

**PILOT STUDY REPORT FOR
IRON AND MANGANESE REMOVAL
BY
HUNGERFORD & TERRY
GREENSANDPLUS ADSORPTIVE MEDIA
FILTRATION**

**GREEN STREET WELL SITE
HOPEDALE, MASSACHUSETTS**

FEBRUARY 2010

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Date:	Revision:	By:
19 MAR 2010	Draft	EJG
28 MAR 2010	Final	EJG

SUMMARY

This report details the methods and results of a 5-day pilot study performed at the Green Street Pumping Station in the Town of Hopedale, Massachusetts using Hungerford & Terry GreensandPlus filtration media.

The wells at this site have historically produced water with elevated concentrations of iron and manganese, causing water quality complaints. Some of the ground water sources on this site have also been deemed to be under the influence of surface water, and any treatment system must meet surface water filtration requirements. This pilot study was conducted primarily to confirm that the filtration system proposed for use at this site can provide a 2-log removal of *Cryptosporidium* and giardia lamblia-sized particles.

The pilot study was conducted from 22 to 27 February 2010 using water from Well #1. The average raw water concentrations during the pilot test were 3.12 mg iron per liter, and 0.37 mg manganese per liter. The pilot study included four pilot filters with 18" of GreensandPlus media and 12" of anthracite. The method of iron and manganese removal was oxidation followed by precipitation and filtration through pre-coated media. The filters were piloted at filter surface loading rates between 3 and 5 gpm/sf.

Data showed that particle removal averaged between 2.95 and 3.74 logs prior to contaminant breakthrough. Finished water had iron and manganese concentrations below their respective MCLs. Filter run times exceeded 24 hours at a loading rate of 3 gpm/sf or lower. Headloss development of the filters ranged from 0.1 to 0.5 psi per hour.

Filters were cleaned by backwashing with raw water. All filters were backwashed in accordance to manufacturer's recommendations. The backwash water settled fairly rapidly, and the supernatant water quality was similar to raw water.

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RESPONSIBILITIES

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Consulting engineers for Town of Hopedale, to review *Pilot Study Report*.

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- Peter C. Vendzules, Sales Representative (856) 881-9077

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Contracted by Hungerford & Terry to conduct pilot study, operate pilot system, perform field analyses, collect laboratory samples, evaluate data, write and submit *Pilot Study Report* to engineer for approval and distribution.

- Erik Grotton P.E., President & Project Manager (508) 248-7094
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LIST OF ABBREVIATIONS AND NOMENCLATURE

BW	Backwash
BWLR	Backwash loading rate
cf	cubic foot
FSLR	Filter surface loading rate
gpm	Gallons per minute
gpm/sf	Gallons per minute per square foot (of filter surface area)
MG	Million gallons
MGD	Million gallons per day
mg/L	Milligrams per liter (equivalent to ppm)
µg/L	Micrograms per liter (equivalent to ppb)
MRL	Minimum Reporting Limit
MCL	Maximum Contaminant Level
N/A	Not available / not applicable
ND	Not Detected (at laboratory MRL)
NPDWR	National Primary Drinking Water Regulations (primary standards)
NSDWR	National Secondary Drinking Water Regulations (secondary standards)
NTU	Nephelometric Turbidity Units
pCi/L	picoCuries per liter
ppb	Parts per billion
ppm	Parts per million
Pt-Co	Platinum–Cobalt standard color units
sf	square foot
SMCL	Secondary Maximum Contaminant Level

1 INTRODUCTION

The Town of Hopedale, MA is seeking alternatives to treat and remove dissolved iron (Fe) and manganese (Mn) from groundwater withdrawn from the existing wells at the Green Street Well Site located off of Green Street in Hopedale, MA. There are a series of gravel packed wells on the site, one which was included in the pilot testing.

Hungerford & Terry is the manufacturer of the filtration system proposed for use at this site, but required additional piloting to receive Massachusetts DEP approval to be used on a ground water source that is under the influence of a surface.

Hungerford & Terry contracted with Blueleaf Inc. (BLI) of Charlton, MA to conduct the pilot-scale study in order to provide an independent and impartial assessment of the performance of the media. The primary purpose of the pilot test was to confirm the particle removal capabilities of the media, and confirm that 2-log removal of giardia and Cryptosporidium-sized particles is achieved.

Iron removal is normally achieved through oxidation and precipitation with an oxidant, and subsequent filtration. The primary mechanism for manganese removal is adsorption by a manganese dioxide coating on the filter media. In an optimum environment, chlorination (oxidation) converts dissolved iron and manganese to the oxide form, which can be removed by either adsorption or entrapment. The chlorine residual also serves to maintain the adsorptive media in a continuously high oxidative state.

Raw water pH adjustment is often required to develop the proper oxidative state for effective Mn removal. Oxidation of the aqueous Mn is typically accomplished by adding sodium hypochlorite (NaOCl), which is fed stoichiometrically to meet the chlorine demand of the raw water. An additional amount of chlorine is fed to provide a disinfecting residual throughout the water transmission lines and reservoirs. Adjustment of pH can be accomplished with the addition of either an acid or a base, depending on the original pH and the target pH.

1.1 Pilot Study Objectives

The goals of the pilot study were to:

1. Determine whether the pilot system could effectively produce finished waters with Fe concentrations below the SMCL of 0.3 mg/L and Mn concentrations below the SMCL of 0.05 mg/L.
2. Confirm that the filtration system can achieve 2-log removal of giardia and Cryptosporidium-sized particles.
3. Determine effective treatment operating parameters for the pilot system, including loading rates, runtimes, chemical pretreatment doses, and optimal pH range.
4. Determine effective backwash operating parameters, including the frequency, loading rate and duration of backwash cycles.

1.2 Applicable Standards

Historical records indicated that the raw water from the wells at this site contained average values of Fe and Mn at concentrations greater than the applicable SMCLs. Contaminants that have potentially adverse health affects are limited according to the primary standards of the National Primary Drinking Water Regulations (NPDWR). Contaminants that have negative aesthetic affects at excess concentrations are limited according to the secondary standards of the National Secondary Drinking Water Regulations (NSDWR). The SMCLs for the contaminants of concern are shown in Table 1.

Table 1: Applicable Finished Water Quality Standards

Contaminant	Symbol	Standard	Project Goals
Iron	Fe	Secondary	0.3 mg/L
Manganese	Mn	Secondary	0.05 mg/L
pH		Secondary	6.5 – 8.5
2-5 µm particles		Primary	> 2-log reduction
5-9 µm particles		Primary	> 2-log reduction

2 METHODS AND MATERIALS

2.1 Wells and Well Site

The entrance to the Well Site is located on Green Street, 200 feet west of the intersection with Hopedale Street. The pumping station is approximately 0.2 miles northwest of the entrance. Well #1 was operated continuously throughout the duration of the pilot test at an estimated flow of 100 gpm.

2.2 Testing Equipment

The pilot equipment was set up adjacent to the pump station. Raw water was supplied to the pilot system via a ¾" polyethylene line, which was connected to a ¾" tap located immediately downstream of the Well#1 pump discharge. Electrical power, needed for operation of the pilot equipment, chemical feed pumps, and lighting was supplied from the pumping station. Figure 1 shows a general flow schematic of the mobile testing facility used for the pilot system.

The pilot system was equipped with a ¾" pressure reducing valve (PRV) on the raw water supply line. The raw water was chemically pretreated, and then distributed to four filters by a common manifold.

The chemical pretreatment system allowed for injection of up to three (3) different chemicals, using Prominent Gamma 4B diaphragm metering pumps with two degrees of control: stroke length (0-100%) and speed (strokes per minute). Each pump was calibrated, and chemical doses were calculated from the pump settings and the chemical dilutions. The rates at which chemical feed stocks were consumed were monitored throughout the pilot study as a check on the calculated feed rates.

Four filters were operated simultaneously during the pilot. Each filter was equipped with a system of four motorized ball valves that allowed for automated control of filter service and backwash cycles. Two programmable timers controlled the motorized valves. The timers operated in lead/lag mode, with one timer dedicated to the filtration cycle, and the other timer dedicated to the backwash cycle. The operator could also operate the system in hand mode.

Each filter had a dedicated rotameter and globe valve to control flow rates, with a pressure reducing valve installed upstream of the flow control valve in order to maintain a constant discharge pressure, and prevent declining-flow operation. Excess filtered and backwash water was discharged to a sample sink, and drained to waste on site by gravity through a 1½" hose.

Finished water from each filter was sampled at the point of discharge to the sample sink. Source water was sampled from a ¼" port at the inlet to the pilot system. Chemically pretreated water could be sampled from a ¼" port on the inlet to any of the four filters. Raw water and pretreated water samples discharged continuously to the sample sink via ¼" tubing, at flow rates of about 200 mL/minute.

The pilot trailer included a PC-based data acquisition system for turbidity and pressure. The raw water and the three filter effluent flows were all monitored for pressure and turbidity. Turbidimeter flows were between 200 and 500 mL/minute, and discharged to the sample sink.

Three Chemtrac PC2400D particle counters were installed inside the pumping station and connected to receive samples from the common pretreated filter influent, and from two pilot filter effluent locations. The particle counters had small constant head chambers to provide a constant flow and to remove entrained bubbles. A laptop computer collected particle count data every 5 minutes for the particle size ranges 2-5 µm and 5-9 µm.

2.3 Filtration Media

GreensandPlus™ is a filter media with the same adsorptive coating and treatment performance as standard manganese greensand, but the adsorptive coating is fused to a silica core. This allows GreensandPlus to withstand higher differential pressures than standard greensand without breakdown of the particles, and without stripping the adsorptive coating from the substrate. GreensandPlus can therefore operate at filter loading rates up to 8 gpm/sf or greater, depending upon water quality (compared to 2-5 gpm/sf for standard manganese greensand).

Greensand (both standard greensand and GreensandPlus) has a manganese oxide coating that both catalyzes the oxidation/reduction of manganese, and is adsorptive to manganese. GreensandPlus must be backwashed, skimmed to remove fines, and conditioned with sodium hypochlorite or some other oxidant prior to initial use. The manganese dioxide coating can be maintained by feeding an oxidant, typically either permanganate or chlorine. Pre-oxidation for contaminant removal or disinfection often provides sufficient oxidant to also maintain the adsorptive qualities of the media, however if sufficient oxidant is not used it is necessary to perform specific media regeneration procedures. Regeneration can be performed continuously by feeding chlorine or permanganate during filter service (continuous regeneration, CR), or intermittently by occasionally backwashing or soaking with chlorine or permanganate (intermittent regeneration, IR). A free chlorine level of 0.50 -1.0 mg/L is usually maintained in the effluent to insure oxidation of iron, manganese, ammonia, and hydrogen sulfide. Arsenic will coprecipitate with ferric hydroxide, though the raw water iron may have to be augmented with supplemental ferric iron feed.

A typical filter is comprised of 18"-24" of GreensandPlus, with 12"-18" of anthracite on top. Filters are typically backwashed at 12 gpm/sf minutes, with or without air scour. A terminal differential pressure (DP) of 10 psi is often used to trigger backwash, but the manufacturer claims GreensandPlus is capable of withstanding DPs substantially greater than 10 psi.

2.4 Pilot Filter Configuration

The four pilot filter vessels were configured as shown in Table 2. Filter vessels were constructed of 6-inch diameter clear PVC, 60 inches high, flanged at top and bottom, with bulkhead fittings through the flanges for the inlet (top) and outlet (bottom) piping.

Table 2: Filter Column Configurations

Parameter	Filter A	Filter B	Filter C	Filter D
Adsorptive Media	GreensandPlus	GreensandPlus	GreensandPlus	GreensandPlus
Depth of Adsorptive Media	24 in.	24 in.	24 in.	24 in.
Depth of Anthracite	12 in.	12 in.	12 in.	12 in.
Total filter media depth	36 in.	36 in.	36 in.	36 in.
Filter Surface Area	0.20 ft ²	0.20 ft ²	0.20 ft ²	0.20 ft ²
Media volume	0.60 ft ³	0.60 ft ³	0.60 ft ³	0.60 ft ³

2.5 Field Analytical Methods

Field samples were collected and analyzed on-site. Results of field analyses were used to optimize operation of the pilot system. Following optimization, water samples were collected and submitted to a certified laboratory for analyses to confirm system performance. Parameters analyzed by field methods included total and dissolved iron, total and dissolved manganese, free and total chlorine residual, and pH.

Iron

Total iron samples were analyzed in accordance with Hach (Loveland CO) FerroVer® method #8008. Samples were distributed to 25 mL sample vials. FerroVer® iron reagent (manufactured by Hach) was added and mixed, and 3 minutes were allowed for reaction. The samples were then read using a Hach DR/5000 colorimeter. The colorimeter was zeroed with each set of readings using a blank from the appropriate sample site.

Manganese

Manganese samples were analyzed using the PAN method in accordance with Hach method #8149. 10 mL samples were placed in 25 mL sample vials, separately labeled according to sample site. Ascorbic acid, alkaline cyanide and 0.1% PAN indicator solution (provided by Hach) were added. The vials were mixed and 2 minutes were allowed for reaction. The samples were then read using a Hach DR/5000 colorimeter. The colorimeter was zeroed with each set of readings with a blank of DI water, prepared identically to the samples according to the PAN method. A new blank was prepared daily, and was protected from exposure to heat and sunlight.

Chlorine Residual

Chlorine (free and total) samples were prepared in accordance with Hach methods #10069 and #10070, respectively. The samples were then read using a Hach DR/5000 colorimeter. The colorimeter was zeroed with each set of readings with a blank of DI water. A new blank was prepared daily, and was protected from exposure to heat and sunlight.

pH Measurements

pH measurements were made in accordance with Standard Methods 4500-H+B using a Hach glass pH meter (Hach # HQ11D53101101) with a temperature compensation triode. Samples were analyzed for pH immediately after collection. The pH meter was calibrated with standard buffer solutions of 4.00 ± 0.01 , 7.00 ± 0.01 and 10.00 ± 0.01 supplied by Cole Parmer. Calibration was performed each morning and periodically throughout the day during the test runs.

2.6 Filter Run Operations

Pilot operations commenced on 22 February 2010, and continued through 27 February 2010. The filter trials are described in detail below. Operating parameters for each pilot filter are summarized in Table 3.

Field sampling was performed throughout the trial for the raw water, the pretreated water (after chemical addition), and the filter effluent from each pilot filter.

Table 3: Filter Trial Operating Parameters

Trial #	FLR (gpm/sf)	Start Date and Time	End Date and Time	Trial Duration (hrs)
1A	4.0	02/22/10 13:45	02/23/10 11:00	21.25
1B	4.0			
1C	4.0			
1D	4.0			
2A	5.0	02/23/10 11:45	02/24/10 11:30	23.75
2B	3.0			
2C	5.0			
2D	3.0			
3A	3.0	02/24/10 11:30	02/24/10 19:00	7.50
3B	5.0			
3C	5.0			
3D	3.0			
4A	3.0	02/24/10 19:20	02/26/10 08:05	36.75
4B	5.0			
4C	5.0			
4D	3.0			
5A	3.0	02/26/10 09:00	2/27/2010 9:00	24.00
5B	5.0			
5C	3.0			
5D	5.0			

There was a loss of chlorine feed to all pilot filters near the beginning of Trial 2. This resulted in poor manganese removal through most of Trial 2 while the repair of the chemical feed system was ongoing, and the chlorine residual was re-established. The differential pressure transmitter also failed during Trial 5D, and no pressure readings were available. The flow rate into the turbidimeter was too low during Trial D5 to record meaningful turbidities.

3 RESULTS

3.1 Raw Water Quality

The range and median values of all field parameters are shown in Table 4. Field notes are included in Appendix 1.

Table 4: Raw Water Quality Green Street Well Site

Parameter	Field Results
	Median, (Range), [# of samples]
Fe, Total (mg/L)	3.11 (2.54 - 3.67) [23]
Fe, Dissolved (mg/L)	0.363 (0.363 - 0.363) [1]
Mn, Total (mg/L)	0.375 (0.327 - 0.403) [24]
Mn, Dissolved (mg/L)	N/A
pH (SU)	5.54 (5.31 - 5.74) [23]
Temp (°C)	9.3 (9.2 - 9.4) [22]
Turbidity (NTU)	0.449 (0.414 - 1.76) [1374]

The results show that the well had Fe and Mn concentrations above the respective SMCLs.

3.2 Finished Water Quality

Finished water quality data are shown in Table 5. Note that during Trial 1 and a portion of Trial 2, Pilot Filter A did not remove manganese well, probably owing to inadequate oxidation in this filter during a previous pilot study. The chlorine feed pump lost prime during the early stages of Trial 2 and resulted in poor manganese removal in all of the filters. The loss of chlorine feed was discovered during the late stages of Trial 2, and acceptable manganese removal was not re-established until the middle stages of Trial 3. Trials 4 and 5 are believed to be the most representative of the full scale operating conditions, since the chemical feed system was operational the entire duration. The data in Table 5 represents a compilation of data from Trials 4 and 5, and is separated by hydraulic loading rate.

Table 5: Filtered Water Quality, Field Analyses

Parameter	Median, (Range), [# of samples]	
	3 gpm/sf Filters	5 gpm/sf Filters
Fe (t) (mg/L)	0.02 (0-0.07)[15]	0.01 (0-0.15)[10]
Mn (t) (mg/L)	0.008 (-0.011-0.083)[20]	0.015 (0.002-0.107)[20]
pH (SU)	6.36 (6.055-6.83)[19]	6.35 (6.09-6.8)[19]
Free Chlorine Residual (mg/L)	0.72 (0.1-1.05)[22]	0.89 (0.33-1.41)[22]
Free Chlorine Residual (mg/L)	1.07 (0.2-1.77)[22]	1.46 (0.68-2.43)[22]

All filtered samples had iron and manganese concentrations that were below the respective SMCLs for iron and manganese.

Particle counters recorded particle counts per 100 mL on an interval of 5 minutes in two particle sizes; 3-5 μm , and 5-9 μm . The log removal of each particle size was calculated by dividing the \log_{10} of the influent particles by \log_{10} of the finished particles each set of reading. Particle removal increased after an initial purging period. The length of time to achieve 2-log particle removal was associated with purging the raw water from the filters after backwashing, and purging the sample water from the particle counter bubble traps. During the four pilot filter trials, the purge time was 15 minutes, 28 minutes, 46 minutes, and 48 minutes. It is anticipated that the typical filter to waste period will be sufficient to achieve 2-log particle removal with full scale filters backwashed with treated water filter. Table 6 shows the average particle removal of the four filter trials after the filter-to-waste period, and before contaminant breakthrough.

Table 6: Particle Removal from Pilot Filters, Green Street Well Site

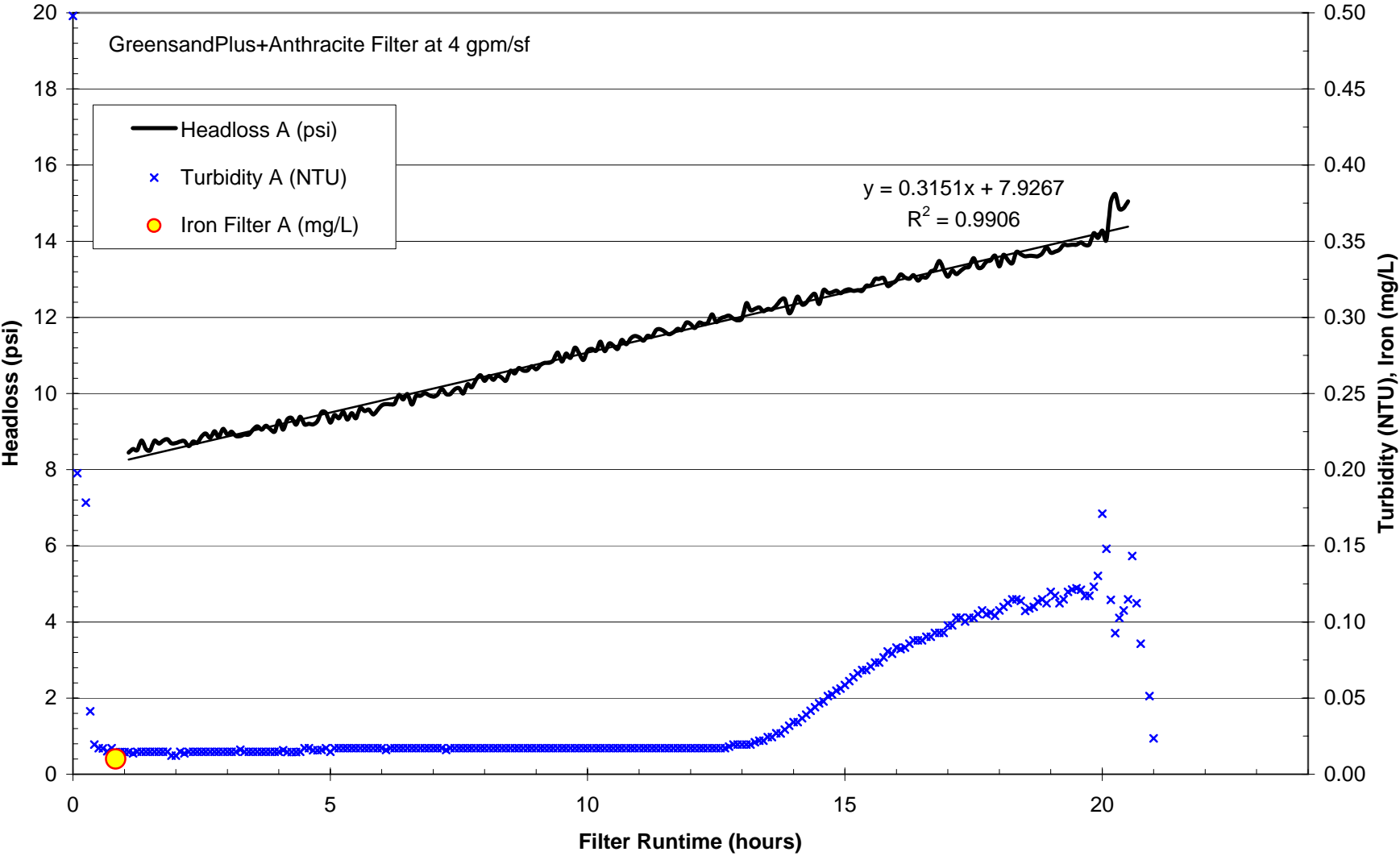
Filter Trial	Log Removal Value	
	Average ± Standard Deviation [number of samples]	
	3-5 µm	5-9 µm
4B @ 5 gpm/sf	3.12±0.65 [462]	2.95±0.77 [373]
4D @ 3 gpm/sf	3.74±0.64 [989]	3.49±0.57 [550]
5A @ 3 gpm/sf	3.67±0.61 [1000]	3.52±0.47 [596]
5B @ 5 gpm/sf	3.21±0.72 [529]	3.51±0.43 [408]

In all four pilot filter trials, the particle log removal exceeded the 2-log removal goal for this study. Particle removal of the filters operated at 3 gpm/sf was slightly greater than the filters operated at 5 gpm/sf.

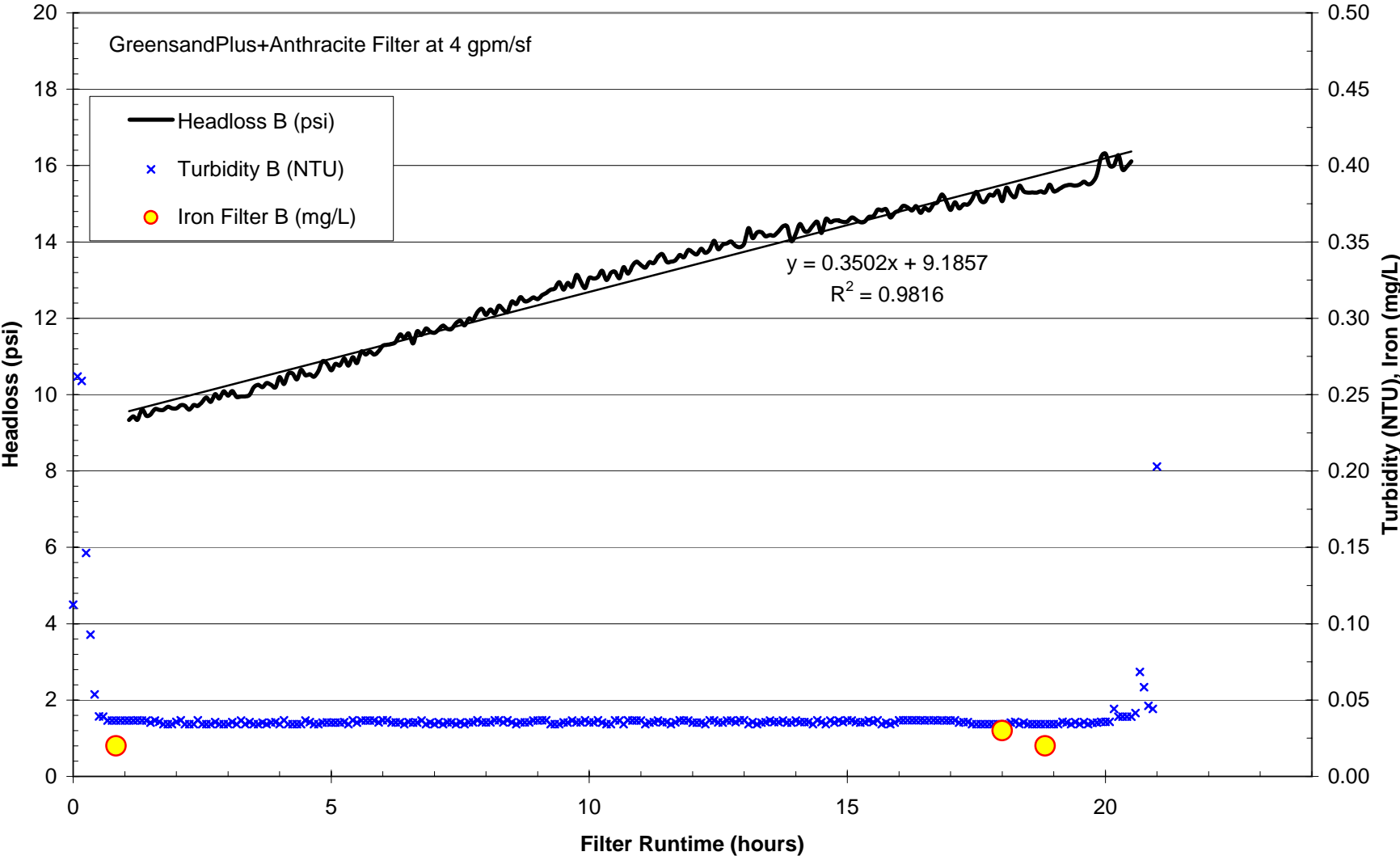
3.3 Filter Run Time

Filter trials were terminated after breakthrough was detected in 12 of the 20 trials, and the reasons for terminating each filter run are noted in Table 6. Each filter trial is shown graphically in Figures 2 through 21. Table 7 summarizes the data, and Figure 22 shows the measured run time for various loading rates.

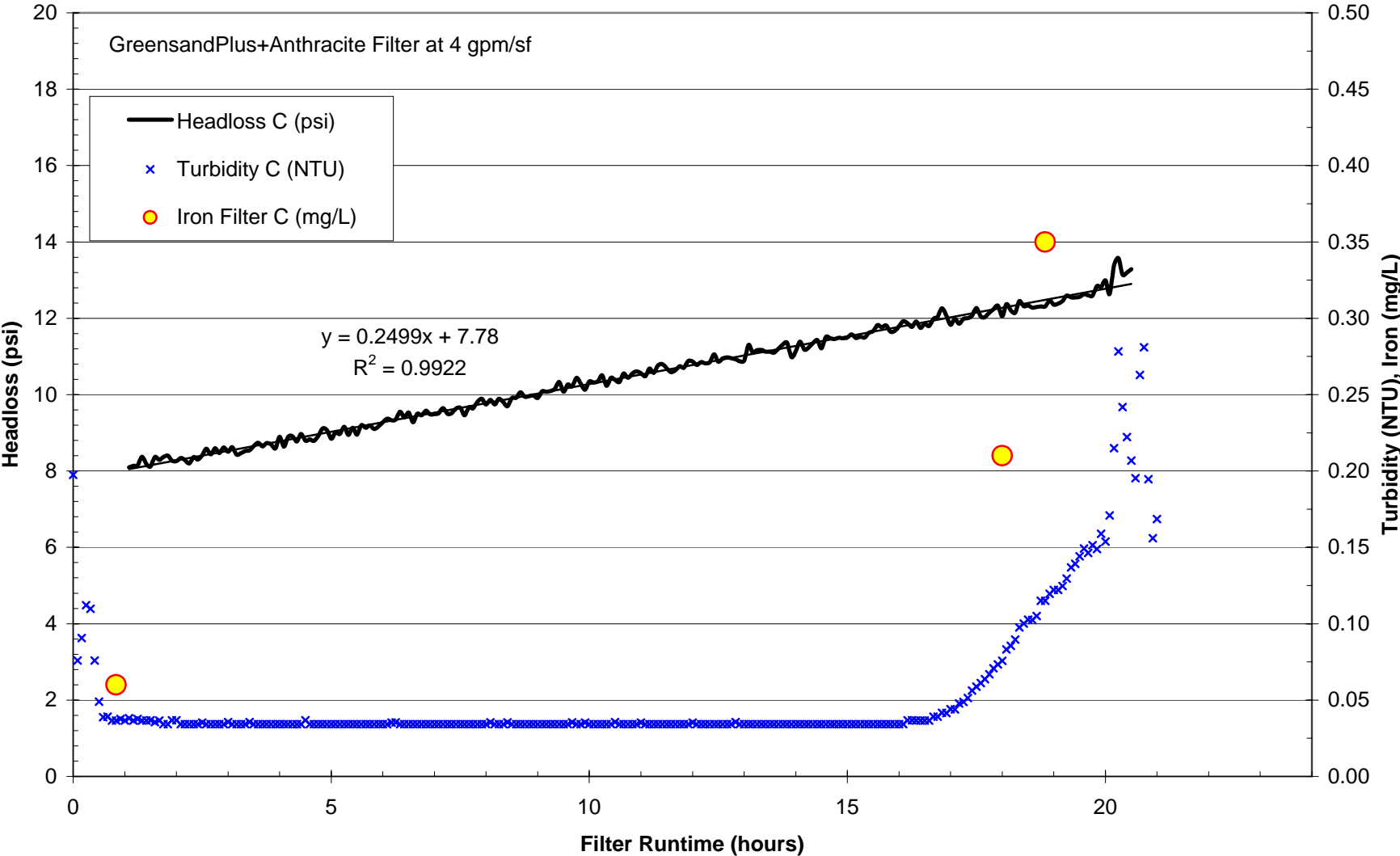
**Figure 2: Headloss and Water Quality Results for Filter Trial 1, Filter A
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



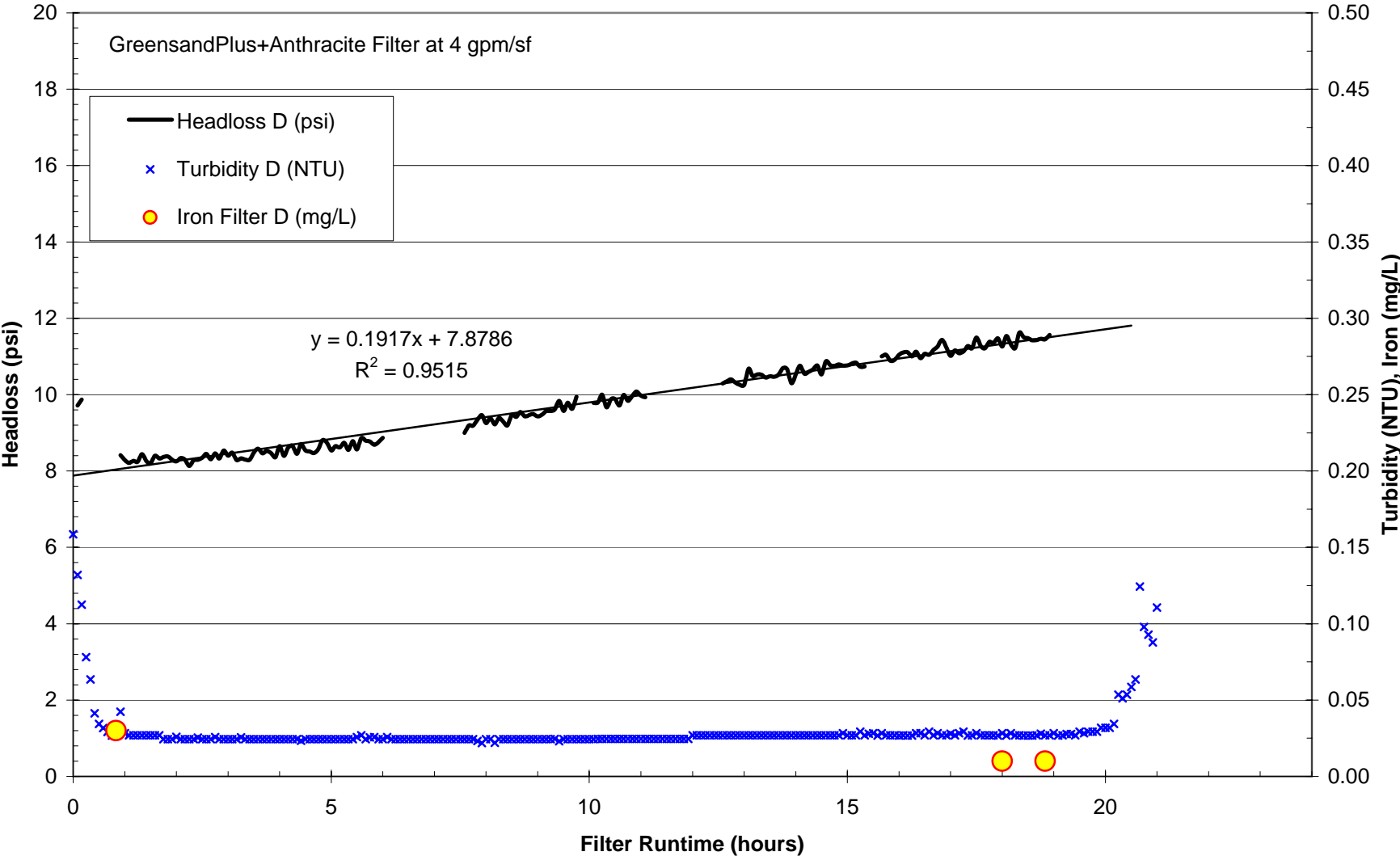
**Figure 3: Headloss and Water Quality Results for Filter Trial 1, Filter B
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



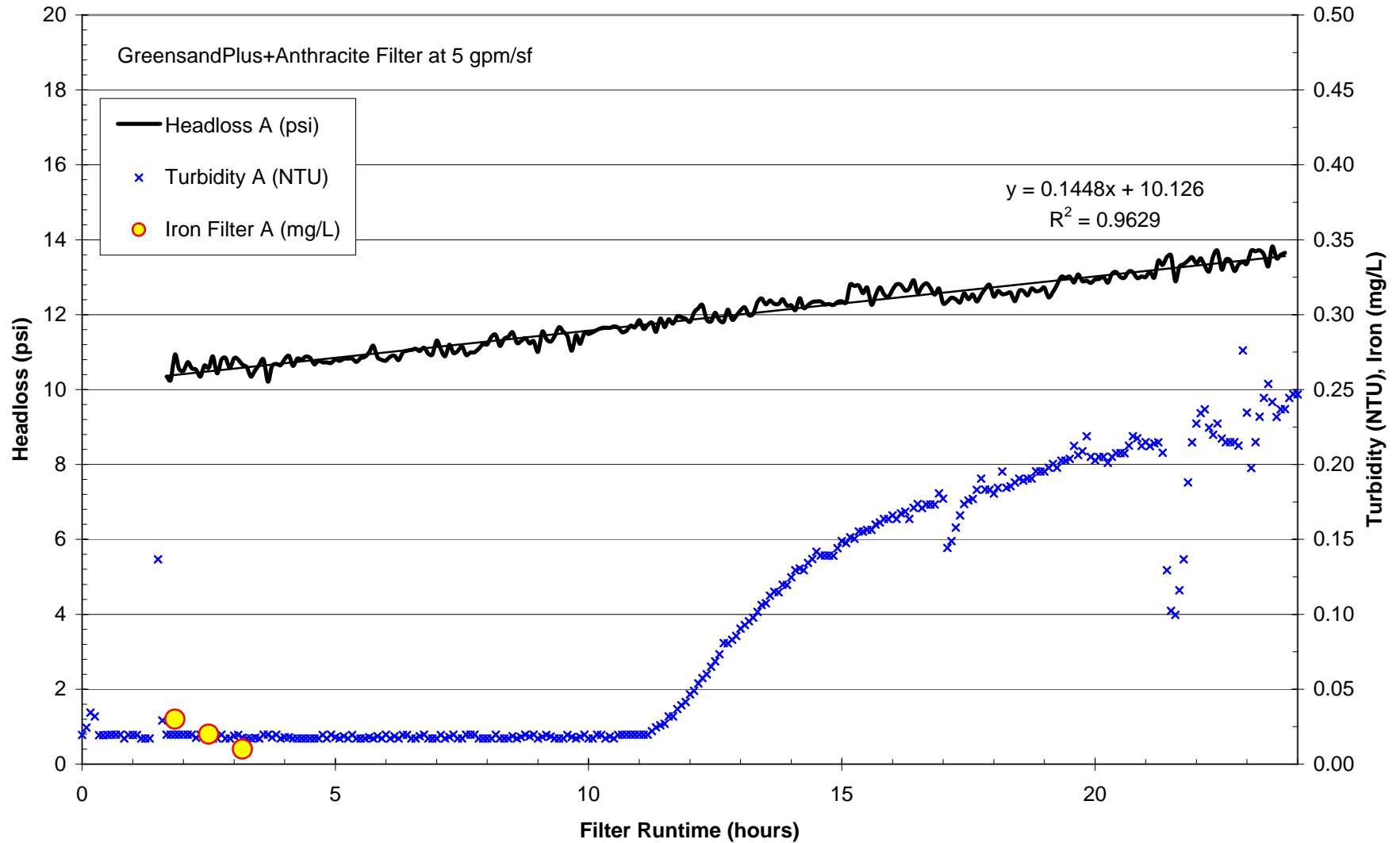
**Figure 4: Headloss and Water Quality Results for Filter Trial 1, Filter C
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



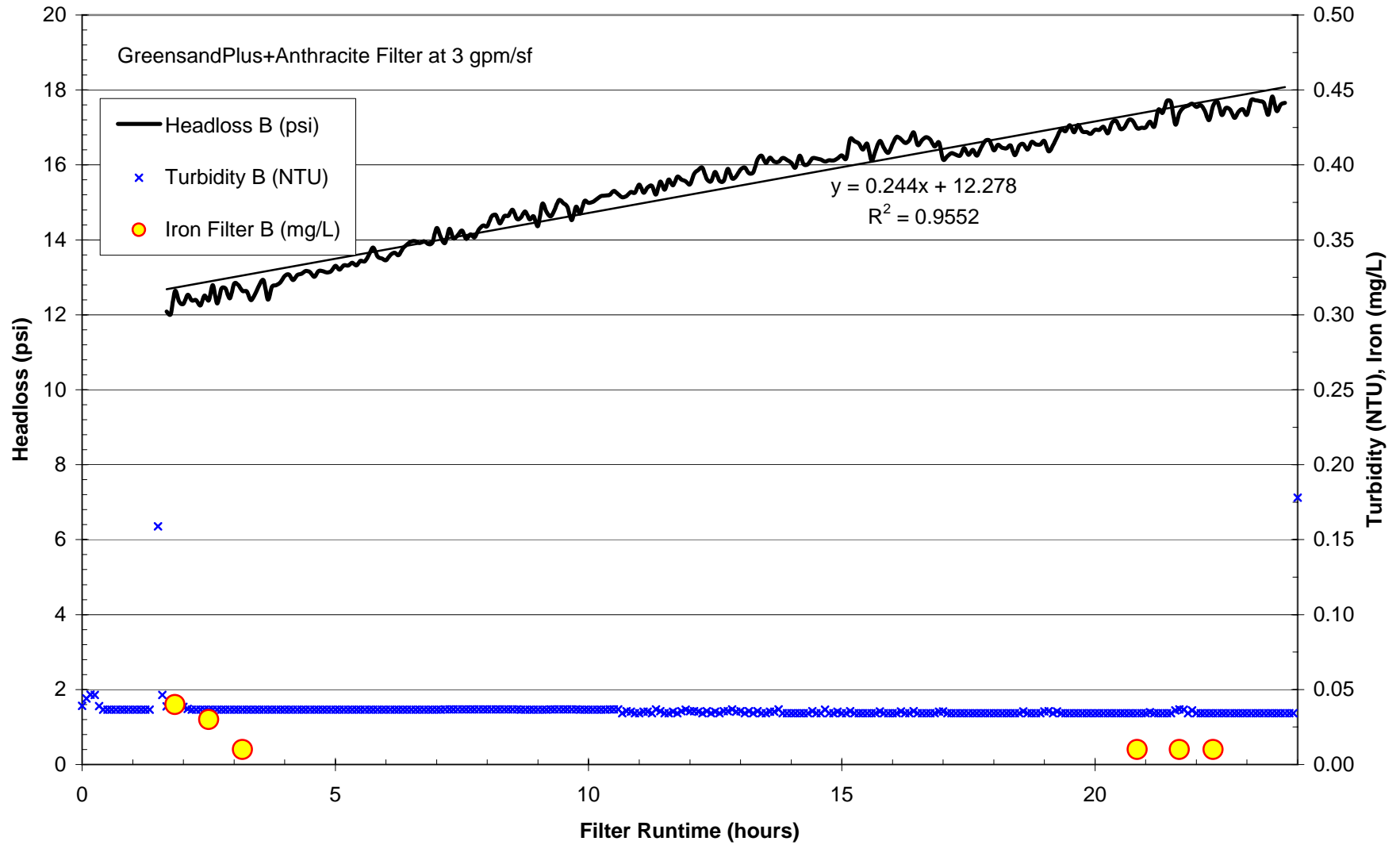
**Figure 5: Headloss and Water Quality Results for Filter Trial 1, Filter D
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



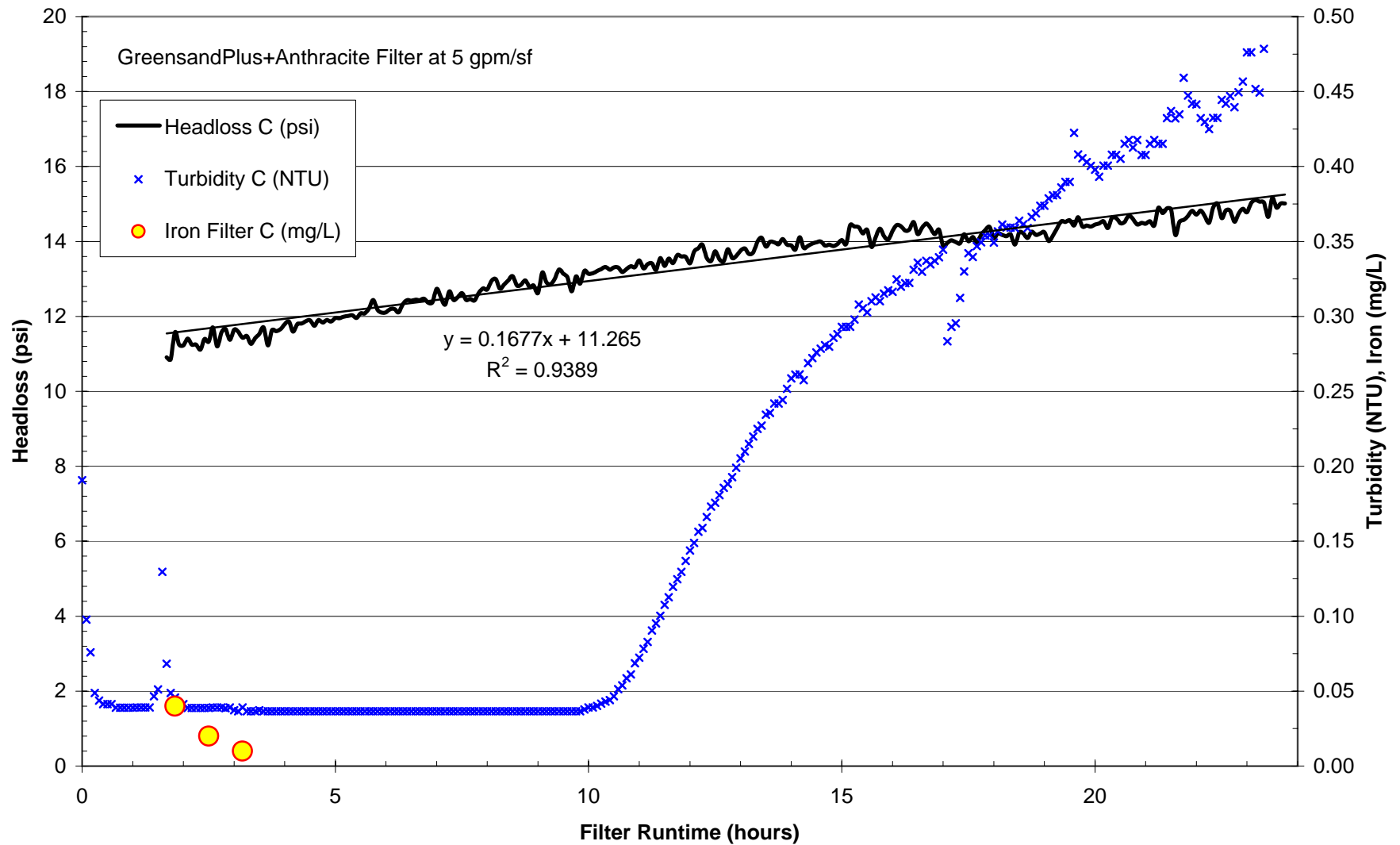
**Figure 6: Headloss and Water Quality Results for Trial 2, Filter A
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



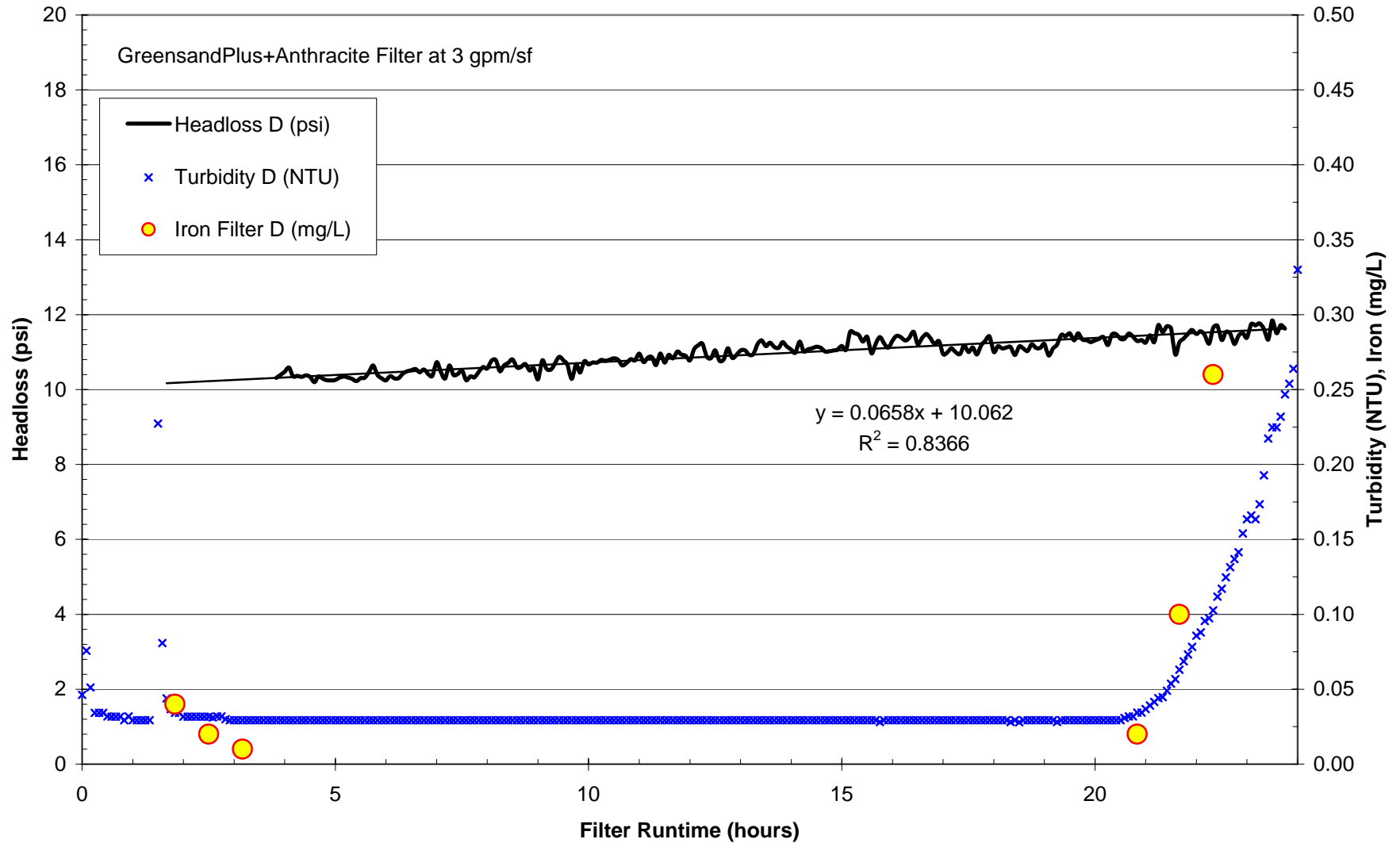
**Figure 7: Headloss and Water Quality Results for Trial 2, Filter B
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



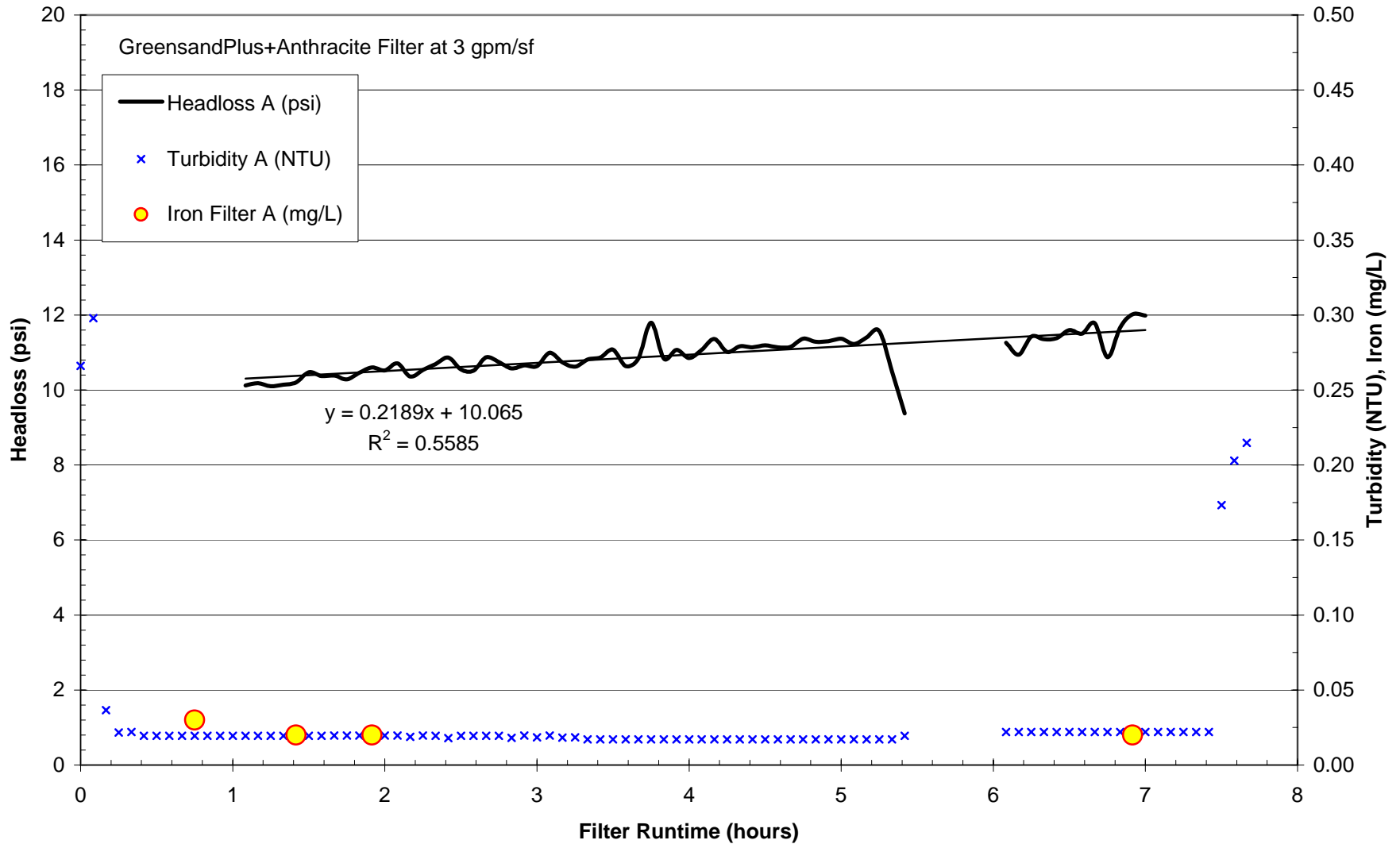
**Figure 8: Headloss and Water Quality Results for Trial 2, Filter C
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



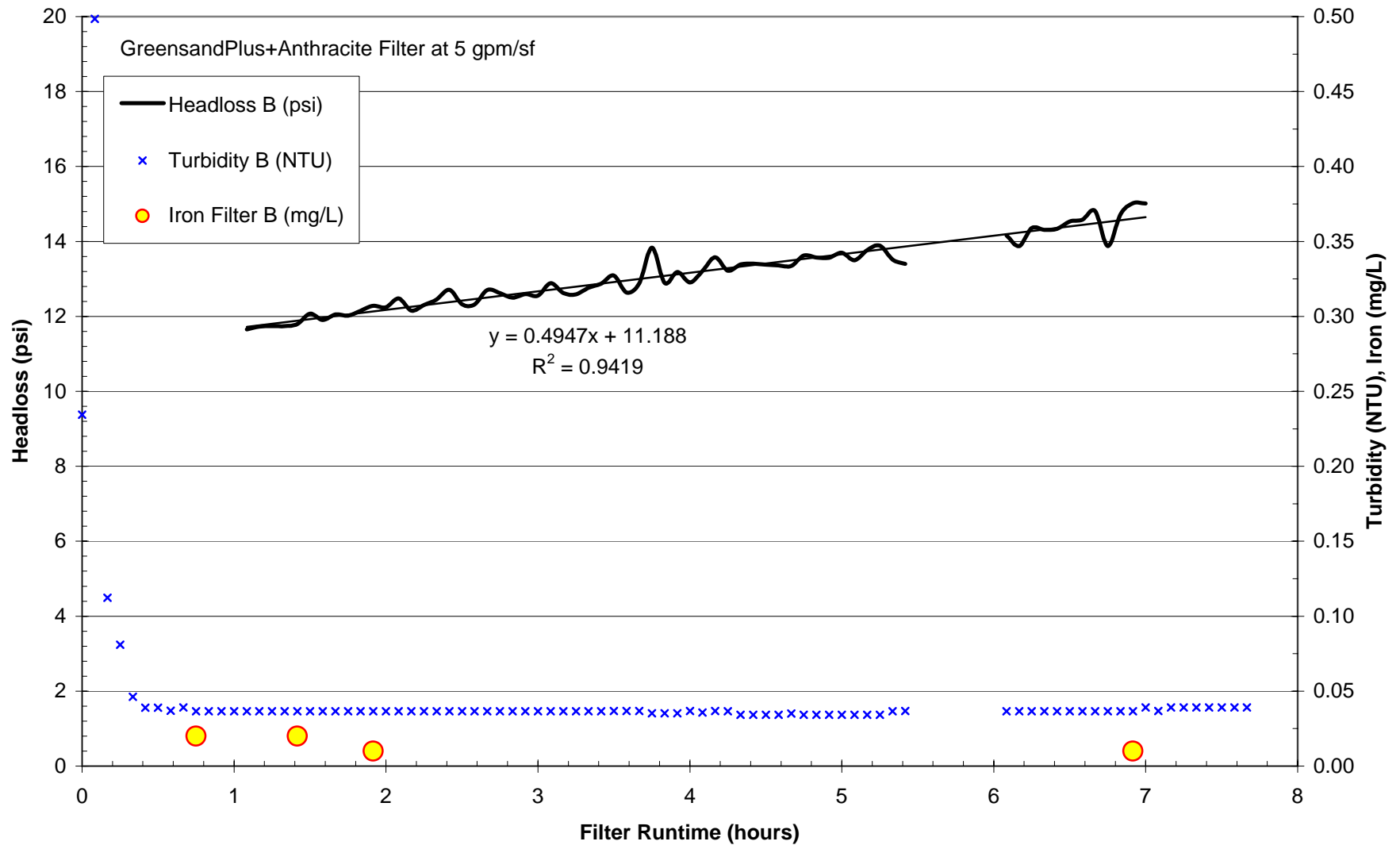
**Figure 9: Headloss and Water Quality Results for Trial 2, Filter D
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



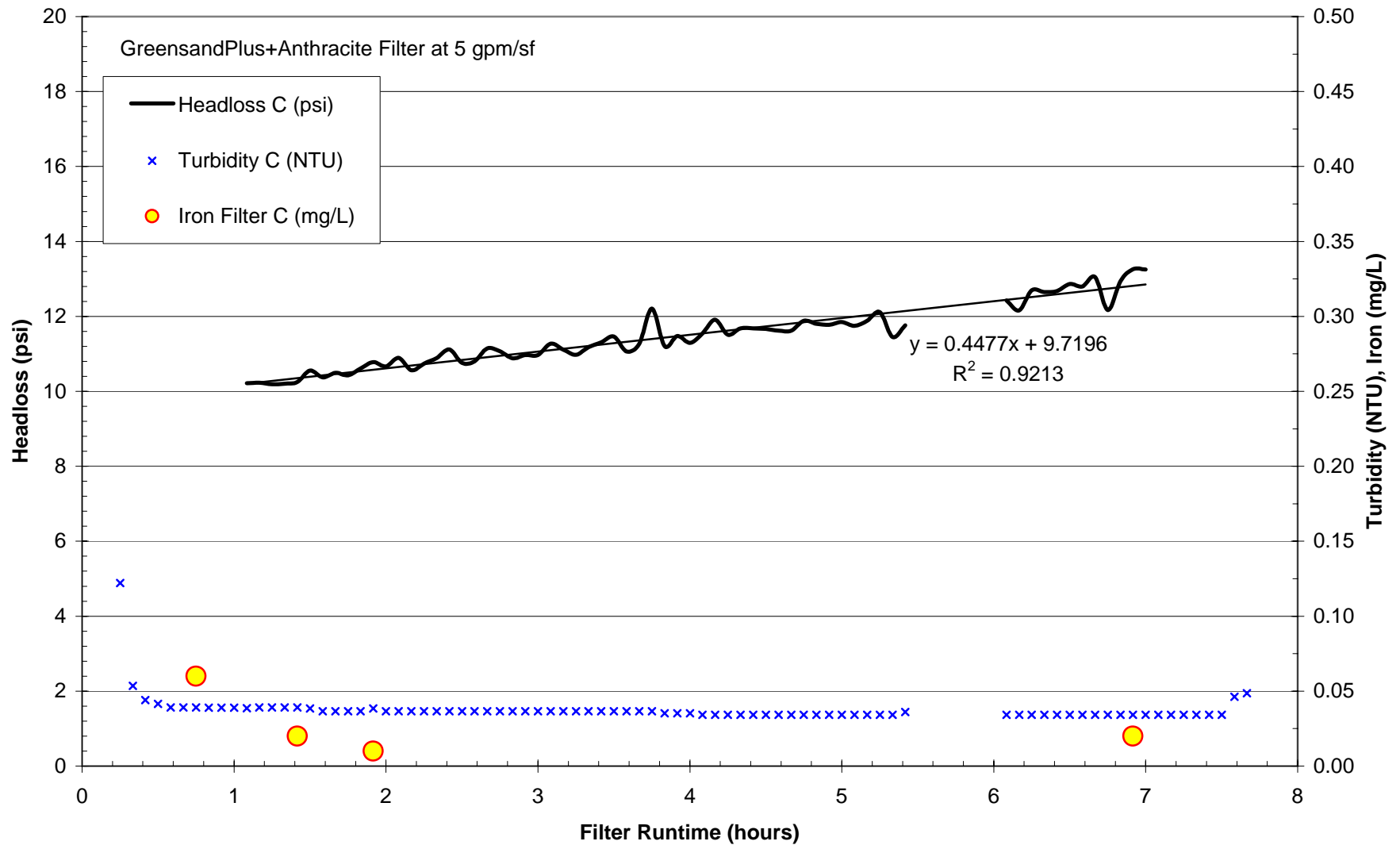
**Figure 10: Headloss and Water Quality Results for Filter Trial 3, Filter A
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



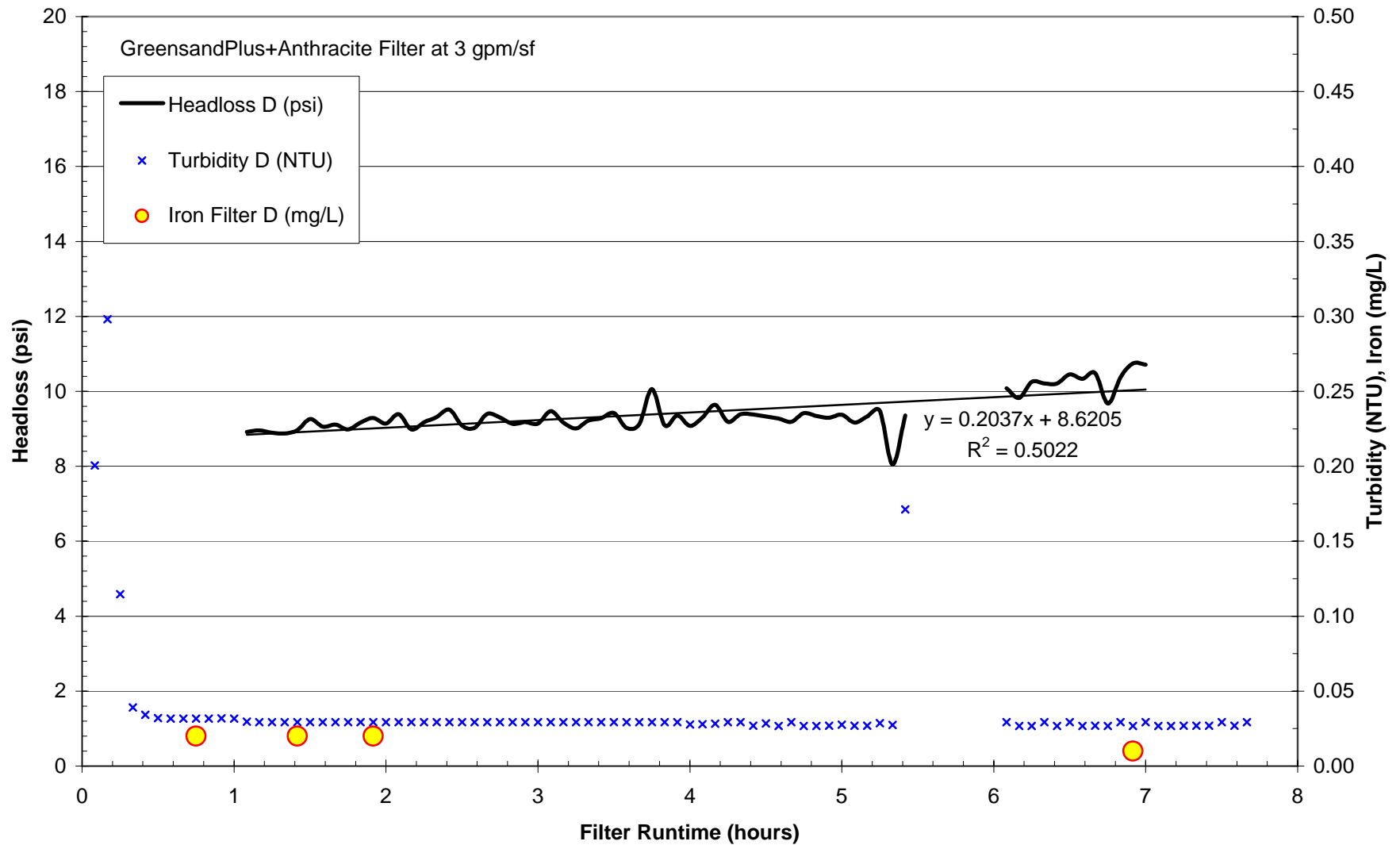
**Figure 11: Headloss and Water Quality Results for Filter Trial 3, Filter B
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



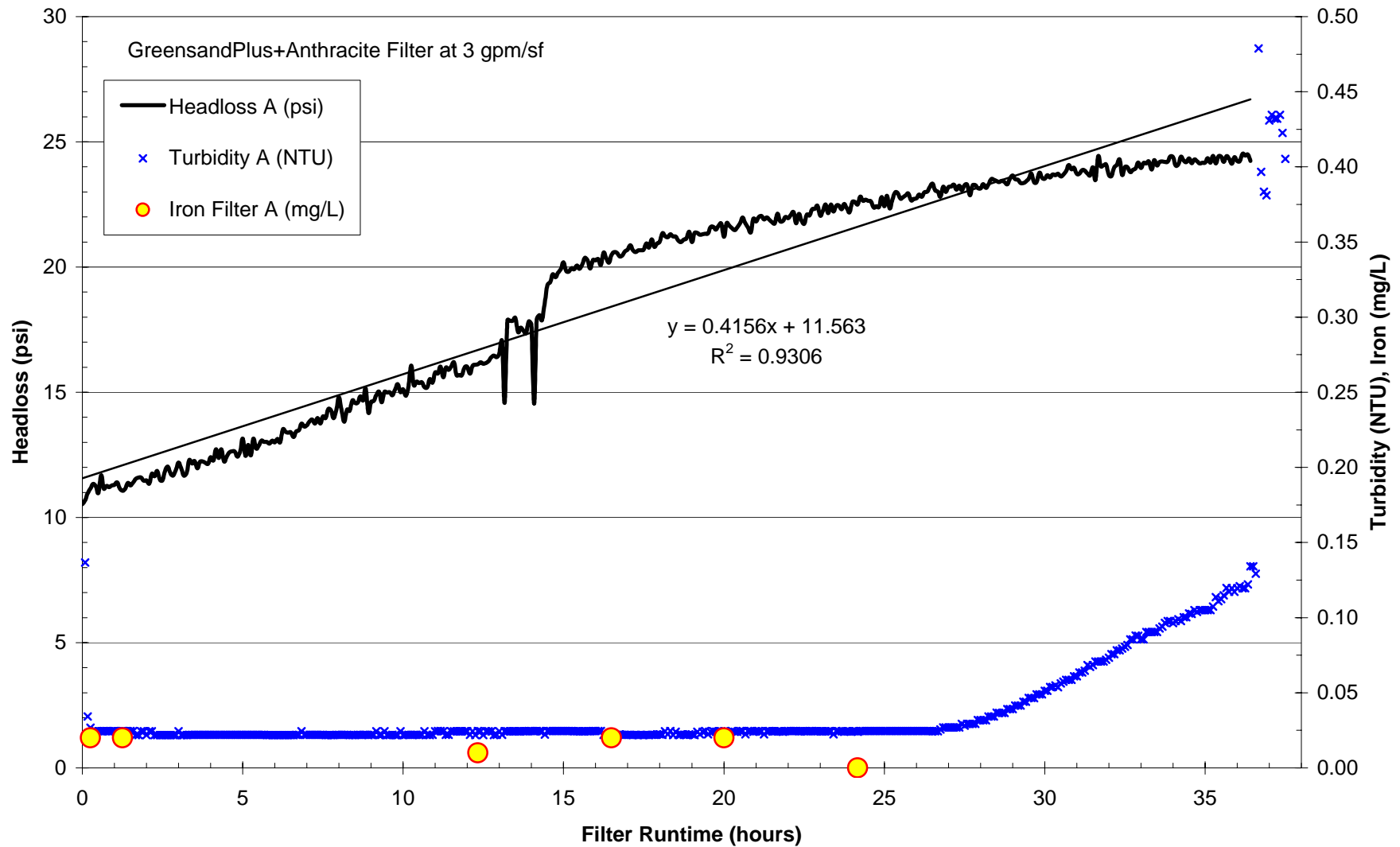
**Figure 12: Headloss and Water Quality Results for Filter Trial 3, Filter C
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



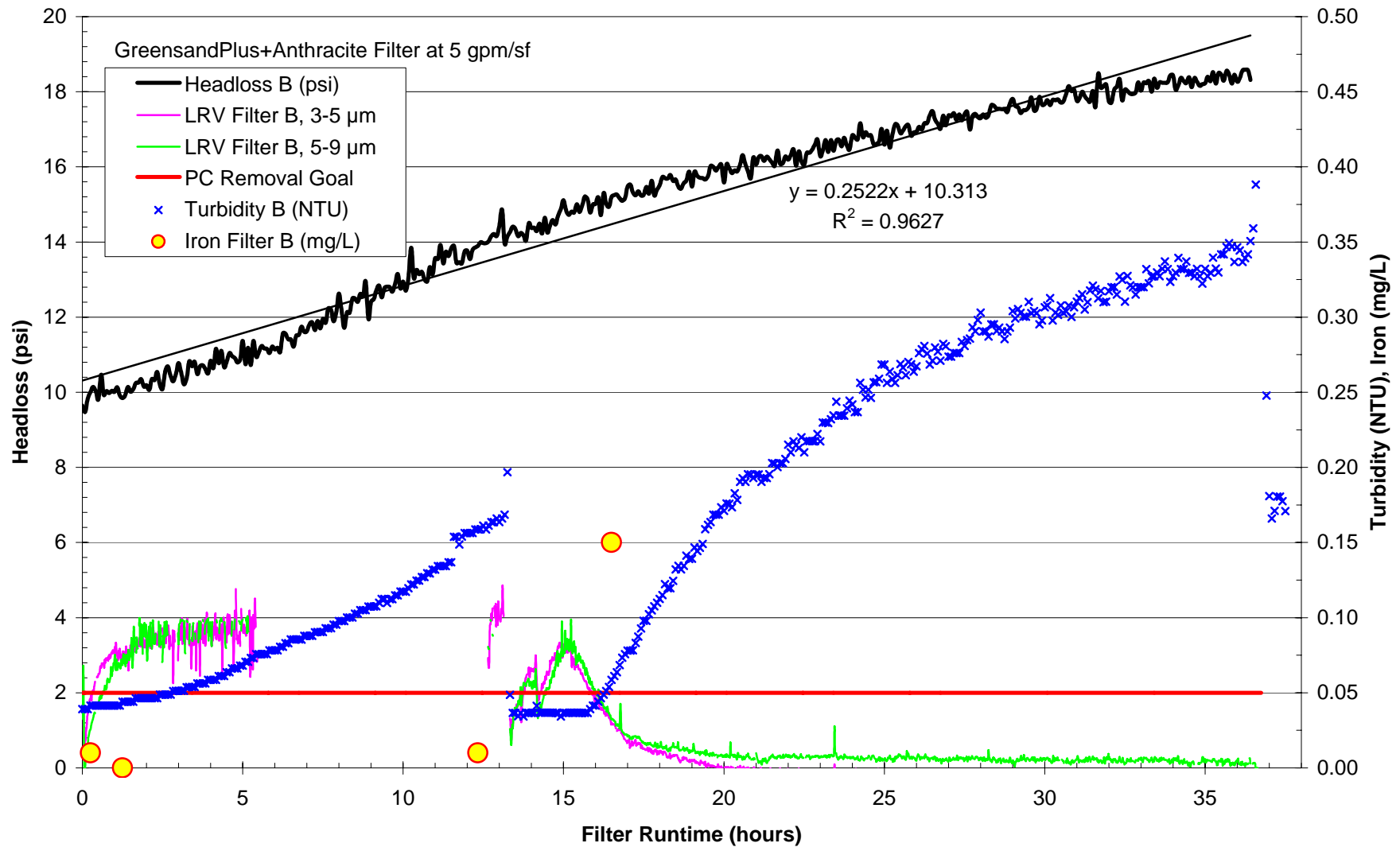
**Figure 13: Headloss and Water Quality Results for Filter Trial 3, Filter D
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



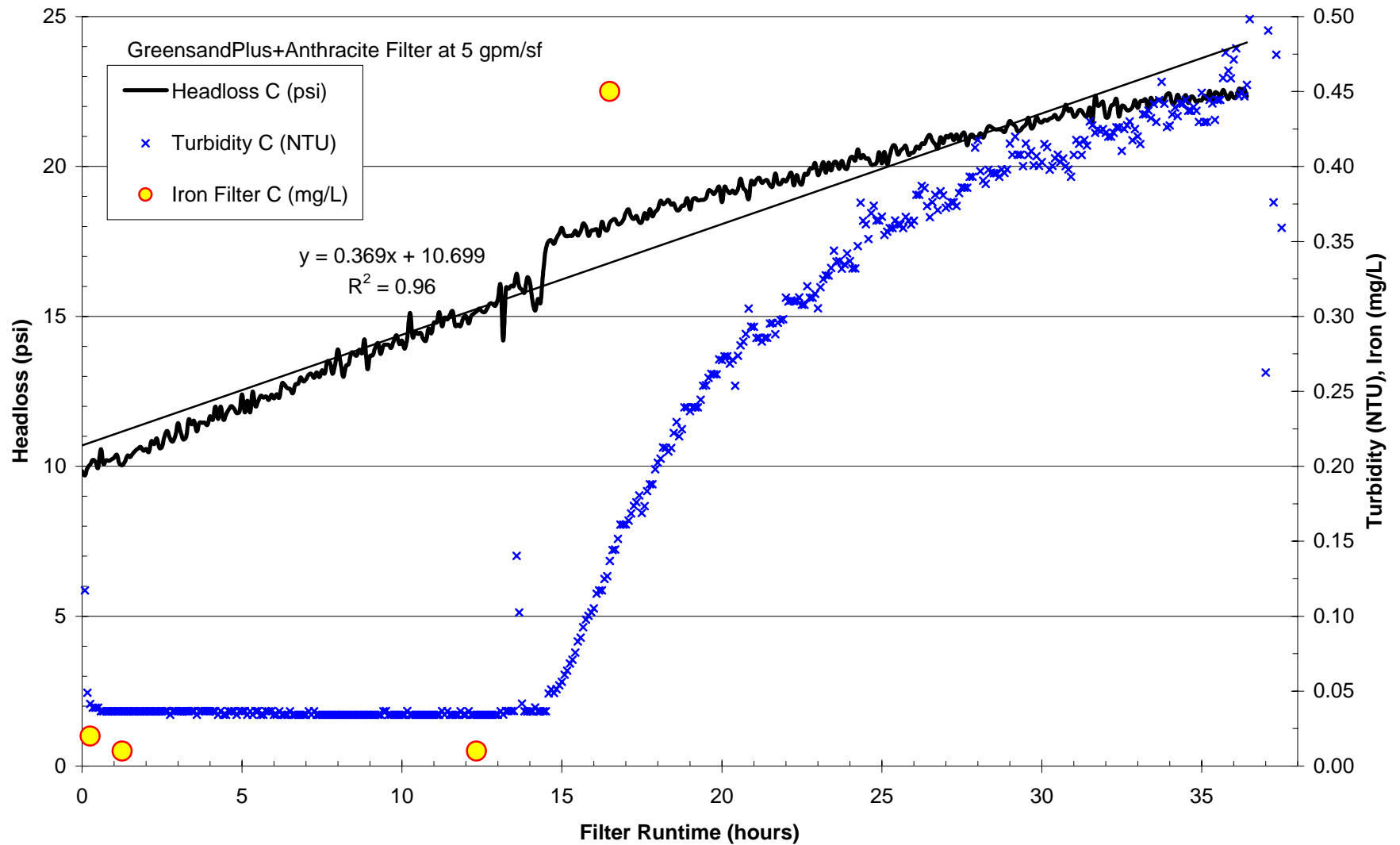
**Figure 14: Headloss and Water Quality Results for Trial 4, Filter A
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



