastic	NO2 7	NONE
10/30/06		S-4B	1	250 mL Plastic	Boron L2	HNO3
10/30/06		S-4B	1	500 mL Plastic	Orthophosphate, NO3, CL 7	NONE
10/30/06		S-4B	1	500 mL Plastic	Total Phosphorus L2	H2SO4
10/30/06		S-4B	1	500 mL Plastic	TDS 7	NONE
10/30/06		S-4B	1	1 Liter Plastic	TDN, DIN 7	NONE
10/30/06		S-4B	1	1 Liter Plastic	DON 7	NONE
10/30/06		S-4B	1	1 Liter Plastic	PON L2	H2SO4

10367-001

10367-002

Relinquished By: Date/Time

Kim Michaelis, 10/30/06
Kerin McCall 10-30-06 4:46

Received By: Date/Time:

Kerin McCall 10/30/06 3:50
L. Kelly 10-30-06 4:40

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0610367 (DR)

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: **Surface Water** - Eel River, Plymouth MA
Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
10/30/06	0920	S-3B	2	Vials	POC	HCL
10/30/06		S-3B	1	250 mL Plastic	NH3 62	H2SO4
10/30/06		S-3B	1	250 mL Plastic	NO2 7	NONE
10/30/06		S-3B	1	250 mL Plastic	Boron 62	HNO3
10/30/06		S-3B	1	500 mL Plastic	Orthophosphate, NO3, CL 7	NONE
10/30/06		S-3B	1	250 mL Plastic	Total Phosphorus 62	H2SO4
10/30/06		S-3B	1	500 mL Plastic	TDS 7	NONE
10/30/06		S-3B	1	1 Liter Plastic	TDN, DIN 7	NONE
10/30/06		S-3B	1	1 Liter Plastic	DON 7	NONE
10/30/06		S-3B	1	1 Liter Plastic	PON 62	H2SO4
10/30/06	0945	S-2B	2	Vials	POC	HCL
10/30/06		S-2B	1	250 mL Plastic	NH3 62	H2SO4
10/30/06		S-2B	1	250 mL Plastic	NO2 7	NONE
10/30/06		S-2B	1	250 mL Plastic	Boron 62	HNO3
10/30/06		S-2B	1	500 mL Plastic	Orthophosphate, NO3, CL 7	NONE
10/30/06		S-2B	1	250 mL Plastic	Total Phosphorus 62	H2SO4
10/30/06		S-2B	1	500 mL Plastic	TDS 7	NONE
10/30/06		S-2B	1	1 Liter Plastic	TDN, DIN 7	NONE
10/30/06		S-2B	1	1 Liter Plastic	DON 7	NONE
10/30/06		S-2B	1	1 Liter Plastic	PON 62	H2SO4

10367-003

10367-004

Relinquished By: Date/Time

Kim Michaelis 10/30/06
Kerin McCall 10:30:06 9.46

Received By: Date/Time:

Kelly 10/30/06 3:50
L. Kelly 10-30-06 4:40

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0610367 (DR)

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: **Surface Water** - Eel River, Plymouth MA
Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
10/30/06	1030	S-9A	2	Vials	POC	HCL
10/30/06		S-9A	1	250 mL Plastic	NH3 62	H2SO4
10/30/06		S-9A	1	250 mL Plastic	NO2 7	NONE
10/30/06		S-9A	1	250 mL Plastic	Boron 62	HNO3
10/30/06		S-9A	1	500 mL Plastic	Orthophosphate, NO3, CL 7	NONE
10/30/06		S-9A	1	250 mL Plastic	Total Phosphorus 62	H2SO4
10/30/06		S-9A	1	500 mL Plastic	TDS 7	NONE
10/30/06		S-9A	1	1 Liter Plastic	TDN, DIN 7	NONE
10/30/06		S-9A	1	1 Liter Plastic	DON 7	NONE
10/30/06		S-9A	1	1 Liter Plastic	PON 62	H2SO4
10/30/06			2	Vials	POC	HCL
10/30/06			1	250 mL Plastic	NH3	H2SO4
10/30/06			1	250 mL Plastic	NO2	NONE
10/30/06			1	250 mL Plastic	Boron	HNO3
10/30/06			1	500 mL Plastic	Orthophosphate, NO3, CL	NONE
10/30/06			1	250 mL Plastic	Total Phosphorus	H2SO4
10/30/06			1	500 mL Plastic	TDS	NONE
10/30/06			1	1 Liter Plastic	TDN, DIN	NONE
10/30/06			1	1 Liter Plastic	DON	NONE
10/30/06			1	1 Liter Plastic	PON	H2SO4

10367-005

Relinquished By: Date/Time

Kim Michaelis 10/30/06
Kerin McCall 10/30/06 4:40

Received By: Date/Time:

Kim Michaelis 10/30/06 3:50
L. Kelly 10-30-06 4:40

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

0610367 (DR)

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
Project Name: **Surface Water** - Eel River, Plymouth MA
Sampler: Kim Michaelis (KM), Kerin McCall(KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
10/30/06	1100	S-6A	2	Vials	POC	HCL
10/30/06		S-6A	1	250 mL Plastic	NH3 L2	H2SO4
10/30/06		S-6A	1	250 mL Plastic	NO2 7	NONE
10/30/06		S-6A	1	250 mL Plastic	Boron L2	HNO3
10/30/06		S-6A	1	500 mL Plastic	Orthophosphate, NO3, CL 7	NONE
10/30/06		S-6A	1	250 mL Plastic	Total Phosphorus L2	H2SO4
10/30/06		S-6A	1	500 mL Plastic	TDS 7	NONE
10/30/06		S-6A	1	1 Liter Plastic	TDN, DIN 7	NONE
10/30/06		S-6A	1	1 Liter Plastic	DON 7	NONE
10/30/06		S-6A	1	1 Liter Plastic	PON L2	H2SO4
10/30/06	1000	S-1	2	Vials	POC	HCL
10/30/06		S-1	1	250 mL Plastic	NH3 L2	H2SO4
10/30/06		S-1	1	250 mL Plastic	NO2 7	NONE
10/30/06		S-1	1	250 mL Plastic	Boron L2	HNO3
10/30/06		S-1	1	500 mL Plastic	Orthophosphate, NO3, CL 7	NONE
10/30/06		S-1	1	250 mL Plastic	Total Phosphorus L2	H2SO4
10/30/06		S-1	1	500 mL Plastic	TDS 7	NONE
10/30/06		S-1	1	1 Liter Plastic	TDN, DIN 7	NONE
10/30/06		S-1	1	1 Liter Plastic	DON 7	NONE
10/30/06		S-1	1	1 Liter Plastic	PON L2	H2SO4

10367-006

10367-007

Relinquished By: Date/Time

Kim Michaelis 10/30/06
Kerin McCall 10-30-06 4:46

Received By: Date/Time:

Kerin McCall 10/30/06 3:50
L. Kelly 10-30-06 4:40