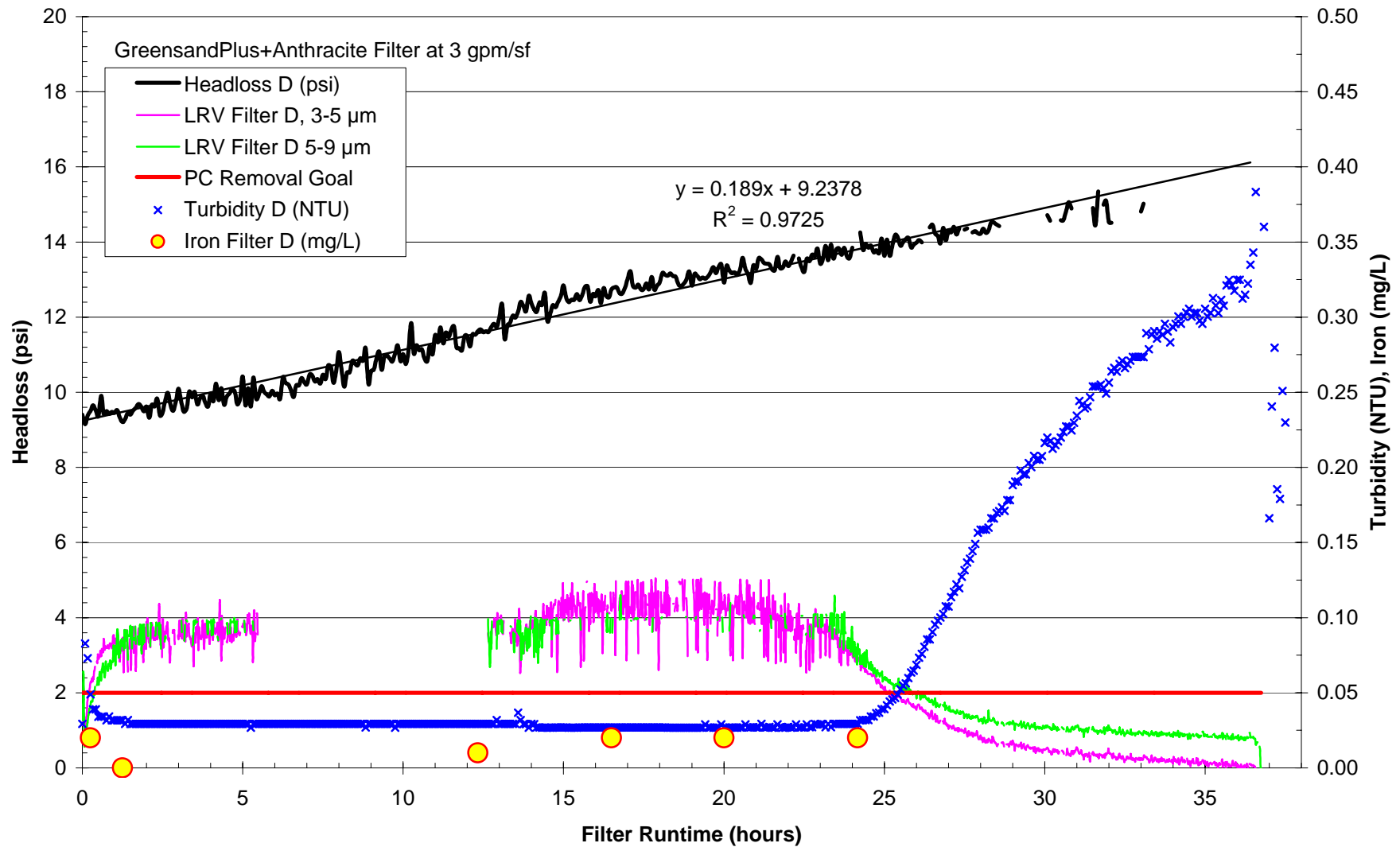
**Figure 15: Headloss and Water Quality Results for Trial 4, Filter B
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



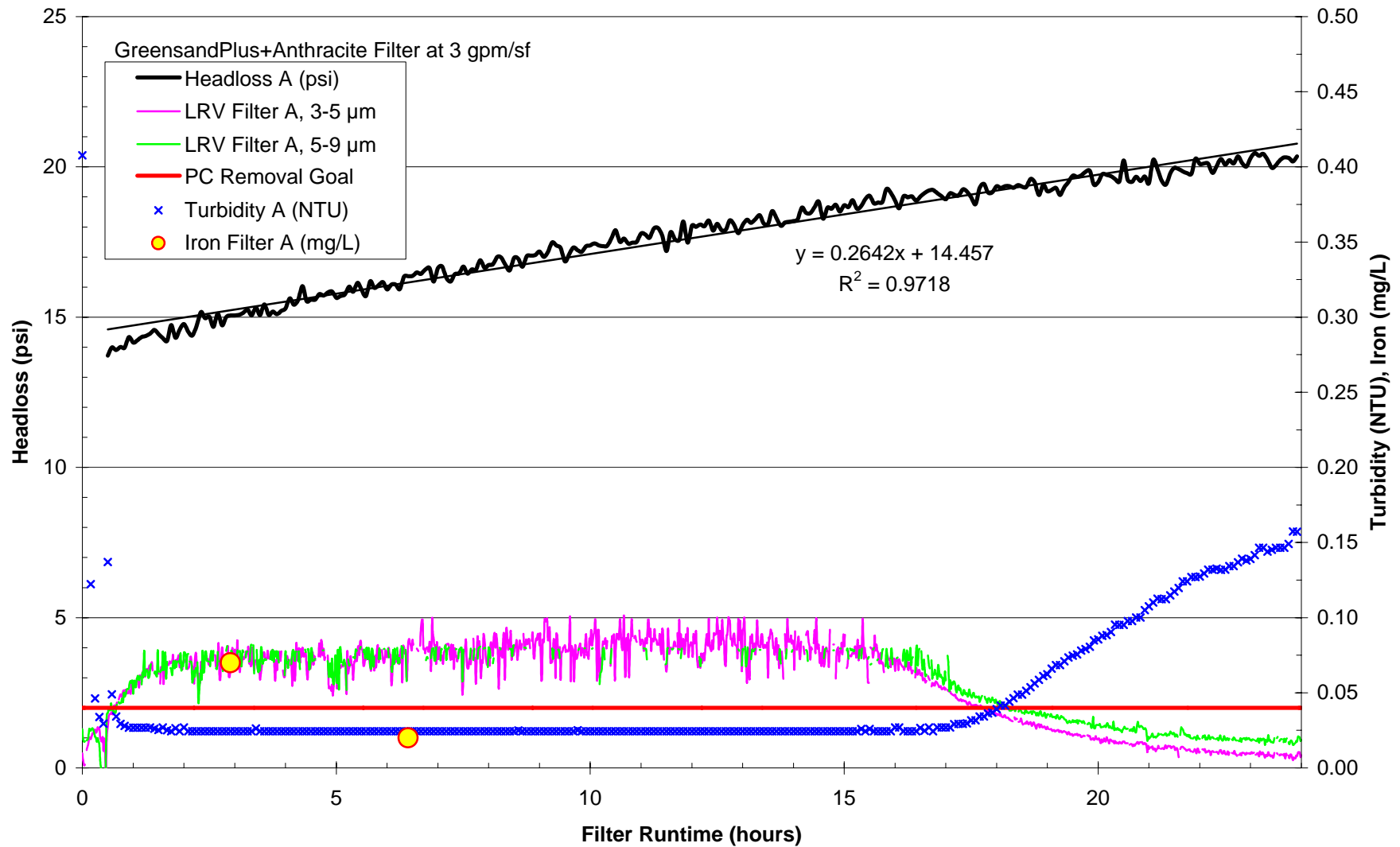
**Figure 16: Headloss and Water Quality Results for Trial 4, Filter C
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



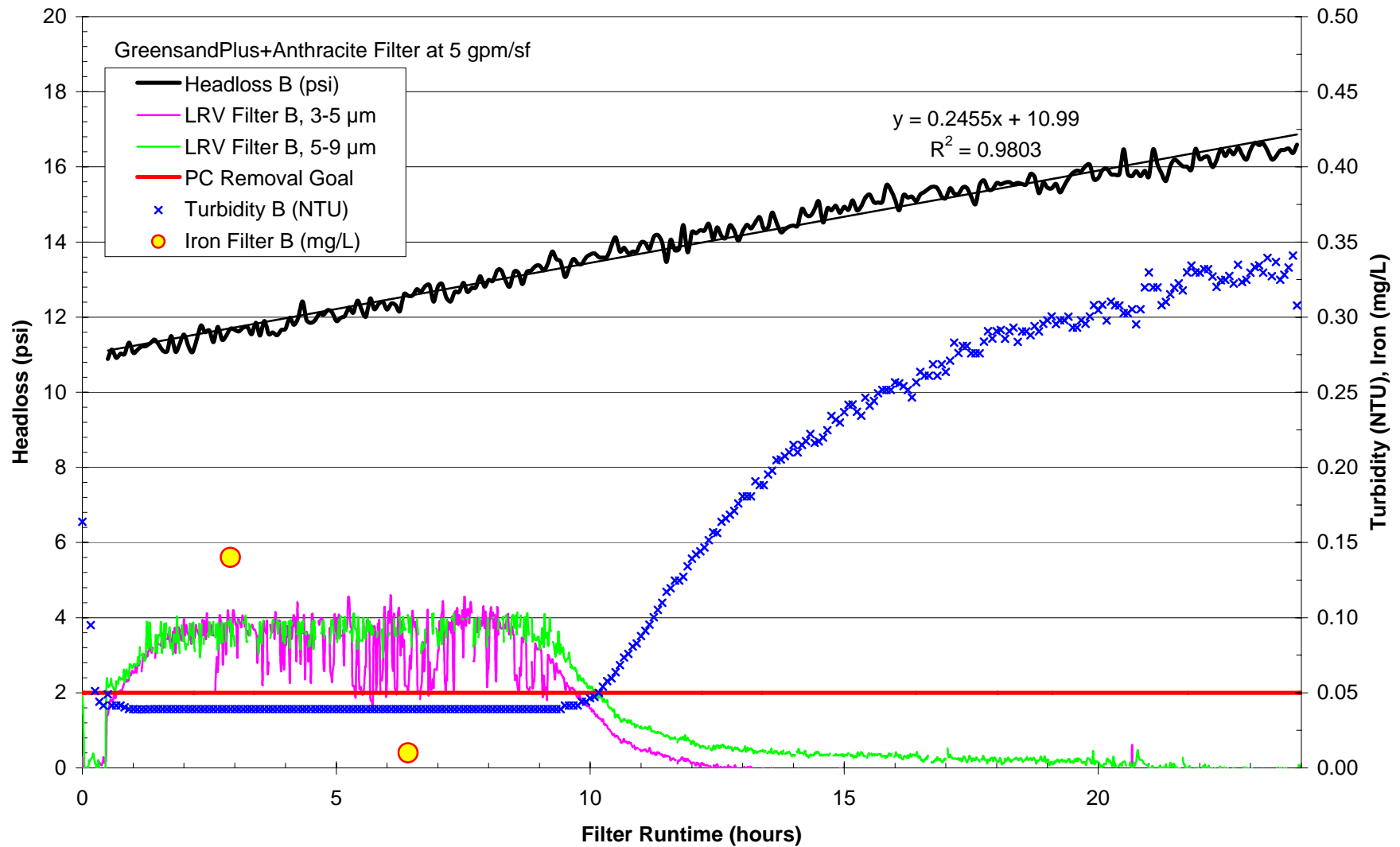
**Figure 17: Headloss and Water Quality Results for Trial 4, Filter D
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



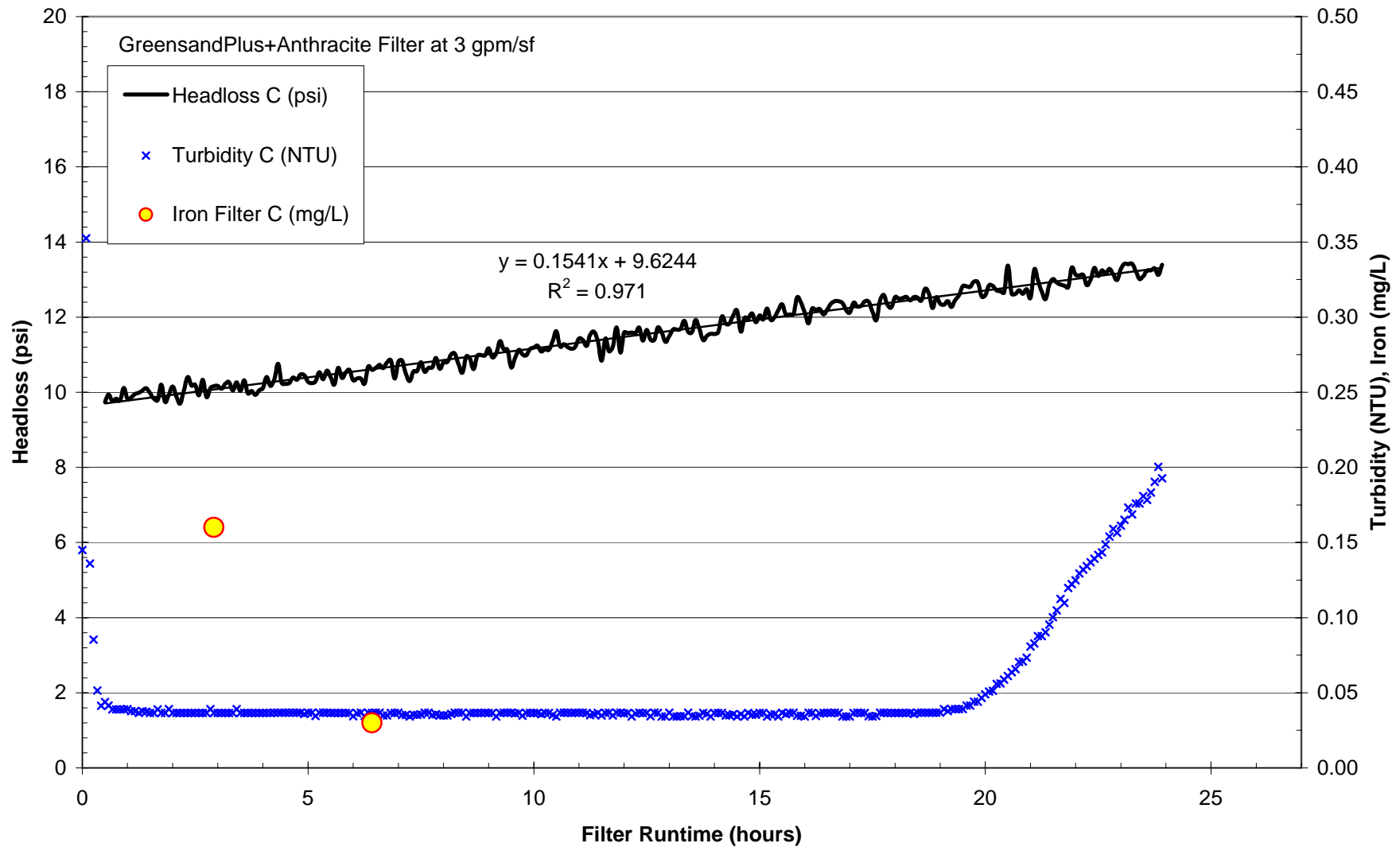
**Figure 18: Headloss and Water Quality Results for Trial 5, Filter A
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



**Figure 19: Headloss and Water Quality Results for Trial 5, Filter B
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



**Figure 20: Headloss and Water Quality Results for Trial 5, Filter C
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**



**Figure 21: Headloss and Water Quality Results for Trial 5, Filter C
Hopedale Green Street Pilot Study, Hopedale MA - February 2010**

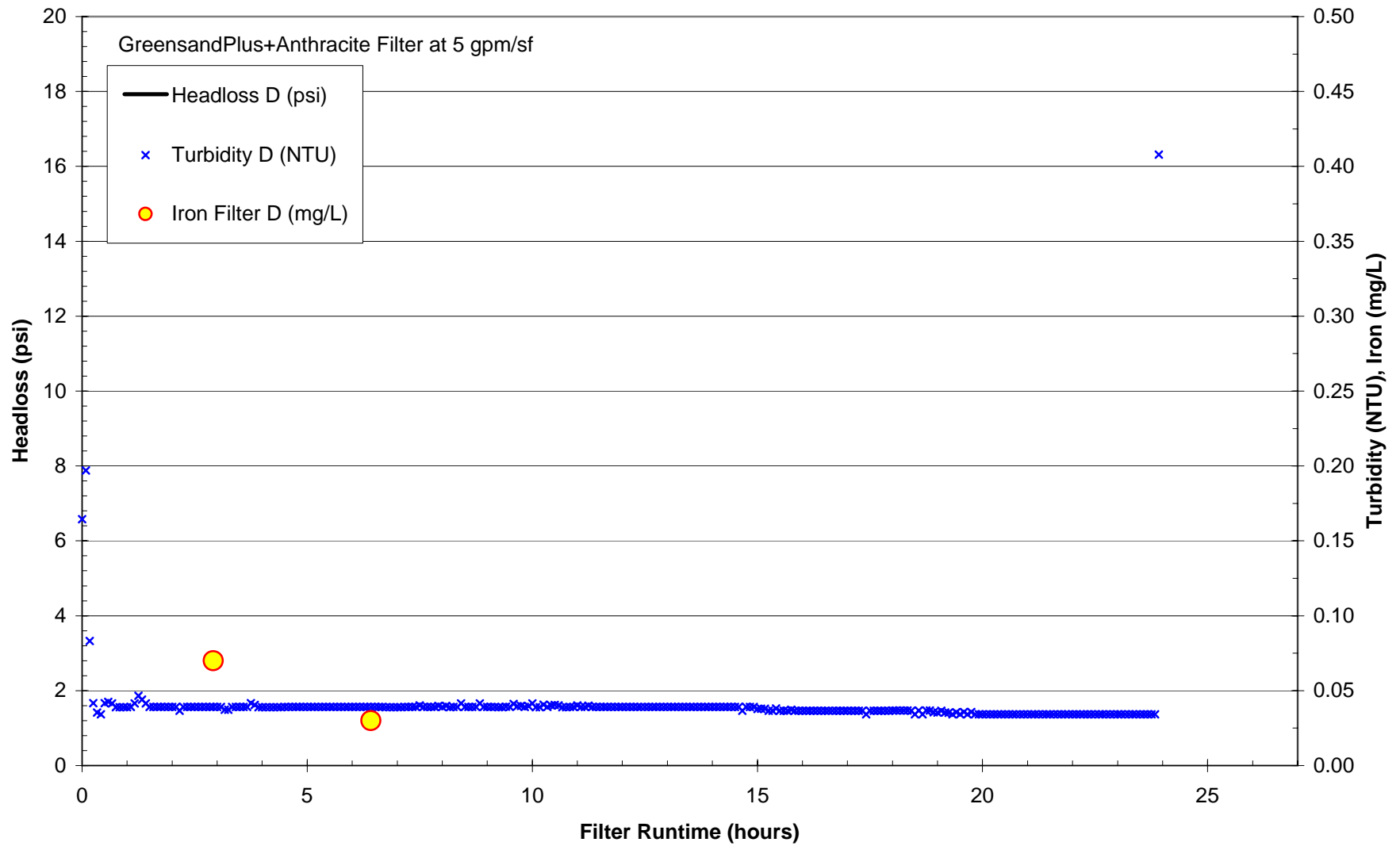
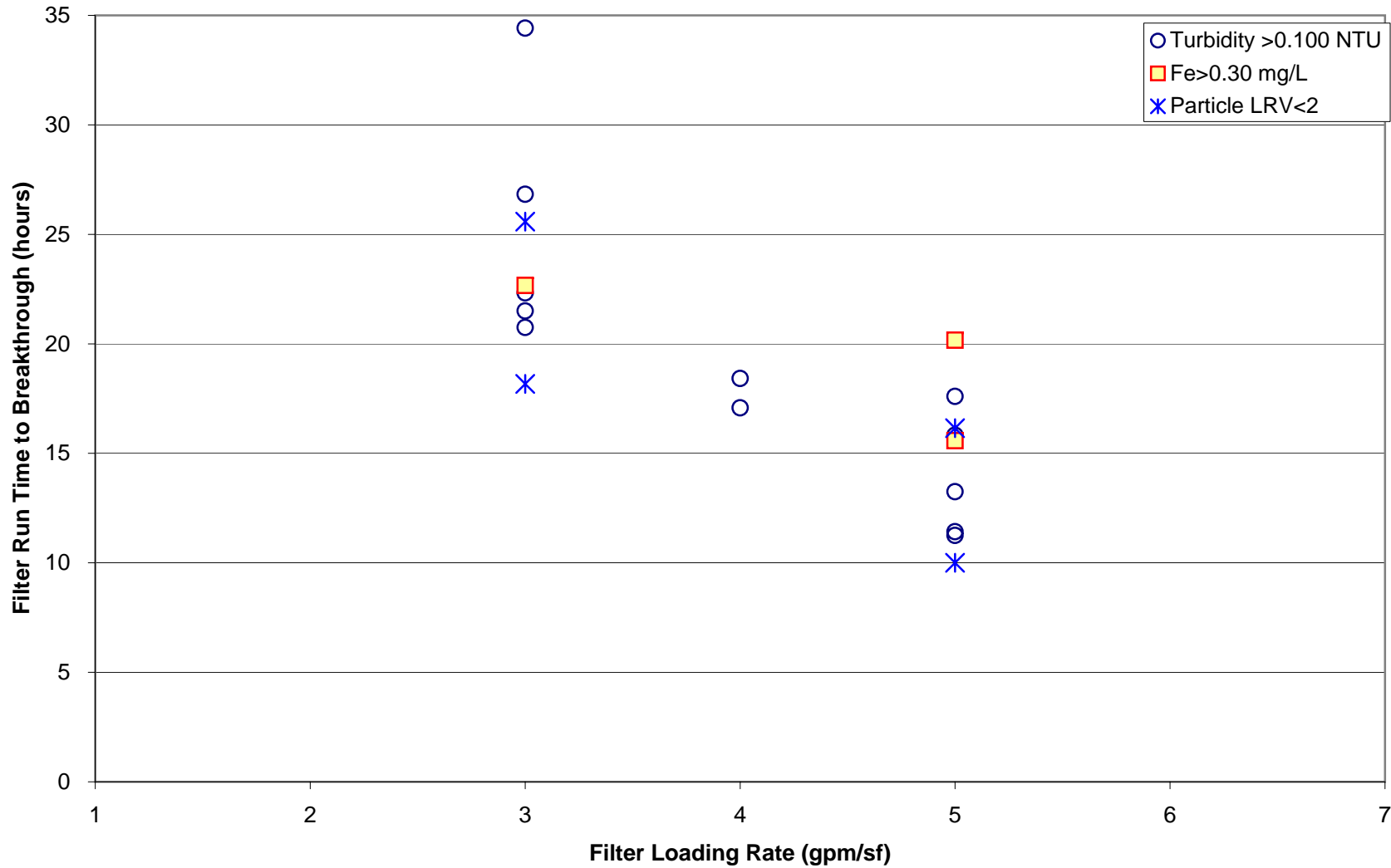


Table 7: Filter Trial Terminations

Run	FLR (gpm/sf)	Turbidity >0.100 NTU	Fe >0.30 mg/L	Particle LRV <2.0
1A	4.0	17.08		
1B	4.0			
1C	4.0	18.42		
1D	4.0			
2A	5.0	13.25		
2B	3.0			
2C	5.0	11.42		
2D	3.0	22.33	22.67	
3A	3.0			
3B	5.0			
3C	5.0			
3D	3.0			
4A	3.0	34.42		
4B	5.0	17.60	20.17	16.15
4C	5.0	15.83	15.58	
4D	3.0	26.83		25.58
5A	3.0	20.75		18.17
5B	5.0	11.25		10.00
5C	3.0	21.50		
5D	5.0			

**Figure 22: Filter Run Time as a function of Loading Rate
Greensand Plus Media, Hopedale, MA - February 2010**



Figures 15, 17, 18, and 19 show that the breakthrough of turbidity was simultaneous with the breakthrough of particles. Filter run times to breakthrough of any of the contaminants of interest was dependent on the filter loading rate, with run times in excess of 24 hours possible with filter loading rates less than 3 gpm/sf. Note that the full-scale treatment system should not be designed to operate to breakthrough without appropriate monitoring and control.

3.4 Filter Headloss

The pressure losses attributed to the clean media at different loading rates are shown in Table 8. For 24 of the 25 filter trials, a line was fit to each set of pressure data by linear regression; the slope of each line represents the rate at which pressure losses increased across the filter, and the y-intercept represents the initial pressure loss at the start of the filter run (the clean-bed loss). The equation for each regression line is included in Table 8. Note that the relative increase in pressure loss from the initial value over the course of a filter run is the most significant information (i.e. the slope); the absolute value of pressure loss was not representative of the loss across the filter alone, since it also included line losses upstream and downstream of the filter ($\frac{1}{2}$ " and $\frac{3}{4}$ " lines). The predicted head loss development over a 24-hour period was calculated from the slope, and does include initial clean bed headlosses.

Table 8: Lines of Regression for Headloss Development

Trial #	FLR (gpm/sf)	Slope (psi/hr)	Y intercept (psi)	Regression Coefficient R²	Project Headloss Increase in 24 hours (psi)
2B	3.0	0.2440	12.3	0.9552	5.9
2D	3.0	0.0658	10.1	0.8366	1.6
3A	3.0	0.2189	10.1	0.5585	5.3
3D	3.0	0.2037	8.6	0.5022	4.9
4A	3.0	0.4156	11.6	0.9306	10.0
4D	3.0	0.1890	9.2	0.9725	4.5
5A	3.0	0.2642	14.5	0.9718	6.3
5C	3.0	0.1451	9.6	0.9710	3.5
1A	4.0	0.3151	7.9	0.9906	7.6
1B	4.0	0.5032	9.2	0.9816	12.1
1C	4.0	0.2499	7.8	0.9922	6.0
1D	4.0	0.1917	7.9	0.9515	4.6
2A	5.0	0.1448	10.1	0.9629	3.5
2C	5.0	0.1677	11.3	0.9389	4.0
3B	5.0	0.4947	11.2	0.9419	11.9
3C	5.0	0.4477	9.7	0.9213	10.7
4B	5.0	0.2522	10.3	0.9627	6.1
4C	5.0	0.3690	10.7	0.9600	8.9
5B	5.0	0.2455	11.0	0.9803	5.9
5D	5.0	Pressure transducer did not record			

3.5 Backwash Characteristics

Backwash was collected for field analyses following the end of trials C4, D3, and D4. Samples were allowed to settle for ten hours and the supernatant was analyzed for Fe and Mn concentrations by field methods.

Table 9: Results of Backwash Settling Test

Elapsed Time (Minutes)	Settled Solids (mLs/L)	Supernatant Turbidity (NTU)
0	1000, 1000, 1000, 1000	
10	180, 200, 230, 200	50, 85, 92, 100+
20	90, 120, 140, 120	
30	90,100, 110, 100	
40	80, 90, 85, 80	
50	70, 70, 80, 70	
60	70, 60, 70,70	5.0, 6.0, 4.5, 4.5
120	70, 50, 60, 70	4.5, 4.1, 5.5, 3.9
240	60, 50, 60, 60	

The settling tests indicated that sludge volumes were reduced to between 6% and 7% of total backwash volume after only 1 hour of settling. Settling quickly resulted in a two-phase waste consisting of a concentrated and relatively low-volume sludge, and a supernatant with Fe and Mn concentrations comparable to raw water and likely suitable for recycling.

4 CONCLUSIONS

1. The raw water contained 3.1 mg iron/L, 0.38 mg manganese/L, and had a pH of 5.5.
2. The pilot study utilized pH adjustment prior to filtration with potassium hydroxide at doses of 100 to 170 mg/L for a filter influent pH of 7.2 to 7.8.
3. The pilot study utilized sodium hypochlorite to obtain a free chlorine residual of 0.33 to 0.68 mg/L, and a total chlorine residual of 1.41 to 2.43 mg/L.
4. The media tested in the pilot system could effectively produce finished waters with Fe concentrations below the SMCL of 0.3 mg/L, and Mn concentrations below the SMCL of 0.05 mg/L.
5. The filtration system was capable of 3.13 to 3.74 removal of particles in the 2-5 μm range, and 2.95 to 3.52 log removal of particles in the 5-9 μm range. Log removal values were slightly higher in the lower rate (3 gpm/sf) filters than in the higher rate (5 gpm/sf) filters.
6. There were no statistical or practical differences in finished water iron concentrations between filter surface loading rates ranging from 3 to 5 gpm/sf. There was a marked reduction in manganese removal with a loss of chlorine residual, but the manganese removal was maintained with a restoration of the chlorine feed.
7. Filter runtimes were limited by contaminant breakthrough based on filter loading rates:
 - 3 gpm/sf; average 24 hours, 18.2 hour minimum, and 34.4 hours maximum
 - 4 gpm/sf, average 17.7 hours, 17.1 hours minimum, and 18.4 hours maximum
 - 5 gpm/sf, 15.2 hours, 10 hours minimum, 20.2 hours maximum
8. Iron breakthrough was reliably predicted by a finished water turbidity of 0.1 NTU. The 0.1 NTU threshold also coincided with log removal values dropping to below 2 logs. Manganese breakthrough was never observed during the pilot study, prior to filter run termination based on iron and/or turbidity breakthrough.

9. The rates of pressure loss development across the filters increased with increasing filter loading rates. The headlosses at 24 hours run time were observed to be:
- 3 gpm/sf; between 0.19 and 0.40 psi per hour
 - 4 gpm/sf, between 0.19 and 5.0 psi per hour
 - 5 gpm/sf, between 0.15 and 5.0 psi per hour
10. There was a marked accumulation of settled backwash sludge after 1 hour of settling. The iron and manganese concentrations in the supernatant were lower than raw water concentrations, suggesting that it would be possible to recycle backwash after settling alone.

APPENDICES

Appendix A - Field Water Quality

Hopedale MA Pilot Study Report
Water Quality Field Data

Row #	Page no.	Date & Time	Trial	FLR	Sample	Cl2_free	Cl2_total	Fe (t)	Fe(d)	Mn (t)	Mn(d)	temp.	Pressure (psi)	Turb(NTU)	pH (#1)	pH(#4)	pH(#5)	Avg pH
2	1	02/22/2010 14:50	1		01 - RAW			2.79		0.383		9.4	38.0		6.20	5.50	5.44	5.71
3	1	02/22/2010 14:50	1		02 - POX	0.17	0.55		0.05		0.309	9.7			7.69	7.09	6.66	7.15
4	1	02/22/2010 14:50	1	4	06 - FILTER A	0.07	0.53	0.01		0.143		9.8	22.7		7.31	6.59	6.67	6.86
5	1	02/22/2010 14:50	1	4	07 - FILTER B	0.09	0.53	0.02		0.011		9.7	23.0		7.36	6.74	6.74	6.95
6	1	02/22/2010 14:50	1	4	08 - FILTER C	0.10	0.55	0.06		0.018		9.7	24.0		7.41	6.74	6.75	6.97
7	1	02/22/2010 14:50	1	4	09 - FILTER D	0.14	0.57	0.03		0.017		9.7	24.0		7.38	6.74	6.75	6.96
8	2	02/23/2010 08:00	1		01 - RAW			2.97		0.392		9.3	37.0		5.73	5.39		5.56
9	2	02/23/2010 08:00	1		02 - POX	0.04	0.48	3.15		0.347		9.3			7.02	6.91		6.97
10	2	02/23/2010 08:00	1	4	06 - FILTER A	0.05	0.52	0.72		0.376		9.4	18.0		6.98	6.61		6.80
11	2	02/23/2010 08:00	1	4	07 - FILTER B	0.04	0.62	0.03		0.313		9.4	19.0		6.96	6.42		6.69
12	2	02/23/2010 08:00	1	4	08 - FILTER C	0.05	0.58	0.21		0.009		9.4	20.0		6.95	6.40		6.68
13	2	02/23/2010 08:00	1	4	09 - FILTER D	0.12	0.62	0.01		0.065		9.4	21.0		6.95	6.37		6.66
14	2	02/23/2010 08:50	1		01 - RAW			2.89		0.365		9.3	37.0		5.51	5.30		5.41
15	2	02/23/2010 08:50	1		02 - POX	0.04	0.62	2.87		0.313		9.4			7.20	6.69		6.95
16	2	02/23/2010 08:50	1	4	06 - FILTER A	0.09	0.60	0.71		0.345		9.4	18.0		6.98	6.43		6.71
17	2	02/23/2010 08:50	1	4	07 - FILTER B	0.04	0.60	0.02		0.014		9.4	19.0		6.96	6.42		6.69
18	2	02/23/2010 08:50	1	4	08 - FILTER C	0.15	0.58	0.35		0.009		9.4	20.0		6.95	6.40		6.68
19	2	02/23/2010 08:50	1	4	09 - FILTER D	0.12	0.62	0.01		0.065		9.4	21.0		6.95	6.37		6.66
20	3	02/23/2010 13:30	2		01 - RAW			3.03		0.398		9.4	37.0		5.59	5.18		5.39
21	3	02/23/2010 13:30	2		03 - POX A&B	0.04	0.03	2.92		0.346		9.6			6.82	6.47		6.65
22	3	02/23/2010 13:30	2		04 - POX C&D	0.04	0.02	3.55		0.367		9.4			6.31	5.78		6.05
23	3	02/23/2010 13:30	2	5	06 - FILTER A	0.03	0.05	0.03		0.358		9.5	14.0		6.60	6.15		6.38
24	3	02/23/2010 13:30	2	3	07 - FILTER B	0.02	0.02	0.04		0.163		9.5	15.0		6.69	6.22		6.46
25	3	02/23/2010 13:30	2	5	08 - FILTER C	0.03	0.04	0.04		0.026		9.4	14.0		6.24	5.71		5.98
26	3	02/23/2010 13:30	2	3	09 - FILTER D	0.03	0.05	0.04		0.391		9.5	15.0		6.24	5.73		5.99
27	3	02/23/2010 14:10	2		01 - RAW			3.29		0.398		9.4	37.0		5.64	5.11		5.38
28	3	02/23/2010 14:10	2		03 - POX A&B	0.06	0.02	2.94		0.360		9.5			7.27	7.26		7.27
29	3	02/23/2010 14:10	2		04 - POX C&D	0.05	0.02	3.10		0.360		9.4			6.40	5.95		6.18
30	3	02/23/2010 14:10	2	5	06 - FILTER A	0.02	0.09	0.02		0.313		9.4	14.0		6.72	6.23		6.48
31	3	02/23/2010 14:10	2	3	07 - FILTER B	0.02	0.07	0.03		0.100		9.5	15.0		6.77	6.28		6.53
32	3	02/23/2010 14:10	2	5	08 - FILTER C	0.06	0.03	0.02		0.020		9.4	14.0		6.27	5.73		6.00
33	3	02/23/2010 14:10	2	3	09 - FILTER D	0.02	0.04	0.02		0.440		9.5	15.00		6.26	5.73		6.00
34	3	02/23/2010 14:50	2		01 - RAW			3.17		0.383		9.4	37.00		5.65	5.10		5.38
35	3	02/23/2010 14:50	2		03 - POX A&B	0.05	0.02	2.97		0.346		9.5			7.33	7.28		7.31
36	3	02/23/2010 14:50	2		04 - POX C&D	0.08	0.05	2.99		0.389		9.4			6.33	5.98		6.16
37	3	02/23/2010 14:50	2	5	06 - FILTER A	0.03	0.06	0.01		0.302		9.4	14.00		6.75	6.26		6.51
38	3	02/23/2010 14:50	2	3	07 - FILTER B	0.03	0.02	0.01		0.071		9.5	15.00		6.78	6.28		6.53
39	3	02/23/2010 14:50	2	5	08 - FILTER C	0.02	0.05	0.01		0.008		9.4	14.00		6.24	5.71		5.98
40	3	02/23/2010 14:50	2	3	09 - FILTER D	0.03	0.03	0.01		0.452		9.5	15.00		6.25	5.72		5.99
41	4	02/24/2010 08:30	2		01 - RAW			3.15		0.359		9.2	36.00		5.75	5.18		5.47
42	4	02/24/2010 08:30	2		03 - POX A&B	0.04	0.06	3.13		0.333		9.2			7.02	7.09		7.06
43	4	02/24/2010 08:30	2		04 - POX C&D	0.03	0.03	3.81		0.351		9.2			6.59	6.15		6.37
44	4	02/24/2010 08:30	2	3	07 - FILTER B	0.01	0.05	0.01		0.106		9.3	15.00		7.29	6.97		7.13
45	4	02/24/2010 08:30	2	3	09 - FILTER D	0.01	0.04	0.02		0.394		9.3	15.00		6.62	6.21		6.42
46	4	02/24/2010 09:20	2		01 - RAW			2.82	0.36	0.363		9.4	36.00		5.57	5.25		5.41
47	4	02/24/2010 09:20	2		03 - POX A&B	0.03	0.04	2.66		0.371		9.4			7.11	7.22		7.17

Hopedale MA Pilot Study Report
Water Quality Field Data

Row #	Page no.	Date & Time	Trial	FLR	Sample	Cl2_free	Cl2_total	Fe (t)	Fe(d)	Mn (t)	Mn(d)	temp.	Pressure (psi)	Turb(NTU)	pH (#1)	pH(#4)	pH(#5)	Avg pH
48	4	02/24/2010 09:20	2		04 - POX C&D	0.03	0.03	3.38		0.365		9.3			6.12	5.77		5.95
49	4	02/24/2010 09:20	2	3	07 - FILTER B	0.01	0.05	0.01		0.036		9.2	15.00		6.81	6.31		6.56
50	4	02/24/2010 09:20	2	3	09 - FILTER D	0.02	0.04	0.10		0.393		9.2	16.00		6.15	5.67		5.91
51	4	02/24/2010 10:00	2		01 - RAW			3.19		0.375		9.3	36.00		5.55	5.07		5.31
52	4	02/24/2010 10:00	2		03 - POX A&B	0.03	0.03	3.10		0.356		9.2			7.24	6.90		7.07
53	4	02/24/2010 10:00	2		04 - POX C&D	0.03	0.03	3.13		0.342		9.2			6.25	5.73		5.99
54	4	02/24/2010 10:00	2	3	07 - FILTER B	0.01	0.04	0.01		0.089		9.2	15.00		6.81	6.31		6.56
55	4	02/24/2010 10:00	2	3	09 - FILTER D	0.02	0.05	0.26		0.377		9.2	16.00		6.15	5.67		5.91
56	5	02/24/2010 12:30	3		01 - RAW			2.87		0.390		9.3	36.00		5.61	5.53		5.57
57	5	02/24/2010 12:30	3		02 - POX	0.02	0.23	3.03		0.347		9.5			7.03	6.88		6.96
58	5	02/24/2010 12:30	3	3	06 - FILTER A	0.01	0.15	0.03		0.401		9.4	15.00		6.83	6.58		6.71
59	5	02/24/2010 12:30	3	5	07 - FILTER B	0.01	0.29	0.02		0.470		9.4	16.00		6.63	6.57		6.60
60	5	02/24/2010 12:30	3	5	08 - FILTER C	0.03	0.29	0.06		0.093		9.4	16.00		6.61	6.53		6.57
61	5	02/24/2010 12:30	3	3	09 - FILTER D	0.02	0.29	0.02		0.257		9.4	17.00		6.57	6.51		6.54
62	5	02/24/2010 13:10	3		01 - RAW			3.16		0.374		9.2	36.00		5.61	5.51		5.56
63	5	02/24/2010 13:10	3		02 - POX	0.04	0.26	3.08		0.340		9.4			7.08	7.04		7.06
64	5	02/24/2010 13:10	3	3	06 - FILTER A	0.03	0.32	0.02		0.365		9.4	15.00		6.68	6.60		6.64
65	5	02/24/2010 13:10	3	5	07 - FILTER B	0.02	0.34	0.02		0.374		9.4	16.00		6.65	6.53		6.59
66	5	02/24/2010 13:10	3	5	08 - FILTER C	0.05	0.34	0.02		0.062		9.4	16.00		6.63	6.48		6.56
67	5	02/24/2010 13:10	3	3	09 - FILTER D	0.04	0.31	0.02		0.166		9.4	17.00		6.62	6.49		6.56
68	5	02/24/2010 13:40	3		01 - RAW			3.01		0.344		9.3	36.00		5.68	5.45		5.57
69	5	02/24/2010 13:40	3		02 - POX	0.04	0.33	2.85		0.310		9.5			7.08	7.18		7.13
70	5	02/24/2010 13:40	3	3	06 - FILTER A	0.03	0.31	0.02		0.384		9.4	15.00		6.73	6.74		6.74
71	5	02/24/2010 13:40	3	5	07 - FILTER B	0.02	0.32	0.01		0.361		9.4	16.00		6.72	6.65		6.69
72	5	02/24/2010 13:40	3	5	08 - FILTER C	0.03	0.32	0.01		0.070		9.4	16.00		6.67	6.59		6.63
73	5	02/24/2010 13:40	3	3	09 - FILTER D	0.03	0.32	0.02		0.152		9.4	17.00		6.66	6.60		6.63
74	6	02/24/2010 15:45	3		01 - RAW					0.363								
75	6	02/24/2010 15:45	3		02 - POX	0.40	1.85			0.314								
76	6	02/24/2010 15:45	3	3	06 - FILTER A	0.06	1.49			0.333								
77	6	02/24/2010 15:45	3	5	07 - FILTER B	0.05	1.42			0.314								
78	6	02/24/2010 15:45	3	5	08 - FILTER C	0.07	1.47			0.060								
79	6	02/24/2010 15:45	3	3	09 - FILTER D	0.09	1.43			0.133								
80	6	02/24/2010 16:25	3		01 - RAW													
81	6	02/24/2010 16:25	3		02 - POX	0.42												
82	6	02/24/2010 16:25	3	3	06 - FILTER A	0.06												
83	6	02/24/2010 16:25	3	5	07 - FILTER B	0.08												
84	6	02/24/2010 16:25	3	5	08 - FILTER C	0.13												
85	6	02/24/2010 16:25	3	3	09 - FILTER D	0.11												
86	6	02/24/2010 18:40	3		01 - RAW			2.54		0.387		9.4	36.10		5.57	5.81		5.69
87	6	02/24/2010 18:40	3		02 - POX	2.41	2.14								6.76	7.11		6.94
88	6	02/24/2010 18:40	3	3	06 - FILTER A	0.09	0.77	0.02		0.147			13.00		6.66	6.99		6.83
89	6	02/24/2010 18:40	3	5	07 - FILTER B	0.01	0.76	0.01		0.235			15.10		6.60	6.81		6.71
90	6	02/24/2010 18:40	3	5	08 - FILTER C	0.49	1.28	0.02		0.057			14.90		6.55	6.75		6.65
91	6	02/24/2010 18:40	3	3	09 - FILTER D	0.29	1.03	0.01		0.107			18.00		6.54	6.73		6.64
92	7	02/24/2010 19:45	4		01 - RAW			3.67		0.403			36.10		5.48	5.63		5.56
93	7	02/24/2010 19:45	4		02 - POX	2.43	3.70								6.63	6.72		6.68

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Row #	Page no.	Date & Time	Trial	FLR	Sample	Cl2_free	Cl2_total	Fe (t)	Fe(d)	Mn (t)	Mn(d)	temp.	Pressure (psi)	Turb(NTU)	pH (#1)	pH(#4)	pH(#5)	Avg pH
94	7	02/24/2010 19:45	4	3	06 - FILTER A	0.10	0.23	0.02		0.083			13.00		6.45	6.55		6.50
95	7	02/24/2010 19:45	4	5	07 - FILTER B	0.39	1.02	0.01		0.107			11.40		6.48	6.59		6.54
96	7	02/24/2010 19:45	4	5	08 - FILTER C	0.66	1.61	0.02		0.042			13.00		6.49	6.60		6.55
97	7	02/24/2010 19:45	4	3	09 - FILTER D	0.48	1.36	0.02		0.082			14.50		6.51	6.62		6.57
98	7	02/24/2010 20:45	4		01 - RAW			3.07		0.366		9.3	36.10		5.60	5.82		5.71
99	7	02/24/2010 20:45	4		02 - POX	1.83	2.44								7.17	7.25		7.21
100	7	02/24/2010 20:45	4	3	06 - FILTER A	0.14	0.20	0.02		0.019			13.00		6.59	6.66		6.63
101	7	02/24/2010 20:45	4	5	07 - FILTER B	0.33	0.90	0.00		0.018			11.40		6.63	6.74		6.69
102	7	02/24/2010 20:45	4	5	08 - FILTER C	0.55	1.24	0.01		0.009			13.00					
103	7	02/24/2010 20:45	4	3	09 - FILTER D	0.48	1.16	0.00		0.019			14.50					
104	8	02/25/2010 07:50	4		01 - RAW			3.11		0.371		9.4	36.00		5.59	5.58		5.59
105	8	02/25/2010 07:50	4		02 - POX	1.58	2.32								9.26	8.87		9.07
106	8	02/25/2010 07:50	4	3	06 - FILTER A	0.34	0.50	0.01		0.004			10.60		7.07	6.59		6.83
107	8	02/25/2010 07:50	4	5	07 - FILTER B	0.60	0.68	0.01		0.002			6.80		7.00	6.52		6.76
108	8	02/25/2010 07:50	4	5	08 - FILTER C	0.70	1.18	0.01		0.005			9.50		6.96	6.41		6.69
109	8	02/25/2010 07:50	4	3	09 - FILTER D	0.83	1.24	0.01		0.004			12.40		6.94	6.44		6.69
110	8	02/25/2010 10:45	4		01 - RAW													
111	8	02/25/2010 10:45	4		02 - POX							9.4			7.13	7.13		7.13
112	8	02/25/2010 10:45	4	3	06 - FILTER A	0.76	0.98											
113	8	02/25/2010 10:45	4	5	07 - FILTER B	0.99	1.79											
114	8	02/25/2010 10:45	4	5	08 - FILTER C	1.13	1.78											
115	8	02/25/2010 10:45	4	3	09 - FILTER D	0.86	1.65											
116	8	02/25/2010 12:00	4		01 - RAW			3.33		0.386		9.3	36.30		5.66	5.63		5.65
117	8	02/25/2010 12:00	4		02 - POX	2.05	3.54								6.89	6.71		6.80
118	8	02/25/2010 12:00	4	3	06 - FILTER A	0.88	1.06	0.02		0.005			9.30		6.28	6.21		6.25
119	8	02/25/2010 12:00	4	5	07 - FILTER B	1.36	2.14	0.15		0.007			4.90		6.26	6.21		6.24
120	8	02/25/2010 12:00	4	5	08 - FILTER C	1.41	2.43	0.45		0.016			6.30		6.25	6.20		6.23
121	8	02/25/2010 12:00	4	3	09 - FILTER D	1.04	1.62	0.02		0.007			11.00		6.27	6.22		6.25
122	9	02/25/2010 15:30	4		01 - RAW			3.23		0.383		9.3	36.10		5.63	5.55		5.59
123	9	02/25/2010 15:30	4		02 - POX	1.73	2.60								7.42	7.15		7.29
124	9	02/25/2010 15:30	4	3	06 - FILTER A	0.77	1.25	0.02		0.005			9.20		6.54	6.34		6.44
125	9	02/25/2010 15:30	4	5	07 - FILTER B	1.29	1.87	0.74		0.020			4.60		6.43	6.31		6.37
126	9	02/25/2010 15:30	4	5	08 - FILTER C	1.16	2.02	0.99		0.027			6.00		6.39	6.29		6.34
127	9	02/25/2010 15:30	4	3	09 - FILTER D	1.05	1.65	0.02		0.008			11.40		6.37	6.28		6.33
128	9	02/25/2010 19:40	4		01 - RAW			3.35		0.327		9.3	35.90	0.262	5.69	5.36		5.53
129	9	02/26/2010 19:40	4		02 - POX	1.70	2.18								6.41	6.49		6.45
130	9	02/27/2010 19:40	4	3	06 - FILTER A	0.72	0.79	0.00		-0.011			9.00	0.025	6.29	6.34		6.32
131	9	02/28/2010 19:40	4	5	07 - FILTER B	0.92	1.22	1.11		0.013			4.00	0.247	6.30	6.37		6.34
132	9	03/01/2010 19:40	4	5	08 - FILTER C	0.91	1.65	1.29		0.014			5.90	0.367	6.31	6.38		6.35
133	9	03/02/2010 19:40	4	3	09 - FILTER D	0.81	1.08	0.02		-0.009			11.80	0.026	6.33	6.39		6.36
134	9	02/26/2010 07:45	4		01 - RAW			2.75		0.358		9.4	30.60	0.274	5.44	5.36		5.40
135	9	02/26/2010 07:45	4		02 - POX	1.16	1.81								8.00	7.95		7.98
136	9	02/26/2010 07:45	4	3	06 - FILTER A	0.56	0.63	0.56		0.013			8.80	0.151	6.65	6.61		6.63
137	9	02/26/2010 07:45	4	5	07 - FILTER B	0.87	1.34	1.14		0.028			3.90	0.349	6.78	6.82		6.80
138	9	02/26/2010 07:45	4	5	08 - FILTER C	0.83	1.40	1.49		0.035			4.90	0.451	6.68	6.74		6.71
139	9	02/26/2010 07:45	4	3	09 - FILTER D	0.76	0.96	1.30		0.030			11.80	0.333	6.55	6.59		6.57

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Row #	Page no.	Date & Time	Trial	FLR	Sample	Cl2_free	Cl2_total	Fe (t)	Fe(d)	Mn (t)	Mn(d)	temp.	Pressure (psi)	Turb(NTU)	pH (#1)	pH(#4)	pH(#5)	Avg pH
140	10	02/26/2010 12:00	5		01 - RAW			3.42		0.386		9.3	36.00	0.265	5.79	5.66		5.73
141	10	02/26/2010 12:00	5		02 - POX	0.59	1.82								7.18	6.99		7.09
142	10	02/26/2010 12:00	5	3	06 - FILTER A	0.62	0.84	0.07		0.008			13.30	0.026	6.39	6.30		6.35
143	10	02/26/2010 12:00	5	5	07 - FILTER B	0.70	1.15	0.14		0.009			9.40	0.039	6.39	6.29		6.34
144	10	02/26/2010 12:00	5	3	08 - FILTER C	0.54	1.03	0.16		0.010			14.40	0.035	6.39	6.28		6.34
145	10	02/26/2010 12:00	5	5	09 - FILTER D	0.67	1.26	0.07		0.009			14.50	0.034	6.39	6.27		6.33
146	10	02/26/2010 15:30	5		01 - RAW			3.44		0.375		9.3	36.10	0.264	5.79	5.69		5.74
147	10	02/26/2010 15:30	5		02 - POX	1.30	2.22								7.01	6.90		6.96
148	10	02/26/2010 15:30	5	3	06 - FILTER A	0.77	1.04	0.02		0.003			13.00	0.025	6.42	6.30		6.36
149	10	02/26/2010 15:30	5	5	07 - FILTER B	1.03	1.45	0.01		0.002			9.00	0.038	6.42	6.29		6.36
150	10	02/26/2010 15:30	5	3	08 - FILTER C	0.71	1.31	0.03		0.004			9.50	0.033	6.41	6.29		6.35
151	10	02/26/2010 15:30	5	5	09 - FILTER D	0.98	1.48	0.03		0.004			14.50	0.035	6.42	6.30		6.36
152	12	02/27/2010 08:50	5		01 - RAW			3.40		0.37		9.2	35.20		5.48	5.45		5.47
153	12	02/27/2010 08:50	5		02 - POX	1.32	2.26								6.10	6.08		6.09
154	12	02/27/2010 08:50	5	3	06 - FILTER A	0.73	1.49	1.04		0.03			10.40		6.06	6.05		6.06
155	12	02/27/2010 08:50	5	5	07 - FILTER B	0.97	1.70	1.34		0.03			6.20		6.08	6.10		6.09
156	12	02/27/2010 08:50	5	3	08 - FILTER C	0.64	1.77	0.52		0.01			13.80		6.10	6.13		6.12
157	12	02/27/2010 08:50	5	5	09 - FILTER D	0.51	1.93	1.10		0.03			12.80		6.17	6.33		6.25

Appendix B - Pressure and Turbidity Data

Hopedale MA Pilot Study Report
 Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/22/2010 14:00	29.559	1.756	0.00	9.9	9.5	9.1		0.176	0.498	0.113	0.198	0.159
2/22/2010 14:05	28.300	1.758	0.08	9.6	10.3	8.8	9.7	0.176	0.198	0.262	0.076	0.132
2/22/2010 14:10	29.337	0.537	0.17	9.7	10.3	8.9	9.9	0.054	0.992	0.259	0.091	0.112
2/22/2010 14:15	30.553	0.417	0.25	10.0	10.3	9.2		0.042	0.178	0.146	0.112	0.078
2/22/2010 14:20	30.324	0.415	0.33	9.8	10.0	9.0		0.042	0.041	0.093	0.110	0.063
2/22/2010 14:25	30.337	0.414	0.42	9.8	9.9	9.0		0.041	0.019	0.054	0.076	0.041
2/22/2010 14:30	30.256	0.416	0.50	9.7	9.9	8.8		0.042	0.017	0.039	0.049	0.034
2/22/2010 14:35	30.372	0.440	0.58	9.9	10.1	9.0		0.044	0.017	0.039	0.039	0.032
2/22/2010 14:40	30.309	0.416	0.67	9.9	10.1	9.0		0.042	0.015	0.037	0.039	0.029
2/22/2010 14:45	30.461	0.415	0.75	10.0	10.1	9.1		0.041	0.017	0.037	0.037	0.027
2/22/2010 14:50	30.828	0.429	0.83	9.4	9.9	8.8		0.043	0.015	0.037	0.037	0.028
2/22/2010 14:55	32.115	0.445	0.92	8.6	9.4	8.2	8.4	0.044	0.015	0.037	0.038	0.042
2/22/2010 15:00	32.285	0.426	1.00	8.5	9.4	8.1	8.3	0.043	0.015	0.037	0.037	0.028
2/22/2010 15:05	32.234	0.415	1.08	8.5	9.3	8.1	8.2	0.041	0.015	0.037	0.038	0.027
2/22/2010 15:10	32.357	0.414	1.17	8.5	9.4	8.1	8.3	0.041	0.014	0.037	0.037	0.027
2/22/2010 15:15	32.392	0.451	1.25	8.5	9.3	8.1	8.2	0.045	0.015	0.037	0.038	0.027
2/22/2010 15:20	32.628	0.430	1.33	8.8	9.6	8.4	8.4	0.043	0.015	0.037	0.037	0.027
2/22/2010 15:25	32.331	0.449	1.42	8.5	9.4	8.2	8.3	0.045	0.015	0.037	0.037	0.027
2/22/2010 15:30	32.268	0.445	1.50	8.5	9.5	8.1	8.2	0.044	0.015	0.035	0.037	0.027
2/22/2010 15:35	32.460	0.429	1.58	8.8	9.6	8.4	8.4	0.043	0.015	0.037	0.036	0.027
2/22/2010 15:40	32.304	0.436	1.67	8.7	9.6	8.3	8.3	0.044	0.015	0.036	0.037	0.027
2/22/2010 15:45	32.428	0.450	1.75	8.8	9.6	8.4	8.4	0.045	0.015	0.034	0.034	0.024
2/22/2010 15:50	32.465	0.425	1.83	8.8	9.7	8.4	8.4	0.042	0.015	0.034	0.034	0.024
2/22/2010 15:55	32.252	0.450	1.92	8.7	9.6	8.3	8.3	0.045	0.012	0.034	0.037	0.024
2/22/2010 16:00	32.267	0.439	2.00	8.7	9.6	8.3	8.3	0.044	0.012	0.036	0.037	0.026
2/22/2010 16:05	32.321	0.454	2.08	8.7	9.7	8.3	8.3	0.045	0.015	0.037	0.034	0.024
2/22/2010 16:10	32.259	0.451	2.17	8.8	9.7	8.3	8.3	0.045	0.014	0.034	0.034	0.024
2/22/2010 16:15	32.177	0.429	2.25	8.6	9.6	8.2	8.1	0.043	0.015	0.034	0.034	0.024
2/22/2010 16:20	32.378	0.440	2.33	8.7	9.7	8.4	8.3	0.044	0.015	0.034	0.034	0.024
2/22/2010 16:25	32.296	0.439	2.42	8.7	9.7	8.3	8.3	0.044	0.015	0.037	0.034	0.025
2/22/2010 16:30	32.416	0.424	2.50	8.9	9.8	8.4	8.3	0.042	0.015	0.034	0.035	0.024
2/22/2010 16:35	32.489	0.439	2.58	9.0	9.9	8.6	8.4	0.044	0.015	0.034	0.034	0.024
2/22/2010 16:40	32.364	0.454	2.67	8.8	9.8	8.4	8.3	0.045	0.015	0.034	0.034	0.024
2/22/2010 16:45	32.567	0.440	2.75	9.0	10.0	8.6	8.5	0.044	0.015	0.036	0.034	0.026
2/22/2010 16:50	32.384	0.440	2.83	8.9	9.9	8.5	8.3	0.044	0.015	0.034	0.034	0.024
2/22/2010 16:55	32.611	0.450	2.92	9.1	10.1	8.6	8.5	0.045	0.015	0.034	0.034	0.024
2/22/2010 17:00	32.402	0.439	3.00	8.9	10.0	8.5	8.4	0.044	0.015	0.034	0.036	0.024
2/22/2010 17:05	32.502	0.429	3.08	9.0	10.1	8.6	8.5	0.043	0.015	0.036	0.034	0.024
2/22/2010 17:10	32.352	0.439	3.17	8.9	9.9	8.4	8.3	0.044	0.015	0.034	0.034	0.024

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/22/2010 17:15	32.349	0.450	3.25	8.9	10.0	8.5	8.3	0.045	0.016	0.037	0.034	0.025
2/22/2010 17:20	32.431	0.439	3.33	8.9	9.9	8.5	8.3	0.044	0.015	0.034	0.034	0.024
2/22/2010 17:25	32.327	0.453	3.42	8.9	10.0	8.5	8.3	0.045	0.015	0.036	0.036	0.024
2/22/2010 17:30	32.520	0.453	3.50	9.1	10.2	8.7	8.5	0.045	0.015	0.034	0.034	0.024
2/22/2010 17:35	32.540	0.439	3.58	9.1	10.3	8.7	8.6	0.044	0.015	0.034	0.034	0.024
2/22/2010 17:40	32.410	0.453	3.67	9.1	10.2	8.6	8.5	0.045	0.015	0.035	0.034	0.024
2/22/2010 17:45	32.454	0.453	3.75	9.2	10.3	8.7	8.5	0.045	0.015	0.034	0.034	0.024
2/22/2010 17:50	32.388	0.440	3.83	9.1	10.3	8.7	8.5	0.044	0.015	0.035	0.034	0.024
2/22/2010 17:55	32.270	0.440	3.92	9.0	10.2	8.6	8.4	0.044	0.015	0.036	0.034	0.024
2/22/2010 18:00	32.499	0.454	4.00	9.3	10.5	8.9	8.7	0.045	0.015	0.034	0.034	0.024
2/22/2010 18:05	32.275	0.450	4.08	9.1	10.3	8.6	8.4	0.045	0.016	0.037	0.034	0.024
2/22/2010 18:10	32.557	0.439	4.17	9.3	10.5	8.9	8.6	0.044	0.015	0.034	0.034	0.024
2/22/2010 18:15	32.494	0.440	4.25	9.4	10.6	8.9	8.7	0.044	0.015	0.034	0.034	0.024
2/22/2010 18:20	32.430	0.440	4.33	9.2	10.4	8.8	8.4	0.044	0.015	0.034	0.034	0.024
2/22/2010 18:25	32.658	0.440	4.42	9.4	10.7	9.0	8.7	0.044	0.015	0.034	0.034	0.023
2/22/2010 18:30	32.360	0.453	4.50	9.2	10.5	8.8	8.5	0.045	0.017	0.037	0.037	0.024
2/22/2010 18:35	32.397	0.428	4.58	9.2	10.5	8.8	8.5	0.043	0.017	0.035	0.034	0.024
2/22/2010 18:40	32.299	0.453	4.67	9.2	10.5	8.8	8.5	0.045	0.016	0.034	0.034	0.024
2/22/2010 18:45	32.434	0.440	4.75	9.3	10.6	8.9	8.6	0.044	0.016	0.034	0.034	0.024
2/22/2010 18:50	32.699	0.439	4.83	9.5	10.9	9.1	8.8	0.044	0.016	0.035	0.034	0.024
2/22/2010 18:55	32.529	0.440	4.92	9.5	10.8	9.1	8.7	0.044	0.017	0.035	0.034	0.024
2/22/2010 19:00	32.417	0.439	5.00	9.2	10.6	8.8	8.5	0.044	0.015	0.035	0.034	0.024
2/22/2010 19:05	32.463	0.451	5.08	9.4	10.8	9.0	8.7	0.045	0.017	0.035	0.034	0.024
2/22/2010 19:10	32.402	0.451	5.17	9.3	10.8	9.0	8.6	0.045	0.017	0.035	0.034	0.024
2/22/2010 19:15	32.590	0.425	5.25	9.5	11.0	9.2	8.7	0.043	0.017	0.036	0.034	0.024
2/22/2010 19:20	32.223	0.439	5.33	9.3	10.8	8.9	8.6	0.044	0.017	0.034	0.034	0.024
2/22/2010 19:25	32.477	0.465	5.42	9.5	11.0	9.1	8.8	0.046	0.017	0.037	0.034	0.024
2/22/2010 19:30	32.218	0.465	5.50	9.3	10.8	8.9	8.6	0.046	0.017	0.035	0.034	0.026
2/22/2010 19:35	32.475	0.450	5.58	9.6	11.1	9.2	8.9	0.045	0.017	0.037	0.034	0.027
2/22/2010 19:40	32.332	0.440	5.67	9.5	11.0	9.1	8.8	0.044	0.017	0.037	0.034	0.024
2/22/2010 19:45	32.404	0.451	5.75	9.6	11.1	9.2	8.8	0.045	0.017	0.037	0.034	0.026
2/22/2010 19:50	32.298	0.451	5.83	9.5	11.1	9.1	8.7	0.045	0.017	0.037	0.034	0.026
2/22/2010 19:55	32.434	0.451	5.92	9.6	11.1	9.2	8.8	0.045	0.017	0.035	0.034	0.024
2/22/2010 20:00	32.583	0.428	6.00	9.7	11.3	9.3	8.9	0.043	0.017	0.037	0.034	0.024
2/22/2010 20:05	32.506	0.451	6.08	9.7	11.3	9.4		0.045	0.016	0.037	0.034	0.026
2/22/2010 20:10	32.549	0.439	6.17	9.7	11.3	9.3		0.044	0.017	0.035	0.035	0.024
2/22/2010 20:15	32.596	0.441	6.25	9.7	11.4	9.3		0.044	0.017	0.035	0.035	0.024
2/22/2010 20:20	32.724	0.440	6.33	10.0	11.6	9.6		0.044	0.017	0.035	0.034	0.024
2/22/2010 20:25	32.653	0.451	6.42	9.8	11.5	9.4		0.045	0.017	0.034	0.034	0.024

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/22/2010 20:30	32.707	0.451	6.50	10.0	11.6	9.5		0.045	0.017	0.036	0.034	0.024
2/22/2010 20:35	32.360	0.465	6.58	9.7	11.3	9.3		0.046	0.017	0.035	0.034	0.024
2/22/2010 20:40	32.627	0.453	6.67	9.9	11.7	9.5		0.045	0.017	0.035	0.034	0.024
2/22/2010 20:45	32.586	0.453	6.75	9.9	11.6	9.5		0.045	0.017	0.037	0.034	0.024
2/22/2010 20:50	32.649	0.452	6.83	10.0	11.7	9.6		0.045	0.017	0.034	0.034	0.024
2/22/2010 20:55	32.597	0.451	6.92	10.0	11.7	9.5		0.045	0.017	0.035	0.034	0.024
2/22/2010 21:00	32.549	0.465	7.00	9.9	11.6	9.5		0.046	0.017	0.034	0.034	0.024
2/22/2010 21:05	32.565	0.451	7.08	10.0	11.7	9.5		0.045	0.017	0.036	0.034	0.024
2/22/2010 21:10	32.640	0.440	7.17	10.1	11.8	9.6		0.044	0.017	0.034	0.034	0.024
2/22/2010 21:15	32.428	0.452	7.25	10.0	11.7	9.5		0.045	0.016	0.035	0.034	0.024
2/22/2010 21:20	32.405	0.440	7.33	10.0	11.7	9.5		0.044	0.017	0.035	0.034	0.024
2/22/2010 21:25	32.602	0.452	7.42	10.1	11.9	9.6		0.045	0.017	0.034	0.034	0.024
2/22/2010 21:30	32.623	0.439	7.50	10.1	11.9	9.7		0.044	0.017	0.035	0.034	0.024
2/22/2010 21:35	32.441	0.464	7.58	10.0	11.8	9.5	9.0	0.046	0.017	0.034	0.034	0.024
2/22/2010 21:40	32.588	0.452	7.67	10.2	12.0	9.7	9.2	0.045	0.017	0.035	0.034	0.024
2/22/2010 21:45	32.584	0.440	7.75	10.2	12.0	9.6	9.2	0.044	0.017	0.035	0.034	0.024
2/22/2010 21:50	32.689	0.439	7.83	10.4	12.2	9.8	9.3	0.044	0.017	0.037	0.034	0.023
2/22/2010 21:55	32.761	0.439	7.92	10.5	12.2	9.9	9.5	0.044	0.017	0.035	0.034	0.022
2/22/2010 22:00	32.601	0.439	8.00	10.3	12.1	9.7	9.3	0.044	0.017	0.035	0.034	0.024
2/22/2010 22:05	32.730	0.451	8.08	10.5	12.2	9.9	9.4	0.045	0.017	0.035	0.035	0.024
2/22/2010 22:10	32.590	0.452	8.17	10.4	12.1	9.7	9.2	0.045	0.017	0.037	0.034	0.022
2/22/2010 22:15	32.713	0.428	8.25	10.5	12.3	9.9	9.4	0.043	0.017	0.037	0.034	0.024
2/22/2010 22:20	32.638	0.451	8.33	10.4	12.2	9.8	9.3	0.045	0.017	0.035	0.034	0.024
2/22/2010 22:25	32.514	0.439	8.42	10.3	12.2	9.7	9.2	0.044	0.017	0.037	0.035	0.024
2/22/2010 22:30	32.815	0.451	8.50	10.6	12.4	9.9	9.5	0.045	0.017	0.035	0.034	0.024
2/22/2010 22:35	32.689	0.428	8.58	10.5	12.4	9.9	9.4	0.043	0.017	0.034	0.034	0.024
2/22/2010 22:40	32.833	0.465	8.67	10.7	12.6	10.1	9.5	0.047	0.017	0.035	0.034	0.024
2/22/2010 22:45	32.677	0.451	8.75	10.6	12.4	9.9	9.4	0.045	0.017	0.035	0.034	0.024
2/22/2010 22:50	32.707	0.426	8.83	10.6	12.5	10.0	9.5	0.043	0.017	0.035	0.034	0.024
2/22/2010 22:55	32.806	0.453	8.92	10.7	12.5	10.0	9.5	0.045	0.017	0.037	0.034	0.024
2/22/2010 23:00	32.699	0.440	9.00	10.6	12.5	9.9	9.4	0.044	0.017	0.037	0.034	0.024
2/22/2010 23:05	32.780	0.440	9.08	10.8	12.6	10.1	9.5	0.044	0.017	0.037	0.034	0.024
2/22/2010 23:10	32.834	0.453	9.17	10.8	12.7	10.1	9.6	0.045	0.017	0.037	0.034	0.024
2/22/2010 23:15	32.831	0.441	9.25	10.8	12.7	10.1	9.6	0.044	0.017	0.034	0.034	0.024
2/22/2010 23:20	32.833	0.427	9.33	10.9	12.8	10.1	9.6	0.043	0.017	0.034	0.034	0.024
2/22/2010 23:25	32.973	0.451	9.42	11.1	13.0	10.3	9.8	0.045	0.017	0.034	0.034	0.023
2/22/2010 23:30	32.773	0.439	9.50	10.8	12.7	10.1	9.6	0.044	0.017	0.035	0.034	0.024
2/22/2010 23:35	32.915	0.440	9.58	11.0	12.9	10.3	9.8	0.044	0.017	0.035	0.034	0.024
2/22/2010 23:40	32.778	0.441	9.67	10.9	12.8	10.2	9.6	0.044	0.017	0.037	0.035	0.024

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/22/2010 23:45	33.014	0.465	9.75	11.2	13.1	10.4	9.9	0.047	0.017	0.035	0.034	0.024
2/22/2010 23:50	32.855	0.439	9.83	11.1	13.0	10.3		0.044	0.017	0.035	0.034	0.024
2/22/2010 23:55	32.671	0.429	9.92	10.9	12.8	10.1		0.043	0.017	0.037	0.035	0.024
2/23/2010 0:00	32.920	0.440	10.00	11.1	13.1	10.3		0.044	0.017	0.035	0.034	0.024
2/23/2010 0:05	32.858	0.440	10.08	11.2	13.0	10.3	9.8	0.044	0.017	0.035	0.034	0.024
2/23/2010 0:10	32.872	0.454	10.17	11.1	13.1	10.4	9.8	0.045	0.017	0.037	0.034	0.024
2/23/2010 0:15	33.009	0.440	10.25	11.4	13.2	10.5	10.0	0.044	0.017	0.035	0.034	0.024
2/23/2010 0:20	32.722	0.439	10.33	11.1	13.0	10.2	9.7	0.044	0.017	0.034	0.034	0.024
2/23/2010 0:25	32.897	0.414	10.42	11.3	13.2	10.4	9.9	0.041	0.017	0.034	0.034	0.024
2/23/2010 0:30	32.874	0.427	10.50	11.3	13.2	10.4	9.9	0.043	0.017	0.037	0.036	0.024
2/23/2010 0:35	32.785	0.465	10.58	11.2	13.1	10.3	9.7	0.046	0.017	0.037	0.034	0.024
2/23/2010 0:40	32.983	0.450	10.67	11.4	13.3	10.6	10.0	0.045	0.017	0.034	0.034	0.024
2/23/2010 0:45	32.800	0.451	10.75	11.3	13.2	10.4	9.8	0.045	0.017	0.037	0.034	0.024
2/23/2010 0:50	32.931	0.426	10.83	11.4	13.4	10.6	10.0	0.043	0.017	0.037	0.034	0.024
2/23/2010 0:55	33.051	0.440	10.92	11.5	13.5	10.6	10.1	0.044	0.017	0.037	0.034	0.024
2/23/2010 1:00	32.977	0.427	11.00	11.5	13.4	10.6	10.0	0.043	0.017	0.037	0.035	0.024
2/23/2010 1:05	32.862	0.439	11.08	11.4	13.3	10.5	9.9	0.044	0.017	0.034	0.034	0.024
2/23/2010 1:10	32.934	0.415	11.17	11.5	13.5	10.7		0.042	0.017	0.035	0.034	0.024
2/23/2010 1:15	32.937	0.452	11.25	11.5	13.4	10.6		0.045	0.017	0.036	0.034	0.024
2/23/2010 1:20	33.098	0.427	11.33	11.7	13.6	10.8		0.043	0.017	0.037	0.034	0.024
2/23/2010 1:25	33.067	0.453	11.42	11.7	13.7	10.8		0.045	0.017	0.035	0.034	0.024
2/23/2010 1:30	32.913	0.439	11.50	11.6	13.5	10.7		0.044	0.017	0.035	0.034	0.024
2/23/2010 1:35	32.848	0.441	11.58	11.6	13.5	10.6		0.044	0.017	0.034	0.034	0.024
2/23/2010 1:40	32.909	0.442	11.67	11.6	13.5	10.6		0.044	0.017	0.035	0.034	0.024
2/23/2010 1:45	32.965	0.427	11.75	11.7	13.7	10.7		0.043	0.017	0.037	0.034	0.024
2/23/2010 1:50	32.976	0.451	11.83	11.7	13.6	10.7		0.045	0.017	0.037	0.034	0.024
2/23/2010 1:55	33.105	0.451	11.92	11.9	13.8	10.9		0.045	0.017	0.037	0.034	0.024
2/23/2010 2:00	33.065	0.453	12.00	11.8	13.7	10.9		0.045	0.017	0.035	0.035	0.027
2/23/2010 2:05	32.902	0.429	12.08	11.7	13.7	10.8		0.043	0.017	0.035	0.034	0.027
2/23/2010 2:10	33.043	0.440	12.17	11.9	13.8	10.9		0.044	0.017	0.035	0.034	0.027
2/23/2010 2:15	32.997	0.426	12.25	11.8	13.7	10.8		0.043	0.017	0.034	0.034	0.027
2/23/2010 2:20	33.007	0.429	12.33	11.9	13.8	10.8		0.043	0.017	0.037	0.034	0.027
2/23/2010 2:25	33.260	0.436	12.42	12.1	14.0	11.1		0.044	0.017	0.037	0.034	0.027
2/23/2010 2:30	32.942	0.453	12.50	11.9	13.8	10.9		0.045	0.017	0.035	0.034	0.027
2/23/2010 2:35	33.013	0.426	12.58	12.0	13.9	11.0	10.3	0.043	0.017	0.035	0.034	0.027
2/23/2010 2:40	33.026	0.438	12.67	12.0	14.0	11.0	10.4	0.044	0.017	0.037	0.034	0.027
2/23/2010 2:45	33.035	0.465	12.75	12.0	14.0	11.0	10.4	0.047	0.018	0.037	0.034	0.027
2/23/2010 2:50	32.926	0.465	12.83	12.0	13.9	10.9	10.3	0.046	0.020	0.036	0.036	0.027
2/23/2010 2:55	32.899	0.428	12.92	11.9	13.9	10.9	10.3	0.043	0.020	0.037	0.034	0.027

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/23/2010 3:00	32.939	0.440	13.00	12.0	14.0	10.9	10.3	0.044	0.020	0.037	0.034	0.027
2/23/2010 3:05	33.361	0.439	13.08	12.4	14.4	11.3	10.7	0.044	0.020	0.034	0.034	0.027
2/23/2010 3:10	33.078	0.440	13.17	12.2	14.1	11.1	10.5	0.044	0.020	0.036	0.034	0.027
2/23/2010 3:15	33.138	0.453	13.25	12.2	14.3	11.2	10.5	0.045	0.021	0.034	0.034	0.027
2/23/2010 3:20	33.180	0.454	13.33	12.3	14.3	11.2	10.5	0.045	0.022	0.035	0.034	0.027
2/23/2010 3:25	33.020	0.450	13.42	12.2	14.1	11.1	10.4	0.045	0.022	0.036	0.034	0.027
2/23/2010 3:30	33.040	0.465	13.50	12.2	14.2	11.1	10.5	0.046	0.024	0.037	0.034	0.027
2/23/2010 3:35	32.980	0.454	13.58	12.2	14.2	11.1	10.5	0.045	0.024	0.036	0.034	0.027
2/23/2010 3:40	33.150	0.435	13.67	12.3	14.3	11.2	10.5	0.044	0.027	0.036	0.034	0.027
2/23/2010 3:45	33.224	0.428	13.75	12.5	14.4	11.3	10.7	0.043	0.027	0.037	0.034	0.027
2/23/2010 3:50	33.232	0.454	13.83	12.5	14.4	11.4	10.7	0.045	0.029	0.035	0.034	0.027
2/23/2010 3:55	32.814	0.427	13.92	12.1	14.0	11.0	10.3	0.043	0.032	0.035	0.034	0.027
2/23/2010 4:00	33.023	0.440	14.00	12.3	14.2	11.1	10.5	0.044	0.034	0.037	0.034	0.027
2/23/2010 4:05	33.282	0.439	14.08	12.5	14.5	11.4	10.8	0.044	0.034	0.036	0.034	0.027
2/23/2010 4:10	33.099	0.440	14.17	12.3	14.3	11.2	10.5	0.044	0.037	0.036	0.034	0.027
2/23/2010 4:15	32.982	0.440	14.25	12.4	14.3	11.2	10.6	0.044	0.039	0.036	0.034	0.027
2/23/2010 4:20	33.105	0.450	14.33	12.5	14.4	11.3	10.7	0.045	0.042	0.034	0.034	0.027
2/23/2010 4:25	33.279	0.439	14.42	12.6	14.5	11.4	10.8	0.044	0.044	0.037	0.034	0.027
2/23/2010 4:30	32.926	0.454	14.50	12.4	14.2	11.2	10.5	0.045	0.047	0.036	0.034	0.027
2/23/2010 4:35	33.228	0.440	14.58	12.7	14.6	11.5	10.9	0.044	0.048	0.034	0.034	0.027
2/23/2010 4:40	33.085	0.440	14.67	12.7	14.5	11.5	10.8	0.044	0.051	0.037	0.034	0.027
2/23/2010 4:45	33.131	0.454	14.75	12.7	14.6	11.5	10.8	0.045	0.052	0.035	0.034	0.027
2/23/2010 4:50	33.010	0.429	14.83	12.7	14.6	11.5	10.8	0.043	0.055	0.037	0.034	0.027
2/23/2010 4:55	32.989	0.455	14.92	12.6	14.5	11.5	10.8	0.045	0.056	0.036	0.034	0.028
2/23/2010 5:00	33.037	0.426	15.00	12.7	14.5	11.5	10.8	0.043	0.059	0.037	0.034	0.027
2/23/2010 5:05	33.039	0.440	15.08	12.7	14.6	11.6	10.8	0.044	0.061	0.037	0.034	0.027
2/23/2010 5:10	32.977	0.430	15.17	12.7	14.6	11.5	10.8	0.043	0.064	0.036	0.034	0.027
2/23/2010 5:15	32.933	0.450	15.25	12.7	14.5	11.5	10.7	0.045	0.066	0.035	0.034	0.029
2/23/2010 5:20	32.990	0.465	15.33	12.7	14.5	11.5	10.7	0.046	0.068	0.036	0.034	0.027
2/23/2010 5:25	33.088	0.439	15.42	12.8	14.7	11.6		0.044	0.068	0.037	0.034	0.028
2/23/2010 5:30	33.100	0.440	15.50	12.8	14.7	11.7		0.044	0.071	0.036	0.034	0.028
2/23/2010 5:35	33.166	0.425	15.58	13.0	14.8	11.8		0.043	0.073	0.037	0.034	0.027
2/23/2010 5:40	33.199	0.453	15.67	13.0	14.8	11.8	11.0	0.045	0.073	0.034	0.034	0.028
2/23/2010 5:45	33.156	0.454	15.75	13.0	14.9	11.8	11.0	0.045	0.077	0.035	0.034	0.027
2/23/2010 5:50	32.920	0.436	15.83	12.8	14.6	11.7	10.9	0.044	0.081	0.034	0.034	0.027
2/23/2010 5:55	33.005	0.440	15.92	12.9	14.8	11.7	10.9	0.044	0.079	0.035	0.034	0.027
2/23/2010 6:00	33.056	0.451	16.00	13.0	14.8	11.8	11.0	0.045	0.083	0.037	0.034	0.027
2/23/2010 6:05	33.118	0.465	16.08	13.1	14.9	11.9	11.1	0.047	0.082	0.037	0.034	0.027
2/23/2010 6:10	33.079	0.440	16.17	13.0	14.9	11.9	11.1	0.044	0.083	0.037	0.037	0.027

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/23/2010 6:15	32.918	0.440	16.25	13.0	14.8	11.8	11.0	0.044	0.086	0.037	0.037	0.027
2/23/2010 6:20	32.998	0.449	16.33	13.1	14.9	11.9	11.1	0.045	0.088	0.037	0.037	0.028
2/23/2010 6:25	32.786	0.450	16.42	13.0	14.8	11.7	11.0	0.045	0.088	0.037	0.037	0.028
2/23/2010 6:30	32.855	0.429	16.50	13.1	14.9	11.9	11.1	0.043	0.088	0.037	0.037	0.027
2/23/2010 6:35	32.826	0.454	16.58	13.0	14.8	11.8	11.0	0.045	0.090	0.037	0.037	0.029
2/23/2010 6:40	32.948	0.451	16.67	13.2	15.0	12.0	11.2	0.045	0.090	0.037	0.039	0.027
2/23/2010 6:45	32.966	0.450	16.75	13.3	15.0	12.0	11.3	0.045	0.093	0.037	0.039	0.028
2/23/2010 6:50	33.080	0.424	16.83	13.5	15.2	12.3	11.4	0.042	0.093	0.037	0.042	0.027
2/23/2010 6:55	32.858	0.425	16.92	13.2	15.1	12.1	11.2	0.043	0.093	0.037	0.042	0.027
2/23/2010 7:00	32.764	0.429	17.00	13.1	14.8	11.8	11.0	0.043	0.098	0.037	0.044	0.028
2/23/2010 7:05	33.070	0.440	17.08	13.2	15.0	12.0	11.2	0.044	0.098	0.037	0.044	0.027
2/23/2010 7:10	32.766	0.439	17.17	13.1	14.9	11.9	11.1	0.044	0.103	0.035	0.048	0.028
2/23/2010 7:15	32.844	0.439	17.25	13.2	15.0	12.0	11.1	0.044	0.103	0.036	0.049	0.029
2/23/2010 7:20	32.900	0.449	17.33	13.3	15.0	12.0	11.3	0.045	0.100	0.036	0.051	0.027
2/23/2010 7:25	32.909	0.443	17.42	13.3	15.1	12.1	11.2	0.044	0.103	0.034	0.056	0.027
2/23/2010 7:30	33.151	0.453	17.50	13.6	15.3	12.3	11.5	0.045	0.103	0.034	0.059	0.028
2/23/2010 7:35	32.824	0.449	17.58	13.3	15.1	12.0	11.3	0.045	0.105	0.034	0.061	0.027
2/23/2010 7:40	32.809	0.440	17.67	13.3	15.1	12.0	11.2	0.044	0.108	0.034	0.064	0.027
2/23/2010 7:45	32.946	0.425	17.75	13.5	15.2	12.1	11.4	0.043	0.105	0.034	0.067	0.027
2/23/2010 7:50	32.921	0.450	17.83	13.5	15.2	12.2	11.3	0.045	0.106	0.034	0.071	0.027
2/23/2010 7:55	33.052	0.443	17.92	13.6	15.3	12.3	11.5	0.044	0.104	0.034	0.073	0.027
2/23/2010 8:00	32.696	0.439	18.00	13.3	15.1	12.1	11.3	0.044	0.108	0.034	0.076	0.028
2/23/2010 8:05	32.965	0.436	18.08	13.6	15.4	12.4	11.5	0.044	0.110	0.034	0.083	0.027
2/23/2010 8:10	32.786	0.424	18.17	13.5	15.2	12.2	11.3	0.042	0.113	0.035	0.086	0.028
2/23/2010 8:15	32.746	0.429	18.25	13.4	15.2	12.1	11.2	0.043	0.115	0.036	0.090	0.027
2/23/2010 8:20	33.025	0.439	18.33	13.7	15.5	12.5	11.6	0.044	0.115	0.034	0.098	0.027
2/23/2010 8:25	32.866	0.439	18.42	13.7	15.3	12.3	11.5	0.044	0.114	0.035	0.100	0.027
2/23/2010 8:30	32.836	0.450	18.50	13.6	15.3	12.3	11.5	0.045	0.107	0.034	0.103	0.027
2/23/2010 8:35	32.743	0.440	18.58	13.6	15.3	12.3	11.4	0.044	0.109	0.034	0.103	0.027
2/23/2010 8:40	32.732	0.449	18.67	13.6	15.3	12.3	11.4	0.045	0.110	0.034	0.105	0.027
2/23/2010 8:45	32.748	0.439	18.75	13.6	15.3	12.3	11.5	0.044	0.113	0.034	0.115	0.028
2/23/2010 8:50	32.670	0.450	18.83	13.7	15.3	12.3	11.5	0.045	0.115	0.034	0.115	0.027
2/23/2010 8:55	32.903	0.445	18.92	13.8	15.5	12.5	11.6	0.044	0.112	0.034	0.120	0.027
2/23/2010 9:00	32.741	0.450	19.00	13.7	15.3	12.4		0.045	0.120	0.034	0.122	0.028
2/23/2010 9:05	32.785	0.439	19.08	13.7	15.4	12.4		0.044	0.117	0.034	0.122	0.027
2/23/2010 9:10	32.816	0.449	19.17	13.8	15.4	12.4		0.045	0.112	0.036	0.125	0.027
2/23/2010 9:15	32.895	0.439	19.25	13.9	15.5	12.6		0.044	0.115	0.035	0.130	0.028
2/23/2010 9:20	32.837	0.450	19.33	13.9	15.5	12.5		0.045	0.120	0.034	0.137	0.028
2/23/2010 9:25	32.912	0.439	19.42	13.9	15.5	12.5		0.044	0.121	0.036	0.139	0.027

Hopedale MA Pilot Study Report
 Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/23/2010 9:30	32.829	0.439	19.50	13.9	15.5	12.6		0.044	0.122	0.034	0.144	0.029
2/23/2010 9:35	32.892	0.424	19.58	14.0	15.6	12.6		0.042	0.121	0.036	0.149	0.028
2/23/2010 9:40	32.819	0.454	19.67	13.9	15.5	12.6		0.045	0.117	0.034	0.146	0.029
2/23/2010 9:45	32.837	0.439	19.75	13.9	15.6	12.6		0.044	0.117	0.035	0.151	0.029
2/23/2010 9:50	33.058	0.439	19.83	14.2	15.8	12.8		0.044	0.123	0.035	0.149	0.029
2/23/2010 9:55	32.724	0.464	19.92	14.1	16.2	12.8		0.046	0.130	0.036	0.159	0.032
2/23/2010 10:00	32.772	0.439	20.00	14.3	16.3	13.0		0.044	0.171	0.036	0.154	0.032
2/23/2010 10:05	32.475	0.439	20.08	14.0	16.0	12.6		0.044	0.148	0.036	0.171	0.032
2/23/2010 10:10	31.239	0.415	20.17	15.0	16.0	13.4		0.041	0.115	0.044	0.215	0.034
2/23/2010 10:15	31.491	0.455	20.25	15.2	16.3	13.6		0.045	0.093	0.039	0.278	0.054
2/23/2010 10:20	31.016	0.440	20.33	14.9	15.9	13.1		0.044	0.103	0.039	0.242	0.051
2/23/2010 10:25	31.085	0.449	20.42	14.9	16.0	13.2		0.045	0.108	0.039	0.222	0.054
2/23/2010 10:30	31.129	0.440	20.50	15.0	16.1	13.3		0.044	0.115	0.039	0.207	0.059
2/23/2010 10:35	32.320	0.440	20.58	14.2	31.5	12.0		0.044	0.143	0.042	0.195	0.063
2/23/2010 10:40	32.565	0.433	20.67	14.3	31.7	12.1		0.043	0.112	0.068	0.263	0.124
2/23/2010 10:45	30.380	0.440	20.75	14.9	7.8	13.4		0.044	0.086	0.058	0.281	0.098
2/23/2010 10:50	31.626	0.440	20.83	15.3	8.4	13.7		0.044	0.550	0.046	0.195	0.093
2/23/2010 10:55	31.431	0.439	20.92	15.2	8.3	13.5		0.044	0.051	0.044	0.156	0.088
2/23/2010 11:00	31.427	0.439	21.00	30.4	6.7	12.2		0.044	0.024	0.203	0.169	0.111
2/23/2010 11:05	31.773	0.439	21.08	7.3	7.9	12.3		0.044	0.019	0.120	0.195	0.132
2/23/2010 11:10	31.765	0.464	21.17	6.3	6.9	11.8		0.046	0.019	0.396	0.282	0.608
2/23/2010 11:15	32.047	0.456	21.25	6.5	7.1	12.0		0.046	0.019	0.054	0.181	0.137
2/23/2010 11:20	31.266	0.448	21.33	8.6	9.2	14.1		0.045	0.022	0.058	0.179	0.182
2/23/2010 11:25	38.119	0.463	21.42	5.2	5.9	37.2		0.046	0.019	0.039	0.183	0.110
2/23/2010 11:30	34.210	0.464	21.50	5.2	6.0	33.2		0.046	0.019	0.039	0.186	0.344
2/23/2010 11:35	31.138	0.440	21.58	8.3	9.1	7.3		0.044	0.022	0.049	0.256	0.417
2/23/2010 11:40	30.847	0.440	0.00	8.1	8.9	7.0		0.044	0.019	0.039	0.191	0.046
2/23/2010 11:45	26.882	0.464	0.08	9.5	11.9	10.0		0.046	0.024	0.044	0.098	0.076
2/23/2010 11:50	26.108	0.440	0.17	10.0	12.3	10.4		0.044	0.034	0.047	0.076	0.051
2/23/2010 11:55	26.180	0.465	0.25	10.1	12.4	10.4		0.046	0.032	0.046	0.049	0.034
2/23/2010 12:00	25.909	0.440	0.33	10.0	12.4	10.5		0.044	0.019	0.039	0.044	0.034
2/23/2010 12:05	25.595	0.440	0.42	9.6	12.1	10.2		0.044	0.019	0.037	0.041	0.034
2/23/2010 12:10	25.690	0.438	0.50	9.8	12.2	10.3		0.044	0.020	0.037	0.041	0.032
2/23/2010 12:15	25.813	0.464	0.58	9.9	12.4	10.5		0.046	0.020	0.037	0.041	0.032
2/23/2010 12:20	25.834	0.490	0.67	9.9	12.3	10.4		0.049	0.020	0.037	0.039	0.032
2/23/2010 12:25	26.205	0.440	0.75	10.2	12.6	10.7		0.044	0.020	0.037	0.039	0.032
2/23/2010 12:30	26.154	0.440	0.83	10.1	12.6	10.7		0.044	0.017	0.037	0.039	0.029
2/23/2010 12:35	24.982	0.438	0.92	10.7	13.2	11.1		0.044	0.020	0.037	0.039	0.032
2/23/2010 12:40	24.858	0.464	1.00	10.5	13.1	10.9		0.046	0.020	0.037	0.039	0.029

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/23/2010 12:45	25.027	0.440	1.08	10.7	13.2	11.1		0.044	0.020	0.037	0.039	0.029
2/23/2010 12:50	25.004	0.464	1.17	10.6	13.2	11.1		0.046	0.017	0.037	0.039	0.029
2/23/2010 12:55	25.225	0.439	1.25	10.9	13.4	11.3		0.044	0.017	0.037	0.039	0.029
2/23/2010 13:00	26.400	0.439	1.33	8.7	25.6	9.4		0.044	0.017	0.037	0.039	0.029
2/23/2010 13:05	26.500	0.438	1.42	11.0	12.5	12.1		0.044	0.388	0.569	0.047	0.679
2/23/2010 13:10	30.728	0.439	1.50	7.1	9.0	29.7		0.044	0.137	0.159	0.051	0.227
2/23/2010 13:15	26.354	0.588	1.58	10.3	11.9	10.7		0.059	0.029	0.046	0.130	0.081
2/23/2010 13:20	26.446	0.439	1.67	10.3	12.1	10.9		0.044	0.020	0.039	0.068	0.044
2/23/2010 13:25	26.428	0.458	1.75	10.3	12.0	10.9		0.046	0.020	0.039	0.049	0.037
2/23/2010 13:30	25.777	0.439	1.83	10.9	12.6	11.6		0.044	0.020	0.039	0.046	0.034
2/23/2010 13:35	25.617	0.439	1.92	10.5	12.4	11.2		0.044	0.020	0.039	0.041	0.034
2/23/2010 13:40	25.550	0.445	2.00	10.5	12.3	11.2		0.044	0.020	0.038	0.041	0.032
2/23/2010 13:45	25.743	0.478	2.08	10.7	12.5	11.4		0.048	0.020	0.037	0.039	0.032
2/23/2010 13:50	25.627	0.439	2.17	10.6	12.4	11.2		0.044	0.020	0.037	0.039	0.032
2/23/2010 13:55	25.597	0.440	2.25	10.5	12.4	11.2		0.044	0.018	0.037	0.039	0.032
2/23/2010 14:00	25.439	0.439	2.33	10.3	12.2	11.1		0.044	0.020	0.037	0.039	0.032
2/23/2010 14:05	25.770	0.440	2.42	10.6	12.5	11.4		0.044	0.019	0.037	0.039	0.032
2/23/2010 14:10	25.643	0.439	2.50	10.6	12.4	11.3		0.044	0.020	0.037	0.039	0.032
2/23/2010 14:15	25.984	0.439	2.58	10.9	12.8	11.7		0.044	0.017	0.037	0.039	0.031
2/23/2010 14:20	25.453	0.440	2.67	10.4	12.3	11.2		0.044	0.017	0.037	0.039	0.032
2/23/2010 14:25	25.834	0.440	2.75	10.8	12.7	11.6		0.044	0.020	0.037	0.039	0.032
2/23/2010 14:30	25.851	0.438	2.83	10.8	12.7	11.7		0.044	0.017	0.037	0.039	0.030
2/23/2010 14:35	25.546	0.477	2.92	10.6	12.4	11.4		0.048	0.017	0.037	0.039	0.029
2/23/2010 14:40	25.831	0.440	3.00	10.8	12.8	11.6		0.044	0.019	0.037	0.037	0.029
2/23/2010 14:45	25.795	0.458	3.08	10.8	12.8	11.6		0.046	0.020	0.037	0.037	0.029
2/23/2010 14:50	25.960	0.440	3.17	10.7	12.6	11.4		0.044	0.018	0.037	0.039	0.029
2/23/2010 14:55	25.934	0.451	3.25	10.6	12.6	11.5		0.045	0.017	0.037	0.037	0.029
2/23/2010 15:00	25.697	0.440	3.33	10.3	12.4	11.3		0.044	0.017	0.037	0.037	0.029
2/23/2010 15:05	25.879	0.445	3.42	10.5	12.6	11.4		0.045	0.018	0.037	0.037	0.029
2/23/2010 15:10	25.958	0.445	3.50	10.7	12.8	11.5		0.045	0.017	0.037	0.037	0.029
2/23/2010 15:15	26.086	0.471	3.58	10.8	12.9	11.7		0.047	0.020	0.037	0.037	0.029
2/23/2010 15:20	25.579	0.477	3.67	10.2	12.4	11.2		0.048	0.020	0.037	0.037	0.029
2/23/2010 15:25	25.957	0.439	3.75	10.6	12.8	11.6		0.044	0.018	0.037	0.037	0.029
2/23/2010 15:30	25.947	0.448	3.83	10.7	12.8	11.6	10.3	0.045	0.020	0.037	0.037	0.029
2/23/2010 15:35	26.011	0.438	3.92	10.7	12.9	11.7	10.4	0.044	0.017	0.037	0.037	0.029
2/23/2010 15:40	26.121	0.440	4.00	10.8	13.0	11.8	10.5	0.044	0.018	0.037	0.037	0.029
2/23/2010 15:45	26.224	0.456	4.08	10.9	13.1	11.9	10.6	0.046	0.018	0.037	0.037	0.029
2/23/2010 15:50	26.010	0.439	4.17	10.6	12.9	11.6	10.4	0.044	0.017	0.037	0.037	0.029
2/23/2010 15:55	26.271	0.471	4.25	10.8	13.1	11.8	10.4	0.047	0.017	0.037	0.037	0.029

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/23/2010 16:00	26.301	0.456	4.33	10.8	13.1	11.8	10.3	0.046	0.017	0.037	0.037	0.029
2/23/2010 16:05	26.319	0.439	4.42	10.9	13.2	11.9	10.4	0.044	0.017	0.037	0.037	0.029
2/23/2010 16:10	26.306	0.439	4.50	10.8	13.1	11.9	10.3	0.044	0.017	0.037	0.037	0.029
2/23/2010 16:15	26.218	0.439	4.58	10.7	13.0	11.7	10.2	0.044	0.017	0.037	0.037	0.029
2/23/2010 16:20	26.338	0.440	4.67	10.8	13.2	11.9	10.4	0.044	0.017	0.037	0.037	0.029
2/23/2010 16:25	26.295	0.440	4.75	10.7	13.2	11.8	10.3	0.044	0.020	0.037	0.037	0.029
2/23/2010 16:30	26.319	0.438	4.83	10.7	13.1	11.9	10.3	0.044	0.017	0.037	0.037	0.029
2/23/2010 16:35	26.353	0.440	4.92	10.7	13.2	11.9	10.2	0.044	0.020	0.037	0.037	0.029
2/23/2010 16:40	26.436	0.440	5.00	10.8	13.3	12.0	10.3	0.044	0.018	0.037	0.037	0.029
2/23/2010 16:45	26.411	0.449	5.08	10.8	13.2	11.9	10.3	0.045	0.017	0.037	0.037	0.029
2/23/2010 16:50	26.492	0.449	5.17	10.8	13.3	12.0	10.3	0.045	0.019	0.037	0.037	0.029
2/23/2010 16:55	26.469	0.440	5.25	10.8	13.3	12.0	10.3	0.044	0.017	0.037	0.037	0.029
2/23/2010 17:00	26.493	0.440	5.33	10.8	13.4	12.0	10.3	0.044	0.020	0.037	0.037	0.029
2/23/2010 17:05	26.408	0.438	5.42	10.7	13.3	12.0	10.2	0.044	0.017	0.037	0.037	0.029
2/23/2010 17:10	26.510	0.438	5.50	10.8	13.4	12.1	10.3	0.044	0.017	0.037	0.037	0.029
2/23/2010 17:15	26.525	0.440	5.58	10.9	13.4	12.1	10.3	0.044	0.017	0.037	0.037	0.029
2/23/2010 17:20	26.703	0.439	5.67	11.0	13.6	12.2	10.5	0.044	0.018	0.037	0.037	0.029
2/23/2010 17:25	26.853	0.480	5.75	11.2	13.8	12.4	10.6	0.048	0.017	0.037	0.037	0.029
2/23/2010 17:30	26.552	0.455	5.83	10.9	13.6	12.2	10.4	0.045	0.019	0.037	0.037	0.029
2/23/2010 17:35	26.504	0.423	5.92	10.8	13.5	12.1	10.3	0.042	0.017	0.037	0.037	0.029
2/23/2010 17:40	26.457	0.455	6.00	10.8	13.5	12.1	10.2	0.045	0.020	0.037	0.037	0.029
2/23/2010 17:45	26.598	0.440	6.08	10.9	13.6	12.2	10.4	0.044	0.017	0.037	0.037	0.029
2/23/2010 17:50	26.565	0.439	6.17	10.9	13.7	12.2	10.3	0.044	0.019	0.037	0.037	0.029
2/23/2010 17:55	26.515	0.455	6.25	10.8	13.6	12.1	10.3	0.045	0.017	0.037	0.037	0.029
2/23/2010 18:00	26.670	0.439	6.33	11.0	13.8	12.3	10.4	0.044	0.020	0.037	0.037	0.029
2/23/2010 18:05	26.751	0.455	6.42	11.0	13.9	12.4	10.5	0.045	0.020	0.037	0.037	0.029
2/23/2010 18:10	26.769	0.454	6.50	11.1	14.0	12.4	10.5	0.045	0.017	0.037	0.037	0.029
2/23/2010 18:15	26.818	0.454	6.58	11.1	14.0	12.4	10.5	0.045	0.017	0.037	0.037	0.029
2/23/2010 18:20	26.770	0.440	6.67	11.0	13.9	12.4	10.5	0.044	0.019	0.037	0.037	0.029
2/23/2010 18:25	26.823	0.440	6.75	11.1	14.0	12.5	10.5	0.044	0.020	0.037	0.037	0.029
2/23/2010 18:30	26.664	0.448	6.83	11.0	13.9	12.4	10.4	0.045	0.017	0.037	0.037	0.029
2/23/2010 18:35	26.733	0.439	6.92	10.9	13.9	12.4	10.4	0.044	0.017	0.037	0.037	0.029
2/23/2010 18:40	27.082	0.449	7.00	11.3	14.3	12.7	10.7	0.045	0.017	0.037	0.037	0.029
2/23/2010 18:45	26.846	0.439	7.08	11.1	14.1	12.5	10.5	0.044	0.020	0.037	0.037	0.029
2/23/2010 18:50	26.625	0.454	7.17	10.9	13.9	12.3	10.3	0.045	0.017	0.037	0.037	0.029
2/23/2010 18:55	26.960	0.440	7.25	11.2	14.3	12.7	10.6	0.044	0.018	0.037	0.037	0.029
2/23/2010 19:00	26.726	0.440	7.33	11.0	14.0	12.4	10.4	0.044	0.020	0.037	0.037	0.029
2/23/2010 19:05	26.784	0.449	7.42	11.0	14.1	12.5	10.4	0.045	0.017	0.037	0.037	0.029
2/23/2010 19:10	26.880	0.440	7.50	11.1	14.3	12.6	10.5	0.044	0.017	0.037	0.037	0.029

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Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/23/2010 19:15	26.725	0.440	7.58	10.9	14.0	12.4	10.3	0.044	0.020	0.037	0.037	0.029
2/23/2010 19:20	26.772	0.450	7.67	11.0	14.1	12.5	10.4	0.045	0.020	0.037	0.037	0.029
2/23/2010 19:25	26.697	0.464	7.75	11.0	14.1	12.4	10.3	0.046	0.020	0.037	0.037	0.029
2/23/2010 19:30	26.866	0.440	7.83	11.1	14.3	12.6	10.5	0.044	0.017	0.037	0.037	0.029
2/23/2010 19:35	27.001	0.454	7.92	11.2	14.4	12.7	10.6	0.045	0.017	0.037	0.037	0.029
2/23/2010 19:40	26.996	0.465	8.00	11.2	14.4	12.7	10.6	0.047	0.017	0.037	0.037	0.029
2/23/2010 19:45	27.193	0.439	8.08	11.4	14.6	12.9	10.8	0.044	0.017	0.037	0.037	0.029
2/23/2010 19:50	27.222	0.439	8.17	11.5	14.7	13.0	10.8	0.044	0.020	0.037	0.037	0.029
2/23/2010 19:55	26.984	0.453	8.25	11.2	14.4	12.7	10.5	0.045	0.017	0.037	0.037	0.029
2/23/2010 20:00	27.142	0.440	8.33	11.4	14.6	12.9	10.6	0.044	0.017	0.037	0.037	0.029
2/23/2010 20:05	27.145	0.439	8.42	11.4	14.6	13.0	10.7	0.044	0.017	0.037	0.037	0.029
2/23/2010 20:10	27.331	0.440	8.50	11.5	14.8	13.1	10.8	0.044	0.019	0.037	0.037	0.029
2/23/2010 20:15	27.045	0.450	8.58	11.2	14.6	12.8	10.6	0.045	0.017	0.037	0.037	0.029
2/23/2010 20:20	27.055	0.429	8.67	11.3	14.6	12.8	10.6	0.043	0.018	0.037	0.037	0.029
2/23/2010 20:25	27.173	0.439	8.75	11.4	14.8	13.0	10.7	0.044	0.020	0.037	0.037	0.029
2/23/2010 20:30	27.015	0.453	8.83	11.2	14.5	12.8	10.5	0.045	0.019	0.037	0.037	0.029
2/23/2010 20:35	27.071	0.450	8.92	11.3	14.6	12.8	10.6	0.045	0.020	0.037	0.037	0.029
2/23/2010 20:40	26.837	0.454	9.00	11.0	14.4	12.6	10.3	0.045	0.017	0.037	0.037	0.029
2/23/2010 20:45	27.341	0.440	9.08	11.5	15.0	13.2	10.8	0.044	0.018	0.037	0.037	0.029
2/23/2010 20:50	27.116	0.440	9.17	11.4	14.8	12.9	10.6	0.044	0.020	0.037	0.037	0.029
2/23/2010 20:55	27.034	0.454	9.25	11.3	14.6	12.9	10.5	0.045	0.018	0.037	0.037	0.029
2/23/2010 21:00	27.172	0.453	9.33	11.4	14.8	13.0	10.7	0.045	0.017	0.037	0.037	0.029
2/23/2010 21:05	27.451	0.451	9.42	11.7	15.1	13.3	10.9	0.045	0.017	0.037	0.037	0.029
2/23/2010 21:10	27.264	0.440	9.50	11.5	15.0	13.1	10.8	0.044	0.017	0.037	0.037	0.029
2/23/2010 21:15	27.246	0.440	9.58	11.4	14.9	13.0	10.7	0.044	0.020	0.037	0.037	0.029
2/23/2010 21:20	26.806	0.440	9.67	11.0	14.5	12.7	10.3	0.044	0.018	0.037	0.037	0.029
2/23/2010 21:25	27.211	0.450	9.75	11.5	14.9	13.1	10.7	0.045	0.017	0.037	0.037	0.029
2/23/2010 21:30	27.058	0.439	9.83	11.2	14.7	12.9	10.5	0.044	0.018	0.037	0.037	0.029
2/23/2010 21:35	27.289	0.440	9.92	11.5	15.0	13.2	10.8	0.044	0.020	0.037	0.038	0.029
2/23/2010 21:40	27.239	0.439	10.00	11.5	15.0	13.1	10.7	0.044	0.017	0.037	0.039	0.029
2/23/2010 21:45	27.281	0.439	10.08	11.5	15.0	13.2	10.7	0.044	0.017	0.037	0.039	0.029
2/23/2010 21:50	27.285	0.440	10.17	11.6	15.1	13.2	10.7	0.044	0.020	0.037	0.040	0.029
2/23/2010 21:55	27.402	0.453	10.25	11.6	15.2	13.3	10.8	0.045	0.020	0.037	0.042	0.029
2/23/2010 22:00	27.382	0.450	10.33	11.7	15.2	13.3	10.8	0.045	0.017	0.037	0.043	0.029
2/23/2010 22:05	27.408	0.440	10.42	11.6	15.2	13.2	10.8	0.044	0.018	0.037	0.044	0.029
2/23/2010 22:10	27.449	0.454	10.50	11.7	15.3	13.3	10.8	0.045	0.017	0.037	0.047	0.029
2/23/2010 22:15	27.444	0.436	10.58	11.7	15.2	13.3	10.8	0.044	0.020	0.037	0.051	0.029
2/23/2010 22:20	27.246	0.439	10.67	11.5	15.1	13.2	10.6	0.044	0.020	0.034	0.054	0.029
2/23/2010 22:25	27.296	0.439	10.75	11.6	15.2	13.3	10.7	0.044	0.020	0.036	0.059	0.029

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Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/23/2010 22:30	27.406	0.465	10.83	11.7	15.3	13.3	10.8	0.046	0.020	0.035	0.061	0.029
2/23/2010 22:35	27.396	0.439	10.92	11.7	15.3	13.3	10.8	0.044	0.020	0.034	0.069	0.029
2/23/2010 22:40	27.571	0.451	11.00	11.9	15.5	13.5	11.0	0.045	0.020	0.034	0.072	0.029
2/23/2010 22:45	27.337	0.440	11.08	11.6	15.3	13.3	10.7	0.044	0.020	0.035	0.078	0.029
2/23/2010 22:50	27.424	0.429	11.17	11.7	15.4	13.4	10.8	0.043	0.020	0.035	0.083	0.029
2/23/2010 22:55	27.524	0.453	11.25	11.8	15.4	13.4	10.9	0.045	0.022	0.034	0.091	0.029
2/23/2010 23:00	27.268	0.440	11.33	11.5	15.2	13.2	10.6	0.044	0.024	0.037	0.095	0.029
2/23/2010 23:05	27.632	0.436	11.42	11.9	15.6	13.6	11.0	0.044	0.026	0.036	0.100	0.029
2/23/2010 23:10	27.374	0.440	11.50	11.7	15.3	13.3	10.7	0.044	0.027	0.034	0.108	0.029
2/23/2010 23:15	27.625	0.450	11.58	11.9	15.6	13.5	10.9	0.045	0.032	0.034	0.113	0.029
2/23/2010 23:20	27.475	0.450	11.67	11.8	15.5	13.4	10.8	0.045	0.032	0.035	0.120	0.029
2/23/2010 23:25	27.688	0.440	11.75	12.0	15.7	13.6	11.0	0.044	0.037	0.034	0.125	0.029
2/23/2010 23:30	27.688	0.450	11.83	11.9	15.6	13.6	10.9	0.045	0.039	0.036	0.130	0.029
2/23/2010 23:35	27.615	0.454	11.92	11.9	15.6	13.6	10.9	0.045	0.042	0.037	0.137	0.029
2/23/2010 23:40	27.511	0.439	12.00	11.8	15.5	13.4	10.8	0.044	0.047	0.036	0.144	0.029
2/23/2010 23:45	27.799	0.495	12.08	12.1	15.8	13.7	11.1	0.049	0.049	0.036	0.149	0.029
2/23/2010 23:50	27.859	0.440	12.17	12.2	15.9	13.8	11.2	0.044	0.054	0.035	0.156	0.029
2/23/2010 23:55	27.931	0.450	12.25	12.3	15.9	13.9	11.2	0.045	0.057	0.034	0.159	0.029
2/24/2010 0:00	27.589	0.439	12.33	11.9	15.6	13.6	10.9	0.044	0.060	0.036	0.166	0.029
2/24/2010 0:05	27.500	0.454	12.42	11.8	15.6	13.5	10.8	0.045	0.065	0.034	0.173	0.029
2/24/2010 0:10	27.756	0.483	12.50	12.1	15.8	13.7	11.1	0.048	0.069	0.035	0.176	0.029
2/24/2010 0:15	27.552	0.453	12.58	11.9	15.6	13.5	10.8	0.045	0.073	0.034	0.181	0.029
2/24/2010 0:20	27.492	0.425	12.67	11.8	15.6	13.5	10.8	0.043	0.081	0.036	0.186	0.029
2/24/2010 0:25	27.789	0.440	12.75	12.1	15.9	13.8	11.1	0.044	0.081	0.036	0.188	0.029
2/24/2010 0:30	27.529	0.451	12.83	11.9	15.6	13.6	10.8	0.045	0.083	0.037	0.193	0.029
2/24/2010 0:35	27.565	0.440	12.92	12.0	15.7	13.6	10.9	0.044	0.086	0.035	0.199	0.029
2/24/2010 0:40	27.756	0.429	13.00	12.1	15.9	13.8	11.0	0.043	0.090	0.036	0.205	0.029
2/24/2010 0:45	27.781	0.454	13.08	12.2	15.9	13.8	11.0	0.045	0.093	0.034	0.210	0.029
2/24/2010 0:50	27.646	0.440	13.17	12.0	15.8	13.7	10.9	0.044	0.095	0.036	0.215	0.029
2/24/2010 0:55	27.606	0.425	13.25	12.0	15.8	13.7	10.9	0.042	0.098	0.034	0.220	0.029
2/24/2010 1:00	27.928	0.454	13.33	12.3	16.1	14.0	11.2	0.045	0.102	0.036	0.225	0.029
2/24/2010 1:05	28.049	0.454	13.42	12.4	16.2	14.1	11.3	0.045	0.106	0.034	0.227	0.029
2/24/2010 1:10	27.858	0.451	13.50	12.3	16.0	13.9	11.2	0.045	0.107	0.034	0.234	0.029
2/24/2010 1:15	27.972	0.440	13.58	12.4	16.2	14.0	11.3	0.044	0.112	0.035	0.236	0.029
2/24/2010 1:20	27.883	0.428	13.67	12.3	16.1	14.0	11.1	0.043	0.115	0.035	0.242	0.029
2/24/2010 1:25	27.878	0.451	13.75	12.3	16.1	13.9	11.1	0.045	0.115	0.037	0.242	0.029
2/24/2010 1:30	28.006	0.428	13.83	12.4	16.2	14.1	11.3	0.043	0.120	0.034	0.244	0.029
2/24/2010 1:35	27.911	0.451	13.92	12.2	16.1	13.9	11.1	0.045	0.120	0.034	0.252	0.029
2/24/2010 1:40	27.803	0.472	14.00	12.2	16.1	13.9	11.1	0.047	0.125	0.034	0.259	0.029

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Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/24/2010 1:45	27.712	0.425	14.08	12.1	15.9	13.8	11.0	0.043	0.129	0.034	0.261	0.029
2/24/2010 1:50	27.995	0.440	14.17	12.4	16.2	14.1	11.3	0.044	0.131	0.034	0.261	0.029
2/24/2010 1:55	27.725	0.451	14.25	12.2	16.0	13.8	11.0	0.045	0.129	0.034	0.257	0.029
2/24/2010 2:00	27.760	0.450	14.33	12.3	16.0	13.9	11.1	0.045	0.134	0.034	0.269	0.029
2/24/2010 2:05	27.870	0.439	14.42	12.3	16.2	13.9	11.1	0.044	0.137	0.036	0.272	0.029
2/24/2010 2:10	27.920	0.426	14.50	12.4	16.2	14.0	11.1	0.043	0.142	0.034	0.276	0.029
2/24/2010 2:15	27.894	0.436	14.58	12.4	16.1	14.0	11.1	0.044	0.139	0.034	0.278	0.029
2/24/2010 2:20	27.786	0.451	14.67	12.3	16.1	13.9	11.0	0.045	0.139	0.037	0.281	0.029
2/24/2010 2:25	27.825	0.440	14.75	12.3	16.1	13.9	11.0	0.044	0.139	0.034	0.280	0.029
2/24/2010 2:30	27.787	0.442	14.83	12.3	16.1	13.9	11.0	0.044	0.139	0.034	0.286	0.029
2/24/2010 2:35	27.837	0.428	14.92	12.3	16.2	13.9	11.1	0.043	0.144	0.035	0.288	0.029
2/24/2010 2:40	27.890	0.425	15.00	12.4	16.3	14.0	11.2	0.043	0.149	0.034	0.293	0.029
2/24/2010 2:45	27.804	0.453	15.08	12.3	16.2	13.9	11.1	0.045	0.148	0.034	0.293	0.029
2/24/2010 2:50	28.336	0.464	15.17	12.8	16.7	14.4	11.5	0.046	0.151	0.036	0.293	0.029
2/24/2010 2:55	28.244	0.439	15.25	12.8	16.6	14.4	11.5	0.044	0.150	0.034	0.298	0.029
2/24/2010 3:00	28.221	0.443	15.33	12.8	16.6	14.4	11.5	0.044	0.155	0.034	0.308	0.029
2/24/2010 3:05	28.030	0.440	15.42	12.6	16.4	14.2	11.3	0.044	0.155	0.034	0.305	0.029
2/24/2010 3:10	28.166	0.443	15.50	12.7	16.6	14.3	11.4	0.044	0.156	0.034	0.303	0.029
2/24/2010 3:15	27.723	0.440	15.58	12.3	16.1	13.9	11.0	0.044	0.156	0.034	0.310	0.029
2/24/2010 3:20	27.925	0.440	15.67	12.5	16.4	14.1	11.2	0.044	0.160	0.034	0.313	0.029
2/24/2010 3:25	28.227	0.439	15.75	12.7	16.6	14.3	11.4	0.044	0.161	0.035	0.310	0.028
2/24/2010 3:30	28.002	0.440	15.83	12.5	16.5	14.1	11.2	0.044	0.164	0.034	0.315	0.029
2/24/2010 3:35	27.908	0.450	15.92	12.5	16.3	14.0	11.1	0.045	0.164	0.034	0.317	0.029
2/24/2010 3:40	28.133	0.427	16.00	12.7	16.6	14.3	11.3	0.043	0.166	0.034	0.316	0.029
2/24/2010 3:45	28.248	0.451	16.08	12.8	16.7	14.4	11.4	0.045	0.164	0.034	0.325	0.029
2/24/2010 3:50	28.210	0.440	16.17	12.8	16.7	14.4	11.4	0.044	0.167	0.035	0.320	0.029
2/24/2010 3:55	28.076	0.428	16.25	12.6	16.6	14.3	11.3	0.043	0.169	0.034	0.322	0.029
2/24/2010 4:00	28.171	0.440	16.33	12.7	16.7	14.3	11.4	0.044	0.164	0.034	0.322	0.029
2/24/2010 4:05	28.317	0.451	16.42	12.9	16.9	14.5	11.5	0.045	0.171	0.035	0.331	0.029
2/24/2010 4:10	28.005	0.450	16.50	12.6	16.5	14.2	11.2	0.045	0.174	0.034	0.336	0.029
2/24/2010 4:15	28.162	0.441	16.58	12.8	16.7	14.4	11.4	0.044	0.171	0.034	0.330	0.029
2/24/2010 4:20	28.246	0.428	16.67	12.8	16.7	14.5	11.5	0.043	0.173	0.034	0.337	0.029
2/24/2010 4:25	28.139	0.452	16.75	12.7	16.7	14.4	11.4	0.045	0.173	0.034	0.335	0.029
2/24/2010 4:30	27.958	0.440	16.83	12.5	16.5	14.2	11.2	0.044	0.173	0.034	0.337	0.029
2/24/2010 4:35	28.092	0.465	16.92	12.7	16.6	14.3	11.3	0.047	0.181	0.035	0.339	0.029
2/24/2010 4:40	27.114	0.440	17.00	12.3	16.1	13.9	10.9	0.044	0.177	0.035	0.344	0.029
2/24/2010 4:45	27.199	0.453	17.08	12.4	16.2	14.0	11.0	0.045	0.144	0.034	0.283	0.029
2/24/2010 4:50	27.244	0.440	17.17	12.5	16.3	14.0	11.1	0.044	0.149	0.034	0.293	0.029
2/24/2010 4:55	27.078	0.453	17.25	12.4	16.3	14.0	11.0	0.045	0.158	0.034	0.295	0.029

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/24/2010 5:00	27.054	0.440	17.33	12.3	16.2	14.0	11.0	0.044	0.166	0.034	0.312	0.029
2/24/2010 5:05	27.271	0.453	17.42	12.6	16.5	14.2	11.2	0.045	0.174	0.034	0.330	0.029
2/24/2010 5:10	27.099	0.465	17.50	12.4	16.3	14.0	11.0	0.046	0.176	0.034	0.342	0.029
2/24/2010 5:15	27.159	0.427	17.58	12.5	16.4	14.1	11.1	0.043	0.177	0.034	0.340	0.029
2/24/2010 5:20	27.005	0.439	17.67	12.4	16.2	14.0	10.9	0.044	0.183	0.034	0.347	0.029
2/24/2010 5:25	27.220	0.451	17.75	12.5	16.5	14.2	11.2	0.045	0.191	0.034	0.349	0.029
2/24/2010 5:30	27.357	0.439	17.83	12.7	16.6	14.3	11.3	0.044	0.183	0.034	0.354	0.029
2/24/2010 5:35	27.430	0.440	17.92	12.8	16.6	14.4	11.4	0.044	0.183	0.034	0.354	0.029
2/24/2010 5:40	27.096	0.452	18.00	12.5	16.4	14.1	11.0	0.045	0.181	0.034	0.349	0.029
2/24/2010 5:45	27.212	0.439	18.08	12.6	16.5	14.2	11.2	0.044	0.184	0.034	0.357	0.029
2/24/2010 5:50	27.140	0.440	18.17	12.5	16.5	14.2	11.1	0.044	0.195	0.034	0.361	0.029
2/24/2010 5:55	27.154	0.440	18.25	12.6	16.4	14.1	11.1	0.044	0.184	0.034	0.359	0.029
2/24/2010 6:00	27.143	0.440	18.33	12.6	16.5	14.2	11.1	0.044	0.186	0.034	0.359	0.028
2/24/2010 6:05	26.936	0.440	18.42	12.4	16.3	13.9	10.9	0.044	0.188	0.034	0.359	0.029
2/24/2010 6:10	27.192	0.451	18.50	12.6	16.5	14.2	11.1	0.045	0.190	0.034	0.364	0.028
2/24/2010 6:15	27.194	0.440	18.58	12.6	16.6	14.2	11.1	0.044	0.189	0.035	0.361	0.029
2/24/2010 6:20	27.008	0.428	18.67	12.5	16.4	14.1	11.0	0.043	0.191	0.034	0.359	0.029
2/24/2010 6:25	27.208	0.440	18.75	12.7	16.6	14.3	11.2	0.044	0.191	0.034	0.366	0.029
2/24/2010 6:30	27.129	0.451	18.83	12.6	16.5	14.2	11.1	0.045	0.196	0.034	0.369	0.029
2/24/2010 6:35	27.096	0.452	18.92	12.7	16.5	14.2	11.1	0.045	0.195	0.034	0.374	0.029
2/24/2010 6:40	27.203	0.487	19.00	12.7	16.6	14.2	11.2	0.049	0.195	0.035	0.374	0.029
2/24/2010 6:45	26.879	0.426	19.08	12.5	16.4	14.0	10.9	0.043	0.198	0.036	0.379	0.029
2/24/2010 6:50	27.052	0.440	19.17	12.6	16.5	14.2	11.1	0.044	0.200	0.034	0.381	0.029
2/24/2010 6:55	27.243	0.427	19.25	12.8	16.7	14.3	11.2	0.043	0.198	0.035	0.381	0.028
2/24/2010 7:00	27.458	0.440	19.33	13.0	17.0	14.5	11.5	0.044	0.203	0.034	0.386	0.029
2/24/2010 7:05	27.410	0.452	19.42	13.0	16.9	14.5	11.4	0.045	0.203	0.034	0.390	0.029
2/24/2010 7:10	27.680	0.440	19.50	13.0	17.1	14.6	11.5	0.044	0.204	0.034	0.390	0.029
2/24/2010 7:15	27.380	0.452	19.58	12.9	16.9	14.4	11.3	0.045	0.212	0.034	0.422	0.029
2/24/2010 7:20	27.601	0.440	19.67	13.1	17.1	14.6	11.5	0.044	0.206	0.034	0.408	0.029
2/24/2010 7:25	27.376	0.429	19.75	12.9	16.9	14.4	11.3	0.043	0.209	0.034	0.405	0.029
2/24/2010 7:30	27.400	0.443	19.83	12.9	16.9	14.4	11.3	0.044	0.219	0.034	0.403	0.029
2/24/2010 7:35	27.346	0.439	19.92	12.8	16.8	14.4	11.3	0.044	0.205	0.034	0.400	0.029
2/24/2010 7:40	27.440	0.440	20.00	12.9	16.9	14.4	11.3	0.044	0.203	0.034	0.398	0.029
2/24/2010 7:45	27.433	0.453	20.08	13.0	16.9	14.5	11.4	0.045	0.205	0.034	0.393	0.029
2/24/2010 7:50	27.477	0.439	20.17	13.0	17.0	14.5	11.4	0.044	0.205	0.034	0.401	0.029
2/24/2010 7:55	27.267	0.439	20.25	12.9	16.8	14.4	11.2	0.044	0.201	0.034	0.401	0.029
2/24/2010 8:00	27.560	0.445	20.33	13.1	17.1	14.6	11.5	0.045	0.205	0.034	0.408	0.029
2/24/2010 8:05	27.556	0.439	20.42	13.1	17.2	14.6	11.5	0.044	0.208	0.034	0.408	0.029
2/24/2010 8:10	27.422	0.448	20.50	13.0	17.0	14.5	11.4	0.045	0.208	0.034	0.405	0.029

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Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/24/2010 8:15	27.413	0.456	20.58	13.0	17.0	14.5	11.4	0.046	0.208	0.034	0.415	0.031
2/24/2010 8:20	27.604	0.440	20.67	13.2	17.2	14.7	11.5	0.044	0.213	0.034	0.418	0.032
2/24/2010 8:25	27.548	0.439	20.75	13.1	17.2	14.6	11.4	0.044	0.219	0.034	0.413	0.032
2/24/2010 8:30	27.391	0.439	20.83	13.0	17.0	14.4	11.3	0.044	0.217	0.034	0.418	0.034
2/24/2010 8:35	27.422	0.439	20.92	13.0	17.0	14.5	11.3	0.044	0.212	0.034	0.408	0.034
2/24/2010 8:40	27.451	0.457	21.00	13.0	17.0	14.5	11.3	0.046	0.215	0.034	0.408	0.037
2/24/2010 8:45	27.565	0.446	21.08	13.1	17.2	14.5	11.5	0.045	0.212	0.035	0.415	0.039
2/24/2010 8:50	27.407	0.439	21.17	13.0	17.0	14.4	11.3	0.044	0.214	0.034	0.418	0.042
2/24/2010 8:55	27.857	0.457	21.25	13.4	17.5	14.9	11.7	0.046	0.215	0.034	0.415	0.044
2/24/2010 9:00	27.761	0.422	21.33	13.3	17.4	14.8	11.5	0.042	0.208	0.034	0.415	0.045
2/24/2010 9:05	27.934	0.440	21.42	13.5	17.7	14.9	11.7	0.044	0.129	0.034	0.432	0.049
2/24/2010 9:10	27.925	0.440	21.50	13.6	17.7	14.9	11.6	0.044	0.102	0.034	0.437	0.054
2/24/2010 9:15	27.259	0.440	21.58	12.9	17.1	14.2	10.9	0.044	0.100	0.036	0.432	0.057
2/24/2010 9:20	27.602	0.464	21.67	13.3	17.4	14.5	11.3	0.046	0.116	0.037	0.435	0.063
2/24/2010 9:25	27.750	0.521	21.75	13.3	17.5	14.6	11.4	0.052	0.137	0.037	0.459	0.069
2/24/2010 9:30	27.767	0.439	21.83	13.4	17.6	14.7	11.5	0.044	0.188	0.034	0.447	0.073
2/24/2010 9:35	27.874	0.439	21.92	13.5	17.6	14.8	11.6	0.044	0.215	0.036	0.442	0.078
2/24/2010 9:40	27.804	0.519	22.00	13.4	17.5	14.7	11.5	0.052	0.227	0.034	0.441	0.086
2/24/2010 9:45	27.884	0.440	22.08	13.5	17.6	14.8	11.6	0.044	0.234	0.034	0.432	0.088
2/24/2010 9:50	27.762	0.438	22.17	13.3	17.4	14.7	11.4	0.044	0.237	0.034	0.430	0.095
2/24/2010 9:55	27.507	0.440	22.25	13.1	17.2	14.5	11.2	0.044	0.225	0.034	0.425	0.097
2/24/2010 10:00	27.910	0.443	22.33	13.6	17.6	14.9	11.6	0.044	0.220	0.034	0.432	0.103
2/24/2010 10:05	28.064	0.464	22.42	13.7	17.7	15.0	11.7	0.046	0.227	0.034	0.432	0.112
2/24/2010 10:10	27.634	0.440	22.50	13.2	17.3	14.6	11.3	0.044	0.217	0.034	0.444	0.117
2/24/2010 10:15	27.830	0.440	22.58	13.5	17.5	14.8	11.5	0.044	0.215	0.034	0.442	0.125
2/24/2010 10:20	27.761	0.462	22.67	13.4	17.5	14.8	11.5	0.046	0.215	0.034	0.447	0.131
2/24/2010 10:25	27.519	0.442	22.75	13.2	17.3	14.5	11.2	0.044	0.215	0.034	0.440	0.137
2/24/2010 10:30	27.751	0.438	22.83	13.3	17.4	14.7	11.4	0.044	0.213	0.034	0.450	0.141
2/24/2010 10:35	27.812	0.439	22.92	13.4	17.5	14.9	11.5	0.044	0.276	0.034	0.457	0.154
2/24/2010 10:40	27.768	0.441	23.00	13.4	17.3	14.8	11.4	0.044	0.235	0.034	0.476	0.163
2/24/2010 10:45	27.990	0.439	23.08	13.7	17.7	15.0	11.7	0.044	0.198	0.034	0.476	0.166
2/24/2010 10:50	28.030	0.441	23.17	13.7	17.7	15.1	11.7	0.044	0.215	0.034	0.452	0.163
2/24/2010 10:55	27.933	0.439	23.25	13.7	17.7	15.1	11.8	0.044	0.232	0.034	0.449	0.173
2/24/2010 11:00	27.914	0.440	23.33	13.6	17.7	15.0	11.6	0.044	0.244	0.034	0.478	0.193
2/24/2010 11:05	27.474	0.439	23.42	13.3	17.3	14.7	11.3	0.044	0.254	0.034	0.520	0.217
2/24/2010 11:10	27.983	0.440	23.50	13.8	17.8	15.2	11.8	0.044	0.242	0.034	0.576	0.225
2/24/2010 11:15	27.643	0.440	23.58	13.5	17.4	14.9	11.5	0.044	0.232	0.034	0.537	0.225
2/24/2010 11:20	27.787	0.440	23.67	13.6	17.6	15.0	11.7	0.044	0.237	0.034	0.527	0.232
2/24/2010 11:25	27.814	0.465	23.75	13.7	17.7	15.0	11.6	0.046	0.237	0.034	0.542	0.247

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2/24/2010 11:30	27.498	0.440	23.83	13.3	17.4	14.7	11.4	0.044	0.244	0.034	0.552	0.254
2/24/2010 11:35	27.515	0.439	23.92	13.4	17.4	14.8	11.4	0.044	0.247	0.034	0.562	0.264
2/24/2010 11:40	31.523	0.439	24.00	30.5	30.7	10.2	30.6	0.044	0.247	0.178	3.786	0.330
2/24/2010 11:45	36.698	0.439	0.00	5.4	7.8	35.7	35.8	0.044	0.266	0.234	0.603	0.506
2/24/2010 11:50	30.883	0.441	0.08	5.1	7.5	30.0	30.0	0.044	0.298	0.499	0.566	0.201
2/24/2010 11:55	27.485	0.462	0.17	8.4	10.8	9.5	8.4	0.046	0.037	0.112	0.608	0.298
2/24/2010 12:00	27.539	0.441	0.25	9.8	10.9	9.5	8.5	0.044	0.022	0.081	0.122	0.115
2/24/2010 12:05	26.478	0.464	0.33	10.2	11.6	10.3	9.2	0.046	0.022	0.046	0.054	0.039
2/24/2010 12:10	26.170	0.442	0.42	9.9	11.3	9.9	8.9	0.044	0.019	0.039	0.044	0.034
2/24/2010 12:15	26.030	0.440	0.50	9.7	11.2	9.9	8.7	0.044	0.019	0.039	0.042	0.032
2/24/2010 12:20	26.435	0.461	0.58	10.1	11.6	10.1	9.0	0.046	0.019	0.037	0.039	0.032
2/24/2010 12:25	26.276	0.459	0.67	10.1	11.5	10.1	8.9	0.046	0.019	0.039	0.039	0.032
2/24/2010 12:30	26.131	0.439	0.75	9.9	11.5	10.0	8.8	0.044	0.019	0.037	0.039	0.032
2/24/2010 12:35	26.521	0.439	0.83	10.3	11.8	10.4	9.2	0.044	0.019	0.037	0.039	0.032
2/24/2010 12:40	26.488	0.440	0.92	10.2	11.7	10.3	9.1	0.044	0.019	0.037	0.039	0.032
2/24/2010 12:45	26.236	0.445	1.00	9.9	11.5	10.0	8.8	0.044	0.019	0.037	0.039	0.032
2/24/2010 12:50	26.387	0.440	1.08	10.1	11.7	10.2	8.9	0.044	0.019	0.037	0.039	0.030
2/24/2010 12:55	26.517	0.604	1.17	10.2	11.7	10.2	9.0	0.060	0.019	0.037	0.039	0.029
2/24/2010 13:00	26.419	0.586	1.25	10.1	11.7	10.2	8.9	0.059	0.019	0.037	0.039	0.029
2/24/2010 13:05	26.408	0.441	1.33	10.1	11.7	10.2	8.9	0.044	0.019	0.037	0.039	0.029
2/24/2010 13:10	26.419	0.440	1.42	10.2	11.8	10.2	9.0	0.044	0.019	0.037	0.039	0.029
2/24/2010 13:15	26.696	0.440	1.50	10.5	12.1	10.6	9.3	0.044	0.020	0.037	0.038	0.029
2/24/2010 13:20	26.540	0.439	1.58	10.4	11.9	10.4	9.1	0.044	0.020	0.037	0.037	0.029
2/24/2010 13:25	26.610	0.457	1.67	10.4	12.1	10.5	9.1	0.046	0.020	0.037	0.037	0.029
2/24/2010 13:30	26.511	0.440	1.75	10.3	12.0	10.4	9.0	0.044	0.020	0.037	0.037	0.029
2/24/2010 13:35	26.583	0.439	1.83	10.5	12.1	10.6	9.2	0.044	0.020	0.037	0.037	0.029
2/24/2010 13:40	26.798	0.440	1.92	10.6	12.3	10.8	9.3	0.044	0.020	0.037	0.038	0.029
2/24/2010 13:45	26.625	0.439	2.00	10.5	12.2	10.7	9.1	0.044	0.020	0.037	0.037	0.029
2/24/2010 13:50	26.934	0.456	2.08	10.7	12.5	10.9	9.4	0.046	0.020	0.037	0.037	0.029
2/24/2010 13:55	26.554	0.439	2.17	10.4	12.2	10.6	9.0	0.044	0.019	0.037	0.037	0.029
2/24/2010 14:00	26.672	0.448	2.25	10.5	12.3	10.7	9.2	0.045	0.020	0.037	0.037	0.029
2/24/2010 14:05	26.819	0.448	2.33	10.7	12.5	10.9	9.3	0.045	0.020	0.037	0.037	0.029
2/24/2010 14:10	26.997	0.439	2.42	10.9	12.7	11.1	9.5	0.044	0.018	0.037	0.037	0.029
2/24/2010 14:15	26.623	0.455	2.50	10.5	12.3	10.8	9.1	0.045	0.020	0.037	0.037	0.029
2/24/2010 14:20	26.658	0.439	2.58	10.5	12.3	10.8	9.0	0.044	0.020	0.037	0.037	0.029
2/24/2010 14:25	26.982	0.440	2.67	10.9	12.7	11.1	9.4	0.044	0.020	0.037	0.037	0.029
2/24/2010 14:30	26.885	0.439	2.75	10.7	12.6	11.1	9.3	0.044	0.020	0.037	0.037	0.029
2/24/2010 14:35	26.641	0.449	2.83	10.6	12.5	10.9	9.1	0.045	0.018	0.037	0.037	0.029
2/24/2010 14:40	26.716	0.439	2.92	10.7	12.6	11.0	9.2	0.044	0.020	0.037	0.037	0.029

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2/24/2010 14:45	26.753	0.440	3.00	10.6	12.6	11.0	9.1	0.044	0.018	0.037	0.037	0.029
2/24/2010 14:50	27.075	0.452	3.08	11.0	12.9	11.3	9.5	0.045	0.020	0.037	0.037	0.029
2/24/2010 14:55	26.847	0.439	3.17	10.7	12.6	11.1	9.2	0.044	0.018	0.037	0.037	0.029
2/24/2010 15:00	26.741	0.452	3.25	10.6	12.6	11.0	9.0	0.045	0.018	0.037	0.037	0.029
2/24/2010 15:05	26.915	0.465	3.33	10.8	12.8	11.2	9.2	0.046	0.017	0.037	0.037	0.029
2/24/2010 15:10	26.987	0.440	3.42	10.9	12.9	11.3	9.3	0.044	0.017	0.037	0.037	0.029
2/24/2010 15:15	27.106	0.440	3.50	11.1	13.1	11.5	9.4	0.044	0.017	0.037	0.037	0.029
2/24/2010 15:20	26.666	0.439	3.58	10.6	12.6	11.1	9.0	0.044	0.017	0.037	0.037	0.029
2/24/2010 15:25	26.896	0.439	3.67	10.8	12.9	11.3	9.1	0.044	0.017	0.037	0.037	0.029
2/24/2010 15:30	27.825	0.439	3.75	11.8	13.8	12.2	10.1	0.044	0.017	0.035	0.037	0.029
2/24/2010 15:35	26.861	0.440	3.83	10.8	12.9	11.2	9.1	0.044	0.017	0.035	0.035	0.029
2/24/2010 15:40	27.092	0.450	3.92	11.1	13.2	11.5	9.4	0.045	0.017	0.035	0.035	0.029
2/24/2010 15:45	26.889	0.439	4.00	10.9	12.9	11.3	9.1	0.044	0.017	0.037	0.035	0.028
2/24/2010 15:50	27.108	0.440	4.08	11.1	13.2	11.5	9.3	0.044	0.017	0.036	0.034	0.028
2/24/2010 15:55	27.509	0.454	4.17	11.4	13.6	11.9	9.6	0.045	0.017	0.037	0.034	0.028
2/24/2010 16:00	27.087	0.455	4.25	11.0	13.2	11.5	9.2	0.045	0.017	0.037	0.034	0.029
2/24/2010 16:05	27.230	0.439	4.33	11.2	13.4	11.7	9.4	0.044	0.017	0.034	0.034	0.029
2/24/2010 16:10	27.197	0.454	4.42	11.1	13.4	11.7	9.4	0.045	0.017	0.034	0.034	0.027
2/24/2010 16:15	27.229	0.463	4.50	11.2	13.4	11.7	9.3	0.046	0.017	0.034	0.034	0.028
2/24/2010 16:20	27.122	0.439	4.58	11.1	13.4	11.6	9.3	0.044	0.017	0.034	0.034	0.027
2/24/2010 16:25	27.103	0.440	4.67	11.2	13.3	11.6	9.2	0.044	0.017	0.035	0.034	0.029
2/24/2010 16:30	27.341	0.474	4.75	11.4	13.6	11.9	9.4	0.047	0.017	0.034	0.034	0.027
2/24/2010 16:35	27.261	0.439	4.83	11.3	13.6	11.8	9.3	0.044	0.017	0.034	0.034	0.027
2/24/2010 16:40	27.206	0.456	4.92	11.3	13.6	11.8	9.3	0.046	0.017	0.034	0.034	0.027
2/24/2010 16:45	27.370	0.439	5.00	11.4	13.7	11.9	9.4	0.044	0.017	0.034	0.034	0.028
2/24/2010 16:50	27.157	0.439	5.08	11.2	13.5	11.7	9.2	0.044	0.017	0.034	0.034	0.027
2/24/2010 16:55	27.316	0.440	5.17	11.4	13.8	11.9	9.3	0.044	0.017	0.034	0.034	0.027
2/24/2010 17:00	27.488	0.457	5.25	11.6	13.9	12.1	9.5	0.046	0.017	0.034	0.034	0.029
2/24/2010 17:05	28.522	0.458	5.33	10.5	13.5	11.4	8.0	0.046	0.017	0.037	0.034	0.027
2/24/2010 17:10	26.786	0.458	5.42	9.4	13.4	11.8	9.4	0.046	0.020	0.037	0.036	0.171
2/24/2010 17:15			5.50									
2/24/2010 17:20			5.58									
2/24/2010 17:25			5.67									
2/24/2010 17:30			5.75									
2/24/2010 17:35			5.83									
2/24/2010 17:40			5.92									
2/24/2010 17:45			6.00									
2/24/2010 17:50	26.079	0.439	6.08	11.3	14.2	12.4	10.1	0.044	0.022	0.037	0.034	0.029
2/24/2010 17:55	25.768	0.439	6.17	10.9	13.9	12.2	9.8	0.044	0.022	0.037	0.034	0.027

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/24/2010 18:00	26.273	0.440	6.25	11.4	14.4	12.7	10.3	0.044	0.022	0.037	0.034	0.027
2/24/2010 18:05	26.203	0.464	6.33	11.4	14.3	12.7	10.2	0.046	0.022	0.037	0.034	0.029
2/24/2010 18:10	26.203	0.439	6.42	11.4	14.3	12.7	10.2	0.044	0.022	0.037	0.034	0.027
2/24/2010 18:15	26.397	0.440	6.50	11.6	14.5	12.9	10.5	0.044	0.022	0.037	0.034	0.029
2/24/2010 18:20	26.374	0.440	6.58	11.5	14.6	12.8	10.3	0.044	0.022	0.037	0.034	0.027
2/24/2010 18:25	26.581	0.439	6.67	11.8	14.8	13.1	10.5	0.044	0.022	0.037	0.034	0.027
2/24/2010 18:30	25.671	0.440	6.75	10.9	13.9	12.2	9.7	0.044	0.022	0.037	0.034	0.027
2/24/2010 18:35	26.467	0.465	6.83	11.7	14.7	12.9	10.4	0.046	0.022	0.037	0.034	0.029
2/24/2010 18:40	26.741	0.440	6.92	12.0	15.0	13.3	10.7	0.044	0.022	0.037	0.034	0.027
2/24/2010 18:45	26.734	0.440	7.00	12.0	15.0	13.3	10.7	0.044	0.022	0.039	0.034	0.029
2/24/2010 18:50	26.601	0.439	7.08	11.9	14.9	13.1	10.6	0.044	0.022	0.037	0.034	0.027
2/24/2010 18:55	27.519	0.440	7.17	11.4	14.6	12.5	9.5	0.044	0.022	0.039	0.034	0.027
2/24/2010 19:00	27.882	0.464	7.25	11.7	14.8	12.9	9.9	0.046	0.022	0.039	0.034	0.027
2/24/2010 19:05	27.861	0.440	7.33	11.7	14.8	12.9	9.8	0.044	0.022	0.039	0.034	0.027
2/24/2010 19:10	27.533	0.440	7.42	11.4	14.6	12.6	9.6	0.044	0.022	0.039	0.034	0.027
2/24/2010 19:15	28.033	0.464	7.50	9.7	27.2	11.0	7.8	0.046	0.173	0.039	0.034	0.029
2/24/2010 19:20	37.071	0.439	7.58	36.0	36.2	7.7	36.1	0.044	0.203	0.039	0.046	0.027
2/24/2010 19:25	35.726	0.440	7.67	34.6	34.9	34.8	34.8	0.044	0.215	0.039	0.049	0.029
2/24/2010 19:30	23.005	0.440	0.00	10.5	9.6	9.8	9.4	0.044	0.569	0.039	0.784	0.029
2/24/2010 19:35	22.661	0.710	0.08	10.7	9.5	9.7	9.2	0.071	0.137	0.039	0.117	0.083
2/24/2010 19:40	22.837	0.440	0.17	11.0	9.8	9.9	9.4	0.044	0.034	0.039	0.049	0.073
2/24/2010 19:45	23.075	0.440	0.25	11.2	10.0	10.1	9.5	0.044	0.027	0.042	0.042	0.049
2/24/2010 19:50	23.157	0.439	0.33	11.3	10.1	10.2	9.7	0.044	0.024	0.042	0.039	0.039
2/24/2010 19:55	23.116	0.536	0.42	11.2	10.0	10.1	9.5	0.054	0.024	0.042	0.039	0.039
2/24/2010 20:00	22.895	0.465	0.50	11.0	9.8	10.0	9.4	0.046	0.024	0.042	0.039	0.034
2/24/2010 20:05	23.506	0.440	0.58	11.7	10.5	10.6	9.9	0.044	0.024	0.042	0.037	0.034
2/24/2010 20:10	23.073	0.439	0.67	11.2	9.9	10.1	9.4	0.044	0.024	0.042	0.037	0.034
2/24/2010 20:15	23.148	0.439	0.75	11.3	10.0	10.2	9.5	0.044	0.024	0.042	0.037	0.032
2/24/2010 20:20	23.120	0.439	0.83	11.2	10.0	10.2	9.4	0.044	0.024	0.042	0.037	0.034
2/24/2010 20:25	23.126	0.414	0.92	11.3	10.0	10.2	9.5	0.041	0.024	0.042	0.037	0.032
2/24/2010 20:30	23.099	0.439	1.00	11.3	10.0	10.3	9.4	0.044	0.024	0.042	0.037	0.032
2/24/2010 20:35	23.249	0.440	1.08	11.4	10.1	10.4	9.5	0.044	0.024	0.042	0.037	0.032
2/24/2010 20:40	23.005	0.464	1.17	11.2	9.9	10.1	9.3	0.046	0.024	0.041	0.037	0.032
2/24/2010 20:45	22.883	0.440	1.25	11.1	9.8	10.0	9.2	0.044	0.024	0.044	0.037	0.032
2/24/2010 20:50	22.932	0.465	1.33	11.1	9.9	10.1	9.3	0.046	0.024	0.044	0.037	0.029
2/24/2010 20:55	23.178	0.439	1.42	11.4	10.1	10.4	9.5	0.044	0.024	0.044	0.037	0.032
2/24/2010 21:00	23.080	0.440	1.50	11.3	10.0	10.3	9.4	0.044	0.024	0.044	0.037	0.029
2/24/2010 21:05	23.170	0.440	1.58	11.4	10.1	10.4	9.5	0.044	0.024	0.044	0.037	0.029
2/24/2010 21:10	23.290	0.440	1.67	11.5	10.2	10.5	9.6	0.044	0.022	0.046	0.037	0.029

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/24/2010 21:15	23.342	0.440	1.75	11.6	10.3	10.6	9.7	0.044	0.022	0.046	0.037	0.029
2/24/2010 21:20	23.441	0.440	1.83	11.6	10.4	10.6	9.6	0.044	0.024	0.046	0.037	0.029
2/24/2010 21:25	23.240	0.463	1.92	11.5	10.2	10.5	9.5	0.046	0.024	0.046	0.037	0.029
2/24/2010 21:30	23.324	0.465	2.00	11.5	10.2	10.6	9.6	0.046	0.022	0.046	0.037	0.029
2/24/2010 21:35	23.149	0.440	2.08	11.4	10.1	10.5	9.3	0.044	0.024	0.046	0.037	0.029
2/24/2010 21:40	23.517	0.464	2.17	11.7	10.4	10.8	9.7	0.046	0.024	0.046	0.037	0.029
2/24/2010 21:45	23.442	0.440	2.25	11.6	10.3	10.7	9.6	0.044	0.022	0.046	0.037	0.029
2/24/2010 21:50	23.607	0.463	2.33	11.9	10.5	10.9	9.8	0.046	0.022	0.046	0.037	0.029
2/24/2010 21:55	23.300	0.440	2.42	11.5	10.2	10.6	9.4	0.044	0.022	0.049	0.037	0.029
2/24/2010 22:00	23.250	0.440	2.50	11.5	10.1	10.6	9.5	0.044	0.022	0.049	0.037	0.029
2/24/2010 22:05	23.688	0.440	2.58	11.9	10.6	11.0	9.8	0.044	0.022	0.049	0.037	0.029
2/24/2010 22:10	23.854	0.440	2.67	12.0	10.7	11.2	10.0	0.044	0.022	0.049	0.037	0.029
2/24/2010 22:15	23.542	0.463	2.75	11.7	10.4	10.9	9.6	0.046	0.022	0.049	0.034	0.029
2/24/2010 22:20	23.425	0.439	2.83	11.7	10.3	10.8	9.5	0.044	0.022	0.051	0.037	0.029
2/24/2010 22:25	23.635	0.440	2.92	11.9	10.5	11.0	9.8	0.044	0.022	0.051	0.037	0.029
2/24/2010 22:30	23.938	0.440	3.00	12.2	10.8	11.4	10.1	0.044	0.024	0.051	0.037	0.029
2/24/2010 22:35	23.663	0.440	3.08	11.9	10.5	11.1	9.7	0.044	0.022	0.051	0.037	0.029
2/24/2010 22:40	23.395	0.440	3.17	11.7	10.2	10.9	9.5	0.044	0.022	0.051	0.037	0.029
2/24/2010 22:45	23.513	0.440	3.25	11.8	10.4	11.0	9.6	0.044	0.022	0.054	0.037	0.029
2/24/2010 22:50	24.016	0.440	3.33	12.3	10.8	11.6	10.0	0.044	0.022	0.054	0.037	0.029
2/24/2010 22:55	23.858	0.538	3.42	12.2	10.7	11.4	9.9	0.054	0.022	0.054	0.037	0.029
2/24/2010 23:00	23.976	0.439	3.50	12.3	10.8	11.5	10.0	0.044	0.022	0.054	0.037	0.029
2/24/2010 23:05	23.640	0.439	3.58	12.0	10.5	11.2	9.7	0.044	0.022	0.056	0.034	0.029
2/24/2010 23:10	23.855	0.440	3.67	12.2	10.7	11.4	9.8	0.044	0.022	0.056	0.037	0.029
2/24/2010 23:15	23.882	0.439	3.75	12.2	10.7	11.5	9.9	0.044	0.022	0.056	0.037	0.029
2/24/2010 23:20	23.788	0.463	3.83	12.2	10.6	11.5	9.7	0.046	0.022	0.056	0.037	0.029
2/24/2010 23:25	23.691	0.440	3.92	12.1	10.5	11.4	9.6	0.044	0.022	0.059	0.037	0.029
2/24/2010 23:30	24.004	0.439	4.00	12.4	10.8	11.7	10.0	0.044	0.022	0.059	0.037	0.029
2/24/2010 23:35	23.854	0.440	4.08	12.3	10.6	11.5	9.8	0.044	0.022	0.059	0.037	0.029
2/24/2010 23:40	24.246	0.440	4.17	12.7	11.2	12.0	10.2	0.044	0.022	0.059	0.037	0.029
2/24/2010 23:45	23.859	0.439	4.25	12.4	10.8	11.6	9.8	0.044	0.022	0.061	0.034	0.029
2/24/2010 23:50	24.247	0.465	4.33	12.7	11.1	12.0	10.1	0.046	0.022	0.061	0.037	0.029
2/24/2010 23:55	23.760	0.440	4.42	12.2	10.7	11.6	9.7	0.044	0.022	0.061	0.034	0.029
2/25/2010 0:00	23.929	0.415	4.50	12.4	10.8	11.7	9.9	0.041	0.022	0.064	0.034	0.029
2/25/2010 0:05	24.082	0.439	4.58	12.6	11.0	11.9	10.0	0.044	0.022	0.064	0.037	0.029
2/25/2010 0:10	24.148	0.439	4.67	12.6	11.0	12.0	10.1	0.044	0.022	0.066	0.037	0.029
2/25/2010 0:15	24.055	0.440	4.75	12.6	10.9	11.9	10.0	0.044	0.022	0.066	0.037	0.029
2/25/2010 0:20	23.885	0.440	4.83	12.4	10.8	11.8	9.7	0.044	0.022	0.066	0.034	0.029
2/25/2010 0:25	23.958	0.415	4.92	12.6	10.9	11.8	9.8	0.042	0.022	0.068	0.037	0.029

Hopedale MA Pilot Study Report
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Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/25/2010 0:30	24.460	0.441	5.00	13.2	11.4	12.4	10.4	0.044	0.022	0.068	0.037	0.029
2/25/2010 0:35	23.666	0.584	5.08	12.5	10.7	11.8	9.7	0.058	0.022	0.071	0.037	0.029
2/25/2010 0:40	24.030	0.439	5.17	12.9	11.2	12.2	10.1	0.044	0.022	0.071	0.034	0.029
2/25/2010 0:45	23.590	0.440	5.25	12.5	10.7	11.8	9.6	0.044	0.022	0.073	0.037	0.027
2/25/2010 0:50	24.384	0.415	5.33	13.2	11.4	12.5	10.4	0.042	0.022	0.073	0.034	0.029
2/25/2010 0:55	23.866	0.440	5.42	12.8	10.9	12.0	9.8	0.044	0.022	0.076	0.037	0.029
2/25/2010 1:00	23.953	0.440	5.50	12.9	11.1	12.2	9.9	0.044	0.022	0.076	0.037	0.029
2/25/2010 1:05	24.128	0.439	5.58	13.1	11.2	12.4	10.2	0.044	0.022	0.076	0.034	0.029
2/25/2010 1:10	24.132	0.464	5.67	13.0	11.2	12.3	10.0	0.046	0.022	0.076	0.034	0.029
2/25/2010 1:15	24.129	0.440	5.75	13.0	11.2	12.3	9.9	0.044	0.022	0.076	0.037	0.029
2/25/2010 1:20	23.983	0.440	5.83	12.9	11.0	12.2	9.9	0.044	0.022	0.078	0.037	0.029
2/25/2010 1:25	24.158	0.440	5.92	13.1	11.2	12.4	10.0	0.044	0.022	0.078	0.037	0.029
2/25/2010 1:30	24.059	0.440	6.00	13.0	11.1	12.3	9.9	0.044	0.022	0.078	0.034	0.029
2/25/2010 1:35	24.203	0.439	6.08	13.1	11.2	12.4	10.0	0.044	0.022	0.078	0.034	0.029
2/25/2010 1:40	23.987	0.464	6.17	13.0	11.1	12.3	9.8	0.046	0.022	0.081	0.037	0.029
2/25/2010 1:45	24.489	0.441	6.25	13.5	11.6	12.8	10.4	0.044	0.022	0.081	0.034	0.029
2/25/2010 1:50	24.386	0.439	6.33	13.4	11.6	12.7	10.2	0.044	0.022	0.083	0.034	0.029
2/25/2010 1:55	24.325	0.439	6.42	13.4	11.4	12.6	10.2	0.044	0.022	0.083	0.034	0.029
2/25/2010 2:00	24.325	0.439	6.50	13.4	11.4	12.6	10.1	0.044	0.022	0.086	0.037	0.029
2/25/2010 2:05	24.108	0.439	6.58	13.2	11.2	12.4	9.9	0.044	0.022	0.086	0.034	0.029
2/25/2010 2:10	24.374	0.463	6.67	13.4	11.5	12.7	10.2	0.046	0.022	0.086	0.034	0.029
2/25/2010 2:15	24.375	0.440	6.75	13.5	11.5	12.8	10.2	0.044	0.022	0.086	0.034	0.029
2/25/2010 2:20	24.591	0.439	6.83	13.7	11.7	13.0	10.4	0.044	0.024	0.085	0.034	0.029
2/25/2010 2:25	24.451	0.440	6.92	13.6	11.6	12.8	10.3	0.044	0.022	0.088	0.034	0.029
2/25/2010 2:30	24.470	0.440	7.00	13.7	11.6	12.9	10.2	0.044	0.022	0.088	0.034	0.029
2/25/2010 2:35	24.662	0.440	7.08	13.8	11.8	13.1	10.5	0.044	0.022	0.088	0.037	0.029
2/25/2010 2:40	24.684	0.464	7.17	13.9	11.9	13.1	10.4	0.046	0.022	0.088	0.034	0.029
2/25/2010 2:45	24.473	0.440	7.25	13.8	11.7	12.9	10.3	0.044	0.022	0.090	0.037	0.029
2/25/2010 2:50	24.691	0.440	7.33	14.0	11.9	13.1	10.4	0.044	0.022	0.090	0.034	0.029
2/25/2010 2:55	24.473	0.440	7.42	13.8	11.7	13.0	10.2	0.044	0.022	0.090	0.034	0.029
2/25/2010 3:00	24.705	0.585	7.50	14.0	12.0	13.2	10.5	0.059	0.022	0.090	0.034	0.029
2/25/2010 3:05	24.593	0.417	7.58	14.0	11.8	13.1	10.4	0.042	0.022	0.093	0.034	0.029
2/25/2010 3:10	24.955	0.441	7.67	14.3	12.2	13.5	10.7	0.044	0.022	0.093	0.034	0.029
2/25/2010 3:15	24.873	0.465	7.75	14.3	12.2	13.4	10.7	0.047	0.022	0.093	0.034	0.029
2/25/2010 3:20	24.516	0.440	7.83	14.0	11.9	13.1	10.3	0.044	0.022	0.095	0.034	0.029
2/25/2010 3:25	24.842	0.464	7.92	14.3	12.1	13.4	10.6	0.046	0.022	0.095	0.034	0.029
2/25/2010 3:30	25.303	0.440	8.00	14.8	12.6	13.9	11.1	0.044	0.022	0.098	0.034	0.029
2/25/2010 3:35	24.772	0.440	8.08	14.3	12.1	13.4	10.6	0.044	0.022	0.098	0.034	0.029
2/25/2010 3:40	24.367	0.440	8.17	13.8	11.7	13.0	10.2	0.044	0.022	0.098	0.034	0.029

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/25/2010 3:45	24.787	0.440	8.25	14.3	12.1	13.4	10.5	0.044	0.022	0.100	0.034	0.029
2/25/2010 3:50	24.714	0.440	8.33	14.3	12.1	13.4	10.5	0.044	0.022	0.100	0.034	0.029
2/25/2010 3:55	25.102	0.439	8.42	14.7	12.5	13.8	10.8	0.044	0.022	0.100	0.034	0.029
2/25/2010 4:00	25.029	0.414	8.50	14.6	12.5	13.7	10.8	0.041	0.022	0.103	0.034	0.029
2/25/2010 4:05	24.955	0.439	8.58	14.6	12.4	13.7	10.7	0.044	0.022	0.103	0.034	0.029
2/25/2010 4:10	25.197	0.439	8.67	14.8	12.6	13.9	10.9	0.044	0.022	0.105	0.034	0.029
2/25/2010 4:15	25.056	0.438	8.75	14.7	12.6	13.8	10.8	0.044	0.022	0.105	0.034	0.029
2/25/2010 4:20	25.458	0.463	8.83	15.2	13.0	14.2	11.2	0.046	0.022	0.105	0.034	0.027
2/25/2010 4:25	24.457	0.439	8.92	14.2	12.0	13.2	10.2	0.044	0.022	0.107	0.034	0.029
2/25/2010 4:30	24.886	0.439	9.00	14.6	12.4	13.7	10.6	0.044	0.022	0.107	0.034	0.029
2/25/2010 4:35	24.885	0.463	9.08	14.7	12.5	13.7	10.6	0.046	0.022	0.107	0.034	0.029
2/25/2010 4:40	25.119	0.439	9.17	14.9	12.7	14.0	10.9	0.044	0.024	0.108	0.034	0.029
2/25/2010 4:45	25.245	0.440	9.25	15.0	12.8	14.1	11.1	0.044	0.022	0.110	0.034	0.029
2/25/2010 4:50	24.836	0.440	9.33	14.6	12.5	13.7	10.6	0.044	0.022	0.112	0.034	0.029
2/25/2010 4:55	25.131	0.465	9.42	15.0	12.8	14.0	11.0	0.046	0.024	0.112	0.037	0.029
2/25/2010 5:00	25.143	0.440	9.50	15.0	12.8	14.1	11.0	0.044	0.022	0.110	0.037	0.029
2/25/2010 5:05	25.134	0.439	9.58	15.0	12.8	14.0	10.9	0.044	0.022	0.112	0.034	0.029
2/25/2010 5:10	24.983	0.440	9.67	14.9	12.7	13.9	10.8	0.044	0.022	0.112	0.034	0.029
2/25/2010 5:15	25.200	0.414	9.75	15.1	12.9	14.2	11.0	0.041	0.022	0.115	0.034	0.027
2/25/2010 5:20	25.433	0.439	9.83	15.3	13.1	14.4	11.2	0.044	0.022	0.115	0.034	0.029
2/25/2010 5:25	25.014	0.437	9.92	15.0	12.8	14.1	10.8	0.044	0.024	0.117	0.034	0.029
2/25/2010 5:30	25.157	0.439	10.00	15.1	12.9	14.2	11.0	0.044	0.022	0.117	0.034	0.029
2/25/2010 5:35	24.914	0.440	10.08	14.9	12.7	13.9	10.8	0.044	0.022	0.117	0.034	0.029
2/25/2010 5:40	25.215	0.441	10.17	15.2	13.1	14.3	11.1	0.044	0.022	0.120	0.037	0.029
2/25/2010 5:45	25.985	0.439	10.25	16.1	13.8	15.1	11.8	0.044	0.022	0.122	0.034	0.029
2/25/2010 5:50	25.178	0.439	10.33	15.3	13.0	14.3	11.0	0.044	0.022	0.122	0.034	0.029
2/25/2010 5:55	25.368	0.440	10.42	15.4	13.3	14.5	11.3	0.044	0.022	0.125	0.034	0.029
2/25/2010 6:00	25.256	0.440	10.50	15.4	13.1	14.4	11.1	0.044	0.022	0.125	0.034	0.029
2/25/2010 6:05	25.289	0.439	10.58	15.4	13.2	14.4	11.1	0.044	0.022	0.127	0.034	0.029
2/25/2010 6:10	25.043	0.440	10.67	15.2	13.0	14.2	10.9	0.044	0.024	0.127	0.034	0.029
2/25/2010 6:15	24.941	0.440	10.75	15.2	13.0	14.2	10.8	0.044	0.022	0.130	0.034	0.029
2/25/2010 6:20	25.348	0.440	10.83	15.5	13.3	14.6	11.2	0.044	0.022	0.129	0.034	0.029
2/25/2010 6:25	25.151	0.463	10.92	15.4	13.1	14.4	11.0	0.046	0.022	0.132	0.034	0.029
2/25/2010 6:30	25.515	0.440	11.00	15.8	13.6	14.8	11.5	0.044	0.024	0.132	0.034	0.029
2/25/2010 6:35	25.470	0.439	11.08	15.8	13.6	14.8	11.3	0.044	0.024	0.134	0.034	0.029
2/25/2010 6:40	25.766	0.439	11.17	16.0	13.9	15.1	11.7	0.044	0.024	0.134	0.034	0.029
2/25/2010 6:45	25.318	0.440	11.25	15.6	13.4	14.7	11.3	0.044	0.024	0.134	0.037	0.029
2/25/2010 6:50	25.581	0.463	11.33	16.0	13.7	15.0	11.6	0.046	0.022	0.134	0.034	0.029
2/25/2010 6:55	25.517	0.440	11.42	15.9	13.6	14.9	11.5	0.044	0.022	0.137	0.037	0.029

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/25/2010 7:00	25.577	0.439	11.50	16.0	13.8	15.1	11.7	0.044	0.024	0.137	0.034	0.029
2/25/2010 7:05	25.719	0.440	11.58	16.2	13.9	15.2	11.8	0.044	0.024	0.154	0.034	0.029
2/25/2010 7:10	25.307	0.439	11.67	15.7	13.4	14.7	11.2	0.044	0.024	0.154	0.034	0.029
2/25/2010 7:15	25.331	0.440	11.75	15.7	13.5	14.7	11.2	0.044	0.024	0.149	0.034	0.029
2/25/2010 7:20	25.273	0.439	11.83	15.7	13.4	14.7	11.1	0.044	0.024	0.154	0.037	0.029
2/25/2010 7:25	25.549	0.440	11.92	16.0	13.8	14.9	11.5	0.044	0.024	0.156	0.034	0.029
2/25/2010 7:30	25.564	0.463	12.00	16.0	13.8	15.0	11.5	0.046	0.024	0.156	0.034	0.029
2/25/2010 7:35	25.288	0.440	12.08	15.7	13.5	14.8	11.2	0.044	0.022	0.156	0.037	0.029
2/25/2010 7:40	25.561	0.440	12.17	16.1	13.8	15.0	11.5	0.044	0.024	0.156	0.034	0.029
2/25/2010 7:45	25.600	0.463	12.25	16.1	13.9	15.1	11.5	0.046	0.022	0.159	0.034	0.029
2/25/2010 7:50	25.670	0.440	12.33	16.1	13.9	15.2	11.6	0.044	0.024	0.159	0.034	0.029
2/25/2010 7:55	25.691	0.440	12.42	16.2	14.0	15.3	11.7	0.044	0.024	0.159	0.034	0.029
2/25/2010 8:00	25.567	0.538	12.50	16.1	14.0	15.2	11.6	0.054	0.022	0.161	0.034	0.029
2/25/2010 8:05	25.570	0.440	12.58	16.2	14.0	15.1	11.6	0.044	0.024	0.159	0.034	0.029
2/25/2010 8:10	25.617	0.439	12.67	16.2	14.0	15.3	11.6	0.044	0.024	0.161	0.034	0.029
2/25/2010 8:15	25.784	0.415	12.75	16.4	14.2	15.4	11.7	0.041	0.024	0.164	0.034	0.029
2/25/2010 8:20	25.789	0.439	12.83	16.5	14.2	15.4	11.8	0.044	0.022	0.164	0.034	0.029
2/25/2010 8:25	25.783	0.416	12.92	16.4	14.2	15.4	11.7	0.042	0.022	0.166	0.034	0.032
2/25/2010 8:30	25.948	0.439	13.00	16.5	14.4	15.6	12.0	0.044	0.024	0.164	0.034	0.029
2/25/2010 8:35	26.341	0.439	13.08	17.0	14.9	16.0	12.3	0.044	0.022	0.166	0.037	0.029
2/25/2010 8:40	26.213	0.464	13.17	14.6	14.0	14.2	11.4	0.046	0.024	0.168	0.034	0.029
2/25/2010 8:45	24.776	0.442	13.25	17.9	14.2	16.0	11.8	0.044	0.024	0.197	0.037	0.029
2/25/2010 8:50	24.760	0.440	13.33	17.9	14.3	15.9	11.8	0.044	0.024	0.049	0.037	0.029
2/25/2010 8:55	24.861	0.440	13.42	17.9	14.4	16.0	12.0	0.044	0.024	0.037	0.037	0.029
2/25/2010 9:00	24.877	0.440	13.50	18.0	14.4	16.0	12.0	0.044	0.024	0.037	0.037	0.029
2/25/2010 9:05	23.873	0.440	13.58	17.4	14.2	16.4	12.1	0.044	0.024	0.034	0.140	0.037
2/25/2010 9:10	24.347	0.439	13.67	17.6	14.2	16.0	12.4	0.044	0.024	0.037	0.102	0.032
2/25/2010 9:15	24.240	0.440	13.75	17.5	14.2	15.9	12.3	0.044	0.024	0.034	0.042	0.029
2/25/2010 9:20	24.098	0.439	13.83	17.4	14.0	15.8	12.2	0.044	0.024	0.037	0.037	0.029
2/25/2010 9:25	24.580	0.463	13.92	17.8	14.5	16.3	12.6	0.046	0.024	0.037	0.036	0.027
2/25/2010 9:30	24.384	0.440	14.00	17.7	14.4	16.2	12.4	0.044	0.024	0.037	0.037	0.029
2/25/2010 9:35	25.666	0.440	14.08	14.6	14.4	15.5	12.2	0.044	0.024	0.037	0.037	0.029
2/25/2010 9:40	24.523	0.439	14.17	17.9	14.3	15.2	12.1	0.044	0.024	0.041	0.039	0.027
2/25/2010 9:45	24.743	0.439	14.25	18.1	14.5	15.6	12.4	0.044	0.024	0.037	0.037	0.027
2/25/2010 9:50	24.561	0.440	14.33	17.9	14.2	15.5	12.3	0.044	0.024	0.037	0.037	0.027
2/25/2010 9:55	24.491	0.441	14.42	18.6	14.7	16.5	12.6	0.044	0.022	0.037	0.037	0.027
2/25/2010 10:00	23.605	0.440	14.50	19.3	14.2	17.3	11.9	0.044	0.024	0.037	0.037	0.027
2/25/2010 10:05	23.440	0.439	14.58	19.4	14.5	17.5	12.1	0.044	0.024	0.037	0.049	0.027
2/25/2010 10:10	23.427	0.440	14.67	19.7	14.6	17.5	12.3	0.044	0.024	0.037	0.051	0.027

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/25/2010 10:15	23.402	0.463	14.75	19.6	14.5	17.4	12.3	0.046	0.024	0.037	0.049	0.027
2/25/2010 10:20	23.588	0.440	14.83	19.8	14.7	17.6	12.4	0.044	0.024	0.036	0.051	0.027
2/25/2010 10:25	23.723	0.441	14.92	19.9	14.9	17.8	12.6	0.044	0.024	0.034	0.054	0.027
2/25/2010 10:30	24.005	0.441	15.00	20.2	15.1	18.0	12.8	0.044	0.024	0.037	0.056	0.027
2/25/2010 10:35	23.743	0.462	15.08	19.8	14.8	17.7	12.5	0.046	0.024	0.037	0.061	0.027
2/25/2010 10:40	23.704	0.441	15.17	19.8	14.7	17.7	12.4	0.044	0.024	0.037	0.064	0.027
2/25/2010 10:45	23.678	0.415	15.25	20.0	14.8	17.7	12.5	0.042	0.024	0.037	0.068	0.027
2/25/2010 10:50	23.670	0.439	15.33	19.9	14.8	17.7	12.5	0.044	0.024	0.037	0.071	0.027
2/25/2010 10:55	23.847	0.439	15.42	20.1	15.0	17.9	12.6	0.044	0.024	0.037	0.076	0.027
2/25/2010 11:00	23.685	0.440	15.50	19.9	14.8	17.7	12.5	0.044	0.024	0.037	0.083	0.027
2/25/2010 11:05	23.821	0.439	15.58	20.1	15.0	17.8	12.6	0.044	0.024	0.037	0.086	0.027
2/25/2010 11:10	24.078	0.440	15.67	20.4	15.2	18.1	12.8	0.044	0.024	0.037	0.093	0.027
2/25/2010 11:15	23.981	0.440	15.75	20.3	15.1	18.0	12.8	0.044	0.024	0.037	0.098	0.027
2/25/2010 11:20	23.621	0.462	15.83	19.9	14.8	17.7	12.4	0.046	0.024	0.039	0.100	0.027
2/25/2010 11:25	23.816	0.462	15.92	20.3	15.0	17.9	12.6	0.046	0.024	0.041	0.103	0.027
2/25/2010 11:30	23.783	0.462	16.00	20.3	15.0	17.9	12.6	0.046	0.024	0.042	0.105	0.027
2/25/2010 11:35	24.029	0.440	16.08	20.3	15.2	17.9	12.7	0.044	0.024	0.044	0.115	0.027
2/25/2010 11:40	23.627	0.439	16.17	20.1	14.7	17.7	12.4	0.044	0.024	0.046	0.117	0.027
2/25/2010 11:45	24.071	0.462	16.25	20.6	15.3	18.2	12.8	0.046	0.022	0.049	0.117	0.027
2/25/2010 11:50	23.849	0.439	16.33	20.4	15.0	17.9	12.6	0.044	0.022	0.051	0.125	0.027
2/25/2010 11:55	23.734	0.441	16.42	20.2	14.9	17.9	12.5	0.044	0.022	0.054	0.127	0.027
2/25/2010 12:00	24.005	0.443	16.50	20.5	15.2	18.1	12.7	0.044	0.022	0.059	0.137	0.027
2/25/2010 12:05	24.067	0.443	16.58	20.6	15.3	18.2	12.8	0.044	0.022	0.061	0.144	0.027
2/25/2010 12:10	24.082	0.443	16.67	20.6	15.3	18.2	12.8	0.044	0.022	0.064	0.144	0.027
2/25/2010 12:15	23.945	0.461	16.75	20.4	15.2	18.1	12.6	0.046	0.022	0.068	0.152	0.027
2/25/2010 12:20	24.009	0.440	16.83	20.5	15.1	18.1	12.6	0.044	0.022	0.073	0.161	0.027
2/25/2010 12:25	24.146	0.440	16.92	20.6	15.2	18.2	12.8	0.044	0.022	0.076	0.161	0.027
2/25/2010 12:30	24.291	0.461	17.00	20.7	15.5	18.5	13.0	0.046	0.022	0.078	0.161	0.027
2/25/2010 12:35	24.440	0.443	17.08	20.9	15.5	18.6	13.2	0.044	0.022	0.078	0.164	0.027
2/25/2010 12:40	24.212	0.460	17.17	20.7	15.3	18.3	12.8	0.046	0.022	0.078	0.169	0.027
2/25/2010 12:45	24.121	0.439	17.25	20.6	15.2	18.2	12.8	0.044	0.022	0.083	0.174	0.027
2/25/2010 12:50	24.211	0.440	17.33	20.7	15.4	18.4	12.9	0.044	0.022	0.087	0.176	0.027
2/25/2010 12:55	24.080	0.439	17.42	20.7	15.2	18.1	12.7	0.044	0.022	0.093	0.181	0.027
2/25/2010 13:00	24.093	0.439	17.50	20.7	15.2	18.1	12.7	0.044	0.022	0.098	0.169	0.027
2/25/2010 13:05	24.331	0.460	17.58	20.9	15.5	18.4	12.9	0.046	0.022	0.098	0.173	0.027
2/25/2010 13:10	24.142	0.439	17.67	20.8	15.3	18.3	12.7	0.044	0.022	0.102	0.183	0.027
2/25/2010 13:15	24.472	0.460	17.75	21.1	15.6	18.6	13.1	0.046	0.022	0.105	0.188	0.027
2/25/2010 13:20	24.098	0.439	17.83	20.8	15.2	18.3	12.7	0.044	0.022	0.108	0.188	0.027
2/25/2010 13:25	24.246	0.439	17.92	20.9	15.4	18.5	12.8	0.044	0.022	0.110	0.198	0.027

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/25/2010 13:30	24.303	0.440	18.00	21.0	15.5	18.6	12.9	0.044	0.022	0.113	0.202	0.027
2/25/2010 13:35	24.622	0.440	18.08	21.3	15.7	18.9	13.2	0.044	0.022	0.115	0.205	0.027
2/25/2010 13:40	24.509	0.465	18.17	21.2	15.7	18.7	13.1	0.046	0.024	0.122	0.213	0.027
2/25/2010 13:45	24.529	0.443	18.25	21.2	15.7	18.8	13.1	0.044	0.022	0.120	0.212	0.027
2/25/2010 13:50	24.621	0.440	18.33	21.3	15.8	18.9	13.2	0.044	0.024	0.120	0.210	0.027
2/25/2010 13:55	24.467	0.439	18.42	21.2	15.6	18.7	13.1	0.044	0.022	0.125	0.212	0.027
2/25/2010 14:00	24.509	0.461	18.50	21.2	15.7	18.8	13.1	0.046	0.024	0.132	0.222	0.027
2/25/2010 14:05	24.272	0.436	18.58	21.0	15.5	18.6	12.9	0.044	0.022	0.135	0.229	0.027
2/25/2010 14:10	24.220	0.436	18.67	21.0	15.4	18.5	12.8	0.044	0.022	0.132	0.220	0.027
2/25/2010 14:15	24.365	0.440	18.75	21.1	15.6	18.7	12.9	0.044	0.022	0.135	0.225	0.027
2/25/2010 14:20	24.398	0.440	18.83	21.1	15.6	18.7	13.0	0.044	0.022	0.141	0.239	0.027
2/25/2010 14:25	24.658	0.440	18.92	21.4	15.9	18.9	13.2	0.044	0.022	0.139	0.239	0.027
2/25/2010 14:30	24.287	0.585	19.00	21.0	15.5	18.6	12.8	0.058	0.022	0.139	0.237	0.027
2/25/2010 14:35	24.632	0.440	19.08	21.4	15.9	18.9	13.2	0.044	0.022	0.147	0.239	0.027
2/25/2010 14:40	24.594	0.439	19.17	21.4	15.8	18.9	13.1	0.044	0.024	0.144	0.239	0.027
2/25/2010 14:45	24.528	0.439	19.25	21.3	15.7	18.9	13.0	0.044	0.022	0.147	0.239	0.027
2/25/2010 14:50	24.533	0.460	19.33	21.3	15.7	18.9	13.1	0.046	0.024	0.149	0.244	0.027
2/25/2010 14:55	24.531	0.440	19.42	21.3	15.7	18.9	13.0	0.044	0.024	0.159	0.254	0.029
2/25/2010 15:00	24.567	0.440	19.50	21.3	15.8	18.9	13.1	0.044	0.022	0.162	0.254	0.027
2/25/2010 15:05	24.813	0.439	19.58	21.6	16.0	19.2	13.2	0.044	0.024	0.164	0.259	0.027
2/25/2010 15:10	24.797	0.439	19.67	21.6	16.0	19.2	13.3	0.044	0.024	0.169	0.262	0.027
2/25/2010 15:15	24.691	0.443	19.75	21.5	15.9	19.1	13.2	0.044	0.024	0.169	0.261	0.027
2/25/2010 15:20	24.853	0.439	19.83	21.7	16.0	19.2	13.3	0.044	0.024	0.168	0.261	0.027
2/25/2010 15:25	24.894	0.443	19.92	21.7	16.1	19.3	13.4	0.044	0.024	0.173	0.271	0.029
2/25/2010 15:30	24.355	0.460	20.00	21.2	15.6	18.8	12.9	0.046	0.024	0.171	0.271	0.027
2/25/2010 15:35	24.917	0.439	20.08	21.7	16.1	19.3	13.4	0.044	0.022	0.176	0.273	0.027
2/25/2010 15:40	24.769	0.439	20.17	21.6	16.0	19.2	13.2	0.044	0.022	0.176	0.273	0.027
2/25/2010 15:45	24.748	0.440	20.25	21.6	15.8	19.1	13.2	0.044	0.024	0.173	0.268	0.027
2/25/2010 15:50	24.795	0.440	20.33	21.5	15.9	19.2	13.2	0.044	0.024	0.183	0.271	0.027
2/25/2010 15:55	24.698	0.440	20.42	21.6	15.9	19.1	13.1	0.044	0.024	0.178	0.254	0.027
2/25/2010 16:00	24.888	0.440	20.50	21.7	16.1	19.2	13.3	0.044	0.024	0.190	0.274	0.027
2/25/2010 16:05	25.137	0.418	20.58	22.0	16.3	19.6	13.6	0.042	0.024	0.193	0.281	0.027
2/25/2010 16:10	24.865	0.465	20.67	21.7	16.1	19.3	13.3	0.046	0.022	0.190	0.283	0.029
2/25/2010 16:15	24.731	0.460	20.75	21.6	15.9	19.2	13.2	0.046	0.024	0.195	0.288	0.027
2/25/2010 16:20	24.422	0.443	20.83	21.4	15.7	18.9	12.9	0.044	0.024	0.195	0.305	0.027
2/25/2010 16:25	25.035	0.444	20.92	21.9	16.3	19.5	13.4	0.044	0.024	0.193	0.293	0.027
2/25/2010 16:30	24.899	0.441	21.00	21.8	16.1	19.4	13.3	0.044	0.024	0.195	0.293	0.027
2/25/2010 16:35	25.049	0.465	21.08	22.0	16.3	19.6	13.6	0.046	0.024	0.195	0.286	0.027
2/25/2010 16:40	25.103	0.439	21.17	22.0	16.3	19.6	13.5	0.044	0.024	0.190	0.286	0.029

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/25/2010 16:45	24.926	0.464	21.25	21.9	16.2	19.5	13.4	0.046	0.022	0.193	0.283	0.027
2/25/2010 16:50	25.050	0.421	21.33	22.0	16.3	19.5	13.4	0.042	0.024	0.193	0.286	0.027
2/25/2010 16:55	24.998	0.440	21.42	21.9	16.2	19.5	13.4	0.044	0.024	0.195	0.286	0.027
2/25/2010 17:00	24.861	0.439	21.50	21.8	16.1	19.4	13.3	0.044	0.024	0.203	0.295	0.027
2/25/2010 17:05	24.777	0.439	21.58	21.7	16.0	19.3	13.2	0.044	0.024	0.203	0.296	0.027
2/25/2010 17:10	25.207	0.440	21.67	22.1	16.4	19.8	13.6	0.044	0.024	0.200	0.288	0.029
2/25/2010 17:15	24.857	0.443	21.75	21.8	16.1	19.4	13.3	0.044	0.024	0.203	0.296	0.027
2/25/2010 17:20	24.861	0.439	21.83	21.8	16.1	19.4	13.3	0.044	0.024	0.203	0.298	0.027
2/25/2010 17:25	25.052	0.464	21.92	22.0	16.3	19.6	13.5	0.046	0.024	0.206	0.298	0.027
2/25/2010 17:30	24.961	0.443	22.00	21.9	16.2	19.5	13.4	0.044	0.024	0.215	0.313	0.027
2/25/2010 17:35	25.099	0.439	22.08	22.1	16.3	19.6	13.5	0.044	0.024	0.210	0.310	0.027
2/25/2010 17:40	25.239	0.440	22.17	22.2	16.5	19.8	13.6	0.044	0.024	0.217	0.311	0.027
2/25/2010 17:45	24.778	0.440	22.25	21.7	16.0	19.4		0.044	0.024	0.215	0.310	0.029
2/25/2010 17:50	25.138	0.461	22.33	22.1	16.4	19.7	13.6	0.046	0.024	0.213	0.310	0.027
2/25/2010 17:55	24.889	0.440	22.42	21.9	16.1	19.5	13.3	0.044	0.024	0.220	0.313	0.027
2/25/2010 18:00	24.779	0.443	22.50	21.7	16.1	19.4	13.2	0.044	0.024	0.210	0.308	0.027
2/25/2010 18:05	25.162	0.422	22.58	22.1	16.4	19.7	13.6	0.042	0.024	0.217	0.308	0.029
2/25/2010 18:10	25.148	0.439	22.67	22.1	16.4	19.7	13.5	0.044	0.024	0.217	0.320	0.027
2/25/2010 18:15	25.319	0.442	22.75	22.3	16.5	19.9	13.7	0.044	0.024	0.217	0.313	0.027
2/25/2010 18:20	25.356	0.440	22.83	22.3	16.6	19.9	13.6	0.044	0.024	0.217	0.313	0.029
2/25/2010 18:25	25.491	0.440	22.92	22.4	16.7	20.1	13.8	0.044	0.024	0.222	0.315	0.029
2/25/2010 18:30	25.060	0.460	23.00	22.1	16.3	19.7	13.4	0.046	0.024	0.217	0.305	0.029
2/25/2010 18:35	25.248	0.440	23.08	22.2	16.4	19.9	13.5	0.044	0.024	0.230	0.319	0.029
2/25/2010 18:40	25.479	0.460	23.17	22.5	16.7	20.1	13.9	0.046	0.024	0.230	0.325	0.027
2/25/2010 18:45	25.117	0.439	23.25	22.2	16.4	19.8	13.5	0.044	0.024	0.230	0.327	0.029
2/25/2010 18:50	25.447	0.444	23.33	22.5	16.7	20.1	13.9	0.044	0.024	0.232	0.327	0.027
2/25/2010 18:55	25.190	0.610	23.42	22.2	16.4	19.9	13.6	0.061	0.022	0.235	0.332	0.029
2/25/2010 19:00	25.434	0.439	23.50	22.5	16.7	20.1	13.8	0.044	0.024	0.244	0.344	0.029
2/25/2010 19:05	25.413	0.439	23.58	22.5	16.7	20.1	13.8	0.044	0.024	0.234	0.337	0.029
2/25/2010 19:10	25.220	0.459	23.67	22.3	16.5	19.9	13.7	0.046	0.024	0.234	0.337	0.029
2/25/2010 19:15	25.475	0.438	23.75	22.5	16.8	20.2	13.8	0.044	0.024	0.234	0.332	0.029
2/25/2010 19:20	25.264	0.439	23.83	22.3	16.6	20.0	13.6	0.044	0.024	0.239	0.335	0.029
2/25/2010 19:25	25.156	0.443	23.92	22.2	16.5	19.9	13.6	0.044	0.024	0.244	0.342	0.029
2/25/2010 19:30	25.533	0.439	24.00	22.6	16.8	20.3	13.8	0.044	0.024	0.242	0.337	0.029
2/25/2010 19:35	25.553	0.443	24.08	22.6	16.8	20.3		0.044	0.024	0.237	0.332	0.029
2/25/2010 19:40	25.431	0.439	24.17	22.5	16.7	20.2		0.044	0.024	0.237	0.332	0.029
2/25/2010 19:45	25.886	0.439	24.25	22.8	17.2	20.6	14.3	0.044	0.024	0.256	0.347	0.032
2/25/2010 19:50	25.452	0.439	24.33	22.6	16.8	20.3	13.8	0.044	0.024	0.252	0.376	0.032
2/25/2010 19:55	25.588	0.443	24.42	22.7	16.9	20.4	14.0	0.044	0.024	0.247	0.364	0.032

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/25/2010 20:00	25.482	0.439	24.50	22.6	16.8	20.3	13.9	0.044	0.024	0.252	0.361	0.032
2/25/2010 20:05	25.462	0.461	24.58	22.6	16.8	20.3	13.9	0.046	0.024	0.246	0.352	0.034
2/25/2010 20:10	25.212	0.439	24.67	22.4	16.6	20.1	13.7	0.044	0.024	0.257	0.369	0.034
2/25/2010 20:15	25.244	0.442	24.75	22.4	16.6	20.1	13.8	0.044	0.024	0.257	0.374	0.036
2/25/2010 20:20	25.293	0.461	24.83	22.4	16.7	20.1	13.7	0.046	0.024	0.259	0.364	0.037
2/25/2010 20:25	25.679	0.439	24.92	22.8	17.0	20.5	14.1	0.044	0.024	0.268	0.364	0.039
2/25/2010 20:30	25.293	0.440	25.00	22.4	16.6	20.1	13.6	0.044	0.024	0.268	0.366	0.039
2/25/2010 20:35	25.660	0.440	25.08	22.8	17.0	20.5	14.1	0.044	0.024	0.256	0.354	0.042
2/25/2010 20:40	25.201	0.440	25.17	22.3	16.5	20.1	13.6	0.044	0.024	0.264	0.357	0.044
2/25/2010 20:45	25.504	0.440	25.25	22.7	16.8	20.4	13.9	0.044	0.024	0.259	0.359	0.046
2/25/2010 20:50	25.786	0.453	25.33	23.0	17.1	20.7	14.2	0.045	0.024	0.256	0.359	0.047
2/25/2010 20:55	25.778	0.464	25.42	23.0	17.1	20.7	14.1	0.046	0.024	0.261	0.364	0.049
2/25/2010 21:00	25.551	0.439	25.50	22.7	16.9	20.4	13.9	0.044	0.024	0.269	0.361	0.052
2/25/2010 21:05	25.637	0.439	25.58	22.8	17.0	20.5	14.0	0.044	0.024	0.266	0.361	0.055
2/25/2010 21:10	25.700	0.453	25.67	22.9	17.1	20.6	14.1	0.045	0.024	0.261	0.359	0.056
2/25/2010 21:15	25.745	0.440	25.75	22.9	17.1	20.7	14.1	0.044	0.024	0.270	0.366	0.060
2/25/2010 21:20	25.463	0.453	25.83	22.7	16.8	20.4	13.9	0.045	0.024	0.269	0.364	0.064
2/25/2010 21:25	25.494	0.453	25.92	22.7	16.9	20.5	13.9	0.045	0.024	0.264	0.361	0.065
2/25/2010 21:30	25.536	0.440	26.00	22.7	16.9	20.5	14.0	0.044	0.024	0.267	0.364	0.069
2/25/2010 21:35	25.708	0.440	26.08	22.9	17.1	20.7	14.1	0.044	0.024	0.276	0.381	0.073
2/25/2010 21:40	25.607	0.439	26.17	22.8	17.0	20.6	14.0	0.044	0.024	0.279	0.381	0.076
2/25/2010 21:45	25.797	0.467	26.25	23.0	17.2	20.8		0.047	0.024	0.281	0.387	0.081
2/25/2010 21:50	25.801	0.440	26.33	23.0	17.2	20.8		0.044	0.024	0.276	0.386	0.086
2/25/2010 21:55	25.999	0.440	26.42	23.2	17.4	21.0	14.4	0.044	0.024	0.269	0.374	0.086
2/25/2010 22:00	26.141	0.451	26.50	23.3	17.5	21.0	14.5	0.045	0.024	0.271	0.366	0.090
2/25/2010 22:05	25.892	0.440	26.58	23.1	17.3	20.9	14.2	0.044	0.024	0.280	0.376	0.095
2/25/2010 22:10	25.794	0.439	26.67	23.0	17.2	20.7	14.2	0.044	0.024	0.277	0.381	0.098
2/25/2010 22:15	25.628	0.466	26.75	22.8	17.0	20.6	14.0	0.047	0.026	0.271	0.371	0.100
2/25/2010 22:20	25.997	0.440	26.83	23.2	17.4	21.0	14.4	0.044	0.027	0.282	0.384	0.103
2/25/2010 22:25	25.804	0.439	26.92	23.0	17.1	20.8	14.0	0.044	0.027	0.281	0.381	0.108
2/25/2010 22:30	26.000	0.439	27.00	23.2	17.4	21.0	14.3	0.044	0.027	0.274	0.372	0.107
2/25/2010 22:35	26.002	0.439	27.08	23.2	17.3	21.0	14.3	0.044	0.027	0.274	0.374	0.114
2/25/2010 22:40	26.054	0.440	27.17	23.3	17.4	21.1	14.4	0.044	0.027	0.276	0.376	0.117
2/25/2010 22:45	25.871	0.452	27.25	23.1	17.3	20.9	14.2	0.045	0.027	0.276	0.376	0.122
2/25/2010 22:50	26.078	0.464	27.33	23.3	17.4	21.1	14.4	0.046	0.027	0.276	0.374	0.120
2/25/2010 22:55	25.835	0.439	27.42	23.1	17.2	20.9		0.044	0.029	0.284	0.382	0.127
2/25/2010 23:00	26.041	0.439	27.50	23.3	17.4	21.1	14.3	0.044	0.028	0.281	0.386	0.132
2/25/2010 23:05	26.076	0.451	27.58	23.3	17.5	21.1	14.4	0.045	0.029	0.285	0.386	0.137
2/25/2010 23:10	25.625	0.440	27.67	22.9	17.0	20.7		0.044	0.029	0.286	0.386	0.139

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/25/2010 23:15	25.985	0.440	27.75	23.3	17.3	21.0	14.3	0.044	0.029	0.293	0.393	0.144
2/25/2010 23:20	26.019	0.463	27.83	23.3	17.4	21.1	14.3	0.046	0.029	0.291	0.393	0.149
2/25/2010 23:25	25.919	0.439	27.92	23.1	17.3	20.9	14.2	0.044	0.032	0.298	0.413	0.157
2/25/2010 23:30	25.904	0.451	28.00	23.1	17.3	21.0	14.2	0.045	0.032	0.303	0.418	0.159
2/25/2010 23:35	26.042	0.439	28.08	23.3	17.4	21.1	14.4	0.044	0.032	0.291	0.397	0.159
2/25/2010 23:40	25.913	0.453	28.17	23.2	17.3	21.0	14.2	0.045	0.032	0.291	0.391	0.159
2/25/2010 23:45	26.083	0.451	28.25	23.3	17.4	21.2	14.3	0.045	0.034	0.287	0.388	0.160
2/25/2010 23:50	26.290	0.609	28.33	23.5	17.6	21.3	14.5	0.061	0.034	0.295	0.398	0.166
2/25/2010 23:55	26.263	0.438	28.42	23.5	17.6	21.3	14.5	0.044	0.034	0.295	0.396	0.166
2/26/2010 0:00	26.190	0.440	28.50	23.4	17.6	21.3	14.5	0.044	0.037	0.291	0.395	0.170
2/26/2010 0:05	26.155	0.452	28.58	23.4	17.5	21.2	14.4	0.045	0.037	0.293	0.395	0.171
2/26/2010 0:10	26.167	0.440	28.67	23.4	17.5	21.2		0.044	0.037	0.290	0.393	0.173
2/26/2010 0:15	26.151	0.451	28.75	23.4	17.5	21.2	14.4	0.045	0.037	0.285	0.398	0.171
2/26/2010 0:20	26.041	0.451	28.83	23.3	17.5	21.1		0.045	0.039	0.290	0.396	0.178
2/26/2010 0:25	26.259	0.440	28.92	23.5	17.7	21.3	14.5	0.044	0.039	0.293	0.398	0.178
2/26/2010 0:30	26.407	0.440	29.00	23.7	17.8	21.5		0.044	0.039	0.304	0.415	0.188
2/26/2010 0:35	26.242	0.440	29.08	23.5	17.6	21.4		0.044	0.042	0.299	0.408	0.190
2/26/2010 0:40	26.218	0.440	29.17	23.5	17.6	21.3	14.4	0.044	0.042	0.305	0.420	0.190
2/26/2010 0:45	26.091	0.439	29.25	23.4	17.4	21.2		0.044	0.042	0.303	0.408	0.198
2/26/2010 0:50	26.077	0.452	29.33	23.4	17.5	21.2	14.4	0.045	0.044	0.300	0.408	0.195
2/26/2010 0:55	26.147	0.439	29.42	23.4	17.5	21.3		0.044	0.044	0.300	0.400	0.195
2/26/2010 1:00	26.266	0.439	29.50	23.5	17.6	21.4		0.044	0.047	0.310	0.415	0.203
2/26/2010 1:05	26.501	0.452	29.58	23.7	17.9	21.6		0.045	0.047	0.303	0.408	0.200
2/26/2010 1:10	26.132	0.451	29.67	23.4	17.5	21.3	14.4	0.045	0.046	0.304	0.410	0.208
2/26/2010 1:15	26.149	0.452	29.75	23.4	17.5	21.4		0.045	0.049	0.303	0.401	0.205
2/26/2010 1:20	26.497	0.451	29.83	23.8	17.9	21.6	14.8	0.045	0.049	0.295	0.407	0.205
2/26/2010 1:25	26.301	0.440	29.92	23.6	17.7	21.5		0.044	0.049	0.298	0.400	0.208
2/26/2010 1:30	26.264	0.440	30.00	23.5	17.7	21.5		0.044	0.051	0.307	0.403	0.216
2/26/2010 1:35	26.398	0.439	30.08	23.7	17.8	21.6	14.7	0.044	0.051	0.308	0.415	0.220
2/26/2010 1:40	26.325	0.440	30.17	23.6	17.6	21.5	14.6	0.044	0.054	0.313	0.413	0.217
2/26/2010 1:45	26.384	0.452	30.25	23.7	17.8	21.6		0.045	0.054	0.298	0.398	0.212
2/26/2010 1:50	26.381	0.440	30.33	23.7	17.8	21.6	14.6	0.044	0.055	0.303	0.400	0.215
2/26/2010 1:55	26.452	0.452	30.42	23.7	17.8	21.7		0.045	0.054	0.302	0.405	0.217
2/26/2010 2:00	26.328	0.452	30.50	23.6	17.7	21.6	14.6	0.045	0.056	0.308	0.408	0.220
2/26/2010 2:05	26.401	0.451	30.58	23.7	17.7	21.6	14.6	0.045	0.057	0.303	0.403	0.224
2/26/2010 2:10	26.533	0.452	30.67	23.8	17.9	21.8	14.8	0.045	0.059	0.304	0.405	0.227
2/26/2010 2:15	26.808	0.439	30.75	24.1	18.1	22.1	15.1	0.044	0.059	0.308	0.400	0.227
2/26/2010 2:20	26.597	0.439	30.83	23.9	18.0	21.8	14.9	0.044	0.059	0.300	0.398	0.225
2/26/2010 2:25	26.667	0.440	30.92	24.0	18.1	21.9		0.044	0.061	0.307	0.393	0.230

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/26/2010 2:30	26.392	0.439	31.00	23.7	17.8	21.7		0.044	0.061	0.310	0.408	0.234
2/26/2010 2:35	26.424	0.439	31.08	23.7	17.8	21.7		0.044	0.063	0.313	0.418	0.244
2/26/2010 2:40	26.585	0.439	31.17	23.9	18.0	21.9		0.044	0.063	0.315	0.415	0.242
2/26/2010 2:45	26.566	0.439	31.25	23.9	17.9	21.9	14.8	0.044	0.065	0.305	0.408	0.239
2/26/2010 2:50	26.425	0.439	31.33	23.7	17.8	21.7		0.044	0.068	0.310	0.418	0.241
2/26/2010 2:55	26.359	0.439	31.42	23.7	17.7	21.7		0.044	0.067	0.318	0.414	0.247
2/26/2010 3:00	26.678	0.440	31.50	24.0	18.0	22.0	14.9	0.044	0.068	0.321	0.430	0.254
2/26/2010 3:05	26.210	0.452	31.58	23.5	17.6	21.5	14.4	0.045	0.071	0.319	0.427	0.254
2/26/2010 3:10	27.079	0.440	31.67	24.4	18.5	22.4	15.3	0.044	0.071	0.312	0.422	0.254
2/26/2010 3:15	26.716	0.440	31.75	24.0	18.1	22.0		0.044	0.071	0.317	0.425	0.255
2/26/2010 3:20	26.713	0.440	31.83	24.1	18.1	22.1	15.0	0.044	0.071	0.310	0.424	0.253
2/26/2010 3:25	26.780	0.453	31.92	24.1	18.2	22.2	15.1	0.045	0.072	0.310	0.425	0.249
2/26/2010 3:30	26.310	0.439	32.00	23.7	17.7	21.6	14.5	0.044	0.073	0.317	0.422	0.256
2/26/2010 3:35	26.293	0.452	32.08	23.6	17.7	21.7	14.5	0.045	0.076	0.320	0.420	0.264
2/26/2010 3:40	26.645	0.439	32.17	24.0	18.1	22.0		0.044	0.076	0.320	0.420	0.266
2/26/2010 3:45	26.729	0.451	32.25	24.1	18.1	22.1		0.045	0.078	0.315	0.422	0.264
2/26/2010 3:50	26.907	0.451	32.33	24.3	18.3	22.3		0.045	0.078	0.327	0.426	0.269
2/26/2010 3:55	26.302	0.452	32.42	23.7	17.8	21.7		0.045	0.079	0.325	0.426	0.271
2/26/2010 4:00	26.619	0.439	32.50	24.0	18.1	22.0		0.044	0.081	0.310	0.410	0.266
2/26/2010 4:05	26.595	0.464	32.58	24.0	18.0	22.0		0.046	0.082	0.327	0.425	0.269
2/26/2010 4:10	26.389	0.440	32.67	23.8	18.0	21.9		0.044	0.085	0.321	0.427	0.271
2/26/2010 4:15	26.440	0.439	32.75	23.9	17.9	21.9		0.044	0.086	0.320	0.430	0.274
2/26/2010 4:20	26.518	0.439	32.83	23.9	18.0	22.0		0.044	0.088	0.315	0.418	0.274
2/26/2010 4:25	26.780	0.440	32.92	24.2	18.3	22.2		0.044	0.088	0.320	0.425	0.274
2/26/2010 4:30	26.511	0.452	33.00	23.9	18.0	22.0	14.8	0.045	0.085	0.320	0.420	0.274
2/26/2010 4:35	26.730	0.440	33.08	24.2	18.2	22.2	15.0	0.044	0.085	0.320	0.415	0.273
2/26/2010 4:40	26.726	0.452	33.17	24.1	18.2	22.2		0.045	0.090	0.332	0.435	0.289
2/26/2010 4:45	26.795	0.440	33.25	24.2	18.3	22.2		0.044	0.090	0.323	0.435	0.279
2/26/2010 4:50	26.472	0.439	33.33	23.9	18.0	21.9		0.044	0.090	0.327	0.437	0.288
2/26/2010 4:55	26.799	0.440	33.42	24.3	18.3	22.3		0.044	0.090	0.327	0.432	0.291
2/26/2010 5:00	26.567	0.452	33.50	24.1	18.1	22.1		0.045	0.090	0.330	0.442	0.286
2/26/2010 5:05	26.730	0.452	33.58	24.2	18.3	22.2		0.045	0.093	0.327	0.430	0.291
2/26/2010 5:10	26.740	0.451	33.67	24.2	18.2	22.2		0.045	0.094	0.332	0.444	0.288
2/26/2010 5:15	26.678	0.452	33.75	24.2	18.2	22.2		0.045	0.096	0.337	0.456	0.296
2/26/2010 5:20	26.702	0.440	33.83	24.2	18.3	22.2		0.044	0.098	0.332	0.442	0.291
2/26/2010 5:25	26.911	0.452	33.92	24.4	18.4	22.4		0.045	0.098	0.324	0.426	0.283
2/26/2010 5:30	26.897	0.452	34.00	24.4	18.4	22.4		0.045	0.096	0.327	0.427	0.293
2/26/2010 5:35	26.532	0.440	34.08	24.1	18.1	22.1		0.044	0.098	0.330	0.435	0.296
2/26/2010 5:40	26.593	0.440	34.17	24.1	18.2	22.1		0.044	0.099	0.339	0.439	0.301

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/26/2010 5:45	26.837	0.440	34.25	24.4	18.4	22.4		0.044	0.098	0.332	0.434	0.296
2/26/2010 5:50	26.652	0.440	34.33	24.2	18.3	22.2		0.044	0.100	0.332	0.442	0.300
2/26/2010 5:55	26.618	0.440	34.42	24.2	18.2	22.2		0.044	0.100	0.337	0.442	0.303
2/26/2010 6:00	26.800	0.440	34.50	24.3	18.4	22.4		0.044	0.103	0.329	0.444	0.305
2/26/2010 6:05	26.547	0.440	34.58	24.1	18.1	22.1		0.044	0.103	0.330	0.437	0.300
2/26/2010 6:10	26.765	0.440	34.67	24.3	18.4	22.3		0.044	0.105	0.327	0.437	0.303
2/26/2010 6:15	26.654	0.451	34.75	24.2	18.3	22.3		0.045	0.104	0.332	0.440	0.303
2/26/2010 6:20	26.532	0.451	34.83	24.1	18.2	22.1		0.045	0.105	0.327	0.437	0.298
2/26/2010 6:25	26.582	0.452	34.92	24.2	18.2	22.2		0.045	0.105	0.322	0.430	0.295
2/26/2010 6:30	26.616	0.452	35.00	24.2	18.2	22.2		0.045	0.105	0.332	0.449	0.305
2/26/2010 6:35	26.726	0.440	35.08	24.3	18.4	22.4		0.044	0.105	0.327	0.430	0.300
2/26/2010 6:40	26.594	0.452	35.17	24.2	18.3	22.2		0.045	0.105	0.330	0.430	0.303
2/26/2010 6:45	26.861	0.426	35.25	24.4	18.5	22.5		0.043	0.107	0.340	0.445	0.313
2/26/2010 6:50	26.532	0.452	35.33	24.1	18.2	22.2		0.045	0.114	0.332	0.442	0.308
2/26/2010 6:55	26.826	0.440	35.42	24.4	18.5	22.5		0.044	0.111	0.330	0.431	0.303
2/26/2010 7:00	26.776	0.452	35.50	24.4	18.5	22.4		0.045	0.112	0.342	0.444	0.312
2/26/2010 7:05	26.581	0.452	35.58	24.2	18.3	22.3		0.045	0.115	0.342	0.444	0.308
2/26/2010 7:10	26.885	0.439	35.67	24.4	18.6	22.6		0.044	0.120	0.347	0.459	0.321
2/26/2010 7:15	26.776	0.439	35.75	24.3	18.5	22.4		0.044	0.117	0.349	0.476	0.325
2/26/2010 7:20	26.543	0.440	35.83	24.1	18.2	22.2		0.044	0.120	0.347	0.464	0.321
2/26/2010 7:25	26.782	0.440	35.92	24.4	18.5	22.5		0.044	0.117	0.337	0.459	0.318
2/26/2010 7:30	26.631	0.439	36.00	24.2	18.3	22.3		0.044	0.120	0.347	0.471	0.325
2/26/2010 7:35	26.663	0.440	36.08	24.2	18.4	22.3		0.044	0.121	0.344	0.479	0.325
2/26/2010 7:40	26.900	0.439	36.17	24.5	18.6	22.6		0.044	0.120	0.337	0.447	0.312
2/26/2010 7:45	26.888	0.452	36.25	24.5	18.6	22.6		0.045	0.120	0.339	0.449	0.315
2/26/2010 7:50	26.908	0.452	36.33	24.5	18.6	22.6		0.045	0.122	0.342	0.447	0.322
2/26/2010 7:55	26.593	0.452	36.42	24.2	18.3	22.3		0.045	0.134	0.351	0.454	0.335
2/26/2010 8:00	26.998	0.440	36.50	24.6	18.7	22.7		0.044	0.134	0.359	0.498	0.343
2/26/2010 8:05	26.740	0.439	36.58	24.2	26.1	22.0		0.044	0.129	0.388	0.682	0.383
2/26/2010 8:10	26.091	0.440	36.67	23.6	25.3	21.3		0.044	0.479	0.762	1.294	0.663
2/26/2010 8:15	28.817	0.440	36.75	25.9	28.0	23.0		0.044	0.397	0.876	1.390	0.541
2/26/2010 8:20	33.027	0.452	36.83	32.0	32.2	23.0		0.045	0.383	0.501	1.639	0.360
2/26/2010 8:25	31.136	0.440	36.92	30.1	30.3	21.7		0.044	0.381	0.248	1.198	0.553
2/26/2010 8:30	31.231	0.452	37.00	30.2	30.4	21.7		0.045	0.431	0.181	0.262	0.166
2/26/2010 8:35	34.923	0.440	37.08	33.8	34.1	23.8		0.044	0.435	0.166	0.491	0.240
2/26/2010 8:40	34.066	0.440	37.17	33.0	33.3	22.2		0.044	0.432	0.171	1.000	0.280
2/26/2010 8:45	34.321	0.464	37.25	33.3	33.5	22.3		0.046	0.432	0.180	0.376	0.186
2/26/2010 8:50	38.303	0.458	37.33	37.3	37.5	24.3		0.046	0.435	0.180	0.475	0.179
2/26/2010 8:55	42.613	0.440	37.42	41.6	41.8	41.6		0.044	0.423	0.177	0.559	0.251

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Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/26/2010 9:00	38.672	0.456	37.50	37.6	37.9	37.7		0.046	0.405	0.171	0.359	0.230
2/26/2010 9:05	38.601	0.456	0.00	37.5	37.8	37.7		0.046	0.408	0.164	0.145	0.164
2/26/2010 9:10	22.682	0.448	0.08	15.8	10.7	10.8		0.045	0.568	0.643	0.352	0.197
2/26/2010 9:15	23.453	0.439	0.17	15.0	10.6	10.0		0.044	0.122	0.095	0.136	0.083
2/26/2010 9:20	24.522	0.440	0.25	14.0	10.9	10.2		0.044	0.046	0.051	0.085	0.042
2/26/2010 9:25	24.786	0.452	0.33	14.0	10.7	9.9		0.045	0.034	0.044	0.051	0.035
2/26/2010 9:30	24.848	0.439	0.42	14.1	10.7	9.9		0.044	0.029	0.041	0.041	0.034
2/26/2010 9:35	23.905	0.439	0.50	13.7	10.9	9.7		0.044	0.137	0.049	0.044	0.042
2/26/2010 9:40	24.213	0.464	0.58	14.0	11.1	9.9		0.046	0.049	0.041	0.042	0.043
2/26/2010 9:45	23.979	0.439	0.67	13.9	10.9	9.8		0.044	0.034	0.041	0.039	0.041
2/26/2010 9:50	24.104	0.451	0.75	14.0	11.0	9.8		0.045	0.029	0.042	0.039	0.039
2/26/2010 9:55	24.093	0.452	0.83	14.0	11.0	9.8		0.045	0.028	0.040	0.039	0.039
2/26/2010 10:00	24.396	0.439	0.92	14.3	11.3	10.1		0.044	0.027	0.039	0.039	0.039
2/26/2010 10:05	24.213	0.452	1.00	14.2	11.1	9.8		0.045	0.027	0.039	0.039	0.039
2/26/2010 10:10	24.263	0.452	1.08	14.2	11.1	9.9		0.045	0.027	0.039	0.038	0.039
2/26/2010 10:15	24.325	0.452	1.17	14.3	11.2	10.0		0.045	0.027	0.039	0.038	0.042
2/26/2010 10:20	24.360	0.452	1.25	14.4	11.2	10.0		0.045	0.027	0.039	0.037	0.047
2/26/2010 10:25	24.442	0.440	1.33	14.4	11.3	10.0		0.044	0.027	0.039	0.038	0.044
2/26/2010 10:30	24.451	0.439	1.42	14.6	11.4	10.1		0.044	0.026	0.039	0.037	0.042
2/26/2010 10:35	24.396	0.447	1.50	14.4	11.3	10.0		0.045	0.025	0.039	0.037	0.039
2/26/2010 10:40	24.199	0.447	1.58	14.3	11.1	9.8		0.045	0.027	0.039	0.037	0.039
2/26/2010 10:45	24.137	0.457	1.67	14.2	11.1	9.8		0.046	0.025	0.039	0.039	0.039
2/26/2010 10:50	24.594	0.445	1.75	14.7	11.5	10.2		0.044	0.024	0.039	0.037	0.039
2/26/2010 10:55	24.186	0.460	1.83	14.3	11.1	9.7		0.046	0.026	0.039	0.037	0.039
2/26/2010 11:00	24.364	0.464	1.92	14.6	11.3	9.9		0.046	0.024	0.039	0.039	0.039
2/26/2010 11:05	24.555	0.449	2.00	14.8	11.5	10.2		0.045	0.027	0.039	0.037	0.039
2/26/2010 11:10	24.308	0.447	2.08	14.5	11.2	9.9		0.045	0.024	0.039	0.037	0.039
2/26/2010 11:15	24.177	0.441	2.17	14.4	11.1	9.7		0.044	0.024	0.039	0.037	0.037
2/26/2010 11:20	24.457	0.440	2.25	14.7	11.4	10.0		0.044	0.024	0.039	0.037	0.039
2/26/2010 11:25	24.960	0.440	2.33	15.2	11.8	10.4		0.044	0.024	0.039	0.037	0.039
2/26/2010 11:30	24.734	0.440	2.42	15.0	11.6	10.2		0.044	0.024	0.039	0.037	0.039
2/26/2010 11:35	24.736	0.464	2.50	15.0	11.6	10.2		0.046	0.024	0.039	0.037	0.039
2/26/2010 11:40	24.374	0.440	2.58	14.7	11.3	9.9		0.044	0.024	0.039	0.037	0.039
2/26/2010 11:45	24.763	0.441	2.67	15.1	11.7	10.3		0.044	0.024	0.039	0.037	0.039
2/26/2010 11:50	24.325	0.451	2.75	14.7	11.4	9.9		0.045	0.024	0.039	0.037	0.039
2/26/2010 11:55	24.566	0.439	2.83	15.0	11.5	10.1		0.044	0.024	0.039	0.039	0.039
2/26/2010 12:00	24.699	0.442	2.92	15.1	11.7	10.2		0.044	0.024	0.039	0.037	0.039
2/26/2010 12:05	24.605	0.439	3.00	15.1	11.7	10.2		0.044	0.024	0.039	0.037	0.039
2/26/2010 12:10	24.594	0.448	3.08	15.1	11.6	10.1		0.045	0.024	0.039	0.037	0.039

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Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/26/2010 12:15	24.690	0.439	3.17	15.1	11.7	10.2		0.044	0.024	0.039	0.037	0.037
2/26/2010 12:20	24.701	0.446	3.25	15.3	11.7	10.3		0.045	0.024	0.039	0.037	0.037
2/26/2010 12:25	24.534	0.439	3.33	15.1	11.5	10.1		0.044	0.024	0.039	0.037	0.039
2/26/2010 12:30	24.796	0.606	3.42	15.3	11.8	10.3		0.061	0.026	0.039	0.039	0.039
2/26/2010 12:35	24.539	0.457	3.50	15.1	11.5	10.0		0.046	0.024	0.039	0.037	0.039
2/26/2010 12:40	24.866	0.455	3.58	15.4	11.9	10.3		0.046	0.024	0.039	0.037	0.039
2/26/2010 12:45	24.423	0.464	3.67	15.1	11.6	10.0		0.046	0.024	0.039	0.037	0.039
2/26/2010 12:50	24.469	0.464	3.75	15.2	11.6	10.0		0.046	0.024	0.039	0.037	0.042
2/26/2010 12:55	24.396	0.465	3.83	15.1	11.5	9.9		0.046	0.024	0.039	0.037	0.040
2/26/2010 13:00	24.498	0.479	3.92	15.2	11.7	10.1		0.048	0.024	0.039	0.037	0.039
2/26/2010 13:05	24.552	0.450	4.00	15.3	11.7	10.1		0.045	0.024	0.039	0.037	0.039
2/26/2010 13:10	24.842	0.464	4.08	15.6	12.0	10.4		0.046	0.024	0.039	0.037	0.039
2/26/2010 13:15	24.593	0.464	4.17	15.4	11.8	10.2		0.046	0.024	0.039	0.037	0.039
2/26/2010 13:20	24.793	0.465	4.25	15.6	12.0	10.3		0.046	0.024	0.039	0.037	0.039
2/26/2010 13:25	25.239	0.453	4.33	16.0	12.4	10.8		0.045	0.024	0.039	0.037	0.039
2/26/2010 13:30	24.750	0.465	4.42	15.5	11.9	10.3		0.046	0.024	0.039	0.037	0.039
2/26/2010 13:35	24.751	0.458	4.50	15.6	11.8	10.2		0.046	0.024	0.039	0.037	0.039
2/26/2010 13:40	24.729	0.472	4.58	15.6	11.9	10.2		0.047	0.024	0.039	0.037	0.039
2/26/2010 13:45	24.891	0.447	4.67	15.8	12.1	10.4		0.045	0.024	0.039	0.037	0.039
2/26/2010 13:50	24.781	0.457	4.75	15.7	12.1	10.3		0.046	0.024	0.039	0.037	0.039
2/26/2010 13:55	24.892	0.472	4.83	15.8	12.2	10.5		0.047	0.024	0.039	0.037	0.039
2/26/2010 14:00	24.905	0.457	4.92	15.9	12.1	10.5		0.046	0.024	0.039	0.036	0.039
2/26/2010 14:05	24.725	0.465	5.00	15.6	11.9	10.3		0.046	0.024	0.039	0.037	0.039
2/26/2010 14:10	24.740	0.465	5.08	15.7	12.0	10.2		0.046	0.024	0.039	0.037	0.039
2/26/2010 14:15	24.750	0.480	5.17	15.8	12.0	10.3		0.048	0.024	0.039	0.035	0.039
2/26/2010 14:20	25.027	0.440	5.25	16.0	12.3	10.5		0.044	0.024	0.039	0.037	0.039
2/26/2010 14:25	24.826	0.463	5.33	15.8	12.1	10.3		0.046	0.024	0.039	0.037	0.039
2/26/2010 14:30	25.130	0.484	5.42	16.1	12.4	10.6		0.048	0.024	0.039	0.037	0.039
2/26/2010 14:35	24.852	0.463	5.50	15.9	12.2	10.4		0.046	0.024	0.039	0.037	0.039
2/26/2010 14:40	24.738	0.464	5.58	15.7	12.0	10.2		0.046	0.024	0.039	0.037	0.039
2/26/2010 14:45	25.200	0.464	5.67	16.2	12.5	10.6		0.046	0.024	0.039	0.037	0.039
2/26/2010 14:50	24.909	0.465	5.75	16.0	12.2	10.4		0.047	0.024	0.039	0.037	0.039
2/26/2010 14:55	25.030	0.489	5.83	16.1	12.4	10.5		0.049	0.024	0.039	0.037	0.039
2/26/2010 15:00	25.152	0.442	5.92	16.2	12.4	10.6		0.044	0.024	0.039	0.037	0.039
2/26/2010 15:05	24.783	0.461	6.00	15.9	12.2	10.3		0.046	0.024	0.039	0.034	0.039
2/26/2010 15:10	24.918	0.442	6.08	16.1	12.4	10.4		0.044	0.024	0.039	0.036	0.039
2/26/2010 15:15	24.850	0.464	6.17	16.1	12.3	10.4		0.046	0.024	0.039	0.037	0.039
2/26/2010 15:20	24.736	0.528	6.25	15.9	12.2	10.2		0.053	0.024	0.039	0.035	0.039
2/26/2010 15:25	25.188	0.459	6.33	16.3	12.6	10.7		0.046	0.024	0.039	0.037	0.039

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/26/2010 15:30	25.169	0.470	6.42	16.4	12.6	10.6		0.047	0.024	0.039	0.037	0.039
2/26/2010 15:35	25.164	0.453	6.50	16.4	12.6	10.7		0.045	0.024	0.039	0.037	0.039
2/26/2010 15:40	25.262	0.446	6.58	16.5	12.7	10.7		0.045	0.024	0.039	0.037	0.039
2/26/2010 15:45	25.189	0.476	6.67	16.4	12.7	10.6		0.048	0.024	0.039	0.035	0.039
2/26/2010 15:50	25.332	0.440	6.75	16.6	12.8	10.8		0.044	0.024	0.039	0.035	0.039
2/26/2010 15:55	25.315	0.471	6.83	16.6	12.9	10.9		0.047	0.024	0.039	0.037	0.039
2/26/2010 16:00	24.948	0.448	6.92	16.2	12.4	10.4		0.045	0.024	0.039	0.037	0.039
2/26/2010 16:05	25.341	0.454	7.00	16.6	12.8	10.8		0.045	0.024	0.039	0.037	0.039
2/26/2010 16:10	25.382	0.453	7.08	16.7	12.9	10.8		0.045	0.024	0.039	0.035	0.039
2/26/2010 16:15	24.970	0.459	7.17	16.3	12.5	10.5		0.046	0.024	0.039	0.035	0.039
2/26/2010 16:20	24.863	0.439	7.25	16.2	12.4	10.3		0.044	0.024	0.039	0.034	0.039
2/26/2010 16:25	25.113	0.440	7.33	16.4	12.7	10.6		0.044	0.024	0.039	0.035	0.039
2/26/2010 16:30	25.045	0.451	7.42	16.5	12.7	10.6		0.045	0.024	0.039	0.035	0.039
2/26/2010 16:35	25.319	0.465	7.50	16.7	12.9	10.8		0.046	0.024	0.039	0.036	0.040
2/26/2010 16:40	25.041	0.450	7.58	16.4	12.7	10.5		0.045	0.024	0.039	0.037	0.039
2/26/2010 16:45	25.204	0.466	7.67	16.6	12.8	10.6		0.047	0.024	0.039	0.037	0.039
2/26/2010 16:50	25.194	0.465	7.75	16.6	12.8	10.7		0.046	0.024	0.039	0.035	0.039
2/26/2010 16:55	25.439	0.455	7.83	16.9	13.1	10.9		0.046	0.024	0.039	0.036	0.039
2/26/2010 17:00	25.246	0.439	7.92	16.6	12.8	10.6		0.044	0.024	0.039	0.035	0.040
2/26/2010 17:05	25.278	0.456	8.00	16.7	13.0	10.8		0.046	0.024	0.039	0.035	0.039
2/26/2010 17:10	25.364	0.447	8.08	16.8	13.0	10.8		0.045	0.024	0.039	0.035	0.040
2/26/2010 17:15	25.559	0.458	8.17	17.0	13.2	11.0		0.046	0.024	0.039	0.036	0.039
2/26/2010 17:20	25.567	0.440	8.25	17.0	13.2	11.0		0.044	0.024	0.039	0.037	0.039
2/26/2010 17:25	25.331	0.468	8.33	16.7	13.0	10.7		0.047	0.024	0.039	0.037	0.039
2/26/2010 17:30	25.071	0.444	8.42	16.6	12.8	10.5		0.044	0.024	0.039	0.037	0.042
2/26/2010 17:35	25.491	0.463	8.50	17.0	13.2	10.9		0.046	0.024	0.039	0.034	0.039
2/26/2010 17:40	25.436	0.439	8.58	16.9	13.2	10.9		0.044	0.025	0.039	0.037	0.039
2/26/2010 17:45	25.168	0.443	8.67	16.7	12.9	10.6		0.044	0.024	0.039	0.037	0.039
2/26/2010 17:50	25.531	0.440	8.75	17.0	13.2	11.0		0.044	0.024	0.039	0.037	0.039
2/26/2010 17:55	25.594	0.438	8.83	17.0	13.2	11.0		0.044	0.024	0.039	0.037	0.041
2/26/2010 18:00	25.563	0.439	8.92	17.1	13.4	11.0		0.044	0.024	0.039	0.037	0.039
2/26/2010 18:05	25.654	0.439	9.00	17.2	13.4	11.2		0.044	0.024	0.039	0.037	0.039
2/26/2010 18:10	25.432	0.440	9.08	17.0	13.2	10.9		0.044	0.024	0.039	0.037	0.039
2/26/2010 18:15	25.570	0.439	9.17	17.2	13.4	11.0		0.044	0.024	0.039	0.034	0.039
2/26/2010 18:20	25.890	0.440	9.25	17.5	13.7	11.4		0.044	0.024	0.039	0.037	0.039
2/26/2010 18:25	25.741	0.443	9.33	17.4	13.6	11.1		0.044	0.024	0.039	0.037	0.039
2/26/2010 18:30	25.680	0.440	9.42	17.3	13.5	11.1		0.044	0.024	0.039	0.037	0.039
2/26/2010 18:35	25.258	0.468	9.50	16.9	13.1	10.7		0.047	0.024	0.042	0.037	0.039
2/26/2010 18:40	25.454	0.460	9.58	17.1	13.3	10.9		0.046	0.024	0.042	0.036	0.041

Hopedale MA Pilot Study Report
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Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/26/2010 18:45	25.691	0.446	9.67	17.3	13.5	11.1		0.045	0.024	0.042	0.037	0.040
2/26/2010 18:50	25.512	0.458	9.75	17.2	13.4	11.0		0.046	0.025	0.042	0.035	0.040
2/26/2010 18:55	25.485	0.440	9.83	17.2	13.4	11.0		0.044	0.024	0.044	0.037	0.039
2/26/2010 19:00	25.727	0.438	9.92	17.4	13.6	11.2		0.044	0.024	0.044	0.037	0.040
2/26/2010 19:05	25.661	0.438	10.00	17.4	13.7	11.2		0.044	0.024	0.046	0.037	0.042
2/26/2010 19:10	25.706	0.456	10.08	17.5	13.7	11.2		0.046	0.024	0.047	0.037	0.039
2/26/2010 19:15	25.682	0.449	10.17	17.4	13.6	11.1		0.045	0.024	0.050	0.036	0.039
2/26/2010 19:20	25.576	0.440	10.25	17.4	13.6	11.2		0.044	0.024	0.054	0.037	0.041
2/26/2010 19:25	25.635	0.470	10.33	17.4	13.6	11.1		0.047	0.024	0.058	0.037	0.039
2/26/2010 19:30	25.872	0.450	10.42	17.6	13.9	11.4		0.045	0.024	0.060	0.035	0.040
2/26/2010 19:35	26.033	0.440	10.50	17.9	14.1	11.6		0.044	0.024	0.064	0.034	0.040
2/26/2010 19:40	25.662	0.440	10.58	17.5	13.7	11.2		0.044	0.024	0.068	0.037	0.040
2/26/2010 19:45	25.762	0.452	10.67	17.6	13.8	11.3		0.045	0.024	0.073	0.037	0.039
2/26/2010 19:50	25.628	0.440	10.75	17.4	13.7	11.2		0.044	0.024	0.076	0.037	0.039
2/26/2010 19:55	25.638	0.440	10.83	17.5	13.7	11.2		0.044	0.024	0.081	0.037	0.039
2/26/2010 20:00	25.639	0.439	10.92	17.5	13.7	11.2		0.044	0.024	0.083	0.037	0.039
2/26/2010 20:05	25.912	0.439	11.00	17.8	14.0	11.4		0.044	0.024	0.088	0.037	0.040
2/26/2010 20:10	25.822	0.450	11.08	17.7	14.0	11.4		0.045	0.024	0.091	0.037	0.039
2/26/2010 20:15	25.695	0.440	11.17	17.6	13.8	11.2		0.044	0.024	0.095	0.037	0.039
2/26/2010 20:20	26.010	0.440	11.25	17.9	14.1	11.5		0.044	0.024	0.100	0.035	0.040
2/26/2010 20:25	26.036	0.440	11.33	18.0	14.2	11.6		0.044	0.024	0.105	0.036	0.039
2/26/2010 20:30	25.759	0.464	11.42	17.7	14.0	11.4		0.046	0.024	0.110	0.037	0.039
2/26/2010 20:35	25.216	0.456	11.50	17.2	13.5	10.8		0.046	0.024	0.117	0.035	0.039
2/26/2010 20:40	25.792	0.440	11.58	17.8	14.1	11.4		0.044	0.024	0.120	0.037	0.039
2/26/2010 20:45	25.610	0.439	11.67	17.6	13.8	11.1		0.044	0.024	0.125	0.037	0.039
2/26/2010 20:50	25.535	0.457	11.75	17.6	13.8	11.2		0.046	0.024	0.125	0.035	0.039
2/26/2010 20:55	26.144	0.439	11.83	18.2	14.5	11.7		0.044	0.024	0.127	0.037	0.039
2/26/2010 21:00	25.414	0.440	11.92	17.5	13.7	11.1		0.044	0.024	0.134	0.037	0.039
2/26/2010 21:05	25.988	0.464	12.00	18.0	14.3	11.6		0.046	0.024	0.139	0.036	0.039
2/26/2010 21:10	25.935	0.439	12.08	18.0	14.2	11.6		0.044	0.024	0.142	0.037	0.039
2/26/2010 21:15	25.971	0.439	12.17	18.1	14.3	11.6		0.044	0.024	0.144	0.034	0.039
2/26/2010 21:20	25.956	0.439	12.25	18.0	14.3	11.6		0.044	0.024	0.147	0.036	0.039
2/26/2010 21:25	26.055	0.444	12.33	18.2	14.5	11.7		0.044	0.024	0.152	0.037	0.039
2/26/2010 21:30	25.763	0.461	12.42	17.9	14.1	11.4		0.046	0.024	0.157	0.036	0.039
2/26/2010 21:35	25.991	0.462	12.50	18.1	14.4	11.7		0.046	0.024	0.156	0.037	0.039
2/26/2010 21:40	25.758	0.439	12.58	17.9	14.2	11.4		0.044	0.024	0.164	0.034	0.039
2/26/2010 21:45	25.731	0.462	12.67	17.9	14.1	11.4		0.046	0.024	0.166	0.037	0.039
2/26/2010 21:50	26.041	0.463	12.75	18.2	14.4	11.7		0.046	0.024	0.169	0.037	0.039
2/26/2010 21:55	25.875	0.440	12.83	18.1	14.3	11.6		0.044	0.024	0.171	0.034	0.039

Hopedale MA Pilot Study Report
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Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/26/2010 22:00	25.604	0.463	12.92	17.8	14.0	11.3		0.046	0.024	0.176	0.034	0.039
2/26/2010 22:05	25.857	0.465	13.00	18.1	14.3	11.5		0.046	0.024	0.181	0.037	0.039
2/26/2010 22:10	26.087	0.439	13.08	18.2	14.5	11.7		0.044	0.024	0.181	0.034	0.039
2/26/2010 22:15	25.936	0.463	13.17	18.1	14.4	11.7		0.046	0.024	0.181	0.034	0.039
2/26/2010 22:20	26.048	0.440	13.25	18.3	14.5	11.7		0.044	0.024	0.191	0.034	0.039
2/26/2010 22:25	26.188	0.461	13.33	18.4	14.7	11.9		0.046	0.024	0.188	0.034	0.039
2/26/2010 22:30	25.833	0.458	13.42	18.1	14.3	11.6		0.046	0.024	0.188	0.037	0.039
2/26/2010 22:35	25.833	0.522	13.50	18.1	14.4	11.6		0.052	0.024	0.195	0.035	0.039
2/26/2010 22:40	26.284	0.440	13.58	18.5	14.8	11.9		0.044	0.024	0.198	0.034	0.039
2/26/2010 22:45	26.006	0.439	13.67	18.3	14.5	11.7		0.044	0.024	0.205	0.035	0.039
2/26/2010 22:50	25.745	0.439	13.75	18.0	14.3	11.4		0.044	0.024	0.205	0.037	0.039
2/26/2010 22:55	25.865	0.465	13.83	18.1	14.3	11.5		0.046	0.024	0.208	0.036	0.039
2/26/2010 23:00	25.869	0.475	13.92	18.2	14.4	11.6		0.047	0.024	0.210	0.034	0.039
2/26/2010 23:05	25.866	0.458	14.00	18.2	14.4	11.5		0.046	0.024	0.215	0.037	0.039
2/26/2010 23:10	25.934	0.440	14.08	18.2	14.4	11.6		0.044	0.024	0.210	0.037	0.039
2/26/2010 23:15	26.299	0.446	14.17	18.6	14.9	12.0		0.045	0.024	0.215	0.037	0.039
2/26/2010 23:20	26.117	0.447	14.25	18.5	14.7	11.8		0.045	0.024	0.217	0.035	0.039
2/26/2010 23:25	26.133	0.464	14.33	18.5	14.7	11.8		0.046	0.024	0.222	0.035	0.039
2/26/2010 23:30	26.330	0.440	14.42	18.7	14.9	12.0		0.044	0.024	0.216	0.036	0.039
2/26/2010 23:35	26.473	0.470	14.50	18.8	15.1	12.2		0.047	0.024	0.217	0.034	0.039
2/26/2010 23:40	25.894	0.440	14.58	18.3	14.5	11.6		0.044	0.024	0.220	0.036	0.039
2/26/2010 23:45	26.332	0.465	14.67	18.6	14.9	12.0		0.046	0.024	0.225	0.034	0.037
2/26/2010 23:50	26.215	0.440	14.75	18.6	14.8	12.0		0.044	0.024	0.234	0.037	0.039
2/26/2010 23:55	26.349	0.451	14.83	18.7	15.0	12.1		0.045	0.024	0.232	0.035	0.039
2/27/2010 0:00	26.118	0.439	14.92	18.5	14.8	11.9		0.044	0.024	0.230	0.035	0.039
2/27/2010 0:05	26.320	0.452	15.00	18.7	14.9	12.0		0.045	0.024	0.237	0.037	0.038
2/27/2010 0:10	26.273	0.463	15.08	18.7	14.9	11.9		0.046	0.024	0.242	0.037	0.038
2/27/2010 0:15	26.427	0.440	15.17	18.9	15.1	12.2		0.044	0.024	0.242	0.034	0.038
2/27/2010 0:20	26.192	0.449	15.25	18.6	14.8	11.9		0.045	0.024	0.237	0.036	0.037
2/27/2010 0:25	26.228	0.458	15.33	18.7	15.0	12.0		0.046	0.026	0.234	0.036	0.037
2/27/2010 0:30	26.473	0.440	15.42	18.9	15.2	12.2		0.044	0.024	0.246	0.034	0.038
2/27/2010 0:35	26.562	0.440	15.50	19.0	15.3	12.3		0.044	0.026	0.241	0.037	0.037
2/27/2010 0:40	26.322	0.440	15.58	18.8	15.1	12.1		0.044	0.024	0.244	0.036	0.037
2/27/2010 0:45	26.280	0.440	15.67	18.8	15.1	12.1		0.044	0.024	0.249	0.037	0.037
2/27/2010 0:50	26.335	0.439	15.75	18.8	15.1	12.1		0.044	0.024	0.252	0.037	0.037
2/27/2010 0:55	26.767	0.439	15.83	19.3	15.5	12.5		0.044	0.024	0.252	0.035	0.037
2/27/2010 1:00	26.618	0.439	15.92	19.1	15.4	12.4		0.044	0.024	0.252	0.035	0.037
2/27/2010 1:05	26.329	0.440	16.00	18.9	15.1	12.1		0.044	0.027	0.257	0.034	0.037
2/27/2010 1:10	26.061	0.440	16.08	18.6	14.8	11.8		0.044	0.027	0.256	0.037	0.037

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/27/2010 1:15	26.486	0.449	16.17	19.0	15.3	12.2		0.045	0.024	0.254	0.037	0.037
2/27/2010 1:20	26.409	0.443	16.25	19.0	15.2	12.2		0.044	0.024	0.252	0.035	0.037
2/27/2010 1:25	26.470	0.439	16.33	19.0	15.2	12.2		0.044	0.024	0.247	0.036	0.037
2/27/2010 1:30	26.283	0.443	16.42	18.9	15.1	12.1		0.044	0.024	0.257	0.037	0.037
2/27/2010 1:35	26.461	0.439	16.50	19.0	15.3	12.2		0.044	0.027	0.264	0.037	0.037
2/27/2010 1:40	26.525	0.460	16.58	19.1	15.3	12.4		0.046	0.025	0.261	0.037	0.037
2/27/2010 1:45	26.612	0.462	16.67	19.2	15.4	12.4		0.046	0.027	0.261	0.037	0.037
2/27/2010 1:50	26.686	0.463	16.75	19.2	15.5	12.4		0.046	0.024	0.269	0.037	0.037
2/27/2010 1:55	26.545	0.440	16.83	19.1	15.4	12.4		0.044	0.027	0.261	0.034	0.037
2/27/2010 2:00	26.420	0.463	16.92	19.0	15.2	12.2		0.046	0.027	0.269	0.034	0.037
2/27/2010 2:05	26.282	0.440	17.00	18.9	15.2	12.1		0.044	0.027	0.264	0.034	0.037
2/27/2010 2:10	26.550	0.584	17.08	19.1	15.4	12.4		0.058	0.027	0.271	0.037	0.037
2/27/2010 2:15	26.374	0.440	17.17	19.1	15.3	12.3		0.044	0.029	0.283	0.037	0.037
2/27/2010 2:20	26.417	0.464	17.25	19.0	15.3	12.3		0.046	0.029	0.276	0.037	0.037
2/27/2010 2:25	26.511	0.443	17.33	19.3	15.5	12.4		0.044	0.029	0.281	0.037	0.037
2/27/2010 2:30	26.529	0.439	17.42	19.2	15.4	12.4		0.044	0.030	0.281	0.034	0.034
2/27/2010 2:35	26.367	0.440	17.50	19.0	15.2	12.1		0.044	0.032	0.276	0.034	0.037
2/27/2010 2:40	26.125	0.524	17.58	18.8	15.0	11.9		0.052	0.032	0.276	0.035	0.037
2/27/2010 2:45	26.631	0.464	17.67	19.3	15.5	12.4		0.046	0.034	0.276	0.037	0.037
2/27/2010 2:50	26.799	0.443	17.75	19.4	15.6	12.6		0.044	0.034	0.284	0.037	0.037
2/27/2010 2:55	26.402	0.464	17.83	19.1	15.4	12.3		0.046	0.036	0.291	0.037	0.037
2/27/2010 3:00	26.410	0.458	17.92	19.2	15.4	12.3		0.046	0.037	0.286	0.037	0.037
2/27/2010 3:05	26.653	0.440	18.00	19.4	15.6	12.5		0.044	0.039	0.291	0.037	0.037
2/27/2010 3:10	26.575	0.440	18.08	19.3	15.5	12.5		0.044	0.042	0.291	0.037	0.037
2/27/2010 3:15	26.582	0.456	18.17	19.4	15.6	12.5		0.046	0.042	0.286	0.037	0.037
2/27/2010 3:20	26.619	0.447	18.25	19.4	15.6	12.5		0.045	0.044	0.291	0.037	0.037
2/27/2010 3:25	26.527	0.439	18.33	19.3	15.5	12.4		0.044	0.046	0.293	0.037	0.037
2/27/2010 3:30	26.626	0.448	18.42	19.4	15.6	12.5		0.045	0.049	0.283	0.036	0.037
2/27/2010 3:35	26.613	0.439	18.50	19.3	15.5	12.5		0.044	0.049	0.290	0.037	0.034
2/27/2010 3:40	26.552	0.449	18.58	19.3	15.5	12.4		0.045	0.051	0.290	0.037	0.037
2/27/2010 3:45	26.801	0.439	18.67	19.6	15.8	12.8		0.044	0.054	0.288	0.037	0.034
2/27/2010 3:50	26.738	0.454	18.75	19.5	15.7	12.6		0.045	0.056	0.294	0.037	0.037
2/27/2010 3:55	26.259	0.450	18.83	19.1	15.3	12.2		0.045	0.059	0.290	0.037	0.037
2/27/2010 4:00	26.602	0.450	18.92	19.4	15.6	12.5		0.045	0.061	0.295	0.037	0.036
2/27/2010 4:05	26.410	0.452	19.00	19.2	15.4	12.4		0.045	0.062	0.298	0.037	0.035
2/27/2010 4:10	26.401	0.440	19.08	19.2	15.4	12.3		0.044	0.066	0.300	0.039	0.037
2/27/2010 4:15	26.501	0.439	19.17	19.3	15.6	12.4		0.044	0.068	0.295	0.038	0.035
2/27/2010 4:20	26.234	0.439	19.25	19.1	15.3	12.3		0.044	0.068	0.298	0.039	0.035
2/27/2010 4:25	26.494	0.440	19.33	19.3	15.5	12.4		0.044	0.071	0.298	0.039	0.034

Hopedale MA Pilot Study Report
Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/27/2010 4:30	26.679	0.440	19.42	19.5	15.7	12.6		0.044	0.073	0.300	0.039	0.036
2/27/2010 4:35	26.851	0.458	19.50	19.7	15.8	12.8		0.046	0.075	0.293	0.039	0.034
2/27/2010 4:40	26.839	0.440	19.58	19.7	15.9	12.8		0.044	0.075	0.293	0.042	0.036
2/27/2010 4:45	26.829	0.455	19.67	19.7	15.9	12.8		0.045	0.078	0.298	0.042	0.034
2/27/2010 4:50	26.926	0.439	19.75	19.8	16.0	12.9		0.044	0.079	0.295	0.044	0.036
2/27/2010 4:55	26.921	0.456	19.83	19.9	16.1	12.9		0.046	0.081	0.300	0.044	0.034
2/27/2010 5:00	26.518	0.447	19.92	19.4	15.7	12.6		0.045	0.085	0.308	0.047	0.034
2/27/2010 5:05	26.586	0.446	20.00	19.5	15.7	12.6		0.045	0.086	0.305	0.049	0.034
2/27/2010 5:10	26.821	0.439	20.08	19.8	15.9	12.8		0.044	0.088	0.308	0.051	0.034
2/27/2010 5:15	26.781	0.439	20.17	19.7	16.0	12.8		0.044	0.088	0.298	0.051	0.034
2/27/2010 5:20	26.741	0.445	20.25	19.7	15.8	12.7		0.044	0.090	0.310	0.056	0.034
2/27/2010 5:25	26.641	0.459	20.33	19.6	15.8	12.7		0.046	0.095	0.308	0.056	0.034
2/27/2010 5:30	26.529	0.442	20.42	19.5	15.8	12.7		0.044	0.095	0.308	0.059	0.034
2/27/2010 5:35	27.270	0.460	20.50	20.2	16.5	13.4		0.046	0.095	0.303	0.061	0.034
2/27/2010 5:40	26.636	0.442	20.58	19.6	15.8	12.6		0.044	0.098	0.303	0.064	0.034
2/27/2010 5:45	26.472	0.461	20.67	19.5	15.8	12.6		0.046	0.098	0.305	0.066	0.034
2/27/2010 5:50	26.633	0.530	20.75	19.7	15.9	12.7		0.053	0.100	0.295	0.070	0.034
2/27/2010 5:55	26.490	0.588	20.83	19.5	15.8	12.6		0.059	0.100	0.305	0.071	0.034
2/27/2010 6:00	26.715	0.439	20.92	19.7	15.9	12.7		0.044	0.105	0.320	0.073	0.034
2/27/2010 6:05	26.408	0.439	21.00	19.5	15.7	12.5		0.044	0.108	0.330	0.081	0.034
2/27/2010 6:10	27.193	0.441	21.08	20.2	16.5	13.3		0.044	0.110	0.320	0.083	0.034
2/27/2010 6:15	26.880	0.440	21.17	19.9	16.1	13.0		0.044	0.113	0.320	0.088	0.034
2/27/2010 6:20	26.527	0.440	21.25	19.5	15.8	12.7		0.044	0.112	0.308	0.088	0.034
2/27/2010 6:25	26.323	0.440	21.33	19.4	15.6	12.5		0.044	0.112	0.310	0.090	0.034
2/27/2010 6:30	26.727	0.461	21.42	19.8	16.0	12.9		0.046	0.115	0.315	0.095	0.034
2/27/2010 6:35	26.838	0.486	21.50	20.0	16.2	13.0		0.049	0.117	0.320	0.100	0.034
2/27/2010 6:40	26.842	0.462	21.58	19.9	16.1	12.9		0.046	0.120	0.322	0.105	0.034
2/27/2010 6:45	26.714	0.766	21.67	19.8	16.0	12.9		0.077	0.124	0.318	0.112	0.034
2/27/2010 6:50	26.707	0.592	21.75	19.8	16.0	12.8		0.059	0.124	0.330	0.110	0.034
2/27/2010 6:55	26.626	0.444	21.83	19.8	15.9	12.8		0.044	0.127	0.334	0.120	0.034
2/27/2010 7:00	27.140	0.439	21.92	20.3	16.5	13.3		0.044	0.127	0.330	0.122	0.034
2/27/2010 7:05	26.937	0.465	22.00	20.1	16.2	13.1		0.046	0.127	0.330	0.125	0.034
2/27/2010 7:10	26.948	0.445	22.08	20.1	16.3	13.1		0.045	0.129	0.332	0.129	0.034
2/27/2010 7:15	26.953	0.447	22.17	20.1	16.3	13.1		0.045	0.132	0.332	0.132	0.034
2/27/2010 7:20	26.609	0.440	22.25	19.8	16.0	12.9		0.044	0.132	0.327	0.134	0.034
2/27/2010 7:25	26.878	0.448	22.33	20.0	16.2	13.0		0.045	0.133	0.320	0.137	0.034
2/27/2010 7:30	27.080	0.440	22.42	20.3	16.5	13.3		0.044	0.132	0.325	0.139	0.034
2/27/2010 7:35	26.856	0.439	22.50	20.1	16.3	13.1		0.044	0.132	0.325	0.142	0.034
2/27/2010 7:40	27.009	0.447	22.58	20.2	16.5	13.2		0.045	0.134	0.327	0.143	0.034

Hopedale MA Pilot Study Report
 Turbidity and Headloss Data

Date and Time	Pressure Inlet	Turbidity Inlet	Filter runtime (hours)	Headloss A (psi)	Headloss B (psi)	Headloss C (psi)	Headloss D (psi)	Turbidity Inlet (NTU)	Turbidity A (NTU)	Turbidity B (NTU)	Turbidity C (NTU)	Turbidity D (NTU)
2/27/2010 7:45	26.888	0.439	22.67	20.1	16.3	13.1		0.044	0.134	0.322	0.149	0.034
2/27/2010 7:50	27.168	0.439	22.75	20.3	16.5	13.3		0.044	0.137	0.335	0.154	0.034
2/27/2010 7:55	26.906	0.440	22.83	20.1	16.3	13.1		0.044	0.139	0.323	0.159	0.034
2/27/2010 8:00	26.783	0.454	22.92	20.0	16.2	13.0		0.045	0.138	0.325	0.156	0.034
2/27/2010 8:05	27.025	0.440	23.00	20.3	16.5	13.3		0.044	0.139	0.330	0.161	0.034
2/27/2010 8:10	27.206	0.438	23.08	20.5	16.6	13.4		0.044	0.142	0.333	0.165	0.034
2/27/2010 8:15	27.092	0.439	23.17	20.4	16.6	13.4		0.044	0.147	0.335	0.173	0.034
2/27/2010 8:20	27.199	0.440	23.25	20.4	16.6	13.4		0.044	0.147	0.330	0.169	0.034
2/27/2010 8:25	26.945	0.439	23.33	20.2	16.4	13.2		0.044	0.144	0.339	0.176	0.034
2/27/2010 8:30	26.715	0.440	23.42	20.0	16.2	13.0		0.044	0.145	0.327	0.176	0.034
2/27/2010 8:35	26.774	0.466	23.50	20.1	16.3	13.1		0.047	0.147	0.337	0.181	0.034
2/27/2010 8:40	26.935	0.454	23.58	20.2	16.4	13.2		0.045	0.147	0.325	0.178	0.034
2/27/2010 8:45	26.995	0.455	23.67	20.3	16.5	13.2		0.045	0.147	0.328	0.183	0.034
2/27/2010 8:50	27.007	0.463	23.75	20.3	16.5	13.3		0.046	0.149	0.333	0.190	0.034
2/27/2010 8:55	26.804	0.467	23.83	20.2	16.4	13.1		0.047	0.157	0.341	0.200	0.034
2/27/2010 9:00	26.829	0.440	23.92	20.4	16.6	13.4		0.044	0.157	0.308	0.193	0.408

Appendix C - Particle Counting Data

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/24/10 17:10	5.42	3780.60	290.90			577.69	387.64	150.56	148.86			0.82	-0.12	1.40	0.29
02/24/10 17:11	5.44	4314.80	291.24			600.66	372.68	96.99	100.01			0.86	-0.11	1.65	0.46
02/24/10 17:12	5.45	3798.70	274.71			597.82	296.54	78.00	76.60			0.80	-0.03	1.69	0.55
02/24/10 17:13	5.47	3120.20	209.48			264.51	26.45	52.59	50.33			1.07	0.90	1.77	0.62
02/24/10 17:14	5.49	4055.80	291.57			326.70	17.44	65.80	61.66			1.09	1.22	1.79	0.67
02/24/10 17:15	5.50	4278.90	300.60			321.25	13.08	62.44	56.59			1.12	1.36	1.84	0.73
02/24/10 17:16	5.52	4384.50	307.77			290.04	8.46	101.85	71.36			1.18	1.56	1.63	0.63
02/24/10 17:17	5.54	4020.40	258.48			133.28	2.51	294.45	285.69			1.48	2.01	1.14	-0.04
02/24/10 17:18	5.55	4365.30	336.09			0.40	0.04	267.45	262.38			4.04	3.92	1.21	0.11
02/24/10 17:19	5.57	4104.90	286.56			147.99	0.92	83.04	83.80			1.44	2.49	1.69	0.53
02/24/10 17:20	5.59	2818.40	216.29			169.87	1.68	67.76	67.40			1.22	2.11	1.62	0.51
02/24/10 17:21	5.60	3189.70	237.42			90.63	0.33	47.78	44.37			1.55	2.86	1.82	0.73
02/24/10 17:22	5.62	4272.20	305.98			0.09		43.90	35.63			4.68		1.99	0.93
02/24/10 17:23	5.64	3911.10	297.06			0.18		37.81	32.97			4.34		2.01	0.95
02/24/10 17:24	5.65	4257.30	372.92					31.91	28.21					2.13	1.12
02/24/10 17:25	5.67	3983.60	293.10			4.71		25.86	23.84			2.93		2.19	1.09
02/24/10 17:26	5.69	3982.70	323.46			0.13	0.13	23.48	20.92			4.49	3.40	2.23	1.19
02/24/10 17:27	5.70	3538.20	289.37			1567.90	1067.00	26.49	19.74			0.35	-0.57	2.13	1.17
02/24/10 17:28	5.72	3929.90	290.04			690.00	228.92	21.49	18.04			0.76	0.10	2.26	1.21
02/24/10 17:29	5.74	4165.30	362.56			668.10	238.40	22.90	17.31			0.79	0.18	2.26	1.32
02/24/10 17:30	5.75	4117.50	352.71			706.60	255.57	16.97	15.03			0.77	0.14	2.38	1.37
02/24/10 17:31	5.77	3941.80	293.66			1422.30	1182.40	16.30	14.37			0.44	-0.60	2.38	1.31
02/24/10 17:32	5.79	3987.00	309.16			858.30	657.50	14.15	13.32			0.67	-0.33	2.45	1.37
02/24/10 17:33	5.80	4220.60	331.21			516.43	414.35	14.35	13.59			0.91	-0.10	2.47	1.39
02/24/10 17:34	5.82	3757.80	331.35			418.58	327.40	21.38	5.27			0.95	0.01	2.24	1.80
02/24/10 17:35	5.84	3667.90	170.90			514.74	105.71	23.65	3.80			0.85	0.21	2.19	1.65
02/24/10 17:36	5.85	4454.70	176.94			354.63	75.46	16.74	3.83			1.10	0.37	2.43	1.66
02/24/10 17:37	5.87	4418.40	180.71			261.87	61.58	17.14	3.82			1.23	0.47	2.41	1.67
02/24/10 17:38	5.89	4348.40	203.53			171.18	38.99	19.90	3.74			1.40	0.72	2.34	1.74
02/24/10 17:39	5.90	4189.70	203.05			160.74	36.73	13.97	2.78			1.42	0.74	2.48	1.86
02/24/10 17:40	5.92	3679.10	196.40			154.08	35.37	14.23	2.93			1.38	0.74	2.41	1.83
02/24/10 17:41	5.94	4018.50	190.69			121.88	27.69	15.25	2.60			1.52	0.84	2.42	1.87
02/24/10 17:42	5.95	4082.40	188.21			89.89	18.24	11.83	2.93			1.66	1.01	2.54	1.81
02/24/10 17:43	5.97	4249.60	222.70			85.13	18.56	14.84	2.52			1.70	1.08	2.46	1.95
02/24/10 17:44	5.99	4220.60	217.73			69.50	14.88	15.11	2.44			1.78	1.17	2.45	1.95
02/24/10 17:45	6.00	4386.50	214.42			65.97	13.76	12.07	1.91			1.82	1.19	2.56	2.05
02/24/10 17:46	6.02	4271.80	201.77			57.15	14.46	12.16	1.95			1.87	1.14	2.55	2.01
02/24/10 17:47	6.04	4038.90	223.79			52.42	13.29	11.56	2.08			1.89	1.23	2.54	2.03
02/24/10 17:48	6.05	4038.90	223.79			49.03	11.02	13.65	2.02			1.92	1.31	2.47	2.04
02/24/10 17:49	6.07	3637.80	217.33			41.26	8.49	12.29	2.36			1.95	1.41	2.47	1.96
02/24/10 17:50	6.09	3207.30	248.55			42.99	9.42	9.48	2.23			1.87	1.42	2.53	2.05
02/24/10 17:51	6.10	4428.80	230.04			38.77	8.02	10.93	2.09			2.06	1.46	2.61	2.04
02/24/10 17:52	6.12	4428.80	230.04			38.77	8.02	10.61	1.61			2.06	1.46	2.62	2.15
02/24/10 17:53	6.14	4476.70	251.87			34.52	7.15	10.61	1.61			2.11	1.55	2.63	2.19
02/24/10 17:54	6.15	4470.70	250.77			29.15	6.93	8.74	1.40			2.19	1.56	2.71	2.25
02/24/10 17:55	6.17	4528.30	236.32			29.86	6.80	13.70	1.73			2.18	1.54	2.52	2.14
02/24/10 17:56	6.19	4464.80	213.31			34.70	7.34	8.49	1.49			2.11	1.46	2.72	2.16
02/24/10 17:57	6.20	4354.50	211.94			27.00	6.03	15.69	1.51			2.21	1.55	2.44	2.15
02/24/10 17:58	6.22	4354.50	211.94			27.00	6.03	15.69	1.51			2.21	1.55	2.44	2.15
02/24/10 17:59	6.24	4423.80	212.97			27.40	6.40	8.05	1.54			2.21	1.52	2.74	2.14

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/24/10 18:00	6.25					23.69	6.29	15.89	1.58						
02/24/10 18:01	6.27	4456.00	213.97			20.62	5.52	9.53	0.80			2.33	1.59	2.67	2.43
02/24/10 18:02	6.29	4437.10	219.22			20.62	5.52	9.53	0.80			2.33	1.60	2.67	2.44
02/24/10 18:03	6.30	4520.90	223.48			18.57	4.30	7.81	1.15			2.39	1.72	2.76	2.29
02/24/10 18:04	6.32	4482.70	239.24			22.11	5.68	12.81	0.83			2.31	1.62	2.54	2.46
02/24/10 18:05	6.34	4455.90	238.06			17.83	5.09	7.74	1.54			2.40	1.67	2.76	2.19
02/24/10 18:06	6.35	4427.60	243.87			16.34	4.24	11.84	1.38			2.43	1.76	2.57	2.25
02/24/10 18:07	6.37	3995.20	258.91			16.34	4.24	11.84	1.38			2.39	1.79	2.53	2.27
02/24/10 18:08	6.39	4348.00	246.25			17.80	3.74	7.31	1.20			2.39	1.82	2.77	2.31
02/24/10 18:09	6.40	4459.50	240.27			14.21	3.99	9.64	0.59			2.50	1.78	2.67	2.61
02/24/10 18:10	6.42	4459.50	240.27			14.21	3.99	9.64	0.59			2.50	1.78	2.67	2.61
02/24/10 18:11	6.44	4249.10	248.22			16.55	3.49	13.78	0.54			2.41	1.85	2.49	2.66
02/24/10 18:12	6.45	3209.80	228.88			18.74	3.53	4.68	0.70			2.23	1.81	2.84	2.51
02/24/10 18:13	6.47	4416.60	249.54			12.15	2.53	5.16	0.48			2.56	1.99	2.93	2.72
02/24/10 18:14	6.49	4468.90	239.63			12.15	2.53					2.57	1.98		
02/24/10 18:15	6.50							8.45	0.68						
02/24/10 18:16	6.52	4286.50	251.32			12.89	2.69	4.47	0.83			2.52	1.97	2.98	2.48
02/24/10 18:17	6.54	4385.00	266.27			10.43	1.85	4.73	0.70			2.62	2.16	2.97	2.58
02/24/10 18:18	6.55	3757.70	239.17			12.00	2.08	4.43	0.83			2.50	2.06	2.93	2.46
02/24/10 18:19	6.57	4245.80	239.29			8.61	1.36	4.00	0.74			2.69	2.25	3.03	2.51
02/24/10 18:20	6.59	4278.40	236.90			9.77	1.43	3.66	0.39			2.64	2.22	3.07	2.78
02/24/10 18:21	6.60	4146.00	238.73			8.38	1.91	3.40	0.66			2.69	2.10	3.09	2.56
02/24/10 18:22	6.62	4146.00	238.73			9.50	1.31	3.67	0.39			2.64	2.26	3.05	2.79
02/24/10 18:23	6.64	4241.40	273.55			9.50	1.31	3.67	0.39			2.65	2.32	3.06	2.85
02/24/10 18:24	6.65	4485.30	260.43			7.03	1.20	3.10	0.44			2.80	2.34	3.16	2.77
02/24/10 18:25	6.67	4485.30	260.43			7.03	1.20	3.10	0.44			2.80	2.34	3.16	2.77
02/24/10 18:26	6.69	4181.80	276.05			10.09	1.81	3.32	0.39			2.62	2.18	3.10	2.85
02/24/10 18:27	6.70	3393.10	245.33			9.92	1.22	2.57	0.53			2.53	2.30	3.12	2.67
02/24/10 18:28	6.72	4278.90	328.68			10.71	1.34	3.84	0.22			2.60	2.39	3.05	3.17
02/24/10 18:29	6.74	4213.30	246.61			8.63	1.32	2.79	0.44			2.69	2.27	3.18	2.75
02/24/10 18:30	6.75	4134.20	286.68			12.41	1.21	2.92	0.35			2.52	2.37	3.15	2.91
02/24/10 18:31	6.77	4000.20	272.03			7.48	1.41	4.14	0.39			2.73	2.29	2.99	2.84
02/24/10 18:32	6.79	3022.30	232.17			9.18	0.72	2.57	0.44			2.52	2.51	3.07	2.72
02/24/10 18:33	6.80	4499.40	250.82			7.53	1.11	3.28	0.22			2.78	2.35	3.14	3.06
02/24/10 18:34	6.82	4176.80	261.73			5.43	1.08	2.75	0.22			2.89	2.38	3.18	3.08
02/24/10 18:35	6.84	4434.90	249.92			5.82	1.17	2.92	0.48			2.88	2.33	3.18	2.72
02/24/10 18:36	6.85	4479.30	266.40			7.03	1.12	2.58	0.17			2.80	2.38	3.24	3.20
02/24/10 18:37	6.87	4210.90	260.67			6.78	1.21	2.35	0.48			2.79	2.33	3.25	2.73
02/24/10 18:38	6.89	4018.20	281.96			5.84	0.48	2.27	0.08			2.84	2.77	3.25	3.55
02/24/10 18:39	6.90	4212.00	264.14			5.84	0.48	2.27	0.08			2.86	2.74	3.27	3.52
02/24/10 18:40	6.92	3939.70	239.88			7.10	0.39	1.87	0.35			2.74	2.79	3.32	2.84
02/24/10 18:41	6.94	4474.90	248.28			6.84	0.86	1.87	0.35			2.82	2.46	3.38	2.85
02/24/10 18:42	6.95	4386.80	288.58			13.99	0.33	2.00	0.22			2.50	2.94	3.34	3.12
02/24/10 18:43	6.97	4245.20	254.26			13.99	0.33	1.74	0.26			2.48	2.89	3.39	2.99
02/24/10 18:44	6.99	4043.80	270.27			7.01	0.69	1.74	0.26			2.76	2.59	3.37	3.02
02/24/10 18:45	7.00	4089.40	267.02			6.17	0.73	2.18	0.40			2.82	2.56	3.27	2.82
02/24/10 18:46	7.02	4286.20	272.57			7.24	0.94	2.27	0.26			2.77	2.46	3.28	3.02
02/24/10 18:47	7.04	4483.40	252.99			5.87	0.91	2.14	0.13			2.88	2.44	3.32	3.29
02/24/10 18:48	7.05	4356.20	372.03			5.25	0.70	3.14	0.57			2.92	2.73	3.14	2.81
02/24/10 18:49	7.07	4490.60	266.39			5.92	0.69	3.01	0.44			2.88	2.59	3.17	2.78

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/24/10 18:50	7.09					4.65	0.61	2.49	0.44						
02/24/10 18:51	7.10	4551.20	193.66			4.65	0.61	2.49	0.44			2.99	2.50	3.26	2.64
02/24/10 18:52	7.12	4509.90	262.60			3.71	0.22	2.49	0.22			3.08	3.08	3.26	3.08
02/24/10 18:53	7.14	4544.10	200.83			4.18	0.26	2.45	0.13			3.04	2.89	3.27	3.19
02/24/10 18:54	7.15	4538.20	217.67			4.51	0.48	2.67	0.08			3.00	2.66	3.23	3.43
02/24/10 18:55	7.17	4547.70	208.72			4.82	0.39	1.69	0.57			2.97	2.73	3.43	2.56
02/24/10 18:56	7.19	4462.90	283.29			4.05	0.48	3.02	0.08			3.04	2.77	3.17	3.55
02/24/10 18:57	7.20	4448.40	273.94			4.72	0.83	2.44	0.26			2.97	2.52	3.26	3.02
02/24/10 18:58	7.22	4499.40	205.86			4.26	0.57	1.92	0.26			3.02	2.56	3.37	2.90
02/24/10 18:59	7.24	4402.20	315.49			3.44	0.57	1.92	0.26			3.11	2.74	3.36	3.08
02/24/10 19:00	7.25	4397.80	304.39			4.74	0.43	2.84	0.35			2.97	2.85	3.19	2.94
02/24/10 19:01	7.27	4481.00	208.53			2.67	0.43	1.99	0.08			3.22	2.69	3.35	3.42
02/24/10 19:02	7.29	4445.80	246.08			3.89	0.42	2.79	0.13			3.06	2.77	3.20	3.28
02/24/10 19:03	7.30	4495.80	205.67			9.28	0.34	2.63	0.25			2.69	2.78	3.23	2.92
02/24/10 19:04	7.32	4487.80	208.93			2.66	0.39	16.09	0.24			3.23	2.73	2.45	2.94
02/24/10 19:05	7.34	4497.40	207.45			2.48	0.48	2.22	0.35			3.26	2.64	3.31	2.77
02/24/10 19:06	7.35	4483.00	186.07			3.31	0.53	1.74	0.26			3.13	2.55	3.41	2.85
02/24/10 19:07	7.37	4396.90	201.99			2.84	0.22	1.65	0.13			3.19	2.96	3.43	3.19
02/24/10 19:08	7.39	4481.60	199.76			3.88	0.30	2.16	0.25			3.06	2.82	3.32	2.90
02/24/10 19:09	7.40	4521.40	206.53			3.05	0.48	2.67	0.17			3.17	2.63	3.23	3.08
02/24/10 19:10	7.42	4445.30	210.91			3.83	0.70	4.22	0.39			3.06	2.48	3.02	2.73
02/24/10 19:11	7.44	4450.60	225.45			3.35	0.70	2.09	0.31			3.12	2.51	3.33	2.86
02/24/10 19:12	7.45	4439.70	234.45			56.34	10.49	6.05	1.42			1.90	1.35	2.87	2.22
02/24/10 19:13	7.47	4521.40	237.40			151.58	25.97	6.89	1.50			1.47	0.96	2.82	2.20
02/24/10 19:14	7.49	4584.80	190.59			192.44	28.78	5.31	0.91			1.38	0.82	2.94	2.32
02/24/10 19:15	7.50	4419.10	186.07			132.91	20.67	4.16	1.09			1.52	0.95	3.03	2.23
02/24/10 19:16	7.52	3777.90	188.46			96.19	14.03	6.15	0.99			1.59	1.13	2.79	2.28
02/24/10 19:17	7.54	3167.00	176.49			85.76	11.35	22.22	0.83			1.57	1.19	2.15	2.33
02/24/10 19:18	7.55	2818.70	143.68			60.54	6.64	22.28	1.57			1.67	1.34	2.10	1.96
02/24/10 19:19	7.57	1859.00	232.95			51.03	5.76	34.06	3.24			1.56	1.61	1.74	1.86
02/24/10 19:20	0.00	1299.40	417.10			54.94	4.57	94.65	8.47			1.37	1.96	1.14	1.69
02/24/10 19:21	0.02	1817.90	71.85			60.20	3.36	70.73	3.57			1.48	1.33	1.41	1.30
02/24/10 19:22	0.03	2203.00	1111.90			52.46	2.11	63.67	3.10			1.62	2.72	1.54	2.55
02/24/10 19:23	0.05	3503.70	2333.20			765.80	189.15	189.03	35.01			0.66	1.09	1.27	1.82
02/24/10 19:24	0.07	4071.90	268.56			1278.60	369.54	368.59	72.66			0.50	-0.14	1.04	0.57
02/24/10 19:25	0.08	4219.80	209.00			792.70	201.94	431.77	48.91			0.73	0.01	0.99	0.63
02/24/10 19:26	0.10	3408.10	271.23			619.57	147.52	325.37	37.22			0.74	0.26	1.02	0.86
02/24/10 19:27	0.12	4461.90	194.25			384.29	85.15	206.36	20.28			1.06	0.36	1.33	0.98
02/24/10 19:28	0.13	3408.20	161.22			294.15	70.30	141.53	15.26			1.06	0.36	1.38	1.02
02/24/10 19:29	0.15	4606.30	172.56			202.70	52.17	96.90	11.54			1.36	0.52	1.68	1.17
02/24/10 19:30	0.17	4393.40	153.35			169.85	43.67	62.13	9.45			1.41	0.55	1.85	1.21
02/24/10 19:31	0.18	4471.80	199.85			112.37	32.56	55.37	8.25			1.60	0.79	1.91	1.38
02/24/10 19:32	0.20	4346.40	196.93			105.50	28.03	48.20	7.54			1.61	0.85	1.96	1.42
02/24/10 19:33	0.22	3954.00	199.71			88.03	23.93	35.94	5.33			1.65	0.92	2.04	1.57
02/24/10 19:34	0.23	4545.40	177.19			68.80	18.25	34.63	4.69			1.82	0.99	2.12	1.58
02/24/10 19:35	0.25	4604.00	169.82			66.53	16.21	24.49	3.62			1.84	1.02	2.27	1.67
02/24/10 19:36	0.27	4550.40	184.30			53.82	14.87	22.18	3.07			1.93	1.09	2.31	1.78
02/24/10 19:37	0.28	3798.10	196.97			60.30	12.89	20.12	3.41			1.80	1.18	2.28	1.76
02/24/10 19:38	0.30	4359.80	178.34			43.68	10.95	18.15	3.07			2.00	1.21	2.38	1.76
02/24/10 19:39	0.32	3826.60	182.93			39.11	9.79	19.05	3.14			1.99	1.27	2.30	1.77

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/24/10 19:40	0.33	4210.60	168.36			36.03	8.45	16.05	2.15			2.07	1.30	2.42	1.89
02/24/10 19:41	0.35	3016.60	182.08			30.62	7.61	12.83	2.27			1.99	1.38	2.37	1.90
02/24/10 19:42	0.37	4358.10	206.71			30.93	7.75	11.56	2.08			2.15	1.43	2.58	2.00
02/24/10 19:43	0.38	4080.10	210.59			25.53	6.98	10.52	2.34			2.20	1.48	2.59	1.95
02/24/10 19:44	0.40	4528.80	207.68			22.74	7.23	9.10	1.44			2.30	1.46	2.70	2.16
02/24/10 19:45	0.42					21.35	7.34	9.32	1.90						
02/24/10 19:46	0.43					18.18	5.47	6.75	1.89						
02/24/10 19:47	0.45	4568.80	184.84			17.69	4.80	6.70	1.16			2.41	1.59	2.83	2.20
02/24/10 19:48	0.47	4252.10	208.93			15.56	5.17	6.91	1.12			2.44	1.61	2.79	2.27
02/24/10 19:49	0.48	4529.00	210.38			17.17	4.17	4.34	0.83			2.42	1.70	3.02	2.40
02/24/10 19:50	0.50	4573.00	192.16			14.42	3.60	5.69	1.17			2.50	1.73	2.91	2.22
02/24/10 19:51	0.52	4573.00	192.16			14.42	3.60	5.69	1.17			2.50	1.73	2.91	2.22
02/24/10 19:52	0.53	4152.20	248.68			13.01	3.31	4.51	0.87			2.50	1.88	2.96	2.46
02/24/10 19:53	0.55	4555.20	219.45			11.80	3.26	4.99	0.61			2.59	1.83	2.96	2.56
02/24/10 19:54	0.57	4586.90	178.03			8.91	2.11	3.53	0.61			2.71	1.93	3.11	2.47
02/24/10 19:55	0.58	4596.70	183.39			9.98	2.60	4.90	0.87			2.66	1.85	2.97	2.32
02/24/10 19:56	0.60	4548.40	199.06			7.51	2.33	3.14	0.48			2.78	1.93	3.16	2.62
02/24/10 19:57	0.62	4548.40	199.06			7.51	2.33	3.14	0.48			2.78	1.93	3.16	2.62
02/24/10 19:58	0.63	4332.20	208.25			7.43	1.92	3.62	0.35			2.77	2.04	3.08	2.77
02/24/10 19:59	0.65	4332.20	208.25			7.43	1.92	3.62	0.35			2.77	2.04	3.08	2.77
02/24/10 20:00	0.67	4561.00	200.62			7.24	1.92	1.69	0.58			2.80	2.02	3.43	2.54
02/24/10 20:01	0.68	3360.20	205.63			7.24	1.92	1.69	0.58			2.67	2.03	3.30	2.55
02/24/10 20:02	0.70	4353.30	193.50			5.84	1.25	3.13	0.75			2.87	2.19	3.14	2.41
02/24/10 20:03	0.72	3339.10	209.78			5.30	1.39	1.91	0.53			2.80	2.18	3.24	2.60
02/24/10 20:04	0.73	4332.60	214.63			5.33	1.77	2.66	0.31			2.91	2.08	3.21	2.84
02/24/10 20:05	0.75	4391.90	226.89			5.33	1.77	2.83	0.48			2.92	2.11	3.19	2.67
02/24/10 20:06	0.77	4391.90	226.89			5.77	1.17	2.83	0.48			2.88	2.29	3.19	2.67
02/24/10 20:07	0.78	4396.70	241.11			5.21	1.01	2.39	0.62			2.93	2.38	3.26	2.59
02/24/10 20:08	0.80	3778.80	218.50			5.31	1.00	2.13	0.57			2.85	2.34	3.25	2.58
02/24/10 20:09	0.82	3113.30	199.48			3.35	0.96	2.00	0.35			2.97	2.32	3.19	2.76
02/24/10 20:10	0.83	3259.50	206.51			4.12	1.09	2.18	0.40			2.90	2.28	3.17	2.71
02/24/10 20:11	0.85	4236.50	220.54			4.12	1.09	2.18	0.40			3.01	2.31	3.29	2.74
02/24/10 20:12	0.87	4475.10	224.09			5.23	0.96	2.14	0.31			2.93	2.37	3.32	2.86
02/24/10 20:13	0.88	3380.30	216.32			3.92	0.79	1.78	0.49			2.94	2.44	3.28	2.64
02/24/10 20:14	0.90	4364.10	212.35			4.04	0.44	2.14	0.40			3.03	2.68	3.31	2.72
02/24/10 20:15	0.92	3673.30	238.73			3.05	0.84	2.40	0.35			3.08	2.45	3.18	2.83
02/24/10 20:16	0.93	3673.30	238.73			3.31	0.57	2.40	0.35			3.05	2.62	3.18	2.83
02/24/10 20:17	0.95	4239.20	231.74			3.13	0.60	1.43	0.35			3.13	2.59	3.47	2.82
02/24/10 20:18	0.97	3988.90	236.67			3.53	0.39	1.16	0.13			3.05	2.78	3.54	3.26
02/24/10 20:19	0.98	3988.90	236.67			3.53	0.39	1.16	0.13			3.05	2.78	3.54	3.26
02/24/10 20:20	1.00	3748.70	293.09			3.09	0.44	1.78	0.40			3.08	2.82	3.32	2.86
02/24/10 20:21	1.02	4272.60	222.86			2.58	0.22	1.61	0.13			3.22	3.01	3.42	3.23
02/24/10 20:22	1.03	2987.50	213.88			2.66	0.44	1.38	0.40			3.05	2.69	3.34	2.73
02/24/10 20:23	1.05	2788.90	217.12			1.29	0.53	1.52	0.13			3.33	2.61	3.26	3.22
02/24/10 20:24	1.07	3262.00	237.54			2.31	0.31	1.16	0.22			3.15	2.88	3.45	3.03
02/24/10 20:25	1.08	2076.20	196.90			2.18	0.48	1.21	0.04			2.98	2.61	3.23	3.69
02/24/10 20:26	1.10	1803.80	191.28			2.48	0.40	1.21	0.04			2.86	2.68	3.17	3.68
02/24/10 20:27	1.12	2423.30	223.42			2.88	0.39	1.34	0.08			2.93	2.76	3.26	3.45
02/24/10 20:28	1.13	2770.20	195.63			2.09	0.31	1.83	0.22			3.12	2.80	3.18	2.95
02/24/10 20:29	1.15	2359.00	190.41			2.71	0.35	1.16	0.17			2.94	2.74	3.31	3.05

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/24/10 20:30	1.17	2944.50	218.45			2.00	0.44	4.32				3.17	2.70	2.83	
02/24/10 20:31	1.18	1956.90	191.81			2.00	0.44	0.89	0.17			2.99	2.64	3.34	3.05
02/24/10 20:32	1.20	2122.50	202.32			2.79	0.44	1.43	0.08			2.88	2.66	3.17	3.40
02/24/10 20:33	1.22	1954.90	194.46			2.71	0.26	1.30				2.86	2.87	3.18	
02/24/10 20:34	1.23	2027.30	218.51			2.05	0.35	1.52	0.08			3.00	2.80	3.13	3.44
02/24/10 20:35	1.25	2310.80	220.46			2.18	0.40	0.80	0.13			3.03	2.74	3.46	3.23
02/24/10 20:36	1.27	3274.80	239.93			2.58	0.26	1.12				3.10	2.97	3.47	
02/24/10 20:37	1.28	2045.50	233.23			1.87	0.22	5.77	0.17			3.04	3.03	2.55	3.14
02/24/10 20:38	1.30	2741.70	244.45			2.40	0.26	1.16	0.13			3.06	2.97	3.37	3.27
02/24/10 20:39	1.32	1841.20	187.77			2.09	0.31	0.45	0.04			2.94	2.78	3.61	3.67
02/24/10 20:40	1.33	2262.60	201.84			1.83	0.22	0.94	0.13			3.09	2.96	3.38	3.19
02/24/10 20:41	1.35	2070.70	201.77			1.96	0.40	0.72				3.02	2.70	3.46	
02/24/10 20:42	1.37	3403.80	263.98			2.00	0.26	0.72				3.23	3.01	3.67	
02/24/10 20:43	1.38	2529.10	220.88			2.49	0.35	0.67	0.09			3.01	2.80	3.58	3.39
02/24/10 20:44	1.40	1744.40	178.10			1.87	0.22	0.94	0.04			2.97	2.91	3.27	3.65
02/24/10 20:45	1.42	1864.60	225.77			1.38	0.26	5.13	0.30			3.13	2.94	2.56	2.88
02/24/10 20:46	1.43	2136.30	238.16			5.47	0.17					2.59	3.15		
02/24/10 20:47	1.45	2083.30	259.44			2.05	0.35	1.39	0.08			3.01	2.87	3.18	3.51
02/24/10 20:48	1.47	2083.30	259.44			2.05	0.35	1.39	0.08			3.01	2.87	3.18	3.51
02/24/10 20:49	1.48	2216.50	220.24			1.83	0.22	0.81	0.04			3.08	3.00	3.44	3.74
02/24/10 20:50	1.50	2110.80	239.94			1.17	0.21	0.81	0.04			3.26	3.06	3.42	3.78
02/24/10 20:51	1.52	1960.20	214.53			1.34	0.22	4.84	0.08			3.17	2.99	2.61	3.43
02/24/10 20:52	1.53	1900.70	226.60			1.70	0.08	0.89	0.04			3.05	3.45	3.33	3.75
02/24/10 20:53	1.55	1892.10	261.32			1.07	0.22	0.94	0.17			3.25	3.07	3.30	3.19
02/24/10 20:54	1.57	2282.70	228.46			1.78	0.49	0.80	0.04			3.11	2.67	3.46	3.76
02/24/10 20:55	1.58	1767.40	212.21			1.47	0.17	0.31				3.08	3.10	3.76	
02/24/10 20:56	1.60	2177.30	230.44			0.89	0.04	1.82	0.08			3.39	3.76	3.08	3.46
02/24/10 20:57	1.62	1851.00	227.21			1.03	0.13	0.76	0.09			3.25	3.24	3.39	3.40
02/24/10 20:58	1.63	2125.80	241.22			1.70	0.08	0.98				3.10	3.48	3.34	
02/24/10 20:59	1.65	2007.50	234.55					0.71	0.04					3.45	3.77
02/24/10 21:00	1.67	1950.10	257.55			1.26	0.21	5.13	0.13			3.19	3.09	2.58	3.30
02/24/10 21:01	1.68	2225.80	253.26			0.94	0.22	1.43				3.37	3.06	3.19	
02/24/10 21:02	1.70	1852.40	234.28			1.16	0.08	0.80	0.08			3.20	3.47	3.36	3.47
02/24/10 21:03	1.72	2692.00	263.73			1.74	0.17	1.07				3.19	3.19	3.40	
02/24/10 21:04	1.73	2429.30	255.91			1.07	0.17	0.89	0.08			3.36	3.18	3.44	3.50
02/24/10 21:05	1.75	1855.80	208.49			1.07		0.36	0.09			3.24		3.71	3.36
02/24/10 21:06	1.77	2258.20	250.15			1.25	0.04	0.94	0.13			3.26	3.80	3.38	3.28
02/24/10 21:07	1.78	2993.90	376.28			1.00	0.04	1.00	0.08			3.48	3.97	3.48	3.67
02/24/10 21:08	1.80	2477.50	252.81			1.03	0.13	0.76	0.04			3.38	3.29	3.51	3.80
02/24/10 21:09	1.82	2319.80	263.87			1.35	0.04	0.49	0.13			3.24	3.82	3.68	3.31
02/24/10 21:10	1.83	3624.50	278.89			0.98	0.08	0.63	0.09			3.57	3.54	3.76	3.49
02/24/10 21:11	1.85	2490.10	249.32			0.89	0.13	1.34	0.22			3.45	3.28	3.27	3.05
02/24/10 21:12	1.87	2363.90	257.95			0.71	0.04	0.80	0.04			3.52	3.81	3.47	3.81
02/24/10 21:13	1.88	2951.60	334.93			0.58	0.31	0.80	0.17			3.71	3.03	3.57	3.29
02/24/10 21:14	1.90	3026.00	286.08			0.98		4.57	0.08			3.49		2.82	3.55
02/24/10 21:15	1.92	2569.00	257.18			1.61	0.08	1.56	0.04			3.20	3.51	3.22	3.81
02/24/10 21:16	1.93	3094.40	284.91			1.30	0.04	0.58	0.13			3.38	3.85	3.73	3.34
02/24/10 21:17	1.95	3304.00	280.88			1.34	0.08	0.67				3.39	3.55	3.69	
02/24/10 21:18	1.97	2472.40	247.07			1.30	0.08	0.67				3.28	3.49	3.57	
02/24/10 21:19	1.98	2345.10	257.08			1.47	0.04	1.56				3.20	3.81	3.18	

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/24/10 21:20	2.00	3378.70	283.24			0.85	0.08	0.45	0.04			3.60	3.55	3.88	3.85
02/24/10 21:21	2.02	3031.20	286.96			0.76	0.40	0.67				3.60	2.86	3.66	
02/24/10 21:22	2.03	2593.00	266.48			0.71	0.31	0.27	0.04			3.56	2.93	3.98	3.82
02/24/10 21:23	2.05	2699.30	257.25			0.98	0.08	0.85	0.08			3.44	3.51	3.50	3.51
02/24/10 21:24	2.07	2382.80	255.46			0.89	0.08	0.89				3.43	3.50	3.43	
02/24/10 21:25	2.08	2221.80	226.49			0.80	0.04	1.07	0.04			3.44	3.75	3.32	3.75
02/24/10 21:26	2.10	2043.00	230.19			0.62	0.13	0.85				3.52	3.25	3.38	
02/24/10 21:27	2.12	2025.50	295.67			1.30	0.04	1.21	0.17			3.19	3.87	3.22	3.24
02/24/10 21:28	2.13	2514.10	285.97			0.58	0.04	0.45	0.04			3.64	3.85	3.75	3.85
02/24/10 21:29	2.15	2373.30	257.03			0.45		0.85	0.04			3.72		3.45	3.81
02/24/10 21:30	2.17	1948.80	250.17			1.29	0.17	0.27	0.04			3.18	3.17	3.86	3.80
02/24/10 21:31	2.18	3136.80	286.92			0.98	0.08	0.72				3.51	3.55	3.64	
02/24/10 21:32	2.20	4042.60	338.48			0.80	0.04	0.72	0.13			3.70	3.93	3.75	3.42
02/24/10 21:33	2.22	3425.10	292.92			0.63	0.09	0.81				3.74	3.51	3.63	
02/24/10 21:34	2.23	2045.40	266.90			0.71	0.13	0.80	0.08			3.46	3.31	3.41	3.52
02/24/10 21:35	2.25	2417.40	260.78			0.89	0.13	0.58				3.43	3.30	3.62	
02/24/10 21:36	2.27	2184.40	264.12			0.98	0.13	0.85	0.08			3.35	3.31	3.41	3.52
02/24/10 21:37	2.28	3234.40	299.48			0.85	0.08	0.80	0.08			3.58	3.57	3.61	3.57
02/24/10 21:38	2.30	2493.90	290.55			0.76		0.40	0.04			3.52		3.79	3.86
02/24/10 21:39	2.32	2181.60	237.98			0.94	0.13	0.67	0.04			3.37	3.26	3.51	3.77
02/24/10 21:40	2.33	2145.00	264.48			1.12		0.81	0.04			3.28		3.42	3.82
02/24/10 21:41	2.35	2553.50	298.09			1.03	0.04	0.89				3.39	3.87	3.46	
02/24/10 21:42	2.37	2679.20	300.55			0.63		0.72				3.63		3.57	
02/24/10 21:43	2.38	3897.80	312.27			0.89	0.04	0.36	0.09			3.64	3.89	4.03	3.54
02/24/10 21:44	2.40	2939.40	291.87			1.07	0.17	0.13	0.04			3.44	3.23	4.35	3.86
02/24/10 21:45	2.42	2095.10	249.12			0.67	0.04	0.36	0.09			3.50	3.79	3.76	3.44
02/24/10 21:46	2.43	1833.60	250.45			1.12	0.04	0.98	0.04			3.21	3.80	3.27	3.80
02/24/10 21:47	2.45	1833.60	250.45			0.94	0.13	0.80	0.17			3.29	3.28	3.36	3.17
02/24/10 21:48	2.47					0.49	0.09	0.72	0.09						
02/24/10 21:49	2.48	2264.20	262.91			0.49	0.40	2.54	0.04			3.66	2.82	2.95	3.82
02/24/10 21:50	2.50	2530.00	270.30			0.49	0.40	0.27				3.71	2.83	3.97	
02/24/10 21:51	2.52	2453.50	255.41			0.80	0.08	0.27				3.49	3.50	3.96	
02/24/10 21:52	2.53	1876.20	242.02			1.12	0.13	1.12				3.22	3.27	3.22	
02/24/10 21:53	2.55	2362.70	278.10			1.03	0.17	0.85				3.36	3.21	3.44	
02/24/10 21:54	2.57	2310.40	298.87			0.76	0.04	0.63	0.13			3.48	3.87	3.56	3.36
02/24/10 21:55	2.58	2099.00	291.20			0.54	0.09	0.49	0.09			3.59	3.51	3.63	3.51
02/24/10 21:56	2.60	2426.80	252.63			1.16	0.08	0.63	0.09			3.32	3.50	3.59	3.45
02/24/10 21:57	2.62	3151.90	313.19			0.63	0.04	0.54				3.70	3.89	3.77	
02/24/10 21:58	2.63	3065.50	293.49			0.63	0.04	0.54				3.69	3.87	3.75	
02/24/10 21:59	2.65	3003.00	295.83			0.89	0.08	0.40				3.53	3.57	3.88	
02/24/10 22:00	2.67	2358.80	314.92			0.67	0.09	0.58	0.04			3.55	3.54	3.61	3.90
02/24/10 22:01	2.68	2774.20	308.42			0.45		1.12				3.79		3.39	
02/24/10 22:02	2.70	3125.50	319.63			1.07	0.08	1.12				3.47	3.60	3.45	
02/24/10 22:03	2.72	1634.40	216.29			1.12		1.07	0.17			3.16		3.18	3.10
02/24/10 22:04	2.73	2635.60	278.51			0.80		4.10				3.52		2.81	
02/24/10 22:05	2.75	1969.50	242.49			1.12		1.16	0.04			3.25		3.23	3.78
02/24/10 22:06	2.77					0.45									
02/24/10 22:07	2.78	2902.20	302.88			1.16	0.04	0.40				3.40	3.88	3.86	
02/24/10 22:08	2.80					0.80	0.04	0.63	0.09						
02/24/10 22:09	2.82	2260.60	271.77			0.49	0.04	0.58				3.66	3.83	3.59	

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/24/10 22:10	2.83	1886.70	255.19			10.39		0.40				2.26		3.67	
02/24/10 22:11	2.85	1886.70	255.19			0.58	0.04	0.45				3.51	3.80	3.62	
02/24/10 22:12	2.87	2073.40	275.55			0.48		0.45				3.64		3.66	
02/24/10 22:13	2.88	2028.70	282.04			0.89	0.08	1.03	0.04			3.36	3.55	3.29	3.85
02/24/10 22:14	2.90					0.80	0.13	0.54							
02/24/10 22:15	2.92	1947.00	243.68			1.16	0.13	0.54				3.22	3.27	3.56	
02/24/10 22:16	2.93					1.16	0.13	0.54							
02/24/10 22:17	2.95	1812.10	267.45			0.45		0.94				3.60		3.29	
02/24/10 22:18	2.97					3.80	0.08	0.81							
02/24/10 22:19	2.98	2748.30	312.29			3.80	0.08	0.81				2.86	3.59	3.53	
02/24/10 22:20	3.00	1787.20	261.02			0.67	0.13	0.67	0.04			3.43	3.30	3.43	3.81
02/24/10 22:21	3.02	2202.60	268.38			0.36	0.04	0.36				3.79	3.83	3.79	
02/24/10 22:22	3.03	3018.00	353.30			0.67		0.36				3.65		3.92	
02/24/10 22:23	3.05	2158.20	284.70			0.85	0.04	0.36				3.40	3.85	3.78	
02/24/10 22:24	3.07	2829.00	359.46			0.98	0.04	0.89				3.46	3.95	3.50	
02/24/10 22:25	3.08	2960.40	334.36			0.80		0.63	0.04			3.57		3.67	3.92
02/24/10 22:26	3.10	2937.20	327.00			0.31	0.04	1.03	0.08			3.98	3.91	3.46	3.61
02/24/10 22:27	3.12	3281.80	337.80			1.61	0.04	0.36				3.31	3.93	3.96	
02/24/10 22:28	3.13	3003.70	345.62			1.34	0.04	0.54				3.35	3.94	3.75	
02/24/10 22:29	3.15	2439.60	306.49			0.63		0.76				3.59		3.51	
02/24/10 22:30	3.17	2409.30	303.98			0.76	0.13	0.94				3.50	3.37	3.41	
02/24/10 22:31	3.18	2883.60	313.19			0.63	0.04	0.76	0.13			3.66	3.89	3.58	3.38
02/24/10 22:32	3.20	2006.00	258.04			1.03	0.22	0.76	0.04			3.29	3.07	3.42	3.81
02/24/10 22:33	3.22	2085.80	247.76			0.67	0.22	0.89				3.49	3.05	3.37	
02/24/10 22:34	3.23	4238.50	340.00			1.39		0.31	0.04			3.48		4.14	3.93
02/24/10 22:35	3.25	3140.70	337.47			0.63	0.04	0.98	0.04			3.70	3.93	3.51	3.93
02/24/10 22:36	3.27	2498.40	315.96			0.27	0.04	0.45	0.04			3.97	3.90	3.74	3.90
02/24/10 22:37	3.28	2846.00	306.72			1.03	0.04	0.45				3.44	3.88	3.80	
02/24/10 22:38	3.30	2736.30	346.44			0.76		0.45				3.56		3.78	
02/24/10 22:39	3.32	2736.30	346.44			0.76		0.40				3.56		3.84	
02/24/10 22:40	3.33	1996.00	264.02			1.07	0.13	0.63	0.04			3.27	3.31	3.50	3.82
02/24/10 22:41	3.35	2309.00	275.04			1.03	0.04	0.72				3.35	3.84	3.51	
02/24/10 22:42	3.37	2277.30	337.88			0.94		0.85				3.38		3.43	
02/24/10 22:43	3.38	2405.00	297.60			0.94		0.85				3.41		3.45	
02/24/10 22:44	3.40	2180.50	290.22			4.92		1.12	0.08			2.65		3.29	3.56
02/24/10 22:45	3.42	1771.60	234.81			0.80	0.08	1.03				3.35	3.47	3.24	
02/24/10 22:46	3.43	2343.40	314.66			0.40	0.13	0.71	0.17			3.77	3.38	3.52	3.27
02/24/10 22:47	3.45	2183.80	286.24			0.80	0.04	0.80	0.13			3.44	3.85	3.44	3.34
02/24/10 22:48	3.47	2303.10	282.44			1.21	0.04	4.58	0.04			3.28	3.85	2.70	3.85
02/24/10 22:49	3.48	2685.60	328.18			0.67		0.72	0.04			3.60		3.57	3.91
02/24/10 22:50	3.50	1897.20	264.07			0.67		0.72	0.04			3.45		3.42	3.82
02/24/10 22:51	3.52	2265.60	306.61			0.61	0.08	0.72	0.04			3.57	3.58	3.50	3.88
02/24/10 22:52	3.53	2540.90	348.90			0.58	0.13	1.16	0.04			3.64	3.43	3.34	3.94
02/24/10 22:53	3.55	2462.30	318.84			6.24		0.45				2.60		3.74	
02/24/10 22:54	3.57	2247.50	293.28			0.72	0.09	0.63	0.04			3.49	3.51	3.55	3.87
02/24/10 22:55	3.58	2768.70	315.16			0.40		0.63	0.04			3.84		3.64	3.90
02/24/10 22:56	3.60	3353.10	373.62			0.63		0.36				3.73		3.97	
02/24/10 22:57	3.62	1955.50	284.03			0.80	0.13	1.43	0.08			3.39	3.34	3.14	3.55
02/24/10 22:58	3.63	3119.70	315.56			0.72	0.04	0.58				3.64	3.90	3.73	
02/24/10 22:59	3.65	2350.60	293.28			0.72	0.04	0.58				3.51	3.87	3.61	

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/24/10 23:00	3.67	2740.00	337.66			9.63	0.12	0.98				2.45	3.45	3.45	
02/24/10 23:01	3.68	2681.30	326.16			0.36	0.09	0.85	0.04			3.87	3.56	3.50	3.91
02/24/10 23:02	3.70	2503.40	298.75			0.52	0.04	0.94				3.68	3.87	3.43	
02/24/10 23:03	3.72	2394.00	349.76			0.89		0.72				3.43		3.52	
02/24/10 23:04	3.73	2353.50	313.04			0.36		0.61	0.04			3.82		3.59	3.89
02/24/10 23:05	3.75	3003.50	351.19			0.72	0.04	0.36				3.62	3.94	3.92	
02/24/10 23:06	3.77	2392.60	317.66			1.12	0.04	0.67	0.09			3.33	3.90	3.55	3.55
02/24/10 23:07	3.78	2320.40	308.03			0.72		1.07				3.51		3.34	
02/24/10 23:08	3.80	2293.80	313.17			1.07		1.52				3.33		3.18	
02/24/10 23:09	3.82	2801.10	328.40			0.31	0.09	0.49				3.96	3.56	3.76	
02/24/10 23:10	3.83	1873.00	269.80			1.03	0.04	0.27	0.04			3.26	3.83	3.84	3.83
02/24/10 23:11	3.85	2149.80	274.99			0.61	0.04	0.72				3.55	3.84	3.48	
02/24/10 23:12	3.87	2908.70	331.15			0.69	0.04	0.76				3.62	3.92	3.58	
02/24/10 23:13	3.88	3010.10	345.95			0.22	0.04	1.00	0.04			4.14	3.94	3.48	3.94
02/24/10 23:14	3.90	2451.90	330.66			0.58	0.04	0.36	0.09			3.63	3.92	3.83	3.57
02/24/10 23:15	3.92	3253.30	376.69			0.54	0.04	0.63	0.09			3.78	3.97	3.71	3.62
02/24/10 23:16	3.93	2777.00	317.67			0.67	0.13	0.54	0.04			3.62	3.39	3.71	3.90
02/24/10 23:17	3.95	2763.10	346.24			0.58		0.81				3.68		3.53	
02/24/10 23:18	3.97	2411.30	298.82			0.67	0.09	1.21	0.04			3.56	3.52	3.30	3.87
02/24/10 23:19	3.98	2340.50	303.88			0.72	0.04	0.67	0.04			3.51	3.88	3.54	3.88
02/24/10 23:20	4.00	2754.20	340.12					0.76						3.56	
02/24/10 23:21	4.02	2892.20	352.51			0.49	0.09	0.63	0.04			3.77	3.59	3.66	3.95
02/24/10 23:22	4.03	2275.20	304.53			1.29	0.17	0.63	0.09			3.25	3.25	3.56	3.53
02/24/10 23:23	4.05	2178.10	308.48			0.54	0.04	0.40	0.04			3.61	3.89	3.74	3.89
02/24/10 23:24	4.07	2280.30	284.97			0.94		0.89	0.08			3.38		3.41	3.55
02/24/10 23:25	4.08	3555.50	364.55			0.63	0.04	0.54	0.04			3.75	3.96	3.82	3.96
02/24/10 23:26	4.10	2532.90	325.45			0.72		0.63	0.04			3.55		3.60	3.91
02/24/10 23:27	4.12	2360.10	299.99			0.31	0.04	0.45	0.04			3.88	3.88	3.72	3.88
02/24/10 23:28	4.13	2924.80	337.00			0.40		0.72				3.86		3.61	
02/24/10 23:29	4.15	3423.90	380.83			0.27	0.04	0.94	0.04			4.10	3.98	3.56	3.98
02/24/10 23:30	4.17	2942.90	344.32			0.98		0.67				3.48		3.64	
02/24/10 23:31	4.18	2597.10	343.56			0.98	0.04	0.54				3.42	3.93	3.68	
02/24/10 23:32	4.20	2163.20	294.99			0.40	0.04	0.31				3.73	3.87	3.84	
02/24/10 23:33	4.22	1983.60	280.86			0.40		0.27	0.09			3.70		3.87	3.49
02/24/10 23:34	4.23	2370.50	321.79			0.58		0.98	0.13			3.61		3.38	3.39
02/24/10 23:35	4.25	2093.00	270.97			0.85		0.76				3.39		3.44	
02/24/10 23:36	4.27	2312.10	305.92			0.94	0.08	0.27	0.04			3.39	3.58	3.93	3.88
02/24/10 23:37	4.28	2672.70	329.46			1.03	0.04	0.09				3.41	3.92	4.47	
02/24/10 23:38	4.30	2487.10	332.17			0.76	0.04	0.45				3.51	3.92	3.74	
02/24/10 23:39	4.32	2929.80	358.90			0.45	0.04	0.63	0.04			3.81	3.95	3.67	3.95
02/24/10 23:40	4.33	2765.00	387.85			0.54	0.04	3.80	0.04			3.71	3.99	2.86	3.99
02/24/10 23:41	4.35	2455.20	318.23			0.67	0.04	0.22				3.56	3.90	4.05	
02/24/10 23:42	4.37	2008.80	299.72			6.58		1.03	0.04			2.48		3.29	3.87
02/24/10 23:43	4.38	3530.00	374.81			0.76		0.63				3.67		3.75	
02/24/10 23:44	4.40	3094.40	369.76			0.31		0.72				4.00		3.63	
02/24/10 23:45	4.42	2082.40	304.08			0.49	0.04	0.76	0.04			3.63	3.88	3.44	3.88
02/24/10 23:46	4.43	2082.40	304.08			0.36	0.04	0.72				3.76	3.88	3.46	
02/24/10 23:47	4.45	2355.80	328.98			0.40	0.13	0.49				3.77	3.40	3.68	
02/24/10 23:48	4.47	2958.10	355.19			1.20	0.22	0.54	0.09			3.39	3.21	3.74	3.60
02/24/10 23:49	4.48	3004.90	339.23			1.20	0.22					3.40	3.19		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/24/10 23:50	4.50	1944.40	277.27			0.89		0.85	0.04			3.34		3.36	3.84
02/24/10 23:51	4.52	2130.00	291.19			0.22	0.04	0.98	0.04			3.99	3.86	3.34	3.86
02/24/10 23:52	4.53	2149.20	324.20			0.18		0.63	0.09			4.08		3.53	3.56
02/24/10 23:53	4.55	2434.50	390.58			0.67	0.04	0.49				3.56	3.99	3.70	
02/24/10 23:54	4.57	2109.40	294.44			0.18		0.31				4.07		3.83	
02/24/10 23:55	4.58	2109.40	294.44			0.18		0.31				4.07		3.83	
02/24/10 23:56	4.60	2366.00	304.52			0.27	0.04	0.98	0.08			3.94	3.88	3.38	3.58
02/24/10 23:57	4.62	3192.60	355.84			0.85		0.58	0.04			3.57		3.74	3.95
02/24/10 23:58	4.63	2181.80	333.90			0.45		0.40				3.69		3.74	
02/24/10 23:59	4.65	2090.30	295.51			0.27	0.09	0.94	0.04			3.89	3.52	3.35	3.87
02/25/10 00:00	4.67	2455.10	316.63			0.63	0.04	0.94	0.04			3.59	3.90	3.42	3.90
02/25/10 00:01	4.68					0.49	0.04	0.58	0.13						
02/25/10 00:02	4.70	2250.10	321.06			0.49		0.63				3.66		3.55	
02/25/10 00:03	4.72	2082.80	296.25			4.93		0.85	0.04			2.63		3.39	3.87
02/25/10 00:04	4.73	3206.40	387.12			1.03	0.08	0.63	0.04			3.49	3.68	3.71	3.99
02/25/10 00:05	4.75	2769.80	362.03			0.18	0.04	0.40	0.09			4.19	3.96	3.84	3.60
02/25/10 00:06	4.77					0.04									
02/25/10 00:07	4.78	2311.00	307.96			0.04		0.63	0.04			4.76		3.56	3.89
02/25/10 00:08	4.80	2749.10	336.88			0.36		0.89	0.08			3.88		3.49	3.62
02/25/10 00:09	4.82	2379.50	320.28			0.89	0.08	0.58	0.04			3.43	3.60	3.61	3.90
02/25/10 00:10	4.83	2390.30	317.22			0.72		0.27	0.04			3.52		3.95	3.90
02/25/10 00:11	4.85	2148.40	324.39			1.03		0.54				3.32		3.60	
02/25/10 00:12	4.87	2332.70	320.18			1.03		0.54				3.36		3.64	
02/25/10 00:13	4.88	2512.40	322.56			1.12	0.04	0.67				3.35	3.91	3.57	
02/25/10 00:14	4.90	2284.50	303.96			0.54	0.04	0.67				3.63	3.88	3.53	
02/25/10 00:15	4.92	1983.40	268.30			1.12	0.04	0.49				3.25	3.83	3.61	
02/25/10 00:16	4.93					0.63		4.96							
02/25/10 00:17	4.95	3761.90	404.26			0.22	0.09	0.81	0.04			4.23	3.65	3.67	4.00
02/25/10 00:18	4.97	2361.10	326.53			0.31	0.04					3.88	3.91		
02/25/10 00:19	4.98	2361.10	326.53			0.31	0.04	0.40	0.04			3.88	3.91	3.77	3.91
02/25/10 00:20	5.00	2708.90	359.27			0.58	0.04	0.49				3.67	3.95	3.74	
02/25/10 00:21	5.02	3452.60	383.22			0.89		0.49				3.59		3.85	
02/25/10 00:22	5.03					0.40		0.49							
02/25/10 00:23	5.05	2625.30	327.85			0.40		0.31	0.04			3.82		3.93	3.91
02/25/10 00:24	5.07	3032.80	366.50			0.80		0.67	0.09			3.58		3.66	3.61
02/25/10 00:25	5.08	3308.60	364.35			0.63		0.49				3.72		3.83	
02/25/10 00:26	5.10	2609.10	337.28			0.80	0.04	0.76				3.51	3.93	3.54	
02/25/10 00:27	5.12	3158.50	388.44			0.80	0.04	0.76				3.60	3.99	3.62	
02/25/10 00:28	5.13	2764.60	351.23			0.63	0.09	0.58				3.64	3.59	3.68	
02/25/10 00:29	5.15	3638.30	433.64			0.89	0.04	0.31	0.09			3.61	4.04	4.07	3.68
02/25/10 00:30	5.17	2917.60	386.16			0.67	0.09	0.40				3.64	3.63	3.86	
02/25/10 00:31	5.18	2917.60	386.16			0.67	0.09	0.40				3.64	3.63	3.86	
02/25/10 00:32	5.20	4037.30	410.73			0.58		0.31				3.84		4.11	
02/25/10 00:33	5.22	3129.70	386.92			0.22		0.40				4.15		3.89	
02/25/10 00:34	5.23	2455.70	334.51			9.03		0.63	0.04			2.43		3.59	3.92
02/25/10 00:35	5.25	2314.00	318.47			0.58	0.04	0.63				3.60	3.90	3.57	
02/25/10 00:36	5.27	2706.30	362.30			0.27		0.45	0.13			4.00		3.78	3.45
02/25/10 00:37	5.28	2437.30	334.06			0.76		0.40				3.51		3.78	
02/25/10 00:38	5.30	2532.40	335.40			0.49		0.49				3.71		3.71	
02/25/10 00:39	5.32	2544.30	318.35			6.12		3.89	0.04			2.62		2.82	3.90

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 07:20	12.00														
02/25/10 07:21	12.02														
02/25/10 07:22	12.03														
02/25/10 07:23	12.05														
02/25/10 07:24	12.07														
02/25/10 07:25	12.08														
02/25/10 07:26	12.10														
02/25/10 07:27	12.12														
02/25/10 07:28	12.13														
02/25/10 07:29	12.15														
02/25/10 07:30	12.17														
02/25/10 07:31	12.18														
02/25/10 07:32	12.20														
02/25/10 07:33	12.22														
02/25/10 07:34	12.23														
02/25/10 07:35	12.25														
02/25/10 07:36	12.27														
02/25/10 07:37	12.28														
02/25/10 07:38	12.30														
02/25/10 07:39	12.32														
02/25/10 07:40	12.33														
02/25/10 07:41	12.35														
02/25/10 07:42	12.37														
02/25/10 07:43	12.38														
02/25/10 07:44	12.40														
02/25/10 07:45	12.42														
02/25/10 07:46	12.43														
02/25/10 07:47	12.45														
02/25/10 07:48	12.47														
02/25/10 07:49	12.48														
02/25/10 07:50	12.50														
02/25/10 07:51	12.52														
02/25/10 07:52	12.53														
02/25/10 07:53	12.55														
02/25/10 07:54	12.57														
02/25/10 07:55	12.58														
02/25/10 07:56	12.60														
02/25/10 07:57	12.62														
02/25/10 07:58	12.63														
02/25/10 07:59	12.65	2595.80	366.71			3.06	0.22	0.67	0.04			2.93	3.22	3.59	3.96
02/25/10 08:00	12.67	2248.20	305.23			4.92	0.21	0.98	0.13			2.66	3.16	3.36	3.37
02/25/10 08:01	12.68	2248.20	305.23			4.92	0.21	0.98	0.13			2.66	3.16	3.36	3.37
02/25/10 08:02	12.70	2785.60	348.96			0.45		1.07	0.71			3.79		3.42	2.69
02/25/10 08:03	12.72	2651.10	353.18			0.40	0.04	1.16	0.49			3.82	3.95	3.36	2.86
02/25/10 08:04	12.73	2605.50	329.37			0.31	0.04	0.80	0.08			3.92	3.92	3.51	3.61
02/25/10 08:05	12.75	2312.20	330.42			0.18		0.80	0.22			4.11		3.46	3.18
02/25/10 08:06	12.77	2282.30	320.89			0.27		0.36	0.04			3.93		3.80	3.90
02/25/10 08:07	12.78	2260.20	320.58			0.13	0.09	0.36				4.24	3.55	3.80	
02/25/10 08:08	12.80	2296.70	296.53			0.13	0.09	0.36				4.25	3.52	3.80	
02/25/10 08:09	12.82	2241.40	301.93					0.40	0.04					3.75	3.88

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 08:10	12.83	2423.10	318.57					0.36						3.83	
02/25/10 08:11	12.85	2625.60	322.27			0.13		0.27				4.31		3.99	
02/25/10 08:12	12.87	2272.80	317.85			0.22		0.27				4.01		3.93	
02/25/10 08:13	12.88	2125.40	273.42			0.09		0.40				4.37		3.73	
02/25/10 08:14	12.90	2571.40	323.49			0.45		0.76				3.76		3.53	
02/25/10 08:15	12.92	2438.70	324.33			0.13		0.67	0.22			4.27		3.56	3.17
02/25/10 08:16	12.93	2363.40	311.54			0.13		0.18	0.04			4.26		4.12	3.89
02/25/10 08:17	12.95	1980.00	272.22			0.31		0.18	0.04			3.81		4.04	3.83
02/25/10 08:18	12.97	2387.30	338.49			0.09	0.04	0.45	0.09			4.42	3.93	3.72	3.58
02/25/10 08:19	12.98	3064.50	339.55			0.27		0.40	0.04			4.05		3.88	3.93
02/25/10 08:20	13.00	2633.50	331.68			0.27		0.40	0.04			3.99		3.82	3.92
02/25/10 08:21	13.02	2611.80	330.61			0.27	0.04	0.31	0.04			3.99	3.92	3.93	3.92
02/25/10 08:22	13.03	2855.90	346.60			0.36		0.40				3.90		3.85	
02/25/10 08:23	13.05	3068.90	354.50			0.18	0.04	0.27	0.04			4.23	3.95	4.06	3.95
02/25/10 08:24	13.07	2623.00	387.96					0.58	0.09					3.66	3.63
02/25/10 08:25	13.08	2329.40	323.26			0.18	0.04	0.58	0.04			4.11	3.91	3.60	3.91
02/25/10 08:26	13.10	2884.50	351.61			0.04		0.76	0.09			4.86		3.58	3.59
02/25/10 08:27	13.12	2439.10	314.13			0.13		0.67				4.27		3.56	
02/25/10 08:28	13.13	2960.70	344.57			0.27	0.04	0.36				4.04	3.94	3.92	
02/25/10 08:29	13.15														
02/25/10 08:30	13.17														
02/25/10 08:31	13.18														
02/25/10 08:32	13.20														
02/25/10 08:33	13.22														
02/25/10 08:34	13.23														
02/25/10 08:35	13.25														
02/25/10 08:36	13.27														
02/25/10 08:37	13.28														
02/25/10 08:38	13.30														
02/25/10 08:39	13.32														
02/25/10 08:40	13.33	1782.80	266.70			86.18	24.62	0.45				1.32	1.03	3.60	
02/25/10 08:41	13.35	1519.70	238.64			96.91	29.59	0.45	0.04			1.20	0.91	3.53	3.78
02/25/10 08:42	13.37	1392.60	225.67			265.88	55.67	0.67	0.04			0.72	0.61	3.32	3.75
02/25/10 08:43	13.38	1387.50	232.04			138.11	28.12	0.36				1.00	0.92	3.59	
02/25/10 08:44	13.40	1837.80	317.35			95.77	22.54	0.36	0.13			1.28	1.15	3.71	3.39
02/25/10 08:45	13.42	1544.00	257.48			90.00	22.83	0.31				1.23	1.05	3.70	
02/25/10 08:46	13.43	1955.70	365.12			81.73	19.26	0.54	0.09			1.38	1.28	3.56	3.61
02/25/10 08:47	13.45	2495.20	500.09			72.27	14.81	0.62	0.31			1.54	1.53	3.60	3.21
02/25/10 08:48	13.47	2348.70	372.35			72.27	14.81	0.62	0.31			1.51	1.40	3.58	3.08
02/25/10 08:49	13.48	2492.10	486.22			65.75	12.30	0.89	0.13			1.58	1.60	3.45	3.57
02/25/10 08:50	13.50	1631.00	323.05			55.63	10.44	0.18				1.47	1.49	3.96	
02/25/10 08:51	13.52	1761.70	330.34			51.32	9.58	0.76	0.17			1.54	1.54	3.37	3.29
02/25/10 08:52	13.53	2488.30	377.57			50.10	9.70	0.40				1.70	1.59	3.79	
02/25/10 08:53	13.55	1654.90	341.40			40.78	7.74	0.91	0.08			1.61	1.64	3.26	3.63
02/25/10 08:54	13.57	1668.80	347.73			37.47	7.74	0.54	0.04			1.65	1.65	3.49	3.94
02/25/10 08:55	13.58	1502.90	313.83			32.35	5.55	0.63	0.04			1.67	1.75	3.38	3.89
02/25/10 08:56	13.60	1862.60	342.63			31.13	5.51	0.36	0.09			1.78	1.79	3.71	3.58
02/25/10 08:57	13.62	1533.90	306.43			30.33	6.19	0.09	0.04			1.70	1.69	4.23	3.88
02/25/10 08:58	13.63	1830.10	306.05			25.00	4.96	0.27	0.09			1.86	1.79	3.83	3.53
02/25/10 08:59	13.65	1743.20	327.84			24.33	4.15	4.88	0.04			1.86	1.90	2.55	3.91

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 09:00	13.67	2159.20	468.86			19.75	3.40	3.58	0.26			2.04	2.14	2.78	3.26
02/25/10 09:01	13.68	1723.10	404.43			103.36	8.70	1.91	0.53			1.22	1.67	2.96	2.88
02/25/10 09:02	13.70	2484.20	448.11			60.62	6.77	2.16	0.17			1.61	1.82	3.06	3.42
02/25/10 09:03	13.72	2967.00	499.21			47.90	5.41	1.38	0.13			1.79	1.97	3.33	3.58
02/25/10 09:04	13.73	3203.40	559.65			33.91	4.36	1.03	0.31			1.98	2.11	3.49	3.26
02/25/10 09:05	13.75	3191.50	547.37			24.44	3.06	2.88	0.48			2.12	2.25	3.04	3.06
02/25/10 09:06	13.77	2717.20	527.92			20.60	2.82	1.38	0.17			2.12	2.27	3.29	3.49
02/25/10 09:07	13.78	2668.60	426.27			27.64	2.57	1.34	0.17			1.98	2.22	3.30	3.40
02/25/10 09:08	13.80	2952.20	488.60			16.53	2.90	1.03	0.13			2.25	2.23	3.46	3.58
02/25/10 09:09	13.82	3176.90	431.24			12.97	2.63	1.12	0.08			2.39	2.21	3.45	3.73
02/25/10 09:10	13.83	3233.80	425.46			13.48	2.83	0.67	0.08			2.38	2.18	3.68	3.73
02/25/10 09:11	13.85	3451.60	428.49			12.05	2.32	0.53	0.26			2.46	2.27	3.81	3.22
02/25/10 09:12	13.87	3448.70	413.54			11.02	2.08	1.21	0.31			2.50	2.30	3.45	3.13
02/25/10 09:13	13.88	3270.60	383.89			10.53	1.80	0.67	0.08			2.49	2.33	3.69	3.68
02/25/10 09:14	13.90	3220.10	400.73			10.11	1.68	1.21	0.08			2.50	2.38	3.43	3.70
02/25/10 09:15	13.92	3903.20	417.72			8.34	1.89	2.00	0.26			2.67	2.34	3.29	3.21
02/25/10 09:16	13.93	3027.10	379.08			10.47	2.50	0.63	0.09			2.46	2.18	3.68	3.62
02/25/10 09:17	13.95	3741.60	389.33			14.30	2.48	0.58	0.22			2.42	2.20	3.81	3.25
02/25/10 09:18	13.97	4054.40	457.75			8.89	2.57	0.49	0.09			2.66	2.25	3.92	3.71
02/25/10 09:19	13.98	4072.20	439.82			9.02	2.23	0.63	0.04			2.65	2.29	3.81	4.04
02/25/10 09:20	14.00	3951.60	517.32			8.95	2.77	0.49				2.64	2.27	3.91	
02/25/10 09:21	14.02	3675.00	428.62			9.73	3.32	0.71	0.17			2.58	2.11	3.71	3.40
02/25/10 09:22	14.03	3856.10	382.32			9.44	2.96	0.45				2.61	2.11	3.93	
02/25/10 09:23	14.05	3571.20	363.04			8.21	1.83	0.54	0.09			2.64	2.30	3.82	3.61
02/25/10 09:24	14.07	3973.00	381.68			10.81	1.84	0.71	0.08			2.57	2.32	3.75	3.68
02/25/10 09:25	14.08	4267.30	361.94			9.54	2.27	1.03	0.40			2.65	2.20	3.62	2.96
02/25/10 09:26	14.10	4112.30	371.79			9.45	2.60	0.67	0.04			2.64	2.16	3.79	3.97
02/25/10 09:27	14.12	4183.30	473.30			8.07	1.99	0.36	0.09			2.71	2.38	4.07	3.72
02/25/10 09:28	14.13	7267.00	872.80			7.31	2.05	0.49	0.09			3.00	2.63	4.17	3.99
02/25/10 09:29	14.15	4243.20	413.55			9.46	2.38	0.58	0.13			2.65	2.24	3.86	3.50
02/25/10 09:30	14.17	4034.60	383.22			18.80	3.29	1.12	0.31			2.33	2.07	3.56	3.09
02/25/10 09:31	14.18	4024.50	353.92			31.23	10.39	2.13	0.04			2.11	1.53	3.28	3.95
02/25/10 09:32	14.20	3833.70	330.07			63.08	15.74	1.34	0.49			1.78	1.32	3.46	2.83
02/25/10 09:33	14.22	4265.50	389.13					1.43	0.26					3.47	3.18
02/25/10 09:34	14.23	3476.30	350.43			53.64	14.51	0.67	0.17			1.81	1.38	3.72	3.31
02/25/10 09:35	14.25	3594.50	366.62			42.32	11.08	0.53	0.22			1.93	1.52	3.83	3.22
02/25/10 09:36	14.27	3750.90	346.39			36.71	11.12	0.63	0.04			2.01	1.49	3.77	3.94
02/25/10 09:37	14.28	3659.50	397.83			36.30	8.34	0.72				2.00	1.68	3.71	
02/25/10 09:38	14.30	3797.80	360.13			35.42	9.13	0.54	0.04			2.03	1.60	3.85	3.95
02/25/10 09:39	14.32	4233.60	372.49			33.93	8.24	0.58	0.04			2.10	1.66	3.86	3.97
02/25/10 09:40	14.33	4029.90	355.68			23.52	6.99	1.21	0.22			2.23	1.71	3.52	3.21
02/25/10 09:41	14.35	3625.00	346.42			27.05	5.93	0.49	0.09			2.13	1.77	3.87	3.59
02/25/10 09:42	14.37	4093.10	337.08			23.60	4.73	0.18	0.04			2.24	1.85	4.36	3.93
02/25/10 09:43	14.38	3711.40	358.49			19.25	4.17	0.31	0.09			2.29	1.93	4.08	3.60
02/25/10 09:44	14.40	3694.20	378.09			21.28	4.31	0.45	0.09			2.24	1.94	3.91	3.62
02/25/10 09:45	14.42	3482.90	352.27			16.86	4.00	0.31	0.04			2.32	1.94	4.05	3.94
02/25/10 09:46	14.43	3663.10	346.38			13.60	3.09	0.45				2.43	2.05	3.91	
02/25/10 09:47	14.45	3323.00	350.56			14.62	3.85	0.40				2.36	1.96	3.92	
02/25/10 09:48	14.47	3866.20	361.47			12.76	2.70	0.58				2.48	2.13	3.82	
02/25/10 09:49	14.48	3691.50	356.20			9.96	2.78	0.18	0.04			2.57	2.11	4.31	3.95

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 09:50	14.50	3691.50	356.20			10.99	2.82	0.36	0.04			2.53	2.10	4.01	3.95
02/25/10 09:51	14.52	3596.10	363.45			11.23	2.71	0.22				2.51	2.13	4.21	
02/25/10 09:52	14.53	3311.90	336.76			11.23	2.71	0.18				2.47	2.09	4.26	
02/25/10 09:53	14.55	2811.00	289.16			7.46	2.09	0.22				2.58	2.14	4.11	
02/25/10 09:54	14.57	2811.00	289.16			7.46	2.09	0.45	0.04			2.58	2.14	3.80	3.86
02/25/10 09:55	14.58	3740.70	334.78			5.31	1.55	0.45	0.04			2.85	2.33	3.92	3.92
02/25/10 09:56	14.60	3202.10	293.04			5.53	1.59	0.13	0.04			2.76	2.27	4.39	3.86
02/25/10 09:57	14.62	3303.80	317.66			5.24	1.38	0.13	0.04			2.80	2.36	4.41	3.90
02/25/10 09:58	14.63	3830.10	342.10			5.50	1.34	4.06	0.13			2.84	2.41	2.97	3.42
02/25/10 09:59	14.65	3997.50	351.98			4.44	1.39	0.58	0.04			2.95	2.40	3.84	3.94
02/25/10 10:00	14.67	3557.90	345.74			4.46	0.91	0.22	0.04			2.90	2.58	4.21	3.94
02/25/10 10:01	14.68	3842.50	351.89			5.26	0.95	0.22	0.04			2.86	2.57	4.24	3.94
02/25/10 10:02	14.70	3005.40	301.53			4.03	1.13	0.13				2.87	2.43	4.36	
02/25/10 10:03	14.72	3824.10	341.58			3.95	0.74	0.18	0.04			2.99	2.66	4.33	3.93
02/25/10 10:04	14.73	4017.00	331.15			3.52	0.83	0.18	0.04			3.06	2.60	4.35	3.92
02/25/10 10:05	14.75	3904.50	345.38			3.82	0.65	0.13				3.01	2.73	4.48	
02/25/10 10:06	14.77	3710.90	327.22			3.62	0.44			0.09		3.01	2.87		3.56
02/25/10 10:07	14.78	3638.60	387.20			6.61	0.39	0.31	0.04			2.74	3.00	4.07	3.99
02/25/10 10:08	14.80	3209.40	324.77			2.52	0.31	9.02	0.08			3.11	3.02	2.55	3.61
02/25/10 10:09	14.82	3795.30	400.34			2.52	0.31	9.02	0.08			3.18	3.11	2.62	3.70
02/25/10 10:10	14.83	4069.30	320.94			2.35	0.62	0.22	0.04			3.24	2.71	4.27	3.90
02/25/10 10:11	14.85	3606.40	340.04			2.31	0.31	0.13	0.09			3.19	3.04	4.44	3.58
02/25/10 10:12	14.87	4317.00	326.63			2.00	0.44	0.18				3.33	2.87	4.38	
02/25/10 10:13	14.88	4317.00	326.63			2.00	0.44	0.18				3.33	2.87	4.38	
02/25/10 10:14	14.90	4170.00	329.96			2.00	0.48	0.22	0.09			3.32	2.84	4.28	3.56
02/25/10 10:15	14.92	3753.50	312.69			2.27	0.26	0.36				3.22	3.08	4.02	
02/25/10 10:16	14.93	4334.00	339.63			2.09	0.31	0.13	0.09			3.32	3.04	4.52	3.58
02/25/10 10:17	14.95	3724.50	311.65			2.01	0.04	0.13				3.27	3.89	4.46	
02/25/10 10:18	14.97	3704.20	342.34			4.27	0.13	0.31				2.94	3.42	4.08	
02/25/10 10:19	14.98	3291.40	294.69			2.84	0.31	0.04	0.09			3.06	2.98	4.92	3.52
02/25/10 10:20	15.00	3852.70	340.76			2.62	0.26	0.45				3.17	3.12	3.93	
02/25/10 10:21	15.02	4050.20	357.20			2.05	0.31	0.40	0.04			3.30	3.06	4.01	3.95
02/25/10 10:22	15.03	4050.20	357.20			2.05	0.31	0.40	0.04			3.30	3.06	4.01	3.95
02/25/10 10:23	15.05	3804.20	359.62			2.36	0.08	0.13				3.21	3.65	4.47	
02/25/10 10:24	15.07	3161.60	313.13			2.71	0.17	0.18				3.07	3.27	4.24	
02/25/10 10:25	15.08	3718.50	353.16			2.31	0.13	0.18				3.21	3.43	4.32	
02/25/10 10:26	15.10	3151.50	316.68			2.36	0.22	0.22				3.13	3.16	4.16	
02/25/10 10:27	15.12	3599.60	351.16			2.67	0.13	0.09				3.13	3.43	4.60	
02/25/10 10:28	15.13	3323.90	331.68			2.89	0.17	0.27				3.06	3.29	4.09	
02/25/10 10:29	15.15	4222.60	336.26			3.41	0.13	0.22				3.09	3.41	4.28	
02/25/10 10:30	15.17	3584.00	343.18			2.67	0.22	0.45				3.13	3.19	3.90	
02/25/10 10:31	15.18	4144.00	340.74			3.01	0.26	0.13				3.14	3.12	4.50	
02/25/10 10:32	15.20	3787.60	340.03			3.01	0.13	0.22	0.04			3.10	3.42	4.24	3.93
02/25/10 10:33	15.22	3997.00	334.75			3.15	0.17	0.09	0.04			3.10	3.29	4.65	3.92
02/25/10 10:34	15.23	4010.90	354.72			2.88	0.04					3.14	3.95		
02/25/10 10:35	15.25	3854.40	350.11			6.95	0.26	0.40				2.74	3.13	3.98	
02/25/10 10:36	15.27	3302.20	330.80			6.95	0.26	0.04	0.04			2.68	3.10	4.92	3.92
02/25/10 10:37	15.28	4185.20	342.84			4.74	0.30	0.36				2.95	3.06	4.07	
02/25/10 10:38	15.30	3374.80	354.20			5.81	0.17	0.09				2.76	3.32	4.57	
02/25/10 10:39	15.32	3374.80	354.20			5.81	0.17	0.09				2.76	3.32	4.57	

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 10:40	15.33	3862.00	390.75			4.83	0.17	0.18	0.09			2.90	3.36	4.33	3.64
02/25/10 10:41	15.35	3767.20	357.49			9.05	0.30	0.18				2.62	3.08	4.32	
02/25/10 10:42	15.37	3918.50	346.47			5.01	0.21	0.27				2.89	3.22	4.16	
02/25/10 10:43	15.38	3580.20	345.62			6.98	0.60	0.27				2.71	2.76	4.12	
02/25/10 10:44	15.40	4036.50	347.23			8.19	0.56	0.40				2.69	2.79	4.00	
02/25/10 10:45	15.42	4036.50	347.23			8.19	0.56	0.40				2.69	2.79	4.00	
02/25/10 10:46	15.43	4178.90	367.12			8.16	0.38	0.09	0.04			2.71	2.99	4.67	3.96
02/25/10 10:47	15.45	4149.40	352.33			7.53	0.51	0.09				2.74	2.84	4.66	
02/25/10 10:48	15.47	4388.30	346.43			9.95	0.42	0.18				2.64	2.92	4.39	
02/25/10 10:49	15.48	3958.70	372.66			9.59	0.34	0.18				2.62	3.04	4.34	
02/25/10 10:50	15.50	3810.60	369.35			9.16	0.51	0.18				2.62	2.86	4.33	
02/25/10 10:51	15.52	4343.50	390.07			10.35	0.42	0.18	0.04			2.62	2.97	4.38	3.99
02/25/10 10:52	15.53	4011.90	382.76			12.58	0.58	8.04	0.08			2.50	2.82	2.70	3.68
02/25/10 10:53	15.55	4082.30	365.79			12.69	0.58	0.61				2.51	2.80	3.83	
02/25/10 10:54	15.57	4085.10	378.85			13.28	0.58	0.36				2.49	2.82	4.05	
02/25/10 10:55	15.58	4311.90	364.27			12.96	0.50	0.27	0.04			2.52	2.86	4.20	3.96
02/25/10 10:56	15.60	4273.30	375.23			15.52	0.53	0.22				2.44	2.85	4.29	
02/25/10 10:57	15.62	4125.70	361.68			16.58	0.77	0.09				2.40	2.67	4.66	
02/25/10 10:58	15.63	3847.40	377.17			16.69	0.61	4.88				2.36	2.79	2.90	
02/25/10 10:59	15.65	3787.40	364.53			17.71	0.73	1.30	0.04			2.33	2.70	3.46	3.96
02/25/10 11:00	15.67	3802.90	357.07			18.87	0.89	0.27				2.30	2.60	4.15	
02/25/10 11:01	15.68	4190.60	379.73			20.47	1.28	0.22				2.31	2.47	4.28	
02/25/10 11:02	15.70	4142.60	341.47			20.63	0.76					2.30	2.65		
02/25/10 11:03	15.72	3532.80	360.46			20.23	0.85	0.04	0.04			2.24	2.63	4.95	3.95
02/25/10 11:04	15.73	3675.50	349.12			22.58	0.99	0.04				2.21	2.55	4.96	
02/25/10 11:05	15.75	3826.90	384.05			29.08	1.14					2.12	2.53		
02/25/10 11:06	15.77	3772.00	353.67			27.06	1.50	0.09				2.14	2.37	4.62	
02/25/10 11:07	15.78	3527.10	381.90			28.60	1.37	0.27				2.09	2.45	4.12	
02/25/10 11:08	15.80	3757.80	374.66			28.11	2.02	0.83				2.13	2.27	3.66	
02/25/10 11:09	15.82	4015.90	418.74			30.98	1.69	0.09				2.11	2.39	4.65	
02/25/10 11:10	15.83	3650.30	372.71			31.82	2.12	0.54				2.06	2.25	3.83	
02/25/10 11:11	15.85	3722.80	351.04			34.62	2.13	0.13	0.04			2.03	2.22	4.46	3.94
02/25/10 11:12	15.87	4041.50	386.75			35.91	2.04	0.09				2.05	2.28	4.65	
02/25/10 11:13	15.88	3850.60	349.57			39.36	1.76	0.18				1.99	2.30	4.33	
02/25/10 11:14	15.90	3416.60	328.49			39.72	2.50	0.09	0.04			1.93	2.12	4.58	3.91
02/25/10 11:15	15.92	3687.50	351.51			39.89	2.42	0.09				1.97	2.16	4.61	
02/25/10 11:16	15.93	4031.10	356.79			44.69	2.91	0.52	0.04			1.96	2.09	3.89	3.95
02/25/10 11:17	15.95	3532.90	325.09			45.12	2.80	0.18				1.89	2.06	4.29	
02/25/10 11:18	15.97	3148.80	369.13			52.43	2.91	0.04				1.78	2.10	4.90	
02/25/10 11:19	15.98	4408.80	335.24			51.86	2.89	0.31				1.93	2.06	4.15	
02/25/10 11:20	16.00	3493.20	340.37			76.96	3.11	0.18				1.66	2.04	4.29	
02/25/10 11:21	16.02	4399.20	338.89			61.24	3.33	0.09	0.04			1.86	2.01	4.69	3.93
02/25/10 11:22	16.03	4243.30	361.64			60.18	4.23	0.09				1.85	1.93	4.67	
02/25/10 11:23	16.05	4037.50	338.74			63.94	3.62	0.22				1.80	1.97	4.26	
02/25/10 11:24	16.07	4103.70	356.21			68.65	4.20	0.31				1.78	1.93	4.12	
02/25/10 11:25	16.08	4002.00	564.19			69.12	4.60	0.13				1.76	2.09	4.49	
02/25/10 11:26	16.10	3818.60	376.36			77.28	4.59	0.36				1.69	1.91	4.03	
02/25/10 11:27	16.12	3522.00	349.02			80.76	5.86	0.13				1.64	1.77	4.43	
02/25/10 11:28	16.13	3570.10	351.17			87.05	5.50	0.13				1.61	1.81	4.44	
02/25/10 11:29	16.15	3384.90	342.37			93.64	5.76	0.18				1.56	1.77	4.27	

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 11:30	16.17	3306.30	349.83			93.42	6.68	0.22				1.55	1.72	4.18	
02/25/10 11:31	16.18	3699.10	364.63			92.38	6.31	0.09	0.04			1.60	1.76	4.61	3.96
02/25/10 11:32	16.20	3335.40	325.29			95.14	7.05	0.27				1.54	1.66	4.09	
02/25/10 11:33	16.22	3754.70	343.30			96.01	6.65	3.28				1.59	1.71	3.06	
02/25/10 11:34	16.23	4211.80	357.73			103.11	7.69	0.27				1.61	1.67	4.19	
02/25/10 11:35	16.25	4035.50	348.86			108.03	8.11	0.18				1.57	1.63	4.35	
02/25/10 11:36	16.27	3381.20	332.02			122.16	8.63	0.13				1.44	1.59	4.42	
02/25/10 11:37	16.28	3604.60	342.62			115.81	8.61	0.22	0.04			1.49	1.60	4.21	3.93
02/25/10 11:38	16.30	3480.30	359.53			121.92	8.79	0.09				1.46	1.61	4.59	
02/25/10 11:39	16.32	3319.40	350.41			134.77	8.90					1.39	1.60		
02/25/10 11:40	16.33	3636.90	350.32			132.47	10.22		0.04			1.44	1.54		3.94
02/25/10 11:41	16.35	4222.50	373.99			147.13	11.82	0.40	0.09			1.46	1.50	4.02	3.62
02/25/10 11:42	16.37	3790.40	509.58			148.07	11.99	0.18	0.04			1.41	1.63	4.32	4.11
02/25/10 11:43	16.38	4035.10	383.68			159.02	11.19	0.22	0.09			1.40	1.54	4.26	3.63
02/25/10 11:44	16.40	4155.60	405.19			170.73	13.88					1.39	1.47		
02/25/10 11:45	16.42	3687.50	375.70			172.82	12.83	0.27				1.33	1.47	4.14	
02/25/10 11:46	16.43	4038.80	368.47			188.76	14.11	0.31				1.33	1.42	4.11	
02/25/10 11:47	16.45	4381.60	357.14			219.78	14.25		0.09			1.30	1.40		3.60
02/25/10 11:48	16.47	4231.60	385.64			208.62	15.58	0.09	0.04			1.31	1.39	4.67	3.98
02/25/10 11:49	16.48	3199.10	326.38			225.97	16.57	0.18				1.15	1.29	4.25	
02/25/10 11:50	16.50	4092.10	356.10			255.51	17.26	0.27				1.20	1.31	4.18	
02/25/10 11:51	16.52	4092.10	356.10			287.08	18.27	0.18	0.09			1.15	1.29	4.36	3.60
02/25/10 11:52	16.53	4125.00	366.97			287.08	18.27	0.22	0.04			1.16	1.30	4.27	3.96
02/25/10 11:53	16.55	4162.40	381.91			285.69	20.26	0.09				1.16	1.28	4.67	
02/25/10 11:54	16.57	4162.40	381.91			285.69	20.26	0.18				1.16	1.28	4.36	
02/25/10 11:55	16.58	4150.90	372.44			283.69	21.46	0.18				1.17	1.24	4.36	
02/25/10 11:56	16.60	4052.90	367.59			302.68	21.14	0.13				1.13	1.24	4.49	
02/25/10 11:57	16.62	4316.90	388.34			313.01	22.66	4.32				1.14	1.23	3.00	
02/25/10 11:58	16.63	3767.90	362.31			334.58	27.08	0.04				1.05	1.13	4.97	
02/25/10 11:59	16.65					360.04	24.45		0.04						
02/25/10 12:00	16.67	3563.30	371.43			373.87	27.53	0.09	0.04			0.98	1.13	4.60	3.97
02/25/10 12:01	16.68	4146.20	391.23			384.84	26.70					1.03	1.17		
02/25/10 12:02	16.70	4189.80	373.88			414.97	29.05	0.09				1.00	1.11	4.67	
02/25/10 12:03	16.72					418.74	31.10	0.27							
02/25/10 12:04	16.73	4229.90	346.85			418.74	31.10	0.27				1.00	1.05	4.19	
02/25/10 12:05	16.75	4392.00	353.46			421.79	31.44	0.13	0.04			1.02	1.05	4.53	3.95
02/25/10 12:06	16.77	10395.00	1566.90			448.60	31.05	0.31	0.04			1.36	1.70	4.53	4.59
02/25/10 12:07	16.78	10395.00	1566.90			448.60	31.05	0.31	0.04			1.36	1.70	4.53	4.59
02/25/10 12:08	16.80	4230.70	369.60			503.49	35.51	0.31	0.04			0.92	1.02	4.14	3.97
02/25/10 12:09	16.82	4377.80	360.02			494.23	35.47	0.09				0.95	1.01	4.69	
02/25/10 12:10	16.83	4233.00	372.37			522.98	40.75	0.13				0.91	0.96	4.51	
02/25/10 12:11	16.85	3918.50	356.42			548.15	40.45	0.31				0.85	0.95	4.10	
02/25/10 12:12	16.87	3839.10	367.87			543.34	41.84	0.31				0.85	0.94	4.09	
02/25/10 12:13	16.88	3456.60	365.25			587.98	46.08	0.09	0.04			0.77	0.90	4.58	3.96
02/25/10 12:14	16.90	3456.60	365.25			587.98	46.08	0.09	0.04			0.77	0.90	4.58	3.96
02/25/10 12:15	16.92	3435.10	355.91			608.70	47.14					0.75	0.88		
02/25/10 12:16	16.93	3435.60	477.57					0.18						4.28	
02/25/10 12:17	16.95	3284.80	367.92			626.31	47.36	0.04				0.72	0.89	4.91	
02/25/10 12:18	16.97	3477.20	357.85			656.70	45.57	4.62	0.08			0.72	0.90	2.88	3.65
02/25/10 12:19	16.98	3138.50	368.63			696.10	48.60	0.31				0.65	0.88	4.01	

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 12:20	17.00	3217.20	326.95			658.60	47.63	0.31				0.69	0.84	4.02	
02/25/10 12:21	17.02	3643.00	360.41			668.30	49.21	0.04				0.74	0.86	4.96	
02/25/10 12:22	17.03	3351.90	358.88					0.31						4.03	
02/25/10 12:23	17.05	4311.30	369.24			710.20	51.54	0.27				0.78	0.86	4.20	
02/25/10 12:24	17.07	2464.90	314.85			703.10	52.74	0.13				0.54	0.78	4.28	
02/25/10 12:25	17.08	2684.90	340.76			708.70	52.30					0.58	0.81		
02/25/10 12:26	17.10	2914.30	334.32			698.40	52.63	0.22	0.04			0.62	0.80	4.12	3.92
02/25/10 12:27	17.12	2857.90	327.91			738.20	55.98	0.22	0.04			0.59	0.77	4.11	3.91
02/25/10 12:28	17.13	3721.70	333.58			718.60	55.97	0.04				0.71	0.78	4.97	
02/25/10 12:29	17.15	3389.90	356.02			706.50	53.30	0.31	0.13			0.68	0.82	4.04	3.44
02/25/10 12:30	17.17	2906.90	317.58			736.90	51.76	0.04				0.60	0.79	4.86	
02/25/10 12:31	17.18	3287.10	366.02			725.20	53.28	0.36				0.66	0.84	3.96	
02/25/10 12:32	17.20	3287.10	366.02			725.20	53.28	0.22	0.04			0.66	0.84	4.17	3.96
02/25/10 12:33	17.22	3658.90	378.12			736.70	54.54	0.22	0.04			0.70	0.84	4.22	3.98
02/25/10 12:34	17.23	4309.60	383.24			772.80	54.66	0.09				0.75	0.85	4.68	
02/25/10 12:35	17.25	4309.60	383.24			772.80	54.66	0.09	0.04			0.75	0.85	4.68	3.98
02/25/10 12:36	17.27	3263.30	364.78			813.90	57.27		0.04			0.60	0.80		3.96
02/25/10 12:37	17.28	3527.10	366.76			813.90	57.27		0.04			0.64	0.81		3.96
02/25/10 12:38	17.30	3400.70	391.46			820.70	57.75	0.18	0.04			0.62	0.83	4.28	3.99
02/25/10 12:39	17.32	3719.80	371.35			857.60	59.18	0.04	0.04			0.64	0.80	4.97	3.97
02/25/10 12:40	17.33	4192.00	420.62			888.70	62.12	3.76				0.67	0.83	3.05	
02/25/10 12:41	17.35	3892.60	409.03			906.40	62.64					0.63	0.81		
02/25/10 12:42	17.37	3927.40	414.23			903.10	62.99	0.36				0.64	0.82	4.04	
02/25/10 12:43	17.38	4222.20	378.58			911.60	64.87	0.36				0.67	0.77	4.07	
02/25/10 12:44	17.40	4060.90	386.30			936.20	69.08	0.09				0.64	0.75	4.65	
02/25/10 12:45	17.42	3303.70	351.37			972.90	65.44	0.04	0.04			0.53	0.73	4.92	3.94
02/25/10 12:46	17.43	3874.90	369.29			969.30	70.92	0.18				0.60	0.72	4.33	
02/25/10 12:47	17.45	3807.90	364.24			1002.80	73.62	0.13				0.58	0.69	4.47	
02/25/10 12:48	17.47	3381.60	334.65			1043.00	71.88	0.31	0.13			0.51	0.67	4.04	3.41
02/25/10 12:49	17.48	3416.60	371.28			1031.30	75.01	0.04				0.52	0.69	4.93	
02/25/10 12:50	17.50	3437.20	346.83			1031.90	76.48	0.09				0.52	0.66	4.58	
02/25/10 12:51	17.52	3581.30	350.98			1111.70	76.61					0.51	0.66		
02/25/10 12:52	17.53	3638.80	365.13			1151.60	84.36	0.43	0.04			0.50	0.64	3.93	3.96
02/25/10 12:53	17.55	3496.30	381.20			1176.20	82.57	0.09				0.47	0.66	4.59	
02/25/10 12:54	17.57	3620.70	376.17			1172.70	86.10	0.18	0.04			0.49	0.64	4.30	3.97
02/25/10 12:55	17.58	3633.50	355.35			1176.60	88.84	0.31	0.04			0.49	0.60	4.07	3.95
02/25/10 12:56	17.60	3538.10	362.44			1178.90	88.15					0.48	0.61		
02/25/10 12:57	17.62	4106.60	406.52			1185.90	88.53	0.18	0.04			0.54	0.66	4.36	4.01
02/25/10 12:58	17.63	3874.00	401.41			1226.90	88.61	0.18				0.50	0.66	4.33	
02/25/10 12:59	17.65	3337.20	349.90			1208.60	83.68					0.44	0.62		
02/25/10 13:00	17.67	4015.10	390.09			1210.70	85.49	0.09	0.04			0.52	0.66	4.65	3.99
02/25/10 13:01	17.68	4146.00	384.83			1257.00	88.00	0.65				0.52	0.64	3.80	
02/25/10 13:02	17.70	4050.50	428.47			1272.30	91.86	0.13	0.04			0.50	0.67	4.49	4.03
02/25/10 13:03	17.72	3424.80	363.04			1276.70	88.33	0.31				0.43	0.61	4.04	
02/25/10 13:04	17.73	4026.80	385.11			1315.30	93.84	0.04	0.09			0.49	0.61	5.00	3.63
02/25/10 13:05	17.75	3298.20	359.95			1339.50	89.44	0.04				0.39	0.60	4.92	
02/25/10 13:06	17.77	3334.20	373.89			1351.80	96.43	0.09	0.09			0.39	0.59	4.57	3.62
02/25/10 13:07	17.78	3798.30	388.46			1372.10	98.15	0.87	0.04			0.44	0.60	3.64	3.99
02/25/10 13:08	17.80	3204.10	353.32			1358.10	97.36	0.18				0.37	0.56	4.25	
02/25/10 13:09	17.82	3610.70	373.21			1382.50	97.16	0.13				0.42	0.58	4.44	

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 13:10	17.83	4075.20	369.97			1418.10	99.29	0.09				0.46	0.57	4.66	
02/25/10 13:11	17.85	4154.00	458.13			1401.10	96.20	0.22	0.04			0.47	0.68	4.28	4.06
02/25/10 13:12	17.87	4323.00	390.31			1382.60	96.87	0.04				0.50	0.61	5.03	
02/25/10 13:13	17.88	3717.20	375.07			1374.70	101.79	0.78	0.04			0.43	0.57	3.68	3.97
02/25/10 13:14	17.90	4054.70	386.58			1394.90	91.55	0.22				0.46	0.63	4.27	
02/25/10 13:15	17.92	3329.80	348.49			1452.30	101.46	0.09				0.36	0.54	4.57	
02/25/10 13:16	17.93	4103.80	439.80			1478.60	99.59	0.31				0.44	0.65	4.12	
02/25/10 13:17	17.95	4073.50	380.22			1484.00	102.11	0.09				0.44	0.57	4.66	
02/25/10 13:18	17.97	3511.20	350.00			1481.40	102.37	8.49				0.37	0.53	2.62	
02/25/10 13:19	17.98	3506.10	375.57			1483.30	98.42	0.36	0.09			0.37	0.58	3.99	3.62
02/25/10 13:20	18.00	4181.60	389.35			1478.30	108.13	0.61				0.45	0.56	3.84	
02/25/10 13:21	18.02	4273.30	379.23			1522.80	103.94					0.45	0.56		
02/25/10 13:22	18.03	4311.30	492.30			1509.80	99.57	0.09				0.46	0.69	4.68	
02/25/10 13:23	18.05	3788.20	382.83			1542.40	107.35	0.27	0.04			0.39	0.55	4.15	3.98
02/25/10 13:24	18.07	3883.20	407.87			1529.40	112.92	0.18	0.04			0.40	0.56	4.33	4.01
02/25/10 13:25	18.08	4210.40	407.58			1568.90	114.43	0.22				0.43	0.55	4.28	
02/25/10 13:26	18.10	3703.10	383.33			1637.80	118.99	0.27				0.35	0.51	4.14	
02/25/10 13:27	18.12	4277.30	388.13			1580.70	113.80	0.22				0.43	0.53	4.29	
02/25/10 13:28	18.13	4247.70	411.44			1556.90	112.30	0.22	0.04			0.44	0.56	4.29	4.01
02/25/10 13:29	18.15	4216.00	380.85			1622.00	114.64	0.09				0.41	0.52	4.67	
02/25/10 13:30	18.17	4262.80	402.63			1630.80	111.82	0.31				0.42	0.56	4.14	
02/25/10 13:31	18.18	4104.30	391.18			1693.80	117.06	0.31				0.38	0.52	4.12	
02/25/10 13:32	18.20	3962.00	444.98			1744.60	114.98	0.04	0.04			0.36	0.59	5.00	4.05
02/25/10 13:33	18.22	3408.90	360.32			1758.20	119.77	0.31				0.29	0.48	4.04	
02/25/10 13:34	18.23	3573.30	358.63			1776.50	120.77	0.04				0.30	0.47	4.95	
02/25/10 13:35	18.25	3421.00	366.49			1831.00	119.52	0.22				0.27	0.49	4.19	
02/25/10 13:36	18.27	3516.20	351.90			1852.30	127.43	0.09				0.28	0.44	4.59	
02/25/10 13:37	18.28	3740.50	405.92			1905.20	130.20	0.18				0.29	0.49	4.32	
02/25/10 13:38	18.30	3658.30	398.53			1850.10	121.59	0.31				0.30	0.52	4.07	
02/25/10 13:39	18.32	4310.60	407.14			1792.60	120.27	0.13	0.04			0.38	0.53	4.52	4.01
02/25/10 13:40	18.33	3188.70	349.06			1804.30	122.70					0.25	0.45		
02/25/10 13:41	18.35	3572.50	377.26			1841.40	106.89	0.13				0.29	0.55	4.44	
02/25/10 13:42	18.37	3962.90	395.34			1887.30	110.41					0.32	0.55		
02/25/10 13:43	18.38	3946.90	386.46			1865.10	107.22	0.04				0.33	0.56	4.99	
02/25/10 13:44	18.40	3824.20	383.83			1910.40	105.70					0.30	0.56		
02/25/10 13:45	18.42	4227.00	471.34			1906.30	104.24	0.18				0.35	0.66	4.37	
02/25/10 13:46	18.43	4247.70	399.90			1904.00	106.01	0.18				0.35	0.58	4.37	
02/25/10 13:47	18.45	4058.70	401.73			1959.50	113.21					0.32	0.55		
02/25/10 13:48	18.47	3963.40	376.89			1939.50	106.38	0.27				0.31	0.55	4.17	
02/25/10 13:49	18.48	4347.40	379.44			1949.20	109.00	0.22				0.35	0.54	4.30	
02/25/10 13:50	18.50	4347.40	379.44			1984.20	104.19	0.22				0.34	0.56	4.30	
02/25/10 13:51	18.52	4279.00	392.31					0.13						4.52	
02/25/10 13:52	18.53	4306.80	373.36			1958.40	110.38	0.13				0.34	0.53	4.52	
02/25/10 13:53	18.55	4149.00	381.89			2028.80	110.38	0.27				0.31	0.54	4.19	
02/25/10 13:54	18.57	3844.70	545.17			2130.60	112.35	0.18				0.26	0.69	4.33	
02/25/10 13:55	18.58	3836.80	385.76			2132.60	110.81					0.26	0.54		
02/25/10 13:56	18.60	3531.90	392.78			2260.60	130.33	0.04				0.19	0.48	4.95	
02/25/10 13:57	18.62	3659.00	376.38			2260.60	130.33	0.04				0.21	0.46	4.96	
02/25/10 13:58	18.63	3151.70	354.73			2240.40	117.21	0.04				0.15	0.48	4.90	
02/25/10 13:59	18.65	3151.70	354.73			2240.40	117.21	0.04				0.15	0.48	4.90	

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 14:00	18.67	3549.20	375.88			2258.50	127.19	0.04				0.20	0.47	4.95	
02/25/10 14:01	18.68					2237.70	126.21	0.04	0.09						
02/25/10 14:02	18.70	4176.30	402.10			2232.70	128.25	0.04				0.27	0.50	5.02	
02/25/10 14:03	18.72	3664.50	382.94			2259.60	122.93	0.09				0.21	0.49	4.61	
02/25/10 14:04	18.73	4267.90	453.55			2177.90	127.81	0.27	0.04			0.29	0.55	4.20	4.05
02/25/10 14:05	18.75	4229.40	391.79			2198.90	125.84	0.22				0.28	0.49	4.28	
02/25/10 14:06	18.77	3801.90	370.58			2207.50	130.51	0.09				0.24	0.45	4.63	
02/25/10 14:07	18.78	4021.60	405.95			2283.90	124.45	0.04				0.25	0.51	5.00	
02/25/10 14:08	18.80	4316.10	375.02			2295.70	125.70					0.27	0.47		
02/25/10 14:09	18.82	4261.90	414.11			2304.10	127.35	0.13	0.04			0.27	0.51	4.52	4.02
02/25/10 14:10	18.83	4261.90	414.11			2322.30	130.14	0.13	0.04			0.26	0.50	4.52	4.02
02/25/10 14:11	18.85	3591.20	405.32			2257.60	118.28	0.31				0.20	0.53	4.06	
02/25/10 14:12	18.87	3619.00	370.06			2356.60	129.22	3.85				0.19	0.46	2.97	
02/25/10 14:13	18.88					2451.60	129.74	0.22	0.04						
02/25/10 14:14	18.90	3905.90	378.83			2488.80	128.14	0.22	0.04			0.20	0.47	4.25	3.98
02/25/10 14:15	18.92	3626.90	350.41			2531.40	140.63					0.16	0.40		
02/25/10 14:16	18.93	4082.30	405.77			2490.80	137.14					0.21	0.47		
02/25/10 14:17	18.95	3602.10	379.64			2498.80	139.91	0.31				0.16	0.43	4.07	
02/25/10 14:18	18.97	3737.50	371.29			2515.40	140.14		0.04			0.17	0.42		3.97
02/25/10 14:19	18.98	3685.30	364.01			2407.70	126.96		0.04			0.18	0.46		3.96
02/25/10 14:20	19.00	4155.00	381.52			2504.10	131.25	0.22				0.22	0.46	4.28	
02/25/10 14:21	19.02	3842.90	382.04			2542.40	138.71					0.18	0.44		
02/25/10 14:22	19.03	4103.00	417.83			2579.00	132.64	0.04	0.04			0.20	0.50	5.01	4.02
02/25/10 14:23	19.05	4115.50	559.41			2553.60	128.16	0.09				0.21	0.64	4.66	
02/25/10 14:24	19.07	4257.80	452.32			2568.30	129.24	0.09				0.22	0.54	4.67	
02/25/10 14:25	19.08	4244.00	425.93			2585.30	142.48	0.45				0.22	0.48	3.97	
02/25/10 14:26	19.10	3663.50	403.52			2623.80	140.90	0.45				0.14	0.46	3.91	
02/25/10 14:27	19.12	3599.80	371.77			2636.70	149.38		0.04			0.14	0.40		3.97
02/25/10 14:28	19.13	4019.80	419.36			2682.50	158.13	2.89	0.04			0.18	0.42	3.14	4.02
02/25/10 14:29	19.15	3692.60	382.13			2737.20	151.56	0.04				0.13	0.40	4.97	
02/25/10 14:30	19.17	3887.90	377.03			2759.10	149.74	0.18				0.15	0.40	4.33	
02/25/10 14:31	19.18	3776.80	405.12			2694.40	148.47	3.11				0.15	0.44	3.08	
02/25/10 14:32	19.20	3792.50	372.91			2787.60	140.13	0.04				0.13	0.43	4.98	
02/25/10 14:33	19.22	3515.90	362.61			2798.10	147.75	0.22				0.10	0.39	4.20	
02/25/10 14:34	19.23	3515.90	362.61			2798.10	147.75	0.22				0.10	0.39	4.20	
02/25/10 14:35	19.25	3209.60	347.49			2719.00	157.43	0.04				0.07	0.34	4.90	
02/25/10 14:36	19.27	4047.80	411.31			2740.70	154.84	0.13				0.17	0.42	4.49	
02/25/10 14:37	19.28	4338.70	376.94			2774.50	157.05	0.04				0.19	0.38	5.04	
02/25/10 14:38	19.30	3930.70	387.89			2803.20	149.87	0.22				0.15	0.41	4.25	
02/25/10 14:39	19.32	3797.30	382.33			2810.00	152.97	0.13				0.13	0.40	4.47	
02/25/10 14:40	19.33	3928.70	410.39			2810.00	152.97	0.13				0.15	0.43	4.48	
02/25/10 14:41	19.35	3866.70	404.06			2823.50	155.49	0.09				0.14	0.41	4.63	
02/25/10 14:42	19.37	3993.10	395.85			2869.10	158.72	0.13				0.14	0.40	4.49	
02/25/10 14:43	19.38	3545.40	382.06			2916.70	163.94	0.54				0.08	0.37	3.82	
02/25/10 14:44	19.40	4134.40	407.09			2917.80	156.56	0.09				0.15	0.42	4.66	
02/25/10 14:45	19.42	4163.90	439.42			2850.00	152.94	0.13				0.16	0.46	4.51	
02/25/10 14:46	19.43	2995.40	367.80			2870.60	169.45	0.09	0.04			0.02	0.34	4.52	3.96
02/25/10 14:47	19.45	3688.00	431.36			2997.10	147.23	0.36				0.09	0.47	4.01	
02/25/10 14:48	19.47	3718.70	425.29			3064.00	157.20	0.09				0.08	0.43	4.62	
02/25/10 14:49	19.48	3473.40	382.42			3158.30	167.75	4.58	0.08			0.04	0.36	2.88	3.68

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 14:50	19.50	4155.30	395.01			3203.70	172.29	0.31	0.09			0.11	0.36	4.13	3.64
02/25/10 14:51	19.52	4155.30	395.01			3203.70	172.29	0.31	0.09			0.11	0.36	4.13	3.64
02/25/10 14:52	19.53	3726.80	427.98			3264.00	184.04	0.09				0.06	0.37	4.62	
02/25/10 14:53	19.55	3770.90	384.57			3324.20	186.95	0.22	0.04			0.05	0.31	4.23	3.98
02/25/10 14:54	19.57	3836.40	411.16			3345.80	165.71					0.06	0.39		
02/25/10 14:55	19.58	3554.00	397.40			3299.00	173.44	0.52				0.03	0.36	3.83	
02/25/10 14:56	19.60	3858.50	403.58			3305.70	172.13	0.22				0.07	0.37	4.24	
02/25/10 14:57	19.62	3667.80	443.96			3412.70	185.28	0.18				0.03	0.38	4.31	
02/25/10 14:58	19.63	3673.00	389.91			3386.60	185.02	0.13	0.04			0.04	0.32	4.45	3.99
02/25/10 14:59	19.65	3880.80	450.64			3389.60	180.61	0.22				0.06	0.40	4.25	
02/25/10 15:00	19.67	3813.50	436.03			3388.60	177.54	0.31				0.05	0.39	4.09	
02/25/10 15:01	19.68	3770.00	423.26			3429.60	189.97	0.18				0.04	0.35	4.32	
02/25/10 15:02	19.70	3741.30	398.65			3407.70	188.94	0.18				0.04	0.32	4.32	
02/25/10 15:03	19.72	3661.00	402.43			3447.90	181.27	0.04				0.03	0.35	4.96	
02/25/10 15:04	19.73					3478.10	188.79	0.13							
02/25/10 15:05	19.75	3645.20	401.81			3402.40	182.03	0.22				0.03	0.34	4.22	
02/25/10 15:06	19.77	3704.80	419.42			3500.10	186.84	0.22				0.02	0.35	4.23	
02/25/10 15:07	19.78					3465.30	185.63	0.27							
02/25/10 15:08	19.80	2986.90	344.41			3285.40	181.36	0.91	0.04			-0.04	0.28	3.52	3.94
02/25/10 15:09	19.82	4315.00	408.77			3448.80	188.92	0.27	0.04			0.10	0.34	4.20	4.01
02/25/10 15:10	19.83	3842.20	404.71			3521.90	190.58	0.22				0.04	0.33	4.24	
02/25/10 15:11	19.85	3265.60	400.89			3378.00	185.85	0.04	0.13			-0.01	0.33	4.91	3.49
02/25/10 15:12	19.87	3753.50	397.63			3512.50	190.12	0.45				0.03	0.32	3.92	
02/25/10 15:13	19.88	3396.00	408.40			3524.00	192.50	0.04				-0.02	0.33	4.93	
02/25/10 15:14	19.90	3655.00	387.61			3606.40	182.73	0.27				0.01	0.33	4.13	
02/25/10 15:15	19.92	3929.40	420.85			3560.50	188.13	0.09	0.04			0.04	0.35	4.64	4.02
02/25/10 15:16	19.93	3660.70	420.67			3560.30	197.94	0.22				0.01	0.33	4.22	
02/25/10 15:17	19.95	3422.40	405.51			3423.10	187.06	0.13	0.04			0.00	0.34	4.42	4.01
02/25/10 15:18	19.97	3193.00	371.53			3579.00	189.10	0.13	0.09			-0.05	0.29	4.39	3.62
02/25/10 15:19	19.98	3215.10	379.69			3503.20	179.30	0.13				-0.04	0.33	4.39	
02/25/10 15:20	20.00	3104.30	391.60			3527.50	185.91	0.18	0.04			-0.06	0.32	4.24	3.99
02/25/10 15:21	20.02	3551.70	381.96			3712.40	195.42	0.09				-0.02	0.29	4.60	
02/25/10 15:22	20.03	3995.30	445.28			3731.10	200.76	0.13				0.03	0.35	4.49	
02/25/10 15:23	20.05	3579.40	441.37			3632.70	197.13	0.31				-0.01	0.35	4.06	
02/25/10 15:24	20.07	3304.50	368.80			3674.70	189.76	0.22				-0.05	0.29	4.18	
02/25/10 15:25	20.08	3774.00	437.63			3590.90	188.33	0.22				0.02	0.37	4.23	
02/25/10 15:26	20.10	3413.40	433.92			3663.60	195.86					-0.03	0.35		
02/25/10 15:27	20.12	3451.00	409.02			3696.90	192.18	0.22	0.04			-0.03	0.33	4.20	4.01
02/25/10 15:28	20.13	3895.40	425.36			3667.30	216.24	0.13				0.03	0.29	4.48	
02/25/10 15:29	20.15	3742.50	414.11			3711.90	201.96	0.09				0.00	0.31	4.62	
02/25/10 15:30	20.17	3399.30	406.22			3704.60	208.85	0.13	0.09			-0.04	0.29	4.42	3.65
02/25/10 15:31	20.18	3085.50	381.63			3703.40	205.35	0.36	0.04			-0.08	0.27	3.93	3.98
02/25/10 15:32	20.20	3283.80	990.10			3700.50	206.76	3.32	0.04			-0.05	0.68	3.00	4.39
02/25/10 15:33	20.22	4087.10	497.13			3770.10	216.13	0.22				0.04	0.36	4.27	
02/25/10 15:34	20.23	3844.20	462.32			3697.20	209.23	0.22				0.02	0.34	4.24	
02/25/10 15:35	20.25	3644.20	440.92			3675.20	205.74	0.18				0.00	0.33	4.31	
02/25/10 15:36	20.27	3897.40	448.95			3754.10	206.95	0.18				0.02	0.34	4.34	
02/25/10 15:37	20.28	3754.00	443.31			3722.50	198.19	5.14				0.00	0.35	2.86	
02/25/10 15:38	20.30	3321.20	407.53			3658.60	207.00	0.27				-0.04	0.29	4.09	
02/25/10 15:39	20.32	3560.60	422.01			3696.80	202.23	0.18				-0.02	0.32	4.30	

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 15:40	20.33	3442.90	451.61			3745.90	199.87	0.18				-0.04	0.35	4.28	
02/25/10 15:41	20.35	3024.50	392.93			3760.30	200.48	0.13				-0.09	0.29	4.37	
02/25/10 15:42	20.37	3460.30	417.34			3829.20	198.46	0.09				-0.04	0.32	4.58	
02/25/10 15:43	20.38	3229.80	400.50			3820.70	204.45	0.09				-0.07	0.29	4.55	
02/25/10 15:44	20.40	2951.70	368.61			3873.90	220.14	0.22				-0.12	0.22	4.13	
02/25/10 15:45	20.42	3650.70	448.25			3906.70	206.41	0.18				-0.03	0.34	4.31	
02/25/10 15:46	20.43	4108.60	500.42			3861.40	200.16	0.18	0.04			0.03	0.40	4.36	4.10
02/25/10 15:47	20.45	3436.40	440.05			3793.00	181.89	0.27				-0.04	0.38	4.10	
02/25/10 15:48	20.47	3321.70	410.33			3606.10	205.82	0.09				-0.04	0.30	4.57	
02/25/10 15:49	20.48	3321.70	410.33			3669.00	214.75	0.27				-0.04	0.28	4.09	
02/25/10 15:50	20.50	4145.30	430.37			3669.00	214.75	0.04				0.05	0.30	5.02	
02/25/10 15:51	20.52	4012.70	466.96			3844.70	220.54	0.04				0.02	0.33	5.00	
02/25/10 15:52	20.53	3754.00	430.00			3818.70	221.15	0.09				-0.01	0.29	4.62	
02/25/10 15:53	20.55	3710.40	452.06			3863.10	227.37	0.09				-0.02	0.30	4.62	
02/25/10 15:54	20.57	3143.90	390.87			3771.60	232.49	0.18				-0.08	0.23	4.24	
02/25/10 15:55	20.58	3232.70	371.41			3861.70	226.58	3.89	0.04			-0.08	0.21	2.92	3.97
02/25/10 15:56	20.60	3911.20	436.82			3899.40	229.53	0.18				0.00	0.28	4.34	
02/25/10 15:57	20.62	4227.30	466.33			3923.20	230.18	0.36	0.04			0.03	0.31	4.07	4.07
02/25/10 15:58	20.63	3528.20	402.32			3900.40	230.90	0.13	0.04			-0.04	0.24	4.43	4.00
02/25/10 15:59	20.65	2940.70	380.76			3920.00	223.95	0.18				-0.12	0.23	4.21	
02/25/10 16:00	20.67	3740.20	434.43			3985.90	226.90	0.18				-0.03	0.28	4.32	
02/25/10 16:01	20.68	3740.20	434.43			3985.90	226.90	0.18				-0.03	0.28	4.32	
02/25/10 16:02	20.70	3860.70	484.39			3885.40	219.10	0.36				0.00	0.34	4.03	
02/25/10 16:03	20.72	3937.50	449.36			3938.70	211.34	0.04				0.00	0.33	4.99	
02/25/10 16:04	20.73	3596.50	437.77			3908.10	211.59	0.18				-0.04	0.32	4.30	
02/25/10 16:05	20.75	4065.90	489.87			3965.60	205.57	0.22				0.01	0.38	4.27	
02/25/10 16:06	20.77	3328.30	414.53			3991.10	207.38	0.45				-0.08	0.30	3.87	
02/25/10 16:07	20.78	3869.30	435.11			4019.60	217.58	0.09	0.04			-0.02	0.30	4.63	4.04
02/25/10 16:08	20.80	2829.60	386.77			4094.40	216.99	0.04				-0.16	0.25	4.85	
02/25/10 16:09	20.82	3137.10	408.47			4103.90	215.96	0.45				-0.12	0.28	3.84	
02/25/10 16:10	20.83	3462.50	508.65					0.45						3.89	
02/25/10 16:11	20.85	3080.10	404.35			4003.20	243.54	0.09	0.31			-0.11	0.22	4.53	3.12
02/25/10 16:12	20.87	2788.80	403.10			3996.50	237.62					-0.16	0.23		
02/25/10 16:13	20.88	3624.30	424.84			3987.00	244.03	0.49	0.09			-0.04	0.24	3.87	3.67
02/25/10 16:14	20.90	3100.70	426.66			3986.10	252.55	0.36				-0.11	0.23	3.94	
02/25/10 16:15	20.92	2670.60	381.07			3978.10	230.92	0.13	0.04			-0.17	0.22	4.31	3.98
02/25/10 16:16	20.93	4065.20	455.46			3925.00	247.90	0.09	0.04			0.02	0.26	4.65	4.06
02/25/10 16:17	20.95	3641.10	436.96			3933.10	244.04	0.49	0.04			-0.03	0.25	3.87	4.04
02/25/10 16:18	20.97	3305.90	395.19			3957.80	234.07	0.49	0.04			-0.08	0.23	3.83	3.99
02/25/10 16:19	20.98					3973.00	254.03	0.18							
02/25/10 16:20	21.00	3745.20	593.54			3958.70	241.11	0.27	0.04			-0.02	0.39	4.14	4.17
02/25/10 16:21	21.02	3771.30	490.76			4128.00	229.16					-0.04	0.33		
02/25/10 16:22	21.03	3635.30	464.82			4003.60	257.07	0.18				-0.04	0.26	4.31	
02/25/10 16:23	21.05	3097.20	423.79			4003.60	257.07	0.18				-0.11	0.22	4.24	
02/25/10 16:24	21.07	3174.20	427.35			3977.70	278.41	0.13				-0.10	0.19	4.39	
02/25/10 16:25	21.08	2855.00	386.09			3972.80	282.77					-0.14	0.14		
02/25/10 16:26	21.10	3091.20	402.64			4034.90	272.97	0.18				-0.12	0.17	4.23	
02/25/10 16:27	21.12	2884.90	394.58			3995.30	282.65	0.18	0.09			-0.14	0.14	4.20	3.64
02/25/10 16:28	21.13	3028.40	420.97			3973.00	285.70	0.18	0.09			-0.12	0.17	4.23	3.67
02/25/10 16:29	21.15	3942.80	452.90			3953.30	299.50	0.04				0.00	0.18	4.99	

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 16:30	21.17	2922.30	376.04			3966.80	302.42	0.40				-0.13	0.09	3.86	
02/25/10 16:31	21.18	2676.80	371.72			3966.80	302.42	0.40				-0.17	0.09	3.83	
02/25/10 16:32	21.20	2956.00	398.52			4101.90	234.47	0.09				-0.14	0.23	4.52	
02/25/10 16:33	21.22	2956.00	398.52			4101.90	234.47	0.09				-0.14	0.23	4.52	
02/25/10 16:34	21.23	3029.80	393.76			4098.10	225.20	0.09	0.04			-0.13	0.24	4.53	3.99
02/25/10 16:35	21.25	3258.40	430.51			3971.50	285.00	3.59				-0.09	0.18	2.96	
02/25/10 16:36	21.27	3409.30	431.30			3947.00	277.55	0.36				-0.06	0.19	3.98	
02/25/10 16:37	21.28	3141.50	498.27			3950.50	277.71	0.18				-0.10	0.25	4.24	
02/25/10 16:38	21.30	3141.50	498.27			3950.50	277.71	0.18				-0.10	0.25	4.24	
02/25/10 16:39	21.32	3347.00	424.10			3956.80	281.85	0.40				-0.07	0.18	3.92	
02/25/10 16:40	21.33	3202.40	396.50			3979.30	294.28	3.37	0.08			-0.09	0.13	2.98	3.70
02/25/10 16:41	21.35	3186.60	415.65			3939.00	287.74	0.09				-0.09	0.16	4.55	
02/25/10 16:42	21.37	3096.20	438.13			3985.40	278.99	4.37				-0.11	0.20	2.85	
02/25/10 16:43	21.38	3096.20	438.13			3985.40	278.99	4.37				-0.11	0.20	2.85	
02/25/10 16:44	21.40	3626.50	453.84			3997.00	282.95	0.04	0.09			-0.04	0.21	4.96	3.70
02/25/10 16:45	21.42	3279.50	449.48			4157.60	232.79	0.18				-0.10	0.29	4.26	
02/25/10 16:46	21.43	3156.00	417.47			4157.60	232.79	0.18				-0.12	0.25	4.24	
02/25/10 16:47	21.45	4063.50	447.23			4172.40	229.61	0.49	0.04			-0.01	0.29	3.92	4.05
02/25/10 16:48	21.47	3498.80	442.22			4173.20	233.17	0.49	0.04			-0.08	0.28	3.85	4.04
02/25/10 16:49	21.48	3823.80	469.24			4215.70	223.27	0.40	0.09			-0.04	0.32	3.98	3.72
02/25/10 16:50	21.50	3619.20	457.47			4220.20	218.90	0.36				-0.07	0.32	4.00	
02/25/10 16:51	21.52	3421.90	504.23			4227.30	221.24	0.09				-0.09	0.36	4.58	
02/25/10 16:52	21.53	3513.80	441.55			4192.00	227.87	0.09				-0.08	0.29	4.59	
02/25/10 16:53	21.55	3339.30	439.60			4257.30	225.72	0.36				-0.11	0.29	3.97	
02/25/10 16:54	21.57	3804.20	465.14			4280.60	234.21	0.31				-0.05	0.30	4.09	
02/25/10 16:55	21.58	3151.20	408.66			4273.70	225.77	0.27	0.04			-0.13	0.26	4.07	4.01
02/25/10 16:56	21.60	3226.30	437.20			4288.60	233.06	0.13				-0.12	0.27	4.39	
02/25/10 16:57	21.62	3404.40	429.19			4315.80	223.44	5.62				-0.10	0.28	2.78	
02/25/10 16:58	21.63	3131.80	428.88			4321.60	226.14	0.31				-0.14	0.28	4.00	
02/25/10 16:59	21.65	3002.50	415.25			4276.00	237.05	0.36				-0.15	0.24	3.92	
02/25/10 17:00	21.67	3382.90	464.75			4291.50	229.31	0.27	0.04			-0.10	0.31	4.10	4.07
02/25/10 17:01	21.68	3605.10	479.04			4268.30	230.17					-0.07	0.32		
02/25/10 17:02	21.70	3502.30	461.14			4245.80	231.57	1.17				-0.08	0.30	3.48	
02/25/10 17:03	21.72	3544.80	447.72			4281.20	223.30	0.31	0.04			-0.08	0.30	4.06	4.05
02/25/10 17:04	21.73	3662.40	467.37			4263.90	221.33	0.91				-0.07	0.32	3.60	
02/25/10 17:05	21.75	4062.90	501.77			4198.10	232.15	0.40	0.04			-0.01	0.33	4.01	4.10
02/25/10 17:06	21.77	3071.80	406.49			4313.10	221.64	4.41				-0.15	0.26	2.84	
02/25/10 17:07	21.78	3596.20	441.20			4210.10	227.10	0.18	0.04			-0.07	0.29	4.30	4.04
02/25/10 17:08	21.80	3600.10	450.96			4183.10	228.42	0.78	0.04			-0.07	0.30	3.66	4.05
02/25/10 17:09	21.82	3281.50	426.01			4328.20	223.51	0.40				-0.12	0.28	3.91	
02/25/10 17:10	21.83	3643.00	436.78			4342.40	229.19					-0.08	0.28		
02/25/10 17:11	21.85	3833.60	488.91			4303.00	217.45	3.27	0.04			-0.05	0.35	3.07	4.09
02/25/10 17:12	21.87	3204.10	418.98			4333.80	223.68	0.36				-0.13	0.27	3.95	
02/25/10 17:13	21.88	3813.60	456.96			4306.30	230.72	0.67				-0.05	0.30	3.76	
02/25/10 17:14	21.90	3740.70	512.28					0.09	0.04					4.62	4.11
02/25/10 17:15	21.92	3509.50	445.34			4249.60	224.30	5.14	0.08			-0.08	0.30	2.83	3.75
02/25/10 17:16	21.93	3867.70	490.31			4339.20	213.06	0.74	0.08			-0.05	0.36	3.72	3.79
02/25/10 17:17	21.95	3778.80	469.73			4366.40	224.20	0.36	0.09			-0.06	0.32	4.02	3.72
02/25/10 17:18	21.97					4315.70	229.92	0.63							
02/25/10 17:19	21.98	4040.30	454.29			4280.90	231.69	0.89				-0.03	0.29	3.66	

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 17:20	22.00	4104.80	503.91			4349.40	227.06	0.18				-0.03	0.35	4.36	
02/25/10 17:21	22.02	3709.80	441.56			4376.10	224.78	0.31				-0.07	0.29	4.08	
02/25/10 17:22	22.03	3536.30	448.13			4355.80	227.55	0.76				-0.09	0.29	3.67	
02/25/10 17:23	22.05	3447.50	472.45			4353.90	221.60	0.49				-0.10	0.33	3.85	
02/25/10 17:24	22.07	3281.20	442.88			4377.80	230.22	0.22				-0.13	0.28	4.17	
02/25/10 17:25	22.08	2925.40	422.05			4419.90	224.88	0.67				-0.18	0.27	3.64	
02/25/10 17:26	22.10	3398.00	488.46			4400.50	238.26	0.31				-0.11	0.31	4.04	
02/25/10 17:27	22.12	3680.60	486.69			4394.60	238.59	0.58				-0.08	0.31	3.80	
02/25/10 17:28	22.13	3842.00	456.64			4384.00	234.49	0.80				-0.06	0.29	3.68	
02/25/10 17:29	22.15	3957.10	489.96			4367.70	227.93	0.40				-0.04	0.33	4.00	
02/25/10 17:30	22.17	3947.60	501.90			4381.40	228.19					-0.05	0.34		
02/25/10 17:31	22.18	3763.80	532.03			4370.10	225.08	1.21				-0.06	0.37	3.49	
02/25/10 17:32	22.20	3882.00	479.09			4408.50	226.67	1.52	0.04			-0.06	0.33	3.41	4.08
02/25/10 17:33	22.22	3475.90	436.55			4429.30	225.84	0.72				-0.11	0.29	3.68	
02/25/10 17:34	22.23	3403.10	434.14			4418.80	230.36	0.98				-0.11	0.28	3.54	
02/25/10 17:35	22.25	3663.70	484.72			4422.00	233.43	3.10				-0.08	0.32	3.07	
02/25/10 17:36	22.27	3734.40	482.14			4425.90	237.18	0.36	0.04			-0.07	0.31	4.02	4.08
02/25/10 17:37	22.28	3485.70	478.63			4380.70	261.00	0.27				-0.10	0.26	4.11	
02/25/10 17:38	22.30	3559.20	454.07			4370.70	253.78	0.89				-0.09	0.25	3.60	
02/25/10 17:39	22.32	3736.00	496.65			4326.00	265.41	1.34				-0.06	0.27	3.45	
02/25/10 17:40	22.33	4092.30	489.46			4315.60	273.83	0.18	0.04			-0.02	0.25	4.36	4.09
02/25/10 17:41	22.35	3430.80	467.78			4387.20	239.45	0.58				-0.11	0.29	3.77	
02/25/10 17:42	22.37	3607.30	479.17			4408.40	244.91	0.72				-0.09	0.29	3.70	
02/25/10 17:43	22.38	4004.30	486.54			4392.60	243.09	7.83	0.04			-0.04	0.30	2.71	4.09
02/25/10 17:44	22.40	3845.90	554.23			4414.70	239.36	0.67				-0.06	0.36	3.76	
02/25/10 17:45	22.42	3477.20	451.89			4408.30	231.98	1.65	0.04			-0.10	0.29	3.32	4.05
02/25/10 17:46	22.43	3370.70	444.36			4425.70	226.57	0.85	0.04			-0.12	0.29	3.60	4.05
02/25/10 17:47	22.45	3365.00	453.02			4416.60	247.61	0.63	0.04			-0.12	0.26	3.73	4.05
02/25/10 17:48	22.47	3365.00	453.02			4420.90	239.31	0.54				-0.12	0.28	3.79	
02/25/10 17:49	22.48	3429.10	447.75			4412.20	243.07	0.67	0.04			-0.11	0.27	3.71	4.05
02/25/10 17:50	22.50					4422.80	238.14	1.07							
02/25/10 17:51	22.52	3303.70	407.03			4429.30	234.22	0.63				-0.13	0.24	3.72	
02/25/10 17:52	22.53					4429.30	234.22	0.63							
02/25/10 17:53	22.55	3307.10	453.87			4379.80	239.25	2.54	0.13			-0.12	0.28	3.11	3.54
02/25/10 17:54	22.57	3538.70	454.13			4399.40	230.47	10.11	0.12			-0.09	0.29	2.54	3.58
02/25/10 17:55	22.58	3557.70	494.15			4387.90	229.72	1.16				-0.09	0.33	3.49	
02/25/10 17:56	22.60	3554.90	466.91			4349.40	226.78	1.43				-0.09	0.31	3.40	
02/25/10 17:57	22.62	3521.80	494.99			4359.20	232.28	0.40	0.09			-0.09	0.33	3.94	3.74
02/25/10 17:58	22.63	3373.20	469.99			4369.80	237.57	0.76				-0.11	0.30	3.65	
02/25/10 17:59	22.65	3721.30	505.68			4370.50	233.54	0.58				-0.07	0.34	3.81	
02/25/10 18:00	22.67	3320.50	475.39			4388.50	235.50	8.13	0.08			-0.12	0.31	2.61	3.77
02/25/10 18:01	22.68	3097.00	398.45			4430.50	236.16	0.98	0.13			-0.16	0.23	3.50	3.49
02/25/10 18:02	22.70	3826.20	471.89			4432.90	252.90	0.58				-0.06	0.27	3.82	
02/25/10 18:03	22.72	3826.20	471.89			4432.90	252.90	0.58				-0.06	0.27	3.82	
02/25/10 18:04	22.73	3235.60	484.99			4395.60	251.08	0.67	0.04			-0.13	0.29	3.68	4.08
02/25/10 18:05	22.75	3474.20	500.64			4377.40	245.93	0.67				-0.10	0.31	3.71	
02/25/10 18:06	22.77	3109.70	466.69			4395.20	240.78	4.62	0.17			-0.15	0.29	2.83	3.44
02/25/10 18:07	22.78	3109.70	466.69			4395.20	240.78	4.62	0.17			-0.15	0.29	2.83	3.44
02/25/10 18:08	22.80	4037.50	481.82			4423.80	240.16	0.67	0.04			-0.04	0.30	3.78	4.08
02/25/10 18:09	22.82	4037.50	481.82			4423.80	240.16	0.67	0.04			-0.04	0.30	3.78	4.08

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 18:10	22.83	3401.90	467.10			4427.20	240.07	0.58	0.04			-0.11	0.29	3.77	4.07
02/25/10 18:11	22.85	3700.90	501.08			4429.90	236.74	0.22	0.04			-0.08	0.33	4.23	4.10
02/25/10 18:12	22.87	3391.70	462.95			4409.30	232.71	0.58				-0.11	0.30	3.77	
02/25/10 18:13	22.88	3601.80	547.04			4379.30	259.96	0.58				-0.08	0.32	3.79	
02/25/10 18:14	22.90					4393.40	232.34	0.85							
02/25/10 18:15	22.92	3835.90	495.90			4373.80	245.57	0.63	0.04			-0.06	0.31	3.78	4.09
02/25/10 18:16	22.93	3679.80	506.98			4388.80	241.62	0.63	0.09			-0.08	0.32	3.77	3.75
02/25/10 18:17	22.95	3555.20	480.56			4417.90	241.69	0.89				-0.09	0.30	3.60	
02/25/10 18:18	22.97	3458.70	475.49			4379.20	259.02	0.40				-0.10	0.26	3.94	
02/25/10 18:19	22.98	3488.00	494.87			4411.30	245.42	0.40				-0.10	0.30	3.94	
02/25/10 18:20	23.00	3607.60	470.44			4414.80	246.57	4.19				-0.09	0.28	2.94	
02/25/10 18:21	23.02	3554.30	479.01			4434.20	249.83	0.63	0.04			-0.10	0.28	3.75	4.08
02/25/10 18:22	23.03	3665.60	503.76			4436.70	241.60	0.63	0.09			-0.08	0.32	3.76	3.75
02/25/10 18:23	23.05	3773.60	476.48			4433.40	239.57	0.89	0.04			-0.07	0.30	3.63	4.08
02/25/10 18:24	23.07	3776.40	464.89			4446.80	241.38	0.94	0.04			-0.07	0.28	3.60	4.07
02/25/10 18:25	23.08	3819.60	484.85			4429.50	244.93	0.94	0.08			-0.06	0.30	3.61	3.78
02/25/10 18:26	23.10	3525.10	475.66			4454.60	242.66	0.85				-0.10	0.29	3.62	
02/25/10 18:27	23.12	3575.80	483.34			4468.80	236.25	0.85				-0.10	0.31	3.62	
02/25/10 18:28	23.13	3829.60	483.83			4492.80	225.78	0.98	0.04			-0.07	0.33	3.59	4.08
02/25/10 18:29	23.15	3664.70	481.39			4489.20	243.20	0.58				-0.09	0.30	3.80	
02/25/10 18:30	23.17	4048.70	494.25			4504.80	229.26	4.11				-0.05	0.33	2.99	
02/25/10 18:31	23.18	3556.40	485.68			4487.30	244.56	0.81	0.04			-0.10	0.30	3.64	4.08
02/25/10 18:32	23.20	3555.10	440.50			4498.40	235.86	0.40	0.04			-0.10	0.27	3.95	4.04
02/25/10 18:33	23.22	3946.90	522.34			4474.90	247.68	0.94				-0.05	0.32	3.62	
02/25/10 18:34	23.23	3400.30	471.54			4481.80	244.79	0.58	0.04			-0.12	0.28	3.77	4.07
02/25/10 18:35	23.25	3715.90	501.41			4471.80	253.98	0.81				-0.08	0.30	3.66	
02/25/10 18:36	23.27	3666.30	497.83			4484.60	249.89	0.81				-0.09	0.30	3.66	
02/25/10 18:37	23.28	3903.60	567.34			4448.60	254.27	0.85	0.13			-0.06	0.35	3.66	3.64
02/25/10 18:38	23.30	3526.90	482.05			4456.70	255.71	3.98	0.08			-0.10	0.28	2.95	3.78
02/25/10 18:39	23.32	4058.80	521.36			4495.70	241.32	0.54	0.04			-0.04	0.33	3.88	4.12
02/25/10 18:40	23.33	3962.90	526.62			4476.00	244.24	0.49	0.04			-0.05	0.33	3.91	4.12
02/25/10 18:41	23.35	3879.00	542.74			4486.10	241.30	1.43	0.08			-0.06	0.35	3.43	3.83
02/25/10 18:42	23.37	4029.30	520.73			4487.60	240.32	1.39	0.04			-0.05	0.34	3.46	4.11
02/25/10 18:43	23.38	3717.60	485.30			4503.80	236.33	0.85	0.17			-0.08	0.31	3.64	3.46
02/25/10 18:44	23.40	3508.50	474.49			4504.90	236.33	0.98	0.04			-0.11	0.30	3.55	4.07
02/25/10 18:45	23.42	3535.30	481.52			4520.20	233.90	1.34	0.04			-0.11	0.31	3.42	4.08
02/25/10 18:46	23.43	3727.00	506.04			4507.10	239.01	1.16	0.08			-0.08	0.33	3.51	3.80
02/25/10 18:47	23.45	5637.60	3034.40			4524.60	235.75	1.16	0.08			0.10	1.11	3.69	4.58
02/25/10 18:48	23.47	3860.90	590.03			4528.50	233.67	1.39	0.04			-0.07	0.40	3.44	4.17
02/25/10 18:49	23.48					4485.20	251.09	1.34	0.17						
02/25/10 18:50	23.50	3560.30	620.24			4485.20	251.09	1.34	0.17			-0.10	0.39	3.42	3.56
02/25/10 18:51	23.52	3629.20	486.80			4494.90	253.63	0.76	0.04			-0.09	0.28	3.68	4.09
02/25/10 18:52	23.53	3471.60	514.17			4443.30	274.38	0.98				-0.11	0.27	3.55	
02/25/10 18:53	23.55	3391.40	479.18			4467.50	278.85	2.10	0.04			-0.12	0.24	3.21	4.08
02/25/10 18:54	23.57	3511.70	467.88			4448.00	282.98	1.21	0.04			-0.10	0.22	3.46	4.07
02/25/10 18:55	23.58	3602.90	517.48			4469.70	270.27	1.65	0.13			-0.09	0.28	3.34	3.60
02/25/10 18:56	23.60	3464.30	476.17			4456.90	265.11	5.24				-0.11	0.25	2.82	
02/25/10 18:57	23.62	3933.50	515.09			4477.70	258.39	1.43	0.31			-0.06	0.30	3.44	3.22
02/25/10 18:58	23.63	3927.00	490.38			4500.40	243.60	1.83	0.17			-0.06	0.30	3.33	3.46
02/25/10 18:59	23.65	3474.70	517.91			4499.00	249.50	6.37	0.13			-0.11	0.32	2.74	3.60

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 19:00	23.67	3383.40	487.78			4468.60	260.30	1.47	0.04			-0.12	0.27	3.36	4.09
02/25/10 19:01	23.68	3579.80	501.26			4478.30	261.09	2.36	0.04			-0.10	0.28	3.18	4.10
02/25/10 19:02	23.70	3558.50	493.62			4493.60	258.87	1.79	0.13			-0.10	0.28	3.30	3.58
02/25/10 19:03	23.72	3184.50	439.26			4486.80	256.95	1.83	0.04			-0.15	0.23	3.24	4.04
02/25/10 19:04	23.73	3152.30	443.89			4509.30	246.61	2.75	0.31			-0.16	0.26	3.06	3.16
02/25/10 19:05	23.75	3440.40	552.99			4523.00	241.58	1.43	0.04			-0.12	0.36	3.38	4.14
02/25/10 19:06	23.77	4018.90	534.79			4515.60	236.51	2.23	0.13			-0.05	0.35	3.26	3.61
02/25/10 19:07	23.78	3776.30	540.90			4481.40	256.98	2.09	0.13			-0.07	0.32	3.26	3.62
02/25/10 19:08	23.80	3739.80	501.49			4434.10	263.69	2.84	0.13			-0.07	0.28	3.12	3.59
02/25/10 19:09	23.82					4461.70	260.09	2.42	0.17						
02/25/10 19:10	23.83	3713.10	511.40			4470.30	256.71	2.40	0.22			-0.08	0.30	3.19	3.37
02/25/10 19:11	23.85	3563.70	471.52			4478.00	260.68	4.01	0.30			-0.10	0.26	2.95	3.20
02/25/10 19:12	23.87	3905.20	488.85			4459.90	257.36	7.16	0.17			-0.06	0.28	2.74	3.46
02/25/10 19:13	23.88	3314.40	472.51			4486.30	254.77	2.44	0.31			-0.13	0.27	3.13	3.18
02/25/10 19:14	23.90	3646.50	478.31			4493.60	244.84	3.11	0.17			-0.09	0.29	3.07	3.45
02/25/10 19:15	23.92	3896.10	483.68			4501.20	247.94	3.54	0.26			-0.06	0.29	3.04	3.27
02/25/10 19:16	23.93	3920.20	496.77			4462.90	278.27	3.93	0.26			-0.06	0.25	3.00	3.28
02/25/10 19:17	23.95	3651.00	478.60			4494.00	259.54	3.36	0.35			-0.09	0.27	3.04	3.14
02/25/10 19:18	23.97	3630.10	495.80			4494.50	254.28	2.88	0.39			-0.09	0.29	3.10	3.10
02/25/10 19:19	23.98	3264.90	445.52			4491.50	248.17	2.80	0.08			-0.14	0.25	3.07	3.75
02/25/10 19:20	24.00	3424.10	451.64			4529.90	241.75	2.93	0.13			-0.12	0.27	3.07	3.54
02/25/10 19:21	24.02	3704.30	484.91			4523.20	242.80	4.23	0.26			-0.09	0.30	2.94	3.27
02/25/10 19:22	24.03	4000.50	486.85			4524.00	248.15	3.06	0.48			-0.05	0.29	3.12	3.01
02/25/10 19:23	24.05	3791.90	448.57			4522.30	248.18	3.45	0.48			-0.08	0.26	3.04	2.97
02/25/10 19:24	24.07	3852.90	496.64			4456.80	280.67	4.23	0.22			-0.06	0.25	2.96	3.35
02/25/10 19:25	24.08	3529.40	472.45			4459.70	280.98	4.92	0.39			-0.10	0.23	2.86	3.08
02/25/10 19:26	24.10	3536.30	496.14			4462.30	279.53	5.30	0.30			-0.10	0.25	2.82	3.22
02/25/10 19:27	24.12	4209.10	470.54			4477.70	274.88	4.57	0.39			-0.03	0.23	2.96	3.08
02/25/10 19:28	24.13	3732.00	474.26			4479.30	265.82	4.61	0.57			-0.08	0.25	2.91	2.92
02/25/10 19:29	24.15	3739.90	480.45			4506.70	248.33	5.24	0.83			-0.08	0.29	2.85	2.76
02/25/10 19:30	24.17	3869.60	508.55			4502.20	248.16	5.39	0.26			-0.07	0.31	2.86	3.29
02/25/10 19:31	24.18	3941.80	474.33			4429.20	293.96	4.96	0.43			-0.05	0.21	2.90	3.04
02/25/10 19:32	24.20	3963.90	484.81			4428.50	296.64	4.61	0.35			-0.05	0.21	2.93	3.14
02/25/10 19:33	24.22	4082.00	511.68			4411.50	307.71	4.92	0.35			-0.03	0.22	2.92	3.16
02/25/10 19:34	24.23	3815.70	475.82			4408.80	308.44	5.72	0.34			-0.06	0.19	2.82	3.15
02/25/10 19:35	24.25	4084.00	484.99			4429.50	300.57	4.86	0.83			-0.04	0.21	2.92	2.77
02/25/10 19:36	24.27	3900.80	493.63			4457.00	287.55	9.84	0.55			-0.06	0.23	2.60	2.95
02/25/10 19:37	24.28	4095.70	502.71			4510.60	249.87	6.22	0.65			-0.04	0.30	2.82	2.89
02/25/10 19:38	24.30	3565.40	465.21			4511.80	253.23	7.45	0.47			-0.10	0.26	2.68	3.00
02/25/10 19:39	24.32	3981.90	468.49			4519.30	251.13	7.76	0.81			-0.05	0.27	2.71	2.76
02/25/10 19:40	24.33	3883.40	492.84			4459.40	295.82	7.53	0.47			-0.06	0.22	2.71	3.02
02/25/10 19:41	24.35	3594.50	476.06			4477.30	284.24	7.77	0.56			-0.10	0.22	2.67	2.93
02/25/10 19:42	24.37	3514.90	460.07			4460.50	292.46	7.47	0.90			-0.10	0.20	2.67	2.71
02/25/10 19:43	24.38	4176.40	490.67			4486.10	279.36	9.26	0.42			-0.03	0.24	2.65	3.07
02/25/10 19:44	24.40	3728.20	482.02					10.21	0.68					2.56	2.85
02/25/10 19:45	24.42	4000.90	485.64			4487.50	273.33	9.35	0.94			-0.05	0.25	2.63	2.71
02/25/10 19:46	24.43	3839.50	486.39			4495.60	270.10	10.80	1.01			-0.07	0.26	2.55	2.68
02/25/10 19:47	24.45	3907.00	502.01			4481.90	278.87	10.40	0.38			-0.06	0.26	2.57	3.12
02/25/10 19:48	24.47	3907.00	502.01			4479.60	277.32	10.33	0.63			-0.06	0.26	2.58	2.90
02/25/10 19:49	24.48	3662.90	499.48			4479.60	277.32	11.50	0.76			-0.09	0.26	2.50	2.82

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 19:50	24.50	3657.30	491.38			4533.70	241.14	11.50	0.76			-0.09	0.31	2.50	2.81
02/25/10 19:51	24.52	3789.80	487.59			4538.80	231.21	12.02	1.09			-0.08	0.32	2.50	2.65
02/25/10 19:52	24.53	3346.30	451.76			4547.30	228.14	10.67	0.93			-0.13	0.30	2.50	2.69
02/25/10 19:53	24.55							11.58	1.26						
02/25/10 19:54	24.57	3904.30	483.60			4488.80	270.30	11.98	1.13			-0.06	0.25	2.51	2.63
02/25/10 19:55	24.58	3882.70	469.43			4469.00	285.94	12.28	0.71			-0.06	0.22	2.50	2.82
02/25/10 19:56	24.60	3830.50	475.83			4494.80	268.44	12.55	1.17			-0.07	0.25	2.48	2.61
02/25/10 19:57	24.62	3783.90	476.32			4550.30	230.20	13.56	0.87			-0.08	0.32	2.45	2.74
02/25/10 19:58	24.63	3783.90	476.32			4550.30	230.20	13.56	0.87			-0.08	0.32	2.45	2.74
02/25/10 19:59	24.65	3967.60	499.27			4543.80	233.47	12.94	1.46			-0.06	0.33	2.49	2.53
02/25/10 20:00	24.67	3859.10	479.78			4543.80	233.47	12.94	1.46			-0.07	0.31	2.47	2.52
02/25/10 20:01	24.68	3605.90	451.30			4523.10	243.82	12.44	1.34			-0.10	0.27	2.46	2.53
02/25/10 20:02	24.70	3746.60	478.93					12.89	1.08					2.46	2.65
02/25/10 20:03	24.72	3738.00	488.67			4484.60	277.77	14.69	1.28			-0.08	0.25	2.41	2.58
02/25/10 20:04	24.73	3221.00	476.96			4484.60	277.77	14.69	1.28			-0.14	0.23	2.34	2.57
02/25/10 20:05	24.75	2687.90	410.10			4480.70	281.27	14.00	1.49			-0.22	0.16	2.28	2.44
02/25/10 20:06	24.77	3146.90	479.84			4458.30	300.64	17.97	1.74			-0.15	0.20	2.24	2.44
02/25/10 20:07	24.78	3349.60	455.72			4469.20	292.37	16.80	1.14			-0.13	0.19	2.30	2.60
02/25/10 20:08	24.80	4102.20	504.06			4468.10	292.32	18.20	1.53			-0.04	0.24	2.35	2.52
02/25/10 20:09	24.82	4102.20	504.06			4468.10	292.32	18.20	1.53			-0.04	0.24	2.35	2.52
02/25/10 20:10	24.83	3494.90	541.67			4488.70	281.60	19.33	1.64			-0.11	0.28	2.26	2.52
02/25/10 20:11	24.85	3378.20	457.55			4464.80	293.15	18.61	1.69			-0.12	0.19	2.26	2.43
02/25/10 20:12	24.87	3496.80	522.02			4480.50	278.27	19.20	1.84			-0.11	0.27	2.26	2.45
02/25/10 20:13	24.88	2819.10	434.27			4482.60	281.76	19.34	1.44			-0.20	0.19	2.16	2.48
02/25/10 20:14	24.90	2952.30	427.46					21.41	1.27					2.14	2.53
02/25/10 20:15	24.92	3582.30	501.59			4481.30	282.82	22.40	1.65			-0.10	0.25	2.20	2.48
02/25/10 20:16	24.93	3444.70	505.05			4479.30	282.37	22.75	1.41			-0.11	0.25	2.18	2.55
02/25/10 20:17	24.95	2948.00	442.25			4477.10	287.24	21.61	2.21			-0.18	0.19	2.13	2.30
02/25/10 20:18	24.97	3179.70	460.41			4486.60	276.78	24.66	2.10			-0.15	0.22	2.11	2.34
02/25/10 20:19	24.98	3353.70	499.08			4469.10	293.23	24.36	1.98			-0.12	0.23	2.14	2.40
02/25/10 20:20	25.00	3079.00	475.66			4473.30	291.23	26.42	2.00			-0.16	0.21	2.07	2.38
02/25/10 20:21	25.02	3553.40	535.06			4454.50	297.75	24.99	2.05			-0.10	0.25	2.15	2.42
02/25/10 20:22	25.03	2960.80	472.89			4505.20	287.58	26.63	2.15			-0.18	0.22	2.05	2.34
02/25/10 20:23	25.05	2960.80	472.89			4505.20	287.58	26.63	2.15			-0.18	0.22	2.05	2.34
02/25/10 20:24	25.07	2652.10	418.63			4518.50	279.83	28.69	1.71			-0.23	0.17	1.97	2.39
02/25/10 20:25	25.08	2982.10	452.34			4534.70	282.41	28.08	2.09			-0.18	0.20	2.03	2.34
02/25/10 20:26	25.10	2988.10	433.46			4539.90	268.25	31.63	2.09			-0.18	0.21	1.98	2.32
02/25/10 20:27	25.12	2921.40	461.11			4592.00	245.00	30.49	2.07			-0.20	0.27	1.98	2.35
02/25/10 20:28	25.13	3263.50	478.02			4524.00	259.66	30.38	2.51			-0.14	0.27	2.03	2.28
02/25/10 20:29	25.15	3263.50	478.02			4524.00	259.66	30.38	2.51			-0.14	0.27	2.03	2.28
02/25/10 20:30	25.17	3403.30	566.62			4510.80	264.83	29.73	2.59			-0.12	0.33	2.06	2.34
02/25/10 20:31	25.18	3020.20	495.48			4528.00	249.08	33.81	2.75			-0.18	0.30	1.95	2.26
02/25/10 20:32	25.20	2666.40	427.64			4519.20	254.33	32.64	2.40			-0.23	0.23	1.91	2.25
02/25/10 20:33	25.22	3047.60	448.53			4515.70	258.56	33.16	2.44			-0.17	0.24	1.96	2.26
02/25/10 20:34	25.23	2808.40	457.88			4512.00	264.58	37.81	2.76			-0.21	0.24	1.87	2.22
02/25/10 20:35	25.25	2503.40	435.61			4547.10	260.33	33.36	2.47			-0.26	0.22	1.88	2.25
02/25/10 20:36	25.27	2579.10	391.60			4508.40	268.08	33.53	2.25			-0.24	0.16	1.89	2.24
02/25/10 20:37	25.28	2996.60	460.63			4565.50	258.91	35.10	2.73			-0.18	0.25	1.93	2.23
02/25/10 20:38	25.30	2914.00	451.53			4526.50	266.91	34.80	3.63			-0.19	0.23	1.92	2.09
02/25/10 20:39	25.32	2529.10	401.29			4560.80	266.50	37.52	2.55			-0.26	0.18	1.83	2.20

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 20:40	25.33	3123.10	482.16			4522.00	241.16	36.39	3.18			-0.16	0.30	1.93	2.18
02/25/10 20:41	25.35	3199.40	477.37			4529.90	244.91	36.58	2.78			-0.15	0.29	1.94	2.23
02/25/10 20:42	25.37	2849.70	456.10			4529.10	254.75	41.20	2.78			-0.20	0.25	1.84	2.22
02/25/10 20:43	25.38	3344.00	501.68			4520.20	244.41	41.60	3.26			-0.13	0.31	1.91	2.19
02/25/10 20:44	25.40	3062.20	472.90			4527.90	248.09	40.63	2.75			-0.17	0.28	1.88	2.24
02/25/10 20:45	25.42	3062.20	472.90			4527.90	248.09	40.63	2.75			-0.17	0.28	1.88	2.24
02/25/10 20:46	25.43	3225.70	480.32			4560.40	245.41	39.94	2.45			-0.15	0.29	1.91	2.29
02/25/10 20:47	25.45	3368.50	572.19			4560.40	245.41	39.94	2.45			-0.13	0.37	1.93	2.37
02/25/10 20:48	25.47	3602.80	535.49			4517.80	251.00	41.55	3.79			-0.10	0.33	1.94	2.15
02/25/10 20:49	25.48	3405.70	585.13			4515.80	259.42	42.82	3.59			-0.12	0.35	1.90	2.21
02/25/10 20:50	25.50	3280.00	543.85			4570.20	264.25	44.61	3.08			-0.14	0.31	1.87	2.25
02/25/10 20:51	25.52	3103.10	498.70					45.96	3.46					1.83	2.16
02/25/10 20:52	25.53	3116.70	514.48			4548.50	249.16	48.45	3.63			-0.16	0.31	1.81	2.15
02/25/10 20:53	25.55	2836.10	454.04			4537.70	249.91	48.75	3.52			-0.20	0.26	1.76	2.11
02/25/10 20:54	25.57	3259.60	491.68			4526.00	250.91	50.43	3.79			-0.14	0.29	1.81	2.11
02/25/10 20:55	25.58	2859.90	478.24			4514.50	261.12	50.55	4.16			-0.20	0.26	1.75	2.06
02/25/10 20:56	25.60	3218.80	496.47			4551.40	259.00	49.68	3.84			-0.15	0.28	1.81	2.11
02/25/10 20:57	25.62	3261.00	520.41			4548.80	255.83	52.50	3.63			-0.14	0.31	1.79	2.16
02/25/10 20:58	25.63	2996.40	465.35			4541.50	266.66	52.75	3.49			-0.18	0.24	1.75	2.12
02/25/10 20:59	25.65	2915.40	447.87			4508.20	257.75	53.31	4.82			-0.19	0.24	1.74	1.97
02/25/10 21:00	25.67	2801.70	438.59			4504.10	270.27	55.18	3.94			-0.21	0.21	1.71	2.05
02/25/10 21:01	25.68	3414.90	461.68			4514.60	260.61	57.10	3.92			-0.12	0.25	1.78	2.07
02/25/10 21:02	25.70	3635.00	750.80			4502.70	269.98	56.93	4.18			-0.09	0.44	1.81	2.25
02/25/10 21:03	25.72	3645.60	581.14			4511.90	260.68	57.98	4.40			-0.09	0.35	1.80	2.12
02/25/10 21:04	25.73	3973.00	525.63			4515.60	260.87	57.93	4.42			-0.06	0.30	1.84	2.08
02/25/10 21:05	25.75	3614.40	612.71			4518.00	257.22	59.60	4.27			-0.10	0.38	1.78	2.16
02/25/10 21:06	25.77	3270.20	527.46			4516.20	259.58	59.03	5.11			-0.14	0.31	1.74	2.01
02/25/10 21:07	25.78	3103.30	506.41			4507.30	265.60	59.92	4.01			-0.16	0.28	1.71	2.10
02/25/10 21:08	25.80	3209.00	468.04			4488.20	267.42	60.19	4.13			-0.15	0.24	1.73	2.05
02/25/10 21:09	25.82	3165.80	498.00			4587.00	255.25	61.95	4.23			-0.16	0.29	1.71	2.07
02/25/10 21:10	25.83	3177.40	498.56			4545.90	269.50	68.12	4.95			-0.16	0.27	1.67	2.00
02/25/10 21:11	25.85	3044.50	478.76			4582.50	242.00	66.25	5.13			-0.18	0.30	1.66	1.97
02/25/10 21:12	25.87	2841.60	474.08			4484.50	274.11	66.31	4.65			-0.20	0.24	1.63	2.01
02/25/10 21:13	25.88	2892.90	464.04					67.39	5.08					1.63	1.96
02/25/10 21:14	25.90	3293.90	514.44			4510.70	259.33	65.21	5.17			-0.14	0.30	1.70	2.00
02/25/10 21:15	25.92	2866.50	495.19			4503.20	267.12	69.96	4.93			-0.20	0.27	1.61	2.00
02/25/10 21:16	25.93	3027.40	488.92			4505.20	264.33	68.98	5.25			-0.17	0.27	1.64	1.97
02/25/10 21:17	25.95	3155.00	490.82			4497.10	266.08	78.83	5.10			-0.15	0.27	1.60	1.98
02/25/10 21:18	25.97	3018.60	451.12			4505.90	269.75	71.86	4.75			-0.17	0.22	1.62	1.98
02/25/10 21:19	25.98	2684.30	433.68			4501.90	270.41	71.41	4.48			-0.22	0.21	1.58	1.99
02/25/10 21:20	26.00	2657.80	413.35			4531.10	266.00	76.30	5.80			-0.23	0.19	1.54	1.85
02/25/10 21:21	26.02	3365.40	513.10			4502.90	261.58	76.06	5.06			-0.13	0.29	1.65	2.01
02/25/10 21:22	26.03	3499.10	545.61			4524.90	266.91	76.86	5.27			-0.11	0.31	1.66	2.02
02/25/10 21:23	26.05	3553.00	617.82			4536.10	266.91	72.95	5.61			-0.11	0.36	1.69	2.04
02/25/10 21:24	26.07	3849.80	545.33			4511.10	253.75	78.99	5.19			-0.07	0.33	1.69	2.02
02/25/10 21:25	26.08	3674.00	516.86			4571.60	260.00	76.05	5.52			-0.09	0.30	1.68	1.97
02/25/10 21:26	26.10	3564.30	545.47			4511.40	267.16	83.13	5.69			-0.10	0.31	1.63	1.98
02/25/10 21:27	26.12	3025.20	440.17			4502.90	265.75	81.94	5.94			-0.17	0.22	1.57	1.87
02/25/10 21:28	26.13	3186.00	469.37			4541.10	268.25	85.35	7.06			-0.15	0.24	1.57	1.82
02/25/10 21:29	26.15	3505.10	548.98			4512.40	281.08	87.52	6.08			-0.11	0.29	1.60	1.96

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 21:30	26.17	3667.60	522.42			4516.50	276.75	90.51	5.70			-0.09	0.28	1.61	1.96
02/25/10 21:31	26.18	3134.70	500.05			4522.40	281.00	90.08	6.19			-0.16	0.25	1.54	1.91
02/25/10 21:32	26.20	3216.90	497.07			4531.70	263.08	99.77	6.66			-0.15	0.28	1.51	1.87
02/25/10 21:33	26.22	3363.90	506.79			4587.00	272.08	96.00	5.76			-0.13	0.27	1.54	1.94
02/25/10 21:34	26.23	3490.90	537.34			4578.50	268.41	103.91	6.92			-0.12	0.30	1.53	1.89
02/25/10 21:35	26.25	3163.60	488.91			4594.00	269.00	104.06	6.39			-0.16	0.26	1.48	1.88
02/25/10 21:36	26.27	3186.00	570.79			4621.60	269.75	105.36	6.65			-0.16	0.33	1.48	1.93
02/25/10 21:37	26.28	3573.80	613.18			4643.90	265.00	106.35	7.80			-0.11	0.36	1.53	1.90
02/25/10 21:38	26.30	3328.00	544.21			4624.50	273.75	114.11	7.38			-0.14	0.30	1.46	1.87
02/25/10 21:39	26.32	2965.10	513.29			4695.70	258.83	108.02	7.56			-0.20	0.30	1.44	1.83
02/25/10 21:40	26.33	3205.70	508.97			4617.00	271.91	109.93	7.19			-0.16	0.27	1.46	1.85
02/25/10 21:41	26.35	3084.00	475.78			4524.60	278.25	122.36	7.51			-0.17	0.23	1.40	1.80
02/25/10 21:42	26.37	3408.90	535.02			4547.30	285.16	118.40	7.50			-0.13	0.27	1.46	1.85
02/25/10 21:43	26.38	3208.20	509.57			4572.40	276.91	119.83	7.20			-0.15	0.26	1.43	1.85
02/25/10 21:44	26.40	2611.10	426.94			4557.10	284.00	123.88	7.51			-0.24	0.18	1.32	1.75
02/25/10 21:45	26.42	2933.10	464.73			4556.30	270.25	121.44	7.71			-0.19	0.24	1.38	1.78
02/25/10 21:46	26.43	3003.50	479.98			4548.00	275.16	131.34	8.57			-0.18	0.24	1.36	1.75
02/25/10 21:47	26.45	3003.50	479.98			4558.20	267.16	119.85	7.99			-0.18	0.25	1.40	1.78
02/25/10 21:48	26.47	4081.30	495.34			4530.00	272.75	123.99	7.64			-0.05	0.26	1.52	1.81
02/25/10 21:49	26.48	4081.30	495.34			4530.00	272.75	123.99	7.64			-0.05	0.26	1.52	1.81
02/25/10 21:50	26.50	2931.00	503.56			4551.20	264.58	143.48	9.18			-0.19	0.28	1.31	1.74
02/25/10 21:51	26.52	2753.30	440.44			4516.50	258.99	138.33	9.26			-0.21	0.23	1.30	1.68
02/25/10 21:52	26.53	2753.30	440.44			4516.50	258.99	138.33	9.26			-0.21	0.23	1.30	1.68
02/25/10 21:53	26.55	2893.10	481.82			4588.70	252.16	135.08	8.49			-0.20	0.28	1.33	1.75
02/25/10 21:54	26.57	3053.10	500.39			4567.50	249.50	130.25	8.27			-0.17	0.30	1.37	1.78
02/25/10 21:55	26.58	3691.90	534.06			4488.00	275.83	136.64	7.54			-0.08	0.29	1.43	1.85
02/25/10 21:56	26.60	3271.70	492.28			4562.00	256.25	142.18	9.09			-0.14	0.28	1.36	1.73
02/25/10 21:57	26.62	2478.70	406.35			4533.10	265.83	146.74	9.78			-0.26	0.18	1.23	1.62
02/25/10 21:58	26.63	3560.10	498.30			4509.70	271.75	145.95	9.27			-0.10	0.26	1.39	1.73
02/25/10 21:59	26.65	2975.80	464.00			4515.90	272.50	151.55	8.85			-0.18	0.23	1.29	1.72
02/25/10 22:00	26.67	3062.50	465.92			4506.10	277.08	173.02	10.29			-0.17	0.23	1.25	1.66
02/25/10 22:01	26.68	2549.00	425.88			4533.70	274.66	161.24	9.28			-0.25	0.19	1.20	1.66
02/25/10 22:02	26.70	2710.40	444.64			4533.30	266.58	171.26	10.58			-0.22	0.22	1.20	1.62
02/25/10 22:03	26.72	2710.40	444.64			4533.30	266.58	171.26	10.58			-0.22	0.22	1.20	1.62
02/25/10 22:04	26.73	2895.10	475.78			4541.00	286.50	161.08	10.02			-0.20	0.22	1.25	1.68
02/25/10 22:05	26.75	2950.90	497.47			4541.00	286.50	161.08	10.02			-0.19	0.24	1.26	1.70
02/25/10 22:06	26.77	2757.70	444.22			4505.50	301.66					-0.21	0.17		
02/25/10 22:07	26.78	2691.00	412.15			4467.50	314.91	202.64	11.87			-0.22	0.12	1.12	1.54
02/25/10 22:08	26.80	3114.10	481.18			4467.50	314.91					-0.16	0.18		
02/25/10 22:09	26.82	3474.30	532.56			4489.20	304.25	200.95	11.34			-0.11	0.24	1.24	1.67
02/25/10 22:10	26.83	3264.90	476.12			4470.80	296.32	186.31	10.23			-0.14	0.21	1.24	1.67
02/25/10 22:11	26.85	2945.00	472.34			4499.30	303.83	194.90	10.78			-0.18	0.19	1.18	1.64
02/25/10 22:12	26.87	2967.20	455.88			4491.30	297.08	179.99	10.43			-0.18	0.19	1.22	1.64
02/25/10 22:13	26.88	3538.00	518.36			4507.90	308.75	175.58	9.61			-0.11	0.23	1.30	1.73
02/25/10 22:14	26.90	2701.10	461.54					182.11	13.08					1.17	1.55
02/25/10 22:15	26.92	2737.70	459.71			4591.60	283.58	187.92	11.75			-0.22	0.21	1.16	1.59
02/25/10 22:16	26.93	3055.70	482.25			4533.90	270.58	194.76	10.78			-0.17	0.25	1.20	1.65
02/25/10 22:17	26.95	2777.40	485.72			4494.50	310.08	208.82	11.90			-0.21	0.19	1.12	1.61
02/25/10 22:18	26.97	2878.40	456.01					201.12	11.63					1.16	1.59
02/25/10 22:19	26.98	2663.70	437.09			4604.40	301.00	206.09	11.61			-0.24	0.16	1.11	1.58

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 22:20	27.00	2512.40	422.32			4635.90	286.00	227.74	12.69			-0.27	0.17	1.04	1.52
02/25/10 22:21	27.02	3100.90	518.48			4629.00	272.41	233.09	12.01			-0.17	0.28	1.12	1.64
02/25/10 22:22	27.03	3100.90	518.48			4629.00	272.41	233.09	12.01			-0.17	0.28	1.12	1.64
02/25/10 22:23	27.05	2780.00	473.79			4636.10	272.41	223.04	14.62			-0.22	0.24	1.10	1.51
02/25/10 22:24	27.07	2822.20	440.20			4608.60	285.25	226.22	14.08			-0.21	0.19	1.10	1.50
02/25/10 22:25	27.08	2883.40	463.67			4598.00	275.25	226.95	13.81			-0.20	0.23	1.10	1.53
02/25/10 22:26	27.10	2581.80	439.02			4636.10	261.16	232.93	13.54			-0.25	0.23	1.04	1.51
02/25/10 22:27	27.12	2548.00	435.95			4601.10	267.66	230.22	13.87			-0.26	0.21	1.04	1.50
02/25/10 22:28	27.13	2647.60	451.29			4630.00	261.00	224.49	13.17			-0.24	0.24	1.07	1.53
02/25/10 22:29	27.15	3264.40	493.86			4632.00	262.33	245.25	14.71			-0.15	0.27	1.12	1.53
02/25/10 22:30	27.17	2986.60	445.58			4608.70	268.50	250.58	14.74			-0.19	0.22	1.08	1.48
02/25/10 22:31	27.18	2756.70	439.28			4648.20	253.91	252.52	13.81			-0.23	0.24	1.04	1.50
02/25/10 22:32	27.20	2555.30	414.17			4661.90	252.08	253.71	14.03			-0.26	0.22	1.00	1.47
02/25/10 22:33	27.22	2938.20	464.56			4588.20	262.75	260.36	15.94			-0.19	0.25	1.05	1.46
02/25/10 22:34	27.23	2731.10	432.39			4655.80	256.41	270.64	15.65			-0.23	0.23	1.00	1.44
02/25/10 22:35	27.25	2769.80	449.04			4617.30	270.66	273.86	15.05			-0.22	0.22	1.00	1.47
02/25/10 22:36	27.27	2936.60	528.65			4723.90	245.83	273.86	15.05			-0.21	0.33	1.03	1.55
02/25/10 22:37	27.28	3183.40	494.77			4618.60	262.00	274.35	15.25			-0.16	0.28	1.06	1.51
02/25/10 22:38	27.30	2681.10	438.77			4591.20	272.83	287.74	14.80			-0.23	0.21	0.97	1.47
02/25/10 22:39	27.32	3328.30	506.35			4622.40	266.00	290.92	17.40			-0.14	0.28	1.06	1.46
02/25/10 22:40	27.33	2954.10	455.26			4609.40	254.16	302.65	16.65			-0.19	0.25	0.99	1.44
02/25/10 22:41	27.35	2954.10	455.26			4609.40	254.16	302.65	16.65			-0.19	0.25	0.99	1.44
02/25/10 22:42	27.37	3003.70	494.35			4607.10	257.91	301.48	15.48			-0.19	0.28	1.00	1.50
02/25/10 22:43	27.38	3154.30	477.23			4616.20	266.41	314.58	17.14			-0.17	0.25	1.00	1.44
02/25/10 22:44	27.40	3128.60	483.35			4624.80	256.83	293.51	15.71			-0.17	0.27	1.03	1.49
02/25/10 22:45	27.42	2829.60	466.14			4662.10	253.08	298.91	15.28			-0.22	0.27	0.98	1.48
02/25/10 22:46	27.43	2944.10	459.64			4570.60	267.83	296.03	15.68			-0.19	0.23	1.00	1.47
02/25/10 22:47	27.45	3095.10	474.19			4627.50	258.50	306.56	14.79			-0.17	0.26	1.00	1.51
02/25/10 22:48	27.47	2786.00	461.97			4612.00	251.41	292.27	15.85			-0.22	0.26	0.98	1.46
02/25/10 22:49	27.48	2827.60	413.96			4580.50	277.33	331.88	19.59			-0.21	0.17	0.93	1.32
02/25/10 22:50	27.50	2985.40	454.57			4650.20	271.08	334.86	17.79			-0.19	0.22	0.95	1.41
02/25/10 22:51	27.52	3646.50	482.19			4640.00	268.91	323.72	18.63			-0.10	0.25	1.05	1.41
02/25/10 22:52	27.53	3247.20	492.93			4640.90	266.91	345.74	20.55			-0.16	0.27	0.97	1.38
02/25/10 22:53	27.55	2946.80	451.34			4639.50	261.25	332.19	17.91			-0.20	0.24	0.95	1.40
02/25/10 22:54	27.57	3026.30	502.51			4520.60	253.90	352.34	18.73			-0.17	0.30	0.93	1.43
02/25/10 22:55	27.58	2678.70	442.54			4598.80	278.08	379.33	21.16			-0.23	0.20	0.85	1.32
02/25/10 22:56	27.60	2599.50	407.18			4610.90	273.58	381.86	18.34			-0.25	0.17	0.83	1.35
02/25/10 22:57	27.62	3403.20	487.52			4639.00	272.75	363.73	20.09			-0.13	0.25	0.97	1.39
02/25/10 22:58	27.63	3428.10	516.04			4676.00	261.50	363.78	19.54			-0.13	0.30	0.97	1.42
02/25/10 22:59	27.65	2804.50	445.06			4669.60	259.50	383.02	20.17			-0.22	0.23	0.86	1.34
02/25/10 23:00	27.67	2973.90	446.21			4748.00	257.50	403.69	20.14			-0.20	0.24	0.87	1.35
02/25/10 23:01	27.68	3014.80	451.52			4501.20	272.16	398.99	21.99			-0.17	0.22	0.88	1.31
02/25/10 23:02	27.70	3211.70	494.01			4701.20	267.83	408.85	22.05			-0.17	0.27	0.90	1.35
02/25/10 23:03	27.72	3724.10	491.11			4658.50	275.58	425.72	23.91			-0.10	0.25	0.94	1.31
02/25/10 23:04	27.73	3535.60	553.18			4642.50	267.75	408.14	23.18			-0.12	0.32	0.94	1.38
02/25/10 23:05	27.75	3072.90	494.36			4632.00	260.16	409.32	20.31			-0.18	0.28	0.88	1.39
02/25/10 23:06	27.77	2881.50	465.80			4702.00	257.91	428.85	21.51			-0.21	0.26	0.83	1.34
02/25/10 23:07	27.78	3718.50	493.46			4643.80	274.91	437.89	21.05			-0.10	0.25	0.93	1.37
02/25/10 23:08	27.80	3163.80	472.80			4685.40	274.50	428.85	21.15			-0.17	0.24	0.87	1.35
02/25/10 23:09	27.82	3250.90	468.91			4654.20	274.00	419.84	20.98			-0.16	0.23	0.89	1.35

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/25/10 23:10	27.83	3236.70	509.56			4715.00	270.83	438.25	23.45			-0.16	0.27	0.87	1.34
02/25/10 23:11	27.85	3662.50	537.22			4668.80	270.41	451.98	22.78			-0.11	0.30	0.91	1.37
02/25/10 23:12	27.87	3460.30	514.30			4709.80	270.58	462.45	22.93			-0.13	0.28	0.87	1.35
02/25/10 23:13	27.88	4088.10	529.93			4732.80	265.41	432.01	21.61			-0.06	0.30	0.98	1.39
02/25/10 23:14	27.90	3875.40	523.98			4700.60	267.33	469.59	21.77			-0.08	0.29	0.92	1.38
02/25/10 23:15	27.92	3501.00	514.44			4698.00	281.33	497.13	23.55			-0.13	0.26	0.85	1.34
02/25/10 23:16	27.93	3065.90	475.65			4722.00	264.75	501.22	24.17			-0.19	0.25	0.79	1.29
02/25/10 23:17	27.95	2980.20	429.22			4735.20	269.66	515.87	25.09			-0.20	0.20	0.76	1.23
02/25/10 23:18	27.97	3184.60	470.07			4700.10	275.41	520.50	25.71			-0.17	0.23	0.79	1.26
02/25/10 23:19	27.98	3552.50	501.51			4682.00	281.08	543.34	26.10			-0.12	0.25	0.82	1.28
02/25/10 23:20	28.00	3810.40	531.08			4677.50	279.75	516.27	27.07			-0.09	0.28	0.87	1.29
02/25/10 23:21	28.02	2953.10	449.97			4710.30	273.91	520.90	25.13			-0.20	0.22	0.75	1.25
02/25/10 23:22	28.03	3144.60	477.40			4743.80	274.75	543.91	23.64			-0.18	0.24	0.76	1.31
02/25/10 23:23	28.05	3418.50	496.63			4739.80	266.33	537.01	26.12			-0.14	0.27	0.80	1.28
02/25/10 23:24	28.07	2704.40	430.99			4738.50	283.25	563.51	28.30			-0.24	0.18	0.68	1.18
02/25/10 23:25	28.08	3042.00	458.96			4776.10	281.00	563.14	24.48			-0.20	0.21	0.73	1.27
02/25/10 23:26	28.10	3467.00	496.34			4820.60	266.41	570.69	25.05			-0.14	0.27	0.78	1.30
02/25/10 23:27	28.12	3652.80	548.10			4696.10	286.25	579.54	24.50			-0.11	0.28	0.80	1.35
02/25/10 23:28	28.13	2821.90	429.50			4720.30	279.83	574.15	24.74			-0.22	0.19	0.69	1.24
02/25/10 23:29	28.15	2823.30	445.83			4751.10	262.08	600.17	28.68			-0.23	0.23	0.67	1.19
02/25/10 23:30	28.17	2856.90	426.98			4737.90	266.50	605.48	27.30			-0.22	0.20	0.67	1.19
02/25/10 23:31	28.18	3052.00	474.90			4699.80	277.83	558.25	26.13			-0.19	0.23	0.74	1.26
02/25/10 23:32	28.20	3092.50	468.69			4757.50	268.25	562.00	25.05			-0.19	0.24	0.74	1.27
02/25/10 23:33	28.22	2706.40	439.96			4714.70	275.41	565.48	26.46			-0.24	0.20	0.68	1.22
02/25/10 23:34	28.23	3069.00	476.81			4698.00	277.58	592.98	26.57			-0.18	0.23	0.71	1.25
02/25/10 23:35	28.25	3436.20	800.50			4777.00	269.58	574.64	23.81			-0.14	0.47	0.78	1.53
02/25/10 23:36	28.27	3414.10	524.08			4768.00	270.00	590.09	26.54			-0.15	0.29	0.76	1.30
02/25/10 23:37	28.28	3196.60	527.16			4681.80	284.58	593.58	26.57			-0.17	0.27	0.73	1.30
02/25/10 23:38	28.30	3129.20	518.22			4614.60	333.25	609.14	28.63			-0.17	0.19	0.71	1.26
02/25/10 23:39	28.32	2764.30	465.31			4683.90	281.66	589.42	26.48			-0.23	0.22	0.67	1.24
02/25/10 23:40	28.33	3307.10	490.64			4623.00	308.08	599.24	27.18			-0.15	0.20	0.74	1.26
02/25/10 23:41	28.35	2886.90	456.25			4617.30	320.50	618.13	25.57			-0.20	0.15	0.67	1.25
02/25/10 23:42	28.37	4079.00	526.44			4616.20	327.83	608.60	27.43			-0.05	0.21	0.83	1.28
02/25/10 23:43	28.38	3772.50	560.39			4659.50	318.75	605.57	29.54			-0.09	0.25	0.79	1.28
02/25/10 23:44	28.40	3853.30	574.66			4666.80	304.50	601.36	27.21			-0.08	0.28	0.81	1.32
02/25/10 23:45	28.42	3296.00	535.53			4654.60	305.75	639.86	27.27			-0.15	0.24	0.71	1.29
02/25/10 23:46	28.43	3296.00	535.53			4690.40	298.08	643.60	27.71			-0.15	0.25	0.71	1.29
02/25/10 23:47	28.45	3028.90	485.03			4690.40	298.08	653.86	29.73			-0.19	0.21	0.67	1.21
02/25/10 23:48	28.47	3081.10	495.20			4671.30	304.91	653.86	29.73			-0.18	0.21	0.67	1.22
02/25/10 23:49	28.48	2909.20	429.38			4630.30	307.16	664.50	27.95			-0.20	0.15	0.64	1.19
02/25/10 23:50	28.50	2637.20	445.69			4574.40	300.25	652.04	29.91			-0.24	0.17	0.61	1.17
02/25/10 23:51	28.52	2385.50	398.14			4629.00	288.41	635.42	28.85			-0.29	0.14	0.57	1.14
02/25/10 23:52	28.53	2722.60	453.39			4630.10	281.33	649.55	26.96			-0.23	0.21	0.62	1.23
02/25/10 23:53	28.55	2894.00	461.21			4638.00	313.16	670.50	30.04			-0.20	0.17	0.64	1.19
02/25/10 23:54	28.57	3301.50	540.27			4638.00	309.25					-0.15	0.24		
02/25/10 23:55	28.58	3030.30	512.29			4638.00	309.25	685.50	31.19			-0.18	0.22	0.65	1.22
02/25/10 23:56	28.60					4573.10	289.83	678.90	31.39						
02/25/10 23:57	28.62	3745.60	518.99			4579.60	287.33	650.81	31.33			-0.09	0.26	0.76	1.22
02/25/10 23:58	28.63	2330.90	387.38			4633.90	292.75					-0.30	0.12		
02/25/10 23:59	28.65	2957.60	462.24			4613.60	291.75	633.29	30.04			-0.19	0.20	0.67	1.19

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 00:00	28.67	3052.30	457.46			4662.50	289.00	645.19	27.62			-0.18	0.20	0.67	1.22
02/26/10 00:01	28.68	3033.60	457.14			4620.40	284.50	668.80	29.26			-0.18	0.21	0.66	1.19
02/26/10 00:02	28.70	3240.00	475.53			4622.40	280.58	666.60	31.17			-0.15	0.23	0.69	1.18
02/26/10 00:03	28.72	3056.40	473.37			4625.70	267.08	693.50	32.71			-0.18	0.25	0.64	1.16
02/26/10 00:04	28.73	2459.00	399.17			4615.80	276.66	664.90	29.93			-0.27	0.16	0.57	1.13
02/26/10 00:05	28.75					4541.00	293.25	677.20	28.21						
02/26/10 00:06	28.77	2595.50	432.50			4581.10	279.91	664.20	28.26			-0.25	0.19	0.59	1.18
02/26/10 00:07	28.78	2431.10	412.59			4586.50	289.41					-0.28	0.15		
02/26/10 00:08	28.80	2909.60	457.81			4604.60	278.91	682.10	31.06			-0.20	0.22	0.63	1.17
02/26/10 00:09	28.82	2858.70	454.88			4540.60	304.08	685.40	29.75			-0.20	0.17	0.62	1.18
02/26/10 00:10	28.83	2858.70	454.88			4540.60	304.08	685.40	29.75			-0.20	0.17	0.62	1.18
02/26/10 00:11	28.85	2967.20	452.33			4463.10	313.41	679.70	29.20			-0.18	0.16	0.64	1.19
02/26/10 00:12	28.87	2949.70	471.04			4481.90	306.08	688.90	29.23			-0.18	0.19	0.63	1.21
02/26/10 00:13	28.88	2622.10	444.23			4500.30	313.91	723.50	30.22			-0.23	0.15	0.56	1.17
02/26/10 00:14	28.90	2756.80	453.89			4618.00	278.75	703.30	31.86			-0.22	0.21	0.59	1.15
02/26/10 00:15	28.92	3231.90	530.99			4618.00	278.75	703.30	31.86			-0.15	0.28	0.66	1.22
02/26/10 00:16	28.93	3174.70	482.72			4619.30	265.75	726.80	32.52			-0.16	0.26	0.64	1.17
02/26/10 00:17	28.95	3764.90	522.08			4508.00	366.16	744.50	33.28			-0.08	0.15	0.70	1.20
02/26/10 00:18	28.97	3047.90	503.97			4551.00	343.08	734.40	31.75			-0.17	0.17	0.62	1.20
02/26/10 00:19	28.98	3225.30	469.34			4534.50	354.00	730.90	32.14			-0.15	0.12	0.64	1.16
02/26/10 00:20	29.00	3819.00	550.22			4582.50	346.66	723.20	30.63			-0.08	0.20	0.72	1.25
02/26/10 00:21	29.02	3310.20	553.39			4540.50	350.41	739.80	31.84			-0.14	0.20	0.65	1.24
02/26/10 00:22	29.03	3380.20	512.88			4575.50	357.58	731.00	32.35			-0.13	0.16	0.67	1.20
02/26/10 00:23	29.05	2979.70	484.67			4537.20	353.41	741.60	31.91			-0.18	0.14	0.60	1.18
02/26/10 00:24	29.07	2262.50	381.78			4583.00	345.91	778.70	36.84			-0.31	0.04	0.46	1.02
02/26/10 00:25	29.08	3229.20	462.29			4590.80	345.00	790.30	32.23			-0.15	0.13	0.61	1.16
02/26/10 00:26	29.10	3382.50	500.99			4579.40	337.66	804.20	33.04			-0.13	0.17	0.62	1.18
02/26/10 00:27	29.12	3410.80	491.48			4579.40	337.66	804.20	33.04			-0.13	0.16	0.63	1.17
02/26/10 00:28	29.13	3286.70	521.62			4653.30	299.66	833.30	36.17			-0.15	0.24	0.60	1.16
02/26/10 00:29	29.15	3286.70	521.62			4653.30	299.66	833.30	36.17			-0.15	0.24	0.60	1.16
02/26/10 00:30	29.17	3053.30	461.37			4682.90	282.91	803.40	33.78			-0.19	0.21	0.58	1.14
02/26/10 00:31	29.18	3073.70	475.86			4637.40	315.66	837.70	36.11			-0.18	0.18	0.56	1.12
02/26/10 00:32	29.20	3481.70	479.49			4667.30	308.41	839.80	34.99			-0.13	0.19	0.62	1.14
02/26/10 00:33	29.22	3481.70	479.49			4667.30	308.41	860.30	33.88			-0.13	0.19	0.61	1.15
02/26/10 00:34	29.23	3309.40	519.87			4707.50	299.33	860.30	33.88			-0.15	0.24	0.59	1.19
02/26/10 00:35	29.25	3445.20	517.99			4729.80	282.41	855.90	34.05			-0.14	0.26	0.60	1.18
02/26/10 00:36	29.27	3988.20	615.09			4731.90	290.00	843.90	34.73			-0.07	0.33	0.67	1.25
02/26/10 00:37	29.28	2821.50	457.39			4732.50	284.91	865.80	38.15			-0.22	0.21	0.51	1.08
02/26/10 00:38	29.30	3146.40	501.16			4747.10	283.50	849.70	36.75			-0.18	0.25	0.57	1.13
02/26/10 00:39	29.32	3109.70	485.13			4720.30	283.41	849.70	36.75			-0.18	0.23	0.56	1.12
02/26/10 00:40	29.33	3582.20	516.57			4758.40	282.75	874.30	38.15			-0.12	0.26	0.61	1.13
02/26/10 00:41	29.35	3896.10	619.92			4726.50	278.00	896.40	37.54			-0.08	0.35	0.64	1.22
02/26/10 00:42	29.37	2911.90	457.36			4724.50	275.08	895.00	37.50			-0.21	0.22	0.51	1.09
02/26/10 00:43	29.38	2989.40	488.47			4670.80	301.66	911.40	37.86			-0.19	0.21	0.52	1.11
02/26/10 00:44	29.40	3077.40	475.73			4699.50	300.08	898.60	36.34			-0.18	0.20	0.53	1.12
02/26/10 00:45	29.42	2766.00	442.08			4693.60	296.41	908.70	39.12			-0.23	0.17	0.48	1.05
02/26/10 00:46	29.43	3385.60	510.71			4689.00	286.41	895.00	37.57			-0.14	0.25	0.58	1.13
02/26/10 00:47	29.45	3331.90	513.44			4721.80	280.58	892.40	36.70			-0.15	0.26	0.57	1.15
02/26/10 00:48	29.47	3629.60	551.84			4659.30	300.91	892.40	35.44			-0.11	0.26	0.61	1.19
02/26/10 00:49	29.48	3312.60	503.20			4706.00	289.75	905.70	32.60			-0.15	0.24	0.56	1.19

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 00:50	29.50	3108.70	466.63			4727.20	284.83	863.90	35.56			-0.18	0.21	0.56	1.12
02/26/10 00:51	29.52	2982.50	454.22			4549.60	283.33	874.10	35.63			-0.18	0.20	0.53	1.11
02/26/10 00:52	29.53	2905.10	438.38			4773.00	289.41	893.20	39.37			-0.22	0.18	0.51	1.05
02/26/10 00:53	29.55	3065.90	449.19			4600.40	268.50	886.50	36.58			-0.18	0.22	0.54	1.09
02/26/10 00:54	29.57	3070.00	468.15			4805.50	278.66	945.70	38.28			-0.19	0.23	0.51	1.09
02/26/10 00:55	29.58	3133.60	467.21			4775.40	283.75	948.00	36.13			-0.18	0.22	0.52	1.11
02/26/10 00:56	29.60	3211.40	536.88			4778.70	288.75	941.70	37.38			-0.17	0.27	0.53	1.16
02/26/10 00:57	29.62	3174.20	459.77			4806.80	280.33	959.60	37.14			-0.18	0.21	0.52	1.09
02/26/10 00:58	29.63	3343.70	512.81			4812.90	267.83	940.30	39.96			-0.16	0.28	0.55	1.11
02/26/10 00:59	29.65	2754.60	444.63			4743.10	284.25	977.10	35.94			-0.24	0.19	0.45	1.09
02/26/10 01:00	29.67	3224.50	462.45			4714.50	287.08	939.50	38.22			-0.16	0.21	0.54	1.08
02/26/10 01:01	29.68	3356.20	551.16			4759.70	285.33	930.10	35.50			-0.15	0.29	0.56	1.19
02/26/10 01:02	29.70	3413.10	509.17			4753.00	291.83	965.80	38.21			-0.14	0.24	0.55	1.12
02/26/10 01:03	29.72	2466.30	399.44			4746.90	284.58	975.80	37.74			-0.28	0.15	0.40	1.02
02/26/10 01:04	29.73	3105.90	467.28			4689.30	282.50	952.20	39.02			-0.18	0.22	0.51	1.08
02/26/10 01:05	29.75	2692.10	436.05			4737.50	283.41	962.60	38.29			-0.25	0.19	0.45	1.06
02/26/10 01:06	29.77	3225.30	481.93			4792.90	277.91	977.40	40.12			-0.17	0.24	0.52	1.08
02/26/10 01:07	29.78	3108.00	489.23			4715.50	286.08	985.90	38.96			-0.18	0.23	0.50	1.10
02/26/10 01:08	29.80	3218.40	480.94			4743.50	285.66	957.20	39.36			-0.17	0.23	0.53	1.09
02/26/10 01:09	29.82	2851.90	446.76			4718.00	288.33	967.70	40.20			-0.22	0.19	0.47	1.05
02/26/10 01:10	29.83	2749.90	446.01			4742.10	281.75	997.30	38.83			-0.24	0.20	0.44	1.06
02/26/10 01:11	29.85	2961.00	454.44			4740.70	272.33	983.20	37.01			-0.20	0.22	0.48	1.09
02/26/10 01:12	29.87	2831.60	495.30			4754.80	263.75	982.70	42.15			-0.23	0.27	0.46	1.07
02/26/10 01:13	29.88	3113.00	467.92			4792.10	260.41	1015.30	40.87			-0.19	0.25	0.49	1.06
02/26/10 01:14	29.90	2835.60	435.40			4811.60	260.50	988.80	38.65			-0.23	0.22	0.46	1.05
02/26/10 01:15	29.92	2745.80	417.92			4736.90	276.41	1007.30	39.03			-0.24	0.18	0.44	1.03
02/26/10 01:16	29.93	2501.00	439.59			4778.70	266.41	990.70	39.34			-0.28	0.22	0.40	1.05
02/26/10 01:17	29.95	3023.50	466.06			4827.30	256.00	979.40	35.12			-0.20	0.26	0.49	1.12
02/26/10 01:18	29.97	3086.40	466.58			4820.20	256.16	990.50	37.64			-0.19	0.26	0.49	1.09
02/26/10 01:19	29.98	2999.20	441.92			4841.50	263.83	970.00	38.52			-0.21	0.22	0.49	1.06
02/26/10 01:20	30.00	3025.20	466.10			4808.80	261.16	1017.00	39.07			-0.20	0.25	0.47	1.08
02/26/10 01:21	30.02	2970.00	456.09			4737.50	279.41	969.70	38.75			-0.20	0.21	0.49	1.07
02/26/10 01:22	30.03	3178.40	501.82			4712.80	287.66	1003.80	37.94			-0.17	0.24	0.50	1.12
02/26/10 01:23	30.05	3145.90	464.20			4788.50	270.41	990.10	38.83			-0.18	0.23	0.50	1.08
02/26/10 01:24	30.07	3476.80	524.29			4782.70	280.00	1032.60	39.72			-0.14	0.27	0.53	1.12
02/26/10 01:25	30.08	3566.20	548.07			4693.90	292.08	1021.50	40.48			-0.12	0.27	0.54	1.13
02/26/10 01:26	30.10	3460.50	536.48			4740.20	286.58	1041.30	41.51			-0.14	0.27	0.52	1.11
02/26/10 01:27	30.12	3338.10	489.81			4753.30	286.83	1053.20	39.73			-0.15	0.23	0.50	1.09
02/26/10 01:28	30.13	2816.00	448.79			4729.10	288.33	1072.90	38.32			-0.23	0.19	0.42	1.07
02/26/10 01:29	30.15	3010.10	491.78			4744.50	285.83	1099.70	39.68			-0.20	0.24	0.44	1.09
02/26/10 01:30	30.17	3036.50	482.19			4702.60	307.08	1110.30	43.63			-0.19	0.20	0.44	1.04
02/26/10 01:31	30.18	3066.30	470.01			4724.00	308.41	1108.60	40.60			-0.19	0.18	0.44	1.06
02/26/10 01:32	30.20	2500.40	423.85			4747.10	306.75	1094.10	40.79			-0.28	0.14	0.36	1.02
02/26/10 01:33	30.22	2615.70	410.24			4749.00	305.25	1105.30	38.15			-0.26	0.13	0.37	1.03
02/26/10 01:34	30.23	2565.90	406.78			4755.50	297.08	1112.90	39.14			-0.27	0.14	0.36	1.02
02/26/10 01:35	30.25	3005.40	437.59			4729.90	302.08	1084.00	40.94			-0.20	0.16	0.44	1.03
02/26/10 01:36	30.27	3449.30	611.62			4749.80	294.33	1088.20	41.37			-0.14	0.32	0.50	1.17
02/26/10 01:37	30.28	3366.20	497.88			4766.10	291.41	1090.80	38.45			-0.15	0.23	0.49	1.11
02/26/10 01:38	30.30	2838.10	434.62			4733.50	288.58	1084.20	40.76			-0.22	0.18	0.42	1.03
02/26/10 01:39	30.32	3239.50	511.14			4721.30	276.58	1060.50	39.90			-0.16	0.27	0.48	1.11

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 01:40	30.33	2906.70	459.91			4723.80	278.50	1031.00	37.32			-0.21	0.22	0.45	1.09
02/26/10 01:41	30.35	3043.70	456.52			4754.60	271.58	1028.80	40.89			-0.19	0.23	0.47	1.05
02/26/10 01:42	30.37	3110.00	469.03			4802.70	261.50	1040.60	39.84			-0.19	0.25	0.48	1.07
02/26/10 01:43	30.38	2735.80	419.55			4755.00	261.75	1029.00	42.03			-0.24	0.20	0.42	1.00
02/26/10 01:44	30.40	3033.30	486.80			4783.50	258.16	1038.40	40.97			-0.20	0.28	0.47	1.07
02/26/10 01:45	30.42	2570.30	421.01			4828.00	264.58	1045.40	39.64			-0.27	0.20	0.39	1.03
02/26/10 01:46	30.43	2570.30	421.01			4828.00	264.58	1073.50	40.80			-0.27	0.20	0.38	1.01
02/26/10 01:47	30.45	2903.50	426.97			4783.20	267.33	1073.50	40.80			-0.22	0.20	0.43	1.02
02/26/10 01:48	30.47					4785.30	254.66	1070.90	40.03						
02/26/10 01:49	30.48					4843.60	255.25	1081.60	41.84						
02/26/10 01:50	30.50	2865.00	438.47			4825.80	257.58	1061.10	39.72			-0.23	0.23	0.43	1.04
02/26/10 01:51	30.52					4646.20	299.91	1122.80	41.70						
02/26/10 01:52	30.53	3257.00	505.02			4600.90	300.83	1122.80	41.70			-0.15	0.22	0.46	1.08
02/26/10 01:53	30.55	3218.50	508.08			4600.70	317.83	1114.60	43.14			-0.16	0.20	0.46	1.07
02/26/10 01:54	30.57	2918.90	467.06			4594.60	301.00	1088.40	41.61			-0.20	0.19	0.43	1.05
02/26/10 01:55	30.58	2918.90	467.06			4594.60	301.00	1088.40	41.61			-0.20	0.19	0.43	1.05
02/26/10 01:56	30.60	2619.00	413.80			4605.10	306.00	1103.70	39.42			-0.25	0.13	0.38	1.02
02/26/10 01:57	30.62					4630.80	296.91	1145.70	38.09						
02/26/10 01:58	30.63					4678.70	291.58	1187.30	43.91						
02/26/10 01:59	30.65	2867.00	448.30			4678.70	291.58					-0.21	0.19		
02/26/10 02:00	30.67	2415.10	394.58			4660.60	284.58	1108.50	42.34			-0.29	0.14	0.34	0.97
02/26/10 02:01	30.68	2507.20	382.74			4670.40	286.58	1097.60	37.18			-0.27	0.13	0.36	1.01
02/26/10 02:02	30.70	3685.90	500.54			4679.10	282.91	1136.10	40.79			-0.10	0.25	0.51	1.09
02/26/10 02:03	30.72	2856.80	457.44			4639.00	293.83	1115.20	40.64			-0.21	0.19	0.41	1.05
02/26/10 02:04	30.73	2881.50	464.88			4649.40	303.00	1147.90	43.98			-0.21	0.19	0.40	1.02
02/26/10 02:05	30.75	2590.90	401.69			4612.10	301.83	1147.90	43.98			-0.25	0.12	0.35	0.96
02/26/10 02:06	30.77	2508.00	402.06			4612.10	301.83	1145.80	41.45			-0.26	0.12	0.34	0.99
02/26/10 02:07	30.78	2748.40	442.89			4611.00	314.25	1164.70	42.46			-0.22	0.15	0.37	1.02
02/26/10 02:08	30.80	2383.50	394.78			4600.00	320.58	1168.10	43.36			-0.29	0.09	0.31	0.96
02/26/10 02:09	30.82	2602.10	404.04			4632.00	326.33	1186.90	41.97			-0.25	0.09	0.34	0.98
02/26/10 02:10	30.83	3375.30	500.16			4600.00	324.25	1184.90	42.07			-0.13	0.19	0.45	1.08
02/26/10 02:11	30.85	3375.30	500.16			4600.00	324.25					-0.13	0.19		
02/26/10 02:12	30.87	3432.10	528.51			4620.60	326.00	1212.20	41.95			-0.13	0.21	0.45	1.10
02/26/10 02:13	30.88	2816.50	462.71			4573.00	327.16	1212.20	41.95			-0.21	0.15	0.37	1.04
02/26/10 02:14	30.90	2852.80	442.03			4625.00	322.41	1182.70	42.88			-0.21	0.14	0.38	1.01
02/26/10 02:15	30.92	3352.00	483.16			4571.60	331.16	1189.80	45.28			-0.13	0.16	0.45	1.03
02/26/10 02:16	30.93	3058.90	467.37			4569.40	322.75	1193.00	43.53			-0.17	0.16	0.41	1.03
02/26/10 02:17	30.95	3523.80	518.61			4670.20	323.66	1201.20	40.19			-0.12	0.20	0.47	1.11
02/26/10 02:18	30.97	3523.80	518.61			4670.20	323.66	1201.20	40.19			-0.12	0.20	0.47	1.11
02/26/10 02:19	30.98	4099.20	523.69			4675.60	313.25	1154.20	42.91			-0.06	0.22	0.55	1.09
02/26/10 02:20	31.00	4099.20	523.69			4675.60	313.25	1154.20	42.91			-0.06	0.22	0.55	1.09
02/26/10 02:21	31.02	3870.50	607.17			4689.00	295.08	1167.80	44.65			-0.08	0.31	0.52	1.13
02/26/10 02:22	31.03	3674.60	619.34			4748.90	300.91	1198.80	46.10			-0.11	0.31	0.49	1.13
02/26/10 02:23	31.05	3337.00	540.53			4719.50	323.41	1234.40	43.04			-0.15	0.22	0.43	1.10
02/26/10 02:24	31.07	3194.70	444.32			4697.60	320.16	1234.00	40.86			-0.17	0.14	0.41	1.04
02/26/10 02:25	31.08	2992.30	439.74			4740.80	301.75	1249.90	44.15			-0.20	0.16	0.38	1.00
02/26/10 02:26	31.10	3320.30	480.95			4746.80	298.50	1284.40	43.77			-0.16	0.21	0.41	1.04
02/26/10 02:27	31.12	3157.40	466.09			4783.70	304.41	1284.40	43.77			-0.18	0.19	0.39	1.03
02/26/10 02:28	31.13	3860.00	496.48			4756.70	321.33	1310.10	45.37			-0.09	0.19	0.47	1.04
02/26/10 02:29	31.15	3324.50	485.08			4740.80	318.50	1354.50	47.23			-0.15	0.18	0.39	1.01

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 02:30	31.17	3017.80	441.22			4798.90	307.58	1354.50	47.23			-0.20	0.16	0.35	0.97
02/26/10 02:31	31.18	2984.40	449.74			4788.80	287.66	1336.60	42.67			-0.21	0.19	0.35	1.02
02/26/10 02:32	31.20	2984.40	449.74			4788.80	287.66	1336.60	42.67			-0.21	0.19	0.35	1.02
02/26/10 02:33	31.22	3015.00	443.97			4816.20	273.83	1813.60	66.08			-0.20	0.21	0.22	0.83
02/26/10 02:34	31.23	2905.30	406.68			4788.30	286.00	1373.80	45.79			-0.22	0.15	0.33	0.95
02/26/10 02:35	31.25	3157.50	477.36			4831.60	286.33	1364.60	46.34			-0.18	0.22	0.36	1.01
02/26/10 02:36	31.27	2791.80	417.98			4831.60	286.33	1337.40	44.59			-0.24	0.16	0.32	0.97
02/26/10 02:37	31.28	3177.80	504.22			4841.10	266.08	1337.40	44.59			-0.18	0.28	0.38	1.05
02/26/10 02:38	31.30	2968.30	459.52			4818.10	276.08	1303.70	40.75			-0.21	0.22	0.36	1.05
02/26/10 02:39	31.32	2959.20	486.76			4855.50	263.91	1298.10	42.86			-0.22	0.27	0.36	1.06
02/26/10 02:40	31.33	2532.70	392.20			4824.60	266.58	1287.90	44.99			-0.28	0.17	0.29	0.94
02/26/10 02:41	31.35	2745.30	409.10			4783.50	271.41	1306.20	42.25			-0.24	0.18	0.32	0.99
02/26/10 02:42	31.37	2730.70	465.50			4851.60	265.16	1292.20	42.93			-0.25	0.24	0.32	1.04
02/26/10 02:43	31.38	3264.50	523.66			4851.60	265.16	1300.30	44.12			-0.17	0.30	0.40	1.07
02/26/10 02:44	31.40	3639.50	505.87			4800.80	258.08	2115.20				-0.12	0.29	0.24	
02/26/10 02:45	31.42	3068.90	469.35			4800.80	258.08	2115.20				-0.19	0.26	0.16	
02/26/10 02:46	31.43	2829.80	408.84			4757.00	279.91	1361.40	45.42			-0.23	0.16	0.32	0.95
02/26/10 02:47	31.45					4755.00	290.50	1327.30	43.63						
02/26/10 02:48	31.47	3194.60	458.88			4767.50	274.75	1327.30	43.63			-0.17	0.22	0.38	1.02
02/26/10 02:49	31.48	3108.20	484.56			4863.50	276.75	1349.50	45.28			-0.19	0.24	0.36	1.03
02/26/10 02:50	31.50	3678.30	561.88			4834.50	276.58	1372.50	45.91			-0.12	0.31	0.43	1.09
02/26/10 02:51	31.52	3481.50	494.36			4841.80	278.16	1397.90	45.96			-0.14	0.25	0.40	1.03
02/26/10 02:52	31.53	3061.20	449.63			4855.40	276.50	1415.20	45.71			-0.20	0.21	0.34	0.99
02/26/10 02:53	31.55	3292.30	497.76			4852.70	269.16	1390.00	47.30			-0.17	0.27	0.37	1.02
02/26/10 02:54	31.57	3094.90	459.25			4893.80	270.00	1381.00	49.71			-0.20	0.23	0.35	0.97
02/26/10 02:55	31.58					4872.50	257.83	1426.80	45.07						
02/26/10 02:56	31.60	3053.30	439.01			4888.90	263.75	1456.80	48.14			-0.20	0.22	0.32	0.96
02/26/10 02:57	31.62	3293.00	488.06			4894.50	266.91	1455.70	49.11			-0.17	0.26	0.35	1.00
02/26/10 02:58	31.63	3222.70	454.17			4962.30	281.73	1403.40	47.46			-0.19	0.21	0.36	0.98
02/26/10 02:59	31.65	2841.60	403.68			4888.50	277.08	1443.80	49.69			-0.24	0.16	0.29	0.91
02/26/10 03:00	31.67	3101.90	458.85			4851.10	283.75	1432.50	48.39			-0.19	0.21	0.34	0.98
02/26/10 03:01	31.68	2584.20	394.82			4847.50	285.33	1437.20	45.08			-0.27	0.14	0.25	0.94
02/26/10 03:02	31.70	3263.60	453.13			4840.90	288.41	1384.00	48.53			-0.17	0.20	0.37	0.97
02/26/10 03:03	31.72	3199.80	454.64			4829.10	289.33	1407.10	46.51			-0.18	0.20	0.36	0.99
02/26/10 03:04	31.73	3109.70	435.81			4848.50	286.83	1440.10	43.03			-0.19	0.18	0.33	1.01
02/26/10 03:05	31.75	3150.70	473.57			4820.20	291.00	1425.00	47.91			-0.18	0.21	0.34	0.99
02/26/10 03:06	31.77	3265.70	461.63			4809.80	298.00	1457.40	50.83			-0.17	0.19	0.35	0.96
02/26/10 03:07	31.78	2843.70	414.47			4980.20	308.08	1416.60	48.03			-0.24	0.13	0.30	0.94
02/26/10 03:08	31.80	2692.70	420.94			4847.20	291.83	1414.90	45.41			-0.26	0.16	0.28	0.97
02/26/10 03:09	31.82	2867.40	434.85			4851.10	291.66	1441.10	45.60			-0.23	0.17	0.30	0.98
02/26/10 03:10	31.83	2993.70	438.71			4813.90	289.58	1445.30	46.41			-0.21	0.18	0.32	0.98
02/26/10 03:11	31.85	3312.30	566.56			4803.80	295.83	1442.40	47.16			-0.16	0.28	0.36	1.08
02/26/10 03:12	31.87	2706.70	395.32			4828.40	298.75	1476.00	48.78			-0.25	0.12	0.26	0.91
02/26/10 03:13	31.88	2786.50	399.17			4818.20	306.58	1472.70	45.26			-0.24	0.11	0.28	0.95
02/26/10 03:14	31.90	3581.80	494.85			4825.90	282.08	1466.30	45.89			-0.13	0.24	0.39	1.03
02/26/10 03:15	31.92	3246.80	491.48			4810.70	297.83	1485.60	47.87			-0.17	0.22	0.34	1.01
02/26/10 03:16	31.93	3444.50	583.40			4830.00	297.16	1461.20	48.41			-0.15	0.29	0.37	1.08
02/26/10 03:17	31.95	3470.30	477.66			4804.20	279.75	1436.90	48.91			-0.14	0.23	0.38	0.99
02/26/10 03:18	31.97	3542.70	468.52			4851.30	281.16	1409.60	47.51			-0.14	0.22	0.40	0.99
02/26/10 03:19	31.98	4531.90	663.70			4839.00	280.50	1378.90	48.97			-0.03	0.37	0.52	1.13

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 03:20	32.00	3531.00	498.64			4848.00	293.00	1402.10	47.32			-0.14	0.23	0.40	1.02
02/26/10 03:21	32.02	3399.60	559.29			4830.60	289.16	1377.70	46.55			-0.15	0.29	0.39	1.08
02/26/10 03:22	32.03	3271.30	462.46			4868.20	281.66	1382.90	45.32			-0.17	0.22	0.37	1.01
02/26/10 03:23	32.05	3395.50	478.30			4843.50	278.75	1398.30	44.70			-0.15	0.23	0.39	1.03
02/26/10 03:24	32.07	3414.20	477.04			4835.70	295.25	1437.00	44.47			-0.15	0.21	0.38	1.03
02/26/10 03:25	32.08	3189.90	444.49			4824.80	306.16	1455.70	44.53			-0.18	0.16	0.34	1.00
02/26/10 03:26	32.10	2928.70	459.45			4825.30	283.66	1471.80	45.99			-0.22	0.21	0.30	1.00
02/26/10 03:27	32.12	2656.40	403.00			4844.40	288.66	1472.10	47.52			-0.26	0.14	0.26	0.93
02/26/10 03:28	32.13	3568.10	482.23			4817.00	285.16	1479.00	48.74			-0.13	0.23	0.38	1.00
02/26/10 03:29	32.15	3123.90	488.04			4846.00	284.00	1515.00	49.27			-0.19	0.24	0.31	1.00
02/26/10 03:30	32.17	3057.30	464.01			4875.10	282.50	1544.40	49.44			-0.20	0.22	0.30	0.97
02/26/10 03:31	32.18	3072.80	467.12			4866.10	287.50	1540.40	45.57			-0.20	0.21	0.30	1.01
02/26/10 03:32	32.20	3121.40	495.17			4865.70	285.08	1565.70	49.50			-0.19	0.24	0.30	1.00
02/26/10 03:33	32.22	2835.70	420.24			4852.60	290.33	1585.40	50.28			-0.23	0.16	0.25	0.92
02/26/10 03:34	32.23	2653.60	403.61			4847.40	284.25	1605.10	51.14			-0.26	0.15	0.22	0.90
02/26/10 03:35	32.25	3008.60	461.69			4834.70	302.08	1614.90	51.61			-0.21	0.18	0.27	0.95
02/26/10 03:36	32.27	2664.30	384.99			4845.70	280.75	1603.10	48.00			-0.26	0.14	0.22	0.90
02/26/10 03:37	32.28	2904.80	423.74			4797.00	296.08	1625.50	50.52			-0.22	0.16	0.25	0.92
02/26/10 03:38	32.30	3400.50	462.55			4832.40	304.00	1591.70	52.40			-0.15	0.18	0.33	0.95
02/26/10 03:39	32.32	3748.90	511.64			4839.10	281.16	1598.90	50.98			-0.11	0.26	0.37	1.00
02/26/10 03:40	32.33	3737.90	591.37			4809.50	298.66	1561.40	49.58			-0.11	0.30	0.38	1.08
02/26/10 03:41	32.35	2817.00	450.33			4866.80	279.33	1519.80	50.74			-0.24	0.21	0.27	0.95
02/26/10 03:42	32.37	3001.50	451.82			4831.50	300.00	1512.30	49.69			-0.21	0.18	0.30	0.96
02/26/10 03:43	32.38	2747.00	398.64			4851.70	282.41	1523.90	51.81			-0.25	0.15	0.26	0.89
02/26/10 03:44	32.40	2739.30	414.35			4851.70	282.41	1552.50	49.34			-0.25	0.17	0.25	0.92
02/26/10 03:45	32.42	2739.30	414.35			4828.00	288.50	1552.50	49.34			-0.25	0.16	0.25	0.92
02/26/10 03:46	32.43	3315.50	529.58			4832.70	283.66	1582.30	49.94			-0.16	0.27	0.32	1.03
02/26/10 03:47	32.45	2841.80	421.72			4840.90	283.91	1582.30	49.94			-0.23	0.17	0.25	0.93
02/26/10 03:48	32.47	2632.40	431.51			4785.60	299.83	1585.50	47.92			-0.26	0.16	0.22	0.95
02/26/10 03:49	32.48	2331.00	361.04			4766.60	295.83	1628.60	51.29			-0.31	0.09	0.16	0.85
02/26/10 03:50	32.50	2655.90	407.59			5008.30	309.65	1628.60	51.29			-0.28	0.12	0.21	0.90
02/26/10 03:51	32.52	2572.70	400.02			5059.70	300.08	1588.20	49.32			-0.29	0.12	0.21	0.91
02/26/10 03:52	32.53	2572.70	400.02			5059.70	300.08	1588.20	49.32			-0.29	0.12	0.21	0.91
02/26/10 03:53	32.55	3101.30	436.89			5006.40	300.52	1584.60	49.84			-0.21	0.16	0.29	0.94
02/26/10 03:54	32.57	3209.40	485.66			4757.70	281.16	1599.40	49.59			-0.17	0.24	0.30	0.99
02/26/10 03:55	32.58	3209.40	485.66			4757.70	281.16	1599.40	49.59			-0.17	0.24	0.30	0.99
02/26/10 03:56	32.60	2840.70	423.00			4754.30	281.00	1617.30	49.88			-0.22	0.18	0.24	0.93
02/26/10 03:57	32.62	3084.40	446.83			4807.20	269.33	1652.60	53.03			-0.19	0.22	0.27	0.93
02/26/10 03:58	32.63	2569.10	425.09			4797.50	274.58					-0.27	0.19		
02/26/10 03:59	32.65	2879.90	412.55			4864.90	278.58	1635.10	51.67			-0.23	0.17	0.25	0.90
02/26/10 04:00	32.67	2770.60	408.60			4845.90	272.00	1568.40	46.77			-0.24	0.18	0.25	0.94
02/26/10 04:01	32.68	3718.10	495.05			4845.90	272.00	1568.40	46.77			-0.12	0.26	0.37	1.02
02/26/10 04:02	32.70	2748.30	412.91			4822.40	275.41	1614.90	53.81			-0.24	0.18	0.23	0.88
02/26/10 04:03	32.72	2748.30	412.91			4822.40	275.41	1614.90	53.81			-0.24	0.18	0.23	0.88
02/26/10 04:04	32.73	2594.90	397.33					1590.90	52.15					0.21	0.88
02/26/10 04:05	32.75	2955.30	440.73			4794.60	285.16	1603.80	51.57			-0.21	0.19	0.27	0.93
02/26/10 04:06	32.77	2694.80	409.24			4862.20	273.00	1647.20	50.09			-0.26	0.18	0.21	0.91
02/26/10 04:07	32.78					4862.20	273.00	1658.10	48.67						
02/26/10 04:08	32.80	2855.70	412.44			4875.50	286.58	1658.10	48.67			-0.23	0.16	0.24	0.93
02/26/10 04:09	32.82	2466.60	379.58			4798.70	272.16	1695.30	51.98			-0.29	0.14	0.16	0.86

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 04:10	32.83	3076.80	439.82			4829.60	273.08	1695.30	51.98			-0.20	0.21	0.26	0.93
02/26/10 04:11	32.85	2979.90	443.45			4778.20	279.25	1631.10	53.20			-0.21	0.20	0.26	0.92
02/26/10 04:12	32.87					4778.20	279.25	1653.90	51.76						
02/26/10 04:13	32.88	2894.00	419.53			4781.20	267.16	1661.60	50.99			-0.22	0.20	0.24	0.92
02/26/10 04:14	32.90	2898.40	440.51			4789.10	265.83	1648.00	49.76			-0.22	0.22	0.25	0.95
02/26/10 04:15	32.92	2794.00	411.97			4816.60	272.08	1710.10	51.80			-0.24	0.18	0.21	0.90
02/26/10 04:16	32.93	3139.70	476.72			4888.00	268.33	1702.60	51.08			-0.19	0.25	0.27	0.97
02/26/10 04:17	32.95	3139.70	476.72			4888.00	268.33	1702.60	51.08			-0.19	0.25	0.27	0.97
02/26/10 04:18	32.97	2822.90	463.28			4880.10	266.83	1774.10	53.07			-0.24	0.24	0.20	0.94
02/26/10 04:19	32.98	2986.50	433.47			4896.30	261.33	1766.60	50.49			-0.21	0.22	0.23	0.93
02/26/10 04:20	33.00	3230.30	474.38			4899.50	256.00	1748.00	54.75			-0.18	0.27	0.27	0.94
02/26/10 04:21	33.02	2948.20	426.96			4895.50	264.00	1748.00	54.75			-0.22	0.21	0.23	0.89
02/26/10 04:22	33.03	2757.50	424.41			4938.00	255.66	1691.60	51.31			-0.25	0.22	0.21	0.92
02/26/10 04:23	33.05	2731.10	407.60			4885.10	284.16	1664.40	54.73			-0.25	0.16	0.22	0.87
02/26/10 04:24	33.07	2731.10	407.60			4885.10	284.16	1664.40	54.73			-0.25	0.16	0.22	0.87
02/26/10 04:25	33.08	3233.40	502.93			4894.50	263.66	1651.80	53.22			-0.18	0.28	0.29	0.98
02/26/10 04:26	33.10	3602.50	512.70			4858.10	274.83	1651.80	53.22			-0.13	0.27	0.34	0.98
02/26/10 04:27	33.12	3295.70	484.16			4909.70	260.66	1660.20	51.84			-0.17	0.27	0.30	0.97
02/26/10 04:28	33.13	3345.90	456.26			4959.20	254.66	1675.10	54.40			-0.17	0.25	0.30	0.92
02/26/10 04:29	33.15	3345.90	456.26			4959.20	254.66	1675.10	54.40			-0.17	0.25	0.30	0.92
02/26/10 04:30	33.17	3124.20	478.59			4950.70	256.16	1700.60	53.32			-0.20	0.27	0.26	0.95
02/26/10 04:31	33.18	3297.00	467.46			4879.70	277.00	1713.60	56.77			-0.17	0.23	0.28	0.92
02/26/10 04:32	33.20	2916.10	459.42			5187.40	283.04	1726.90	58.22			-0.25	0.21	0.23	0.90
02/26/10 04:33	33.22	3100.40	453.40			5226.70	269.82	1808.90	53.00			-0.23	0.23	0.23	0.93
02/26/10 04:34	33.23	3142.00	459.20			4958.50	274.58	1808.90	53.00			-0.20	0.22	0.24	0.94
02/26/10 04:35	33.25	2725.40	413.01			4915.80	280.50	1824.20	57.97			-0.26	0.17	0.17	0.85
02/26/10 04:36	33.27	2640.10	407.48			4919.40	282.66	1890.60	57.35			-0.27	0.16	0.15	0.85
02/26/10 04:37	33.28	3020.20	437.75			4905.50	272.91	1951.60	56.09			-0.21	0.21	0.19	0.89
02/26/10 04:38	33.30	3140.30	437.97			4905.50	272.91	1873.30	55.69			-0.19	0.21	0.22	0.90
02/26/10 04:39	33.32	3366.60	467.30			4936.00	257.16	1873.30	55.69			-0.17	0.26	0.25	0.92
02/26/10 04:40	33.33	3929.10	502.39			4904.10	264.25	1840.00	52.96			-0.10	0.28	0.33	0.98
02/26/10 04:41	33.35	3046.40	456.27			4935.00	269.41	1797.20	55.02			-0.21	0.23	0.23	0.92
02/26/10 04:42	33.37	2609.60	394.25			4894.70	275.41	1810.30	51.49			-0.27	0.16	0.16	0.88
02/26/10 04:43	33.38	2991.40	438.54			4894.70	275.41	1810.30	51.49			-0.21	0.20	0.22	0.93
02/26/10 04:44	33.40	2907.40	432.21			4920.10	269.00	1830.50	56.34			-0.23	0.21	0.20	0.88
02/26/10 04:45	33.42	2746.60	416.30			5155.90	283.56	1765.10	56.88			-0.27	0.17	0.19	0.86
02/26/10 04:46	33.43	3461.00	504.58			4932.40	256.50	1866.80	59.31			-0.15	0.29	0.27	0.93
02/26/10 04:47	33.45	3403.30	492.97			4921.60	274.75	1862.90	55.31			-0.16	0.25	0.26	0.95
02/26/10 04:48	33.47	3284.70	501.57			4905.00	273.58	1879.10	55.14			-0.17	0.26	0.24	0.96
02/26/10 04:49	33.48	2926.60	457.58			4897.30	271.41	1872.40	56.89			-0.22	0.23	0.19	0.91
02/26/10 04:50	33.50	2770.60	418.43			4889.90	275.16	1882.80	59.17			-0.25	0.18	0.17	0.85
02/26/10 04:51	33.52	3077.90	452.88			4899.50	279.58	1899.00	53.71			-0.20	0.21	0.21	0.93
02/26/10 04:52	33.53	3143.00	453.57			4914.90	275.58	1848.00	54.91			-0.19	0.22	0.23	0.92
02/26/10 04:53	33.55	2647.70	418.26			4920.80	275.25	1889.50	59.07			-0.27	0.18	0.15	0.85
02/26/10 04:54	33.57	2748.80	400.65			4916.80	276.08	1897.10	56.82			-0.25	0.16	0.16	0.85
02/26/10 04:55	33.58	3304.80	503.55			4890.30	279.75	1912.20	57.59			-0.17	0.26	0.24	0.94
02/26/10 04:56	33.60	3213.80	479.25			4921.30	282.16	1890.40	56.93			-0.19	0.23	0.23	0.93
02/26/10 04:57	33.62	2842.30	429.84			4940.00	277.91	1887.00	58.23			-0.24	0.19	0.18	0.87
02/26/10 04:58	33.63	3639.60	525.05			5147.00	281.65	1908.20	56.65			-0.15	0.27	0.28	0.97
02/26/10 04:59	33.65	3217.30	466.69			4903.10	277.25	1869.20	55.91			-0.18	0.23	0.24	0.92

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 05:00	33.67	2868.30	453.40			4877.30	270.08	1847.60	55.71			-0.23	0.22	0.19	0.91
02/26/10 05:01	33.68	3030.30	448.58			4891.70	272.25	1957.40	59.37			-0.21	0.22	0.19	0.88
02/26/10 05:02	33.70	3301.90	486.86			4948.20	267.00	1919.80	57.67			-0.18	0.26	0.24	0.93
02/26/10 05:03	33.72	3335.90	482.87			4964.70	271.58	1970.10	58.03			-0.17	0.25	0.23	0.92
02/26/10 05:04	33.73	3258.30	448.18			4912.70	272.83	1961.90	56.27			-0.18	0.22	0.22	0.90
02/26/10 05:05	33.75	2965.10	444.72			4944.50	272.58	1930.20	56.38			-0.22	0.21	0.19	0.90
02/26/10 05:06	33.77	2780.30	441.93			4965.10	269.00	1964.50	55.09			-0.25	0.22	0.15	0.90
02/26/10 05:07	33.78	2899.80	432.83			4954.60	268.00	1932.30	52.67			-0.23	0.21	0.18	0.91
02/26/10 05:08	33.80	2949.50	444.33			4958.50	273.00	1982.70	61.17			-0.23	0.21	0.17	0.86
02/26/10 05:09	33.82	3306.80	491.93			5413.70	317.81	1992.50	59.93			-0.21	0.19	0.22	0.91
02/26/10 05:10	33.83	2913.10	467.23			5694.80	321.71	1986.50	56.68			-0.29	0.16	0.17	0.92
02/26/10 05:11	33.85	3348.70	478.18			5442.20	311.00	2033.70	58.29			-0.21	0.19	0.22	0.91
02/26/10 05:12	33.87	3015.00	472.48			5440.00	298.00	1995.50	61.66			-0.26	0.20	0.18	0.88
02/26/10 05:13	33.88	3373.60	484.33			4997.60	281.50	1968.20	56.47			-0.17	0.24	0.23	0.93
02/26/10 05:14	33.90	2968.90	436.56			6012.30	341.60	1955.90	60.38			-0.31	0.11	0.18	0.86
02/26/10 05:15	33.92					6050.60	334.50	1985.10	55.84						
02/26/10 05:16	33.93	2975.80	418.16			5658.00	310.28	1976.90	60.00			-0.28	0.13	0.18	0.84
02/26/10 05:17	33.95	2914.50	455.04			4937.50	287.66	1999.30	58.86			-0.23	0.20	0.16	0.89
02/26/10 05:18	33.97	3371.90	467.01			4927.50	275.08	2040.90	58.44			-0.16	0.23	0.22	0.90
02/26/10 05:19	33.98	2853.60	435.08			4936.20	267.50	2024.80	60.99			-0.24	0.21	0.15	0.85
02/26/10 05:20	34.00	2557.00	394.32			4871.50	284.66	1953.90	59.01			-0.28	0.14	0.12	0.82
02/26/10 05:21	34.02	3810.00	497.04			4963.20	268.66	1944.20	56.28			-0.11	0.27	0.29	0.95
02/26/10 05:22	34.03	3136.90	448.16			4937.30	274.75	1976.70	59.12			-0.20	0.21	0.20	0.88
02/26/10 05:23	34.05	3000.00	449.73			4906.80	277.91	1933.70	59.35			-0.21	0.21	0.19	0.88
02/26/10 05:24	34.07	3323.60	493.11			4971.20	276.00	1948.20	57.70			-0.17	0.25	0.23	0.93
02/26/10 05:25	34.08	2971.50	461.79			4923.20	284.16	2018.20	60.84			-0.22	0.21	0.17	0.88
02/26/10 05:26	34.10	2897.10	418.63			5206.70	265.91	1992.70	58.12			-0.25	0.20	0.16	0.86
02/26/10 05:27	34.12	3217.00	501.55			5190.80	274.43	2058.70	59.21			-0.21	0.26	0.19	0.93
02/26/10 05:28	34.13	2826.80	421.22			5193.80	275.13	2023.90	57.49			-0.26	0.18	0.15	0.86
02/26/10 05:29	34.15	3360.50	573.77			5191.50	275.65	1999.70	59.06			-0.19	0.32	0.23	0.99
02/26/10 05:30	34.17	3609.20	494.89			5019.90	264.33	2019.80	58.69			-0.14	0.27	0.25	0.93
02/26/10 05:31	34.18	2540.00	393.63			4945.90	279.75	2028.00	58.65			-0.29	0.15	0.10	0.83
02/26/10 05:32	34.20	2452.50	389.43			4897.00	299.41	2010.70	58.92			-0.30	0.11	0.09	0.82
02/26/10 05:33	34.22	2874.60	410.58			4861.90	314.08	2019.20	59.35			-0.23	0.12	0.15	0.84
02/26/10 05:34	34.23	3331.00	481.09			4826.80	321.66	2058.10	56.31			-0.16	0.17	0.21	0.93
02/26/10 05:35	34.25	3419.30	514.13			4825.30	328.75	2131.20	64.62			-0.15	0.19	0.21	0.90
02/26/10 05:36	34.27	4087.10	506.21			4822.00	328.33	2115.00	61.90			-0.07	0.19	0.29	0.91
02/26/10 05:37	34.28	3482.60	520.48			4791.10	338.33	2062.60	63.17			-0.14	0.19	0.23	0.92
02/26/10 05:38	34.30	3031.60	427.31			4812.70	333.00	2110.60	60.72			-0.20	0.11	0.16	0.85
02/26/10 05:39	34.32	3220.70	441.84			4873.50	299.58	2070.70	56.94			-0.18	0.17	0.19	0.89
02/26/10 05:40	34.33	3128.90	450.64			4892.30	308.08	2056.10	63.93			-0.19	0.17	0.18	0.85
02/26/10 05:41	34.35	3557.50	532.03			4906.40	313.75	2172.00	66.73			-0.14	0.23	0.21	0.90
02/26/10 05:42	34.37	3011.70	446.18			4850.30	330.41	2173.60	62.97			-0.21	0.13	0.14	0.85
02/26/10 05:43	34.38	3258.00	462.96			4850.30	330.41	2149.00	59.52			-0.17	0.15	0.18	0.89
02/26/10 05:44	34.40	3258.00	462.96			4835.20	338.33					-0.17	0.14		
02/26/10 05:45	34.42					4801.00	325.25	2108.50	61.95						
02/26/10 05:46	34.43	3760.40	485.78			4834.50	323.75	2108.50	61.95			-0.11	0.18	0.25	0.89
02/26/10 05:47	34.45	3025.30	436.14			4813.30	332.41	2080.20	62.90			-0.20	0.12	0.16	0.84
02/26/10 05:48	34.47	2638.00	385.07			4769.60	328.33	2130.30	64.80			-0.26	0.07	0.09	0.77
02/26/10 05:49	34.48	2640.50	377.63			4762.50	333.33	2057.90	56.19			-0.26	0.05	0.11	0.83

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 05:50	34.50	3158.40	487.06			4985.80	355.39	2061.30	60.22			-0.20	0.14	0.19	0.91
02/26/10 05:51	34.52	2897.10	469.66			4757.70	345.58	2150.60	57.91			-0.22	0.13	0.13	0.91
02/26/10 05:52	34.53	2490.90	382.57			4779.30	348.00	2159.70	64.05			-0.28	0.04	0.06	0.78
02/26/10 05:53	34.55	2398.50	383.56			4734.10	351.83	2167.00	62.95			-0.30	0.04	0.04	0.78
02/26/10 05:54	34.57	3162.20	447.66			4747.80	337.75	2066.00	61.84			-0.18	0.12	0.18	0.86
02/26/10 05:55	34.58	3103.10	469.73			4821.60	333.66	2175.20	64.68			-0.19	0.15	0.15	0.86
02/26/10 05:56	34.60	3103.10	469.73			5035.80	334.34	2223.20	62.23			-0.21	0.15	0.14	0.88
02/26/10 05:57	34.62	3860.50	498.77			5035.80	334.34	2223.20	62.23			-0.12	0.17	0.24	0.90
02/26/10 05:58	34.63	3045.70	444.71			4821.50	306.58	2140.30	58.53			-0.20	0.16	0.15	0.88
02/26/10 05:59	34.65	2736.80	387.75			5060.90	311.39	2086.30	56.16			-0.27	0.10	0.12	0.84
02/26/10 06:00	34.67					4808.10	304.25	2166.60	60.02						
02/26/10 06:01	34.68	2763.90	422.73			5583.60	334.95	2181.00	60.74			-0.31	0.10	0.10	0.84
02/26/10 06:02	34.70					5544.00	332.19	2181.00	60.74						
02/26/10 06:03	34.72	2846.80	418.99			5580.30	328.19	2177.00	57.10			-0.29	0.11	0.12	0.87
02/26/10 06:04	34.73	4005.10	501.21					2202.60	61.97					0.26	0.91
02/26/10 06:05	34.75	3052.90	435.09			5290.70	299.00	2202.60	61.97			-0.24	0.16	0.14	0.85
02/26/10 06:06	34.77	3989.60	473.58					2245.10	61.48					0.25	0.89
02/26/10 06:07	34.78	2629.20	400.80			5041.90	316.60	2245.10	61.48			-0.28	0.10	0.07	0.81
02/26/10 06:08	34.80	2767.60	418.13			5043.30	305.65	2244.20	61.36			-0.26	0.14	0.09	0.83
02/26/10 06:09	34.82	2533.40	393.68			5323.70	309.90	2138.60	61.14			-0.32	0.10	0.07	0.81
02/26/10 06:10	34.83	3025.90	442.51			5568.20	324.47	2136.80	61.33			-0.26	0.13	0.15	0.86
02/26/10 06:11	34.85	2848.50	419.94			5280.80	305.90	2176.60	62.29			-0.27	0.14	0.12	0.83
02/26/10 06:12	34.87	2604.60	422.24					2060.40	59.85					0.10	0.85
02/26/10 06:13	34.88	2977.50	434.77			5551.70	314.57	2060.40	59.85			-0.27	0.14	0.16	0.86
02/26/10 06:14	34.90	2805.30	441.45			5266.60	293.18					-0.27	0.18		
02/26/10 06:15	34.92	3283.10	535.99			5386.20	280.27	2050.90	58.55			-0.21	0.28	0.20	0.96
02/26/10 06:16	34.93	3283.10	535.99			5386.20	280.27	2050.90	58.55			-0.21	0.28	0.20	0.96
02/26/10 06:17	34.95	2997.10	474.17			5134.60	286.08	2159.00	60.75			-0.23	0.22	0.14	0.89
02/26/10 06:18	34.97	2771.60	423.13			5144.10	294.26	2139.50	61.15			-0.27	0.16	0.11	0.84
02/26/10 06:19	34.98	3143.80	470.30			5144.10	294.26	2105.40	61.22			-0.21	0.20	0.17	0.89
02/26/10 06:20	35.00	3220.40	479.22			4930.40	275.75	2105.40	61.22			-0.18	0.24	0.18	0.89
02/26/10 06:21	35.02	2584.60	413.66			5141.30	288.43	2067.50	58.02			-0.30	0.16	0.10	0.85
02/26/10 06:22	35.03	2725.10	423.41			5381.30	303.72	2088.50	58.75			-0.30	0.14	0.12	0.86
02/26/10 06:23	35.05	2583.00	432.37			4937.50	271.58	2193.00	62.79			-0.28	0.20	0.07	0.84
02/26/10 06:24	35.07	3143.80	477.61			5411.80	291.63	2177.30	62.80			-0.24	0.21	0.16	0.88
02/26/10 06:25	35.08	2985.10	438.78			5158.40	279.04	2293.60	65.38			-0.24	0.20	0.11	0.83
02/26/10 06:26	35.10	2614.00	431.44			4931.60	271.66	2362.90	63.64			-0.28	0.20	0.04	0.83
02/26/10 06:27	35.12	2897.20	432.40			4906.40	275.91	2246.80	64.16			-0.23	0.20	0.11	0.83
02/26/10 06:28	35.13	2922.40	420.50			4931.90	268.25	2269.30	62.30			-0.23	0.20	0.11	0.83
02/26/10 06:29	35.15	2856.70	414.62			4931.90	268.25	2108.20	62.23			-0.24	0.19	0.13	0.82
02/26/10 06:30	35.17	2956.60	418.61			4923.00	272.58	2146.90	61.65			-0.22	0.19	0.14	0.83
02/26/10 06:31	35.18	2765.00	421.84			5146.60	287.30	2129.40	60.61			-0.27	0.17	0.11	0.84
02/26/10 06:32	35.20	2765.00	421.84			5146.60	287.30	2129.40	60.61			-0.27	0.17	0.11	0.84
02/26/10 06:33	35.22	2625.50	399.14			5140.30	279.73	2154.40	60.22			-0.29	0.15	0.09	0.82
02/26/10 06:34	35.23	3064.90	442.56			4900.00	271.00					-0.20	0.21		
02/26/10 06:35	35.25	2976.80	469.49			4904.40	273.33	2225.60	62.19			-0.22	0.23	0.13	0.88
02/26/10 06:36	35.27	2976.80	469.49			5120.10	286.26	2225.60	62.19			-0.24	0.21	0.13	0.88
02/26/10 06:37	35.28	3228.40	480.20			4928.40	276.83	2231.70	59.79			-0.18	0.24	0.16	0.90
02/26/10 06:38	35.30	3001.80	424.47			4933.50	273.91	2120.60	59.11			-0.22	0.19	0.15	0.86
02/26/10 06:39	35.32	2671.30	408.91					2240.10	63.14					0.08	0.81

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 06:40	35.33	2664.80	418.81			5177.00	290.43	2240.10	63.14			-0.29	0.16	0.08	0.82
02/26/10 06:41	35.35	3130.60	455.71			5430.20	305.90	2333.10	65.10			-0.24	0.17	0.13	0.85
02/26/10 06:42	35.37	2758.10	443.90			6633.00	379.66	2297.20	68.39			-0.38	0.07	0.08	0.81
02/26/10 06:43	35.38	2834.70	437.71			6286.40	362.73	2412.70	66.88			-0.35	0.08	0.07	0.82
02/26/10 06:44	35.40	2503.80	413.63			6381.10	338.63	2455.70	67.65			-0.41	0.09	0.01	0.79
02/26/10 06:45	35.42	2792.20	454.29			4881.10	291.91	2405.50	66.96			-0.24	0.19	0.06	0.83
02/26/10 06:46	35.43	3230.30	469.11			4878.10	298.00	2391.60	66.05			-0.18	0.20	0.13	0.85
02/26/10 06:47	35.45	3189.40	472.47			4863.10	301.16	2340.10	65.47			-0.18	0.20	0.13	0.86
02/26/10 06:48	35.47	2870.00	428.68			4860.50	291.58	2365.00	66.88			-0.23	0.17	0.08	0.81
02/26/10 06:49	35.48	2970.80	441.53			4862.60	302.75	2318.70	63.81			-0.21	0.16	0.11	0.84
02/26/10 06:50	35.50	3812.20	519.69			4885.30	297.75					-0.11	0.24		
02/26/10 06:51	35.52	3387.60	485.41			5057.00	314.52	2295.90	65.33			-0.17	0.19	0.17	0.87
02/26/10 06:52	35.53	3660.80	520.19			5099.70	309.39	2200.90	62.38			-0.14	0.23	0.22	0.92
02/26/10 06:53	35.55	2349.10	361.15			5391.70	312.63	2222.40	61.07			-0.36	0.06	0.02	0.77
02/26/10 06:54	35.57	3149.90	500.37			5624.80	334.47	2257.10	62.09			-0.25	0.17	0.14	0.91
02/26/10 06:55	35.58	2813.00	437.01			5144.90	296.69	2321.10	65.15			-0.26	0.17	0.08	0.83
02/26/10 06:56	35.60	2728.40	403.84			5333.60	317.27	2256.70	60.96			-0.29	0.10	0.08	0.82
02/26/10 06:57	35.62	2843.50	463.77			5122.10	299.73	2461.10	64.07			-0.26	0.19	0.06	0.86
02/26/10 06:58	35.63	3547.70	469.99			4933.20	286.25	2476.60	68.71			-0.14	0.22	0.16	0.84
02/26/10 06:59	35.65	2567.80	392.91					2487.40	67.22					0.01	0.77
02/26/10 07:00	35.67	2940.80	436.67			4994.30	305.56					-0.23	0.16		
02/26/10 07:01	35.68	3428.70	508.23			5040.20	297.21	2372.30	62.87			-0.17	0.23	0.16	0.91
02/26/10 07:02	35.70	2933.80	463.96			4872.50	296.50	2429.20	68.12			-0.22	0.19	0.08	0.83
02/26/10 07:03	35.72	3146.70	487.59			4895.50	285.33	2432.60	69.81			-0.19	0.23	0.11	0.84
02/26/10 07:04	35.73	2731.70	415.90			4893.00	280.25	2464.90	68.68			-0.25	0.17	0.04	0.78
02/26/10 07:05	35.75	3087.70	467.48			4905.20	278.33	2453.00	70.62			-0.20	0.23	0.10	0.82
02/26/10 07:06	35.77	2869.40	442.40			5330.80	331.18	2549.60	73.52			-0.27	0.13	0.05	0.78
02/26/10 07:07	35.78	2798.90	415.23			5873.50	369.00	2576.80	66.66			-0.32	0.05	0.04	0.79
02/26/10 07:08	35.80	2885.10	421.84			5628.50	354.66	2598.50	73.36			-0.29	0.08	0.05	0.76
02/26/10 07:09	35.82	2823.90	466.47			5628.00	344.66	2556.20	65.75			-0.30	0.13	0.04	0.85
02/26/10 07:10	35.83	3190.20	446.11			5927.00	365.70	2590.80	76.08			-0.27	0.09	0.09	0.77
02/26/10 07:11	35.85	3885.20	529.87			6012.70	389.89	2635.00	69.57			-0.19	0.13	0.17	0.88
02/26/10 07:12	35.87	4000.70	537.26			6193.40	389.78	2597.40	67.51			-0.19	0.14	0.19	0.90
02/26/10 07:13	35.88	3001.40	457.01			5863.80	365.90	2619.70	78.34			-0.29	0.10	0.06	0.77
02/26/10 07:14	35.90	3419.30	474.90			5603.50	349.33	2630.80	73.23			-0.21	0.13	0.11	0.81
02/26/10 07:15	35.92	2521.90	406.87			5589.50	348.28					-0.35	0.07		
02/26/10 07:16	35.93	2843.10	431.09			5639.30	339.23	2560.20	69.27			-0.30	0.10	0.05	0.79
02/26/10 07:17	35.95	3602.80	484.80			5353.90	328.45	2566.60	70.79			-0.17	0.17	0.15	0.84
02/26/10 07:18	35.97	2998.80	462.42			5359.40	329.09	2532.70	69.23			-0.25	0.15	0.07	0.82
02/26/10 07:19	35.98	3194.50	501.88			5348.70	315.81	2578.00	74.41			-0.22	0.20	0.09	0.83
02/26/10 07:20	36.00	2743.10	429.55			4920.30	288.25	2620.20	70.69			-0.25	0.17	0.02	0.78
02/26/10 07:21	36.02	2845.60	467.87			4918.70	279.08	2556.50	67.12			-0.24	0.22	0.05	0.84
02/26/10 07:22	36.03	3114.90	497.03			4903.70	280.08	2577.60	67.90			-0.20	0.25	0.08	0.86
02/26/10 07:23	36.05	2402.10	384.96			5157.50	303.39	2572.10	71.84			-0.33	0.10	-0.03	0.73
02/26/10 07:24	36.07	2786.10	443.10			6317.00	343.05	2569.20	67.93			-0.36	0.11	0.04	0.81
02/26/10 07:25	36.08	2894.80	456.50			6328.70	358.52	2638.30	72.32			-0.34	0.10	0.04	0.80
02/26/10 07:26	36.10	2524.00	399.80			6010.60	328.60	2588.20	68.50			-0.38	0.09	-0.01	0.77
02/26/10 07:27	36.12	3317.00	483.47			5332.60	342.09	2656.30	70.56			-0.21	0.15	0.10	0.84
02/26/10 07:28	36.13	2763.10	425.87			5298.60	359.36	2726.00	69.28			-0.28	0.07	0.01	0.79
02/26/10 07:29	36.15	2917.20	504.99			5041.20	345.47	2791.00	77.25			-0.24	0.16	0.02	0.82

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 07:30	36.17	2721.90	434.55			5293.20	347.09	2701.50	73.66			-0.29	0.10	0.00	0.77
02/26/10 07:31	36.18	2670.60	420.86			5063.20	336.86	2775.80	72.38			-0.28	0.10	-0.02	0.76
02/26/10 07:32	36.20	2995.30	454.47			5544.30	373.04	2668.00	72.93			-0.27	0.09	0.05	0.79
02/26/10 07:33	36.22	2678.50	418.17			5303.40	347.45	2726.50	76.16			-0.30	0.08	-0.01	0.74
02/26/10 07:34	36.23	3151.30	472.08			5040.50	355.47	2652.10	72.06			-0.20	0.12	0.07	0.82
02/26/10 07:35	36.25	2425.80	394.91			5258.80	360.45	2626.40	72.63			-0.34	0.04	-0.03	0.74
02/26/10 07:36	36.27	2826.00	434.54			4846.50	323.33	2546.00	71.79			-0.23	0.13	0.05	0.78
02/26/10 07:37	36.28	2726.80	423.18			4821.70	329.75	2469.00	69.48			-0.25	0.11	0.04	0.78
02/26/10 07:38	36.30	3284.90	450.79			5297.60	358.63	2506.80	66.79			-0.21	0.10	0.12	0.83
02/26/10 07:39	36.32	2994.10	436.07			5036.20	348.95	2516.90	67.54			-0.23	0.10	0.08	0.81
02/26/10 07:40	36.33	2776.20	437.02			5044.90	348.43	2631.00	70.63			-0.26	0.10	0.02	0.79
02/26/10 07:41	36.35	2739.90	450.82			4814.50	342.58	2540.80	70.38			-0.24	0.12	0.03	0.81
02/26/10 07:42	36.37					4997.50	355.73	2570.00	69.53						
02/26/10 07:43	36.38	3428.60	626.67			5003.60	344.26	2655.30	73.25			-0.16	0.26	0.11	0.93
02/26/10 07:44	36.40	3428.60	626.67			5003.60	344.26	2655.30	73.25			-0.16	0.26	0.11	0.93
02/26/10 07:45	36.42	3170.90	462.63			5220.00	356.00	2634.40	72.43			-0.22	0.11	0.08	0.81
02/26/10 07:46	36.43	3170.90	462.63					2567.20	69.25					0.09	0.82
02/26/10 07:47	36.45	2919.40	452.80			4780.50	328.16	2567.20	69.25			-0.21	0.14	0.06	0.82
02/26/10 07:48	36.47					5178.40	355.09	2528.30	70.52						
02/26/10 07:49	36.48	2875.00	421.90			4814.00	327.16	2548.70	65.67			-0.22	0.11	0.05	0.81
02/26/10 07:50	36.50	3035.00	445.86			4814.00	327.16	2548.70	65.67			-0.20	0.13	0.08	0.83
02/26/10 07:51	36.52	2956.40	469.65			4915.00	352.34	2729.30	76.91			-0.22	0.12	0.03	0.79
02/26/10 07:52	36.53	3128.40	466.89			4724.90	339.66	2843.60	77.44			-0.18	0.14	0.04	0.78
02/26/10 07:53	36.55	3128.40	466.89			4724.90	339.66	2843.60	77.44			-0.18	0.14	0.04	0.78
02/26/10 07:54	36.57	2880.30	459.02			4918.00	365.73	2914.70	77.05			-0.23	0.10	-0.01	0.78
02/26/10 07:55	36.58	2142.70	341.41			5417.40	394.00	2951.30	82.26			-0.40	-0.06	-0.14	0.62
02/26/10 07:56	36.60	2116.50	358.71			5655.30	444.70	2938.00	81.12			-0.43	-0.09	-0.14	0.65
02/26/10 07:57	36.62	2654.80	418.69			5436.30	419.71	3119.70	86.93			-0.31	0.00	-0.07	0.68
02/26/10 07:58	36.63	2654.80	418.69			5436.30	419.71	3119.70	86.93			-0.31	0.00	-0.07	0.68
02/26/10 07:59	36.65					5397.70	439.04	3345.40	92.10						
02/26/10 08:00	36.67	4076.50	566.51			5945.00	493.89	3429.90	95.13			-0.16	0.06	0.08	0.77
02/26/10 08:01	36.68					5347.70	444.57	3601.00	97.42						
02/26/10 08:02	36.70	2136.00	423.52			6596.00	614.47	3829.70	113.46			-0.49	-0.16	-0.25	0.57
02/26/10 08:03	36.72	1592.80	322.53			6596.00	614.47	3829.70	113.46			-0.62	-0.28	-0.38	0.45
02/26/10 08:04	36.73	930.30	204.55			9323.00	1126.60	7588.00	237.86			-1.00	-0.74	-0.91	-0.07
02/26/10 08:05	36.75	899.70	228.91			6875.00	987.10	7622.00	228.13			-0.88	-0.63	-0.93	0.00
02/26/10 08:06		742.70	175.90			9902.00	1329.20	7419.00	232.75			-1.12	-0.88	-1.00	-0.12
02/26/10 08:07		3457.50	698.70			7163.00	603.75	7463.00	231.06			-0.32	0.06	-0.33	0.48
02/26/10 08:08		3457.50	698.70			7111.00	660.10	3839.90	118.86			-0.31	0.02	-0.05	0.77
02/26/10 08:09		2434.80	438.37			7111.00	660.10	3839.90	118.86			-0.47	-0.18	-0.20	0.57
02/26/10 08:10		2848.80	643.66			9169.00	1324.10	6205.80	207.41			-0.51	-0.31	-0.34	0.49
02/26/10 08:11		2220.70	431.35			9129.00	1283.00	6205.80	207.41			-0.61	-0.47	-0.45	0.32
02/26/10 08:12		1875.90	359.84			9973.00	1234.10	4406.70	144.10			-0.73	-0.54	-0.37	0.40
02/26/10 08:13		2621.40	485.80			10121.00	1097.60	3476.40	116.87			-0.59	-0.35	-0.12	0.62
02/26/10 08:14		1570.50	2411.00			9594.00	930.30	3476.40	116.87			-0.79	0.41	-0.35	1.31
02/26/10 08:15		5562.60	1771.60			9662.00	866.30	2723.80	95.38			-0.24	0.31	0.31	1.27
02/26/10 08:16		3748.60	768.50			9503.00	1126.00	2306.40	88.69			-0.40	-0.17	0.21	0.94
02/26/10 08:17		2809.40	511.85			10130.00	1089.60	9308.00	1034.00			-0.56	-0.33	-0.52	-0.31
02/26/10 08:18		1504.20	270.27			4419.50	344.16	9801.00	596.40			-0.47	-0.10	-0.81	-0.34
02/26/10 08:19		1192.00	230.03			4037.20	303.07	7709.00	353.75			-0.53	-0.12	-0.81	-0.19

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 08:20		1192.00	230.03			4037.20	303.07	7709.00	353.75			-0.53	-0.12	-0.81	-0.19
02/26/10 08:21		1555.30	320.01			3880.40	269.37	7682.00	307.60			-0.40	0.07	-0.69	0.02
02/26/10 08:22		1101.20	232.61			3287.90	242.96	4488.20	168.46			-0.48	-0.02	-0.61	0.14
02/26/10 08:23		920.40	199.58			2806.30	215.30	3889.70	144.98			-0.48	-0.03	-0.63	0.14
02/26/10 08:24		1498.60	267.63			2305.60	186.09	2767.90	110.35			-0.19	0.16	-0.27	0.38
02/26/10 08:25		1331.00	238.24			2155.70	172.14	1876.30	78.15			-0.21	0.14	-0.15	0.48
02/26/10 08:26		993.90	228.03			1909.10	157.17	1457.00	62.49			-0.28	0.16	-0.17	0.56
02/26/10 08:27		3495.00	589.19			1686.80	158.77	1174.90	49.61			0.32	0.57	0.47	1.07
02/26/10 08:28		3495.00	589.19			1530.60	153.52	1174.90	49.61			0.36	0.58	0.47	1.07
02/26/10 08:29		3484.50	520.34			3238.80	250.81	895.80	41.70			0.03	0.32	0.59	1.10
02/26/10 08:30		2868.90	446.45			3238.80	250.81	895.80	41.70			-0.05	0.25	0.51	1.03
02/26/10 08:31		2231.70	415.80			3907.70	320.97	1432.50	99.86			-0.24	0.11	0.19	0.62
02/26/10 08:32		1740.30	291.06			3357.90	285.62	1103.80	73.92			-0.29	0.01	0.20	0.60
02/26/10 08:33		1180.20	212.34			3357.90	285.62	995.30	66.12			-0.45	-0.13	0.07	0.51
02/26/10 08:34		681.20	137.80			2660.20	225.48	995.30	66.12			-0.59	-0.21	-0.16	0.32
02/26/10 08:35		3664.20	399.74			2171.90	174.96	1026.00	59.05			0.23	0.36	0.55	0.83
02/26/10 08:36		3069.50	999.30			2171.90	174.96	2179.80	119.76			0.15	0.76	0.15	0.92
02/26/10 08:37						2172.90	156.01	1424.70	120.13						
02/26/10 08:38		1884.60	1075.20			2172.90	156.01	1424.70	120.13			-0.06	0.84	0.12	0.95
02/26/10 08:39		1257.00	946.20			1673.80	103.13	1206.20	120.95			-0.12	0.96	0.02	0.89
02/26/10 08:40		737.40	705.30			1553.50	104.49	1040.40	124.19			-0.32	0.83	-0.15	0.75
02/26/10 08:41						1497.50	102.86	804.40	119.24						
02/26/10 08:42		239.66	269.66			1497.50	102.86	804.40	119.24			-0.80	0.42	-0.53	0.35
02/26/10 08:43		4768.00				1557.20	91.74	811.50	138.82			0.49		0.77	
02/26/10 08:44		246.79	182.21			1391.70	90.66	808.20	127.29			-0.75	0.30	-0.52	0.16
02/26/10 08:45		371.84	219.04			1216.90	75.38	704.40	134.00			-0.51	0.46	-0.28	0.21
02/26/10 08:46		478.53	210.14			1182.80	55.41	692.10	126.19			-0.39	0.58	-0.16	0.22
02/26/10 08:47		424.57	156.36			1063.80	49.49	860.90	123.47			-0.40	0.50	-0.31	0.10
02/26/10 08:48		219.22	83.92			978.00	38.75	861.10	115.07			-0.65	0.34	-0.59	-0.14
02/26/10 08:49		163.16	62.77			968.50	32.87	729.50	109.78			-0.77	0.28	-0.65	-0.24
02/26/10 08:50		117.87	46.14			934.40	36.30	669.90	103.63			-0.90	0.10	-0.75	-0.35
02/26/10 08:51		107.12	55.28			906.30	32.77	679.00	96.15			-0.93	0.23	-0.80	-0.24
02/26/10 08:52		142.52	283.47			904.80	29.38	923.10	112.00			-0.80	0.98	-0.81	0.40
02/26/10 08:53		247.91	492.11			893.20	28.16	608.25	87.84			-0.56	1.24	-0.39	0.75
02/26/10 08:54		466.68	825.90			931.90	27.71	552.49	83.36			-0.30	1.47	-0.07	1.00
02/26/10 08:55		835.90	1219.50			919.20	28.27	638.35	104.48			-0.04	1.63	0.12	1.07
02/26/10 08:56		901.50	1135.90			1029.50	33.18	621.12	115.38			-0.06	1.53	0.16	0.99
02/26/10 08:57		1639.50	1921.00			1010.30	31.39	581.40	110.54			0.21	1.79	0.45	1.24
02/26/10 08:58		1583.50	2032.00			920.70	29.18	571.29	117.14			0.24	1.84	0.44	1.24
02/26/10 08:59		1957.70	2248.70			888.90	28.19	586.09	113.74			0.34	1.90	0.52	1.30
02/26/10 09:00	0.00	1740.10	2174.20	575.47	112.88	904.30	25.12			0.48	1.28	0.28	1.94		
02/26/10 09:01	0.02	1013.30	953.40	562.55	104.56	876.60	24.84			0.26	0.96	0.06	1.58		
02/26/10 09:02	0.03	729.80	778.90	597.22	104.94	3725.30	474.42			0.09	0.87	-0.71	0.22		
02/26/10 09:03	0.05	808.40	894.10	624.15	114.55	8846.00	1659.80			0.11	0.89	-1.04	-0.27		
02/26/10 09:04	0.07			702.40	126.48	8662.00	1402.00								
02/26/10 09:05	0.08	2100.20	882.80	538.88	107.17	7195.00	900.80			0.59	0.92	-0.53	-0.01		
02/26/10 09:06	0.10	1879.00	589.20	381.11	67.23	5417.10	562.00			0.69	0.94	-0.46	0.02		
02/26/10 09:07	0.12	1380.20	383.53	230.85	41.29	4325.70	373.14			0.78	0.97	-0.50	0.01		
02/26/10 09:08	0.13	1886.30	574.40	180.43	28.33	4338.30	360.31			1.02	1.31	-0.36	0.20		
02/26/10 09:09	0.15	1320.80	461.94	133.45	24.35	4132.00	304.83			1.00	1.28	-0.50	0.18		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 09:10	0.17	1221.20	383.35	133.80	22.05	3572.00	225.90			0.96	1.24	-0.47	0.23		
02/26/10 09:11	0.18	1146.40	340.07	99.06	16.93	2970.40	183.36			1.06	1.30	-0.41	0.27		
02/26/10 09:12	0.20	1127.40	281.76	80.19	13.52	2364.90	144.69			1.15	1.32	-0.32	0.29		
02/26/10 09:13	0.22	1078.60	237.69	77.59	12.68	1624.00	97.86			1.14	1.27	-0.18	0.39		
02/26/10 09:14	0.23	1160.30	152.01	68.42	10.86	1506.80	87.58			1.23	1.15	-0.11	0.24		
02/26/10 09:15	0.25	1138.40	102.03	59.35	9.49	1327.80	77.94			1.28	1.03	-0.07	0.12		
02/26/10 09:16	0.27	854.00	85.96	57.89	8.22	1131.90	70.14			1.17	1.02	-0.12	0.09		
02/26/10 09:17	0.28	890.10	60.13	55.54	8.15	1005.50	61.28			1.20	0.87	-0.05	-0.01		
02/26/10 09:18	0.30	845.10	55.36	37.52	5.67	801.80	48.25			1.35	0.99	0.02	0.06		
02/26/10 09:19	0.32	977.10	56.68	45.69	6.87	646.78	35.66			1.33	0.92	0.18	0.20		
02/26/10 09:20	0.33	788.70	28.57	40.04	4.92	561.42	34.08			1.29	0.76	0.15	-0.08		
02/26/10 09:21	0.35	578.36	10.27	56.53	5.45	459.13	25.97			1.01	0.28	0.10	-0.40		
02/26/10 09:22	0.37	548.49	5.00	61.38	5.03	446.44	27.07			0.95	0.00	0.09	-0.73		
02/26/10 09:23	0.38	377.63	2.41	50.00	6.77	325.07	20.72			0.88	-0.45	0.07	-0.93		
02/26/10 09:24	0.40	334.68	1.26	31.42	3.95	234.17	14.79			1.03	-0.50	0.16	-1.07		
02/26/10 09:25	0.42	428.58	1.36	116.04	6.20	220.95	11.90			0.57	-0.66	0.29	-0.94		
02/26/10 09:26	0.43	317.36	1.60	33.52	3.55	225.34	11.90			0.98	-0.35	0.15	-0.87		
02/26/10 09:27	0.45	231.53	1.51	102.65	5.74	151.78	9.16			0.35	-0.58	0.18	-0.78		
02/26/10 09:28	0.47	252.92	454.68	588.09	78.97	169.78	12.32			-0.37	0.76	0.17	1.57		
02/26/10 09:29	0.48	2928.50	2059.30	251.56	33.16	127.44	8.71			1.07	1.79	1.36	2.37		
02/26/10 09:30	0.50	2954.30	1070.20	127.38	16.19	114.65	7.01			1.37	1.82	1.41	2.18		
02/26/10 09:31	0.52	3548.20	833.30	75.19	8.99	103.87	5.84			1.67	1.97	1.53	2.15		
02/26/10 09:32	0.53	3671.40	708.90	62.49	8.13	81.13	4.50			1.77	1.94	1.66	2.20		
02/26/10 09:33	0.55	3873.60	581.35	60.86	6.94	60.39	3.55			1.80	1.92	1.81	2.21		
02/26/10 09:34	0.57	3564.80	808.50	56.70	5.78	60.11	3.43			1.80	2.15	1.77	2.37		
02/26/10 09:35	0.58	3740.40	528.30	51.46	6.12	57.60	3.30			1.86	1.94	1.81	2.20		
02/26/10 09:36	0.60	3469.60	459.63	58.05	5.57	58.28	3.16			1.78	1.92	1.77	2.16		
02/26/10 09:37	0.62	3919.30	346.02	39.97	4.75	48.97	2.72			1.99	1.86	1.90	2.10		
02/26/10 09:38	0.63	3725.30	296.90	30.55	3.99	42.02	2.42			2.09	1.87	1.95	2.09		
02/26/10 09:39	0.65	3458.80	277.26	35.44	4.12	48.49	2.52			1.99	1.83	1.85	2.04		
02/26/10 09:40	0.67	3018.40	382.21	24.75	3.97	36.14	1.86			2.09	1.98	1.92	2.31		
02/26/10 09:41	0.68	3310.40	318.70	21.99	2.46					2.18	2.11				
02/26/10 09:42	0.70	3310.40	318.70			35.15	1.87					1.97	2.23		
02/26/10 09:43	0.72	3809.90	436.57	20.03	2.77	35.15	1.87			2.28	2.20	2.03	2.37		
02/26/10 09:44	0.73	3037.70	386.92	13.08	2.76	30.29	1.47			2.37	2.15	2.00	2.42		
02/26/10 09:45	0.75	3505.20	327.33	12.47	2.28	30.29	1.47			2.45	2.16	2.06	2.35		
02/26/10 09:46	0.77	3190.80	336.85	12.47	2.28	28.92	1.44			2.41	2.17	2.04	2.37		
02/26/10 09:47	0.78	3061.80	323.46	12.96	1.62	26.88	1.34			2.37	2.30	2.06	2.38		
02/26/10 09:48	0.80	3084.50	263.78	8.49	1.70	20.79	1.15			2.56	2.19	2.17	2.36		
02/26/10 09:49	0.82	3240.60	541.02	8.49	1.70	19.83	1.32			2.58	2.50	2.21	2.61		
02/26/10 09:50	0.83	3150.90	269.61	10.62	1.14	16.75	1.38			2.47	2.37	2.27	2.29		
02/26/10 09:51	0.85	3702.90	311.50	9.32	1.14	15.57	1.27			2.60	2.44	2.38	2.39		
02/26/10 09:52	0.87	3555.20	317.73	12.02	0.88	18.19	0.77			2.47	2.56	2.29	2.62		
02/26/10 09:53	0.88	3767.30	370.18	11.32	0.88	17.41	1.01			2.52	2.62	2.34	2.56		
02/26/10 09:54	0.90	3074.50	339.96	10.24	0.80	15.05	1.07			2.48	2.63	2.31	2.50		
02/26/10 09:55	0.92	2522.70	281.80	6.68	0.65	11.14	1.13			2.58	2.64	2.35	2.40		
02/26/10 09:56	0.93	3757.60	313.21	10.41	0.46	11.34	0.55			2.56	2.83	2.52	2.76		
02/26/10 09:57	0.95	3106.40	362.83	10.41	0.46	10.78	0.67			2.47	2.90	2.46	2.73		
02/26/10 09:58	0.97	2907.40	294.53	4.22	0.44	8.59	0.55			2.84	2.83	2.53	2.73		
02/26/10 09:59	0.98	3818.80	347.14	5.46	0.43	9.81	0.76			2.84	2.91	2.59	2.66		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 10:00	1.00	3416.50	268.94	6.11	0.91	10.10	0.55			2.75	2.47	2.53	2.69		
02/26/10 10:01	1.02	2663.90	273.47	4.91	0.35	7.73	0.47			2.73	2.89	2.54	2.76		
02/26/10 10:02	1.03	2663.90	273.47	4.91	0.35	7.73	0.47			2.73	2.89	2.54	2.76		
02/26/10 10:03	1.05	3061.60	294.06	4.30	0.61	6.09	0.52			2.85	2.68	2.70	2.75		
02/26/10 10:04	1.07	2858.00	306.47	3.44	0.39	8.22	0.60			2.92	2.90	2.54	2.71		
02/26/10 10:05	1.08	3680.00	311.76	3.75	0.30	7.64	0.56			2.99	3.02	2.68	2.75		
02/26/10 10:06	1.10	3315.90	303.16	3.93	0.26	6.19	0.34			2.93	3.07	2.73	2.95		
02/26/10 10:07	1.12	3660.30	308.82	7.81	0.38	6.69	0.52			2.67	2.91	2.74	2.77		
02/26/10 10:08	1.13	3886.70	344.72	3.23	0.31	5.43	0.21			3.08	3.05	2.85	3.22		
02/26/10 10:09	1.15			4.48	0.48	10.44	0.29								
02/26/10 10:10	1.17	3848.20	288.40	3.88	0.48	10.44	0.29			3.00	2.78	2.57	3.00		
02/26/10 10:11	1.18	4260.60	372.21	3.01	0.25	7.15	0.34			3.15	3.17	2.78	3.04		
02/26/10 10:12	1.20	4194.10	325.60	2.53	0.31	3.92	0.30			3.22	3.02	3.03	3.04		
02/26/10 10:13	1.22	4356.00	313.88	1.96	0.04	4.27	0.44			3.35	3.89	3.01	2.85		
02/26/10 10:14	1.23	3842.60	313.43	3.54	0.26	4.10	0.44			3.04	3.08	2.97	2.85		
02/26/10 10:15	1.25	3444.00	280.70	2.14	0.17	4.14	0.35			3.21	3.22	2.92	2.90		
02/26/10 10:16	1.27	4021.50	311.79	2.05	0.17	4.15	0.04			3.29	3.26	2.99	3.89		
02/26/10 10:17	1.28	3865.70	291.63	2.05	0.17	4.15	0.04			3.28	3.23	2.97	3.86		
02/26/10 10:18	1.30	3414.60	258.34	2.14	0.26	2.66	0.17			3.20	3.00	3.11	3.18		
02/26/10 10:19	1.32	3880.90	280.82	1.52	0.26	2.93	0.13			3.41	3.03	3.12	3.33		
02/26/10 10:20	1.33	4101.90	296.56	1.65	0.17	2.62	0.04			3.40	3.24	3.19	3.87		
02/26/10 10:21	1.35	3961.50	482.53	1.92	0.17	2.58	0.22			3.31	3.45	3.19	3.34		
02/26/10 10:22	1.37	4070.30	299.51	1.25		3.54	0.22			3.51		3.06	3.13		
02/26/10 10:23	1.38	3948.80	293.74	2.27	0.31	2.45	0.22			3.24	2.98	3.21	3.13		
02/26/10 10:24	1.40			8.64	0.47	1.87	0.17								
02/26/10 10:25	1.42	3752.80	241.93	2.53	0.17					3.17	3.15				
02/26/10 10:26	1.43	3643.80	274.45	2.53	0.17	4.28	0.22			3.16	3.21	2.93	3.10		
02/26/10 10:27	1.45	4374.30	277.05	3.49	0.22	3.15	0.08			3.10	3.10	3.14	3.54		
02/26/10 10:28	1.47	4218.10	292.14	2.71	0.26	2.18	0.26			3.19	3.05	3.29	3.05		
02/26/10 10:29	1.48	3580.10	326.45	2.09	0.04	1.87	0.13			3.23	3.91	3.28	3.40		
02/26/10 10:30	1.50	3519.20	277.53	2.58	0.17	1.70	0.08			3.13	3.21	3.32	3.54		
02/26/10 10:31	1.52			6.49	0.17	2.71	0.13								
02/26/10 10:32	1.53	4141.60	258.16	6.49	0.17	2.14	0.08			2.80	3.18	3.29	3.51		
02/26/10 10:33	1.55	4255.70	306.40	1.87	0.17	2.40	0.04			3.36	3.26	3.25	3.88		
02/26/10 10:34	1.57	4255.70	306.40	1.87	0.17	1.21	0.26			3.36	3.26	3.55	3.07		
02/26/10 10:35	1.58	4033.60	298.06	1.74	0.04	1.92	0.08			3.37	3.87	3.32	3.57		
02/26/10 10:36	1.60	3414.90	237.43	5.52	0.13	2.18	0.08			2.79	3.26	3.19	3.47		
02/26/10 10:37	1.62	4371.00	273.06	2.10	0.08	1.79	0.04			3.32	3.53	3.39	3.83		
02/26/10 10:38	1.63	4084.10	270.92	1.47	0.04	1.52	0.17			3.44	3.83	3.43	3.20		
02/26/10 10:39	1.65	3662.10	287.54	1.61	0.31	1.34	0.04			3.36	2.97	3.44	3.86		
02/26/10 10:40	1.67	3634.30	274.45	1.25	0.08	1.34				3.46	3.54	3.43			
02/26/10 10:41	1.68	3634.30	274.45			1.34						3.43			
02/26/10 10:42	1.70	3985.80	285.93	1.52	0.08	1.03	0.08			3.42	3.55	3.59	3.55		
02/26/10 10:43	1.72	4102.40	430.01	1.16		1.92	0.08			3.55		3.33	3.73		
02/26/10 10:44	1.73	4076.40	273.74	1.34	0.13	1.47	0.17			3.48	3.32	3.44	3.21		
02/26/10 10:45	1.75	3900.80	261.81	1.25	0.13	1.78	0.13			3.49	3.30	3.34	3.30		
02/26/10 10:46	1.77	4402.50	265.34	1.25	0.22	1.65	0.17			3.55	3.08	3.43	3.19		
02/26/10 10:47	1.78	4150.10	279.94	0.72	0.09	0.98	0.26			3.76	3.49	3.63	3.03		
02/26/10 10:48	1.80	4099.00	289.55	1.34	0.08	1.78	0.08			3.49	3.56	3.36	3.56		
02/26/10 10:49	1.82	4191.40	273.30	1.78	0.13	0.80	0.08			3.37	3.32	3.72	3.53		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 10:50	1.83	4304.50	284.73	1.12	0.08	3.71	0.13			3.58	3.55	3.06	3.34		
02/26/10 10:51	1.85	3985.80	298.36	1.03	0.13	1.83	0.13			3.59	3.36	3.34	3.36		
02/26/10 10:52	1.87	4018.50	432.30	1.21	0.13	0.98	0.04			3.52	3.52	3.61	4.03		
02/26/10 10:53	1.88	4176.00	283.60	0.85	0.08	0.85	0.13			3.69	3.55	3.69	3.34		
02/26/10 10:54	1.90	3972.70	297.37	0.72		0.72	0.09			3.74		3.74	3.52		
02/26/10 10:55	1.92	3538.20	248.21	1.56	0.08	1.38	0.22			3.36	3.49	3.41	3.05		
02/26/10 10:56	1.93	3807.00	264.50	1.61	0.04	1.16				3.37	3.82	3.52			
02/26/10 10:57	1.95	4253.10	295.70	1.30	0.17	0.85	0.08			3.51	3.24	3.70	3.57		
02/26/10 10:58	1.97	3861.30	253.20	2.08	0.08	1.60	0.04			3.27	3.50	3.38	3.80		
02/26/10 10:59	1.98	3875.20	318.92	1.21	0.13	1.47	0.13			3.51	3.39	3.42	3.39		
02/26/10 11:00	2.00	4046.50	278.12	1.07	0.04	0.45	0.09			3.58	3.84	3.95	3.49		
02/26/10 11:01	2.02	4326.60	280.09	1.30	0.04	1.34	0.13			3.52	3.85	3.51	3.33		
02/26/10 11:02	2.03	4122.60	239.89	1.03	0.04	0.67	0.17			3.60	3.78	3.79	3.15		
02/26/10 11:03	2.05	4273.30	260.49	1.30	0.13	0.67	0.13			3.52	3.30	3.80	3.30		
02/26/10 11:04	2.07	4050.70	230.49	2.05	0.04	1.03				3.30	3.76	3.59			
02/26/10 11:05	2.08	4263.80	248.76	2.04	0.04	1.13	0.13			3.32	3.79	3.58	3.28		
02/26/10 11:06	2.10	4353.80	252.40	1.91		1.74	0.08			3.36		3.40	3.50		
02/26/10 11:07	2.12	4452.90	276.35	1.34	0.08	0.94	0.04			3.52	3.54	3.68	3.84		
02/26/10 11:08	2.13	4391.70	277.03	0.85	0.08	1.34	0.08			3.71	3.54	3.52	3.54		
02/26/10 11:09	2.15	4389.00	262.61	1.43	0.08	2.18				3.49	3.52	3.30			
02/26/10 11:10	2.17	4390.70	283.12	1.82	0.40	0.63	0.13			3.38	2.85	3.84	3.34		
02/26/10 11:11	2.18	4155.40	297.38	2.22	0.31	0.98	0.04			3.27	2.98	3.63	3.87		
02/26/10 11:12	2.20	4403.80	283.76	6.66	0.17	1.21	0.13			2.82	3.22	3.56	3.34		
02/26/10 11:13	2.22	4392.30	281.00	1.11	0.26	1.52	0.22			3.60	3.03	3.46	3.11		
02/26/10 11:14	2.23	4257.40	276.79	0.62	0.13	0.67				3.84	3.33	3.80			
02/26/10 11:15	2.25	4431.00	293.30	1.30		0.98				3.53		3.66			
02/26/10 11:16	2.27	4357.10	260.45	2.84	0.08	0.94				3.19	3.51	3.67			
02/26/10 11:17	2.28	4152.90	278.71	4.96	1.82	1.12				2.92	2.19	3.57			
02/26/10 11:18	2.30	4482.60	276.52	3.31	0.79	1.30	0.04			3.13	2.54	3.54	3.84		
02/26/10 11:19	2.32	3991.00	233.45	5.94	0.34	1.61	0.26			2.83	2.84	3.39	2.95		
02/26/10 11:20	2.33	3924.60	298.59	1.21	0.17	1.56	0.13			3.51	3.24	3.40	3.36		
02/26/10 11:21	2.35	4275.10	275.52	1.74	0.31	0.98	0.04			3.39	2.95	3.64	3.84		
02/26/10 11:22	2.37	4259.80	312.48	1.52	0.04	0.49				3.45	3.89	3.94			
02/26/10 11:23	2.38	4421.10	254.86	1.16	0.17	1.30	0.13			3.58	3.18	3.53	3.29		
02/26/10 11:24	2.40	4472.50	268.44	1.16	0.17	0.54	0.09			3.59	3.20	3.92	3.47		
02/26/10 11:25	2.42	4244.40	291.08	0.89	0.04	1.25				3.68	3.86	3.53			
02/26/10 11:26	2.43	4405.20	301.52	0.89	0.04	1.61	0.04			3.69	3.88	3.44	3.88		
02/26/10 11:27	2.45	4092.90	296.86	0.98	0.08	0.31				3.62	3.57	4.12			
02/26/10 11:28	2.47	3836.50	286.09	0.89	0.08	0.89	0.08			3.63	3.55	3.63	3.55		
02/26/10 11:29	2.48	3921.50	276.66	1.39	0.08	0.58	0.09			3.45	3.54	3.83	3.49		
02/26/10 11:30	2.50	4000.60	305.36	1.48		1.03	0.04			3.43		3.59	3.88		
02/26/10 11:31	2.52	4036.50	310.90	0.80	0.13	0.76	0.08			3.70	3.38	3.73	3.59		
02/26/10 11:32	2.53	3977.90	306.37	0.58	0.04	0.63	0.09			3.84	3.88	3.80	3.53		
02/26/10 11:33	2.55	4071.00	288.08	0.81	0.04	1.16				3.70	3.86	3.55			
02/26/10 11:34	2.57	3606.20	298.55	0.80	0.08	0.85	0.08			3.65	3.57	3.63	3.57		
02/26/10 11:35	2.58	3891.10	311.74	0.63	0.04	1.16	0.04			3.79	3.89	3.53	3.89		
02/26/10 11:36	2.60			0.63	0.09	0.80	0.08								
02/26/10 11:37	2.62	3774.30	299.60	0.67		38.33	0.10			3.75		1.99	3.48		
02/26/10 11:38	2.63	4173.90	264.53	1.79	0.13	12.05	0.04			3.37	3.31	2.54	3.82		
02/26/10 11:39	2.65	4060.50	253.62	1.30	0.13	4.62	0.04			3.49	3.29	2.94	3.80		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 11:40	2.67	4298.60	293.06	1.56	0.04	11.88	0.21			3.44	3.86	2.56	3.14		
02/26/10 11:41	2.68	4298.60	293.06	0.31		4.36	0.04			4.14		2.99	3.86		
02/26/10 11:42	2.70	4279.10	287.80	4.84	0.08	0.36	0.13			2.95	3.56	4.08	3.35		
02/26/10 11:43	2.72	4059.00	274.08	4.84	0.08	0.36	0.13			2.92	3.53	4.05	3.32		
02/26/10 11:44	2.73	4098.00	272.95	1.03	0.08	0.58	0.09			3.60	3.53	3.85	3.48		
02/26/10 11:45	2.75	4098.80	294.67	0.40	0.09	0.89	0.04			4.01	3.52	3.66	3.87		
02/26/10 11:46	2.77	3988.20	283.07	0.71	0.17	7.12	0.13			3.75	3.22	2.75	3.34		
02/26/10 11:47	2.78	3960.20	291.24	0.89		0.94				3.65		3.62			
02/26/10 11:48	2.80	4392.40	266.42	0.81		0.63				3.73		3.84			
02/26/10 11:49	2.82	3868.20	289.26	0.81		1.34	0.04			3.68		3.46	3.86		
02/26/10 11:50	2.83	4320.10	314.20	0.72	0.04	4.10	0.13			3.78	3.90	3.02	3.38		
02/26/10 11:51	2.85	4039.10	451.25	0.72	0.04	0.49				3.75	4.05	3.92			
02/26/10 11:52	2.87	4308.20	323.67	0.40		0.27	0.04			4.03		4.20	3.91		
02/26/10 11:53	2.88	4514.40	245.09	4.19		0.45	0.04			3.03		4.00	3.79		
02/26/10 11:54	2.90	4437.40	265.02	4.19		0.85	0.04			3.02		3.72	3.82		
02/26/10 11:55	2.92	3400.90	355.77	1.16	0.22	0.85	0.04			3.47	3.21	3.60	3.95		
02/26/10 11:56	2.93	3120.80	311.59	1.09	0.04	0.63	0.18			3.46	3.89	3.69	3.24		
02/26/10 11:57	2.95	2701.70	275.22	0.27	0.04	0.67	0.04			4.00	3.84	3.61	3.84		
02/26/10 11:58	2.97	3436.40	300.23	0.76		0.22	0.09			3.66		4.19	3.52		
02/26/10 11:59	2.98	3436.40	300.23	0.76		0.22	0.09			3.66		4.19	3.52		
02/26/10 12:00	3.00	3477.40	317.44	0.40		0.40	0.18			3.94		3.94	3.25		
02/26/10 12:01	3.02	3477.40	317.44	1.17	0.08	0.54				3.47	3.60	3.81			
02/26/10 12:02	3.03	3780.60	295.99	1.17	0.08	0.54				3.51	3.57	3.85			
02/26/10 12:03	3.05	3847.90	319.64	0.22	0.04	4.49	0.04			4.24	3.90	2.93	3.90		
02/26/10 12:04	3.07	3309.50	282.61	1.12	0.04	0.36	0.04			3.47	3.85	3.96	3.85		
02/26/10 12:05	3.08	2751.90	275.38	1.03		0.31				3.43		3.95			
02/26/10 12:06	3.10	3287.30	315.30	2.10	0.04	0.45				3.19	3.90	3.86			
02/26/10 12:07	3.12	3715.60	304.54	0.63	0.09	0.58	0.09			3.77	3.53	3.81	3.53		
02/26/10 12:08	3.13	3524.70	315.38	1.47	0.13	0.63				3.38	3.38	3.75			
02/26/10 12:09	3.15	4163.50	319.18	0.85	0.04	0.36	0.04			3.69	3.90	4.06	3.90		
02/26/10 12:10	3.17	3514.80	284.75	0.85	0.04	0.45	0.04			3.62	3.85	3.89	3.85		
02/26/10 12:11	3.18	2675.60	287.58	0.63		0.31				3.63		3.94			
02/26/10 12:12	3.20	2805.90	281.71	0.54		0.49	0.04			3.72		3.76	3.85		
02/26/10 12:13	3.22	3421.40	427.62	0.45	0.09	0.36	0.04			3.88	3.68	3.98	4.03		
02/26/10 12:14	3.23	3156.90	298.44	0.49	0.04	0.71	0.13			3.81	3.87	3.65	3.36		
02/26/10 12:15	3.25	3156.90	298.44	0.49	0.04	0.71	0.13			3.81	3.87	3.65	3.36		
02/26/10 12:16	3.27	2907.70	293.14	0.27		0.76				4.03		3.58			
02/26/10 12:17	3.28	2868.70	276.32	0.94	0.08	0.85	0.04			3.48	3.54	3.53	3.84		
02/26/10 12:18	3.30	3288.90	302.31	0.94	0.08	0.67	0.09			3.54	3.58	3.69	3.53		
02/26/10 12:19	3.32	4216.50	490.17	1.74	0.04	0.76	0.08			3.38	4.09	3.74	3.79		
02/26/10 12:20	3.33	4207.50	506.36	1.16	0.04	0.67				3.56	4.10	3.80			
02/26/10 12:21	3.35	4065.00	488.79	0.40		0.63	0.09			4.01		3.81	3.73		
02/26/10 12:22	3.37	4190.10	484.97	1.39	0.04	0.85				3.48	4.08	3.69			
02/26/10 12:23	3.38	3185.80	363.95	1.87	0.26	0.67				3.23	3.15	3.68			
02/26/10 12:24	3.40	3185.80	363.95	0.89		0.67				3.55		3.68			
02/26/10 12:25	3.42	3369.50	354.88	0.89		0.85	0.04			3.58		3.60	3.95		
02/26/10 12:26	3.43	3077.80	337.37	0.89	0.04	0.94				3.54	3.93	3.52			
02/26/10 12:27	3.45	4050.70	362.97	1.83	0.17	6.45	0.13			3.35	3.33	2.80	3.45		
02/26/10 12:28	3.47	3921.40	337.41	2.18	0.22	1.52	0.31			3.25	3.19	3.41	3.04		
02/26/10 12:29	3.48	2985.50	313.53	1.30	0.08	0.85	0.17			3.36	3.59	3.55	3.27		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 12:30	3.50	3006.30	299.52	3.54	0.17	0.89	0.04			2.93	3.25	3.53	3.87		
02/26/10 12:31	3.52	3509.30	416.97	2.23	0.04	0.67	0.18			3.20	4.02	3.72	3.36		
02/26/10 12:32	3.53	3385.80	348.62	1.48	0.04	1.83	0.17			3.36	3.94	3.27	3.31		
02/26/10 12:33	3.55	2797.30	269.45	0.63	0.09	17.49	0.04			3.65	3.48	2.20	3.83		
02/26/10 12:34	3.57	3784.50	342.31	0.54	0.09	0.49	0.04			3.85	3.58	3.89	3.93		
02/26/10 12:35	3.58	3784.50	342.31	0.54	0.09	0.85				3.85	3.58	3.65			
02/26/10 12:36	3.60	3320.10	336.71	0.76	0.08	0.67				3.64	3.62	3.70			
02/26/10 12:37	3.62	3640.10	313.61	0.80	0.08	0.94				3.66	3.59	3.59			
02/26/10 12:38	3.63	3113.00	361.87	0.72		0.40				3.64		3.89			
02/26/10 12:39	3.65	3162.20	324.41	0.40	0.04	9.56				3.90	3.91	2.52			
02/26/10 12:40	3.67	3510.30	321.26	0.80		5.43	0.08			3.64		2.81	3.60		
02/26/10 12:41	3.68			0.76	0.09	0.49	0.13								
02/26/10 12:42	3.70	3196.60	370.59	0.76	0.09	0.49	0.13			3.62	3.61	3.81	3.45		
02/26/10 12:43	3.72	3144.10	300.84	0.45	0.04	0.80	0.08			3.84	3.88	3.59	3.58		
02/26/10 12:44	3.73	4015.00	360.36	0.49	0.09	0.98	0.08			3.91	3.60	3.61	3.65		
02/26/10 12:45	3.75	3786.10	340.16	0.45	0.04	0.72	0.04			3.92	3.93	3.72	3.93		
02/26/10 12:46	3.77	3061.90	305.18	0.45	0.09	0.36	0.04			3.83	3.53	3.93	3.88		
02/26/10 12:47	3.78	3044.60	301.07	1.74	0.04	1.12				3.24	3.88	3.43			
02/26/10 12:48	3.80	3725.50	413.85	4.62	0.08	0.27	0.09			2.91	3.71	4.14	3.66		
02/26/10 12:49	3.82	3573.50	310.34	0.94	0.04	0.45				3.58	3.89	3.90			
02/26/10 12:50	3.83	3971.10	359.60	2.18	0.08	0.49	0.04			3.26	3.65	3.91	3.95		
02/26/10 12:51	3.85	3260.10	302.13	0.63	0.04	0.76	0.08			3.71	3.88	3.63	3.58		
02/26/10 12:52	3.87	2900.90	290.11	0.67	0.09	0.67	0.04			3.64	3.51	3.64	3.86		
02/26/10 12:53	3.88	2887.30	294.95	0.40		0.36	0.04			3.86		3.90	3.87		
02/26/10 12:54	3.90	2800.40	285.61	0.76		3.75				3.57		2.87			
02/26/10 12:55	3.92	2725.20	282.84	0.36	0.04	7.04				3.88	3.85	2.59			
02/26/10 12:56	3.93	3117.80	298.73			0.63	0.04					3.69	3.87		
02/26/10 12:57	3.95	3117.50	310.57	1.78	0.13	0.45	0.13			3.24	3.38	3.84	3.38		
02/26/10 12:58	3.97	3161.30	307.39	2.97		7.29	0.04			3.03		2.64	3.89		
02/26/10 12:59	3.98	2813.40	265.71	2.67	0.22	2.27	0.13			3.02	3.08	3.09	3.31		
02/26/10 13:00	4.00	3744.70	300.25	1.96	0.04	1.07	0.04			3.28	3.88	3.54	3.88		
02/26/10 13:01	4.02	3029.90	281.63	0.63	0.09	1.61	0.08			3.68	3.50	3.27	3.55		
02/26/10 13:02	4.03	3560.50	303.76	0.67	0.09	0.58				3.73	3.53	3.79			
02/26/10 13:03	4.05	3010.90	278.49	0.94	0.13	0.96				3.51	3.33	3.50			
02/26/10 13:04	4.07	3435.60	321.05	0.89	0.08	0.76	0.04			3.59	3.60	3.66	3.90		
02/26/10 13:05	4.08	3585.20	316.73			19.66	0.20					2.26	3.20		
02/26/10 13:06	4.10	3965.10	333.50	1.52		0.67	0.04			3.42		3.77	3.92		
02/26/10 13:07	4.12	2651.30	256.78	0.67	0.09	0.98	0.04			3.60	3.46	3.43	3.81		
02/26/10 13:08	4.13	2652.30	299.40	4.84	0.04	0.72	0.04			2.74	3.87	3.57	3.87		
02/26/10 13:09	4.15	3539.50	341.33	0.54	0.04	0.36				3.82	3.93	3.99			
02/26/10 13:10	4.17	3172.40	298.83	0.67	0.04	0.27				3.68	3.87	4.07			
02/26/10 13:11	4.18	2683.80	291.25	3.37	0.08	0.45				2.90	3.56	3.78			
02/26/10 13:12	4.20	2606.20	288.70	0.89	0.04	0.27				3.47	3.86	3.98			
02/26/10 13:13	4.22	3196.80	296.35	0.22	0.04	4.62	0.08			4.16	3.87	2.84	3.57		
02/26/10 13:14	4.23	3172.80	340.89	0.81		0.13	0.09			3.59		4.39	3.58		
02/26/10 13:15	4.25	3394.50	315.65	0.49	0.09	0.85	0.04			3.84	3.54	3.60	3.90		
02/26/10 13:16	4.27	3382.10	296.33	0.36	0.04	0.63	0.04			3.97	3.87	3.73	3.87		
02/26/10 13:17	4.28	3927.40	326.19	1.25	0.17	2.53	0.22			3.50	3.28	3.19	3.17		
02/26/10 13:18	4.30	2841.90	317.33	0.31		4.66	0.13			3.96		2.79	3.39		
02/26/10 13:19	4.32	3364.70	303.59	0.67		0.49	0.04			3.70		3.84	3.88		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 13:20	4.33	3563.30	369.16	0.36		0.76	0.09			4.00		3.67	3.61		
02/26/10 13:21	4.35	3339.10	341.48	0.58		0.85	0.04			3.76		3.59	3.93		
02/26/10 13:22	4.37	3341.90	313.17	0.67		0.31				3.70		4.03			
02/26/10 13:23	4.38	3282.10	349.67	0.49	0.04	14.16	0.08			3.83	3.94	2.37	3.64		
02/26/10 13:24	4.40	2953.10	284.14	0.45	0.04	1.16	0.08			3.82	3.85	3.41	3.55		
02/26/10 13:25	4.42	3373.50	307.70	1.61		0.80	0.08			3.32		3.62	3.59		
02/26/10 13:26	4.43	4055.10	356.85	4.71	0.04	1.34				2.93	3.95	3.48			
02/26/10 13:27	4.45	3518.50	352.63	1.03	0.04	5.22	0.21			3.53	3.95	2.83	3.23		
02/26/10 13:28	4.47	3800.70	324.14	1.78	0.17	1.12	0.13			3.33	3.28	3.53	3.40		
02/26/10 13:29	4.48	3427.00	308.94	1.74	0.13	1.61	0.17			3.29	3.38	3.33	3.26		
02/26/10 13:30	4.50	3711.80	340.34	1.48	0.04	19.71	0.08			3.40	3.93	2.27	3.63		
02/26/10 13:31	4.52	3246.10	386.40	0.72	0.04	0.27	0.09			3.65	3.98	4.08	3.63		
02/26/10 13:32	4.53	3422.60	315.29	0.49	0.09	0.27	0.04			3.84	3.54	4.10	3.90		
02/26/10 13:33	4.55	3342.70	321.82	1.21		1.96	0.22			3.44		3.23	3.17		
02/26/10 13:34	4.57	3836.40	341.87	0.72	0.09	0.94	0.04			3.73	3.58	3.61	3.93		
02/26/10 13:35	4.58	3423.10	344.74	0.89	0.08	1.16	0.13			3.59	3.63	3.47	3.42		
02/26/10 13:36	4.60			0.85	0.04	0.45	0.04								
02/26/10 13:37	4.62			0.40	0.04	5.31	0.26								
02/26/10 13:38	4.63			0.49	0.09	22.37	0.07								
02/26/10 13:39	4.65	3707.00	343.40	0.72		0.45				3.71		3.92			
02/26/10 13:40	4.67	3707.00	343.40	0.27	0.04	0.58	0.04			4.14	3.93	3.81	3.93		
02/26/10 13:41	4.68	3255.70	332.41	0.63		0.36				3.71		3.96			
02/26/10 13:42	4.70	3959.40	350.66	0.22		0.40	0.09			4.26		4.00	3.59		
02/26/10 13:43	4.72	3566.80	344.81	0.22		0.40	0.09			4.21		3.95	3.58		
02/26/10 13:44	4.73	3195.00	328.87	0.58	0.04	0.36	0.04			3.74	3.91	3.95	3.91		
02/26/10 13:45	4.75	3312.90	327.62	0.36	0.04	7.79	0.04			3.96	3.91	2.63	3.91		
02/26/10 13:46	4.77	3195.50	349.63	0.81		8.41	0.12			3.60		2.58	3.46		
02/26/10 13:47	4.78	2588.30	294.38	0.54		0.80				3.68		3.51			
02/26/10 13:48	4.80			0.49		1.25	0.17								
02/26/10 13:49	4.82			4.62	0.04	0.22	0.04								
02/26/10 13:50	4.83	2992.60	324.37	0.54	0.09	4.75	0.08			3.74	3.56	2.80	3.61		
02/26/10 13:51	4.85	3507.40	331.05	7.77	0.30					2.65	3.04				
02/26/10 13:52	4.87	3589.80	451.44	7.77	0.30	0.67				2.66	3.18	3.73			
02/26/10 13:53	4.88	4014.20	363.68	8.20	0.12	10.60	0.17			2.69	3.48	2.58	3.33		
02/26/10 13:54	4.90	4136.60	346.24	11.28	0.33	14.23	0.04			2.56	3.02	2.46	3.94		
02/26/10 13:55	4.92	3467.70	344.12	5.81	0.08	18.45				2.78	3.63	2.27			
02/26/10 13:56	4.93	3443.60	352.21	13.39	0.46	7.99	0.04			2.41	2.88	2.63	3.94		
02/26/10 13:57	4.95	3272.90	311.83	5.46	0.52	5.43	0.08			2.78	2.78	2.78	3.59		
02/26/10 13:58	4.97	3221.60	370.20	2.05	0.31	0.27				3.20	3.08	4.08			
02/26/10 13:59	4.98	3306.90	452.97	1.96	0.08	0.76	0.04			3.23	3.75	3.64	4.05		
02/26/10 14:00	5.00	3384.80	364.42	2.58	0.17	0.36				3.12	3.33	3.97			
02/26/10 14:01	5.02	3876.10	379.63	8.84	0.55	1.47	0.17			2.64	2.84	3.42	3.35		
02/26/10 14:02	5.03	3586.50	337.36	1.83	0.04	0.45	0.09			3.29	3.93	3.90	3.57		
02/26/10 14:03	5.05	3782.60	355.19	2.57	0.88	0.31	0.04			3.17	2.61	4.09	3.95		
02/26/10 14:04	5.07	3946.30	366.31	1.83	0.04	0.45	0.13			3.33	3.96	3.94	3.45		
02/26/10 14:05	5.08	3807.90	419.61	1.83	0.04	1.16	0.04			3.32	4.02	3.52	4.02		
02/26/10 14:06	5.10	3807.90	419.61	1.43	0.13	1.16	0.04			3.43	3.51	3.52	4.02		
02/26/10 14:07	5.12			2.42	0.17	0.89	0.08								
02/26/10 14:08	5.13	3388.10	338.63	1.43	0.13	0.72	0.04			3.37	3.42	3.67	3.93		
02/26/10 14:09	5.15	3240.80	315.17	0.94	0.08	5.99	0.08			3.54	3.60	2.73	3.60		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 14:10	5.17	4076.70	416.27	1.61	0.13	0.67	0.04			3.40	3.51	3.78	4.02		
02/26/10 14:11	5.18	3953.10	352.29	1.61	0.13	0.67	0.04			3.39	3.43	3.77	3.94		
02/26/10 14:12	5.20	3471.50	346.12	11.66	0.88	0.71	0.08			2.47	2.59	3.69	3.64		
02/26/10 14:13	5.22	3088.40	290.07	0.40		0.45				3.89		3.84			
02/26/10 14:14	5.23	3230.10	329.89	2.23	0.08	0.09				3.16	3.62	4.55			
02/26/10 14:15	5.25	3230.10	329.89	1.47	0.13	0.09				3.34	3.40	4.55			
02/26/10 14:16	5.27	3753.40	358.53	1.47	0.13	0.27	0.09			3.41	3.44	4.14	3.60		
02/26/10 14:17	5.28	4236.90	356.20	0.81		0.76	0.08			3.72		3.75	3.65		
02/26/10 14:18	5.30	4236.90	356.20	1.56		0.76	0.08			3.43		3.75	3.65		
02/26/10 14:19	5.32	3932.10	360.96	1.56		23.27	0.15			3.40		2.23	3.38		
02/26/10 14:20	5.33	3874.90	384.57	4.58	0.08	25.73	0.03			2.93	3.68	2.18	4.11		
02/26/10 14:21	5.35	3874.90	384.57	1.12	0.08	25.73	0.03			3.54	3.68	2.18	4.11		
02/26/10 14:22	5.37	3812.10	356.71	1.12	0.08	43.96	0.07			3.53	3.65	1.94	3.71		
02/26/10 14:23	5.38	3190.90	349.64	0.49	0.04	42.33	0.07			3.81	3.94	1.88	3.70		
02/26/10 14:24	5.40	2926.50	315.29	0.81	0.04	1.16	0.08			3.56	3.90	3.40	3.60		
02/26/10 14:25	5.42	4057.90	444.39	0.58		7.24	0.30			3.84		2.75	3.17		
02/26/10 14:26	5.43	4062.50	407.80	0.36		0.94	0.04			4.05		3.64	4.01		
02/26/10 14:27	5.45	3638.90	388.83	0.63		27.49	0.15			3.76		2.12	3.41		
02/26/10 14:28	5.47	3420.50	368.54	0.22	0.04	27.49	0.15			4.19	3.96	2.09	3.39		
02/26/10 14:29	5.48	3785.20	430.14	0.22	0.04	26.27				4.24	4.03	2.16			
02/26/10 14:30	5.50	3703.30	351.07	0.40		36.51	0.14			3.97		2.01	3.40		
02/26/10 14:31	5.52	3200.90	337.08	0.40		36.51	0.14			3.90		1.94	3.38		
02/26/10 14:32	5.53	2773.60	293.01	1.12	0.04	26.89	0.03			3.39	3.86	2.01	3.99		
02/26/10 14:33	5.55	3591.20	342.21	1.43	0.04	26.36	0.07			3.40	3.93	2.13	3.69		
02/26/10 14:34	5.57	3642.70	360.60	0.89	0.08	7.25	0.13			3.61	3.65	2.70	3.44		
02/26/10 14:35	5.58	3524.50	472.60	0.89	0.08	7.25	0.13			3.60	3.77	2.69	3.56		
02/26/10 14:36	5.60	3615.60	405.69	0.49	0.04	0.45	0.09			3.87	4.01	3.90	3.65		
02/26/10 14:37	5.62	3649.50	380.64	0.58	0.09	0.76	0.04			3.80	3.63	3.68	3.98		
02/26/10 14:38	5.63	3540.80	394.56	0.67	0.04	0.45	0.09			3.72	3.99	3.90	3.64		
02/26/10 14:39	5.65	3181.10	316.65	0.76	0.04	0.49	0.04			3.62	3.90	3.81	3.90		
02/26/10 14:40	5.67	3652.70	400.20	1.65	0.17	49.60	0.06			3.35	3.37	1.87	3.82		
02/26/10 14:41	5.68	3159.60	341.14	1.83	0.17	52.37	0.10			3.24	3.30	1.78	3.53		
02/26/10 14:42	5.70	3545.00	369.34	0.98	0.04	60.28	0.06			3.56	3.97	1.77	3.79		
02/26/10 14:43	5.72	3236.30	321.37	0.89	0.04	67.15	0.09			3.56	3.90	1.68	3.55		
02/26/10 14:44	5.73	3686.40	394.07	0.98	0.17	1.25	0.08			3.58	3.37	3.47	3.69		
02/26/10 14:45	5.75	3515.00	388.72	2.01	0.08	0.58				3.24	3.69	3.78			
02/26/10 14:46	5.77	3887.40	444.79	0.72		0.89				3.73		3.64			
02/26/10 14:47	5.78	3265.20	338.66	1.47	0.08	27.31				3.35	3.63	2.08			
02/26/10 14:48	5.80	3607.30	371.17	0.45		18.89	0.12			3.90		2.28	3.49		
02/26/10 14:49	5.82	3746.60	382.65	0.31		0.58	0.09			4.08		3.81	3.63		
02/26/10 14:50	5.83	3468.80	332.23	1.03	0.08	0.98				3.53	3.62	3.55			
02/26/10 14:51	5.85	3974.80	377.17	0.83	0.04	0.49				3.68	3.97	3.91			
02/26/10 14:52	5.87	3771.80	380.45	0.45	0.09	39.67	0.14			3.92	3.63	1.98	3.43		
02/26/10 14:53	5.88			0.98	0.08	22.29	0.03								
02/26/10 14:54	5.90	3770.40	389.02	0.45	0.09	17.98	0.08			3.92	3.64	2.32	3.69		
02/26/10 14:55	5.92	3826.10	381.31	0.98		7.69	0.43			3.59		2.70	2.95		
02/26/10 14:56	5.93	3305.10	360.88	1.07	0.04	0.71	0.04			3.49	3.96	3.67	3.96		
02/26/10 14:57	5.95	3461.60	370.81	1.03	0.04	0.18				3.53	3.97	4.28			
02/26/10 14:58	5.97	3973.70	411.88	0.49		1.92	0.13			3.91		3.32	3.50		
02/26/10 14:59	5.98	3718.20	380.75	0.65		45.48				3.76		1.91			

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 15:00	6.00	3261.10	340.57	0.67		13.41	0.04			3.69		2.39	3.93		
02/26/10 15:01	6.02	3599.10	374.67	0.45	0.04	0.27				3.90	3.97	4.12			
02/26/10 15:02	6.03	4001.90	425.74	0.40	0.09	0.27	0.13			4.00	3.67	4.17	3.52		
02/26/10 15:03	6.05	3347.40	353.47	0.54		0.45	0.09			3.79		3.87	3.59		
02/26/10 15:04	6.07	3548.80	371.32	0.63		0.09				3.75		4.60			
02/26/10 15:05	6.08	3579.70	398.35	6.24	0.17	0.22				2.76	3.37	4.21			
02/26/10 15:06	6.10	3130.00	354.28	3.71	0.22	4.19	0.04			2.93	3.21	2.87	3.95		
02/26/10 15:07	6.12	3309.30	332.64	0.63	0.04	8.12				3.72	3.92	2.61			
02/26/10 15:08	6.13	3433.60	369.09	0.45	0.13	0.27	0.04			3.88	3.45	4.10	3.97		
02/26/10 15:09	6.15	3297.90	375.39	1.07	0.04	22.79	0.11			3.49	3.97	2.16	3.53		
02/26/10 15:10	6.17	3804.50	373.99	0.67	0.09	33.39	0.07			3.75	3.62	2.06	3.73		
02/26/10 15:11	6.18	3234.40	342.18	0.76		35.95	0.11			3.63		1.95	3.49		
02/26/10 15:12	6.20	3919.50	400.50	1.16	0.04	27.44				3.53	4.00	2.15			
02/26/10 15:13	6.22	4135.30	397.84	0.72	0.13	0.31				3.76	3.49	4.13			
02/26/10 15:14	6.23	3315.50	365.66	1.16	0.08	0.18	0.04			3.46	3.66	4.27	3.96		
02/26/10 15:15	6.25	3930.20	406.92	1.07	0.13	0.54	0.04			3.57	3.50	3.86	4.01		
02/26/10 15:16	6.27	4175.00	472.28	0.49		4.23	0.13			3.93		2.99	3.56		
02/26/10 15:17	6.28	4223.40	454.26	0.45	0.04	0.54				3.97	4.06	3.89			
02/26/10 15:18	6.30	3679.80	364.87	5.22	0.08	0.49	0.09			2.85	3.66	3.88	3.61		
02/26/10 15:19	6.32	3574.80	414.39	0.31	0.04	2.18	0.04			4.06	4.02	3.21	4.02		
02/26/10 15:20	6.33	3789.20	383.10	0.36		1.52	0.08			4.02		3.40	3.68		
02/26/10 15:21	6.35	3705.90	386.97	0.58		23.58	0.07			3.81		2.20	3.74		
02/26/10 15:22	6.37	3402.30	340.69	0.45	0.04	21.79	0.07			3.88	3.93	2.19	3.69		
02/26/10 15:23	6.38	3801.50	368.07	4.56	0.48	25.57				2.92	2.88	2.17			
02/26/10 15:24	6.40	3247.30	345.45	1.43		25.40	0.03			3.36		2.11	4.06		
02/26/10 15:25	6.42	3309.10	348.11	0.22		34.48	0.03			4.18		1.98	4.06		
02/26/10 15:26	6.43	3572.50	327.58	0.18		11.30	0.08			4.30		2.50	3.61		
02/26/10 15:27	6.45	3749.20	380.29	0.27	0.09	3.93	0.04			4.14	3.63	2.98	3.98		
02/26/10 15:28	6.47	3849.80	406.17	0.31		8.98	0.04			4.09		2.63	4.01		
02/26/10 15:29	6.48	3576.30	374.97	0.45		2.05	0.22			3.90		3.24	3.23		
02/26/10 15:30	6.50	3980.10	429.34	0.22	0.04	0.27				4.26	4.03	4.17			
02/26/10 15:31	6.52	3904.70	411.97	0.31		0.40	0.04			4.10		3.99	4.01		
02/26/10 15:32	6.53	3640.20	402.40			0.54						3.83			
02/26/10 15:33	6.55	3437.60	358.67	0.49		0.63	0.04			3.85		3.74	3.95		
02/26/10 15:34	6.57	3374.60	337.98			0.45						3.88			
02/26/10 15:35	6.58	3775.90	379.48	0.40		2.18	0.04			3.97		3.24	3.98		
02/26/10 15:36	6.60	3440.30	365.82	0.40		30.32	0.07			3.93		2.05	3.72		
02/26/10 15:37	6.62	3808.90	393.62	0.49	0.04	34.89	0.11			3.89	3.99	2.04	3.55		
02/26/10 15:38	6.63			0.27		22.28	0.07								
02/26/10 15:39	6.65	3602.00	376.91	0.31	0.09	53.46				4.07	3.62	1.83			
02/26/10 15:40	6.67	3866.70	434.21	0.09		29.47	0.38			4.63		2.12	3.06		
02/26/10 15:41	6.68	3475.50	342.90	0.04		17.38	0.16			4.94		2.30	3.33		
02/26/10 15:42	6.70	3393.30	380.65	0.04		1.52	0.26			4.93		3.35	3.17		
02/26/10 15:43	6.72	3251.20	324.36	0.36		8.66	0.21			3.96		2.57	3.19		
02/26/10 15:44	6.73	3331.50	355.94	0.36		8.66	0.21			3.97		2.59	3.23		
02/26/10 15:45	6.75	3820.60	380.50	0.58		1.56	0.08			3.82		3.39	3.68		
02/26/10 15:46	6.77	3344.70	345.62	0.36	0.09	1.56	0.08			3.97	3.58	3.33	3.64		
02/26/10 15:47	6.78	3721.20	444.71	0.36	0.09	0.58				4.01	3.69	3.81			
02/26/10 15:48	6.80	4025.90	391.61	0.40	0.09	0.27				4.00	3.64	4.17			
02/26/10 15:49	6.82	3573.50	390.83	0.49		39.85	0.10			3.86		1.95	3.59		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 15:50	6.83	3503.30	408.65	0.22		5.44				4.20		2.81			
02/26/10 15:51	6.85	3361.90	332.38	0.31		15.74	0.04			4.04		2.33	3.92		
02/26/10 15:52	6.87	3273.60	356.67	1.92	0.08	27.11				3.23	3.65	2.08			
02/26/10 15:53	6.88	3613.10	378.48	0.04	0.04	25.20	0.03			4.96	3.98	2.16	4.10		
02/26/10 15:54	6.90	3912.90	453.13	0.13		16.88	0.12			4.48		2.37	3.58		
02/26/10 15:55	6.92	3884.80	393.39	0.18	0.04	28.51	0.03			4.33	3.99	2.13	4.12		
02/26/10 15:56	6.93	3110.80	337.07	0.27	0.09	7.46				4.06	3.57	2.62			
02/26/10 15:57	6.95	3110.80	337.07	0.27	0.09	7.46				4.06	3.57	2.62			
02/26/10 15:58	6.97	3401.70	421.90	1.16	0.04	8.17	0.08			3.47	4.02	2.62	3.72		
02/26/10 15:59	6.98	3363.20	373.17	0.22		8.17	0.08			4.18		2.61	3.67		
02/26/10 16:00	7.00	3397.50	386.48	0.81		2.53	0.22			3.62		3.13	3.24		
02/26/10 16:01	7.02	3397.50	386.48	0.81		2.53	0.22			3.62		3.13	3.24		
02/26/10 16:02	7.03	3247.10	368.97	0.31		0.40	0.09			4.02		3.91	3.61		
02/26/10 16:03	7.05	3619.50	338.59	0.58	0.09	0.94	0.13			3.80	3.58	3.59	3.42		
02/26/10 16:04	7.07	3561.40	368.82	0.67	0.04	0.31	0.04			3.73	3.96	4.06	3.96		
02/26/10 16:05	7.08	3540.80	353.13	0.67	0.04	0.27	0.18			3.72	3.95	4.12	3.29		
02/26/10 16:06	7.10	3534.60	351.34	1.21		0.13	0.04			3.47		4.43	3.94		
02/26/10 16:07	7.12	3371.40	372.14	0.49		0.63	0.04			3.84		3.73	3.97		
02/26/10 16:08	7.13	3686.40	391.21	0.49	0.04	8.49	0.08			3.88	3.99	2.64	3.69		
02/26/10 16:09	7.15	3364.30	476.67	0.31	0.04	31.36	0.11			4.04	4.08	2.03	3.64		
02/26/10 16:10	7.17	3529.60	356.55	0.27	0.09	14.04	0.12			4.12	3.60	2.40	3.47		
02/26/10 16:11	7.18	3451.80	355.19	0.27	0.04	16.20	0.04			4.11	3.95	2.33	3.95		
02/26/10 16:12	7.20	3637.30	367.16	0.27	0.04	0.49				4.13	3.96	3.87			
02/26/10 16:13	7.22	3206.20	414.04	0.27	0.04	0.67	0.09			4.07	4.01	3.68	3.66		
02/26/10 16:14	7.23	3573.00	381.87	0.54		0.49				3.82		3.86			
02/26/10 16:15	7.25	3751.40	415.82	0.94		0.63				3.60		3.77			
02/26/10 16:16	7.27	3906.90	378.05	0.31		0.98	0.04			4.10		3.60	3.98		
02/26/10 16:17	7.28	3891.00	396.21	0.94		0.40	0.04			3.62		3.99	4.00		
02/26/10 16:18	7.30	3276.60	338.29	0.27		13.08	0.04			4.08		2.40	3.93		
02/26/10 16:19	7.32	3173.20	381.20	1.61	0.08	28.28	0.03			3.29	3.68	2.05	4.10		
02/26/10 16:20	7.33	3723.30	396.13	0.40		0.27	0.09			3.97		4.14	3.64		
02/26/10 16:21	7.35	3289.80	355.00	0.63	0.04	0.22				3.72	3.95	4.17			
02/26/10 16:22	7.37	3226.40	359.98	0.63	0.04	0.49				3.71	3.95	3.82			
02/26/10 16:23	7.38	3997.30	362.66	1.16		0.22				3.54		4.26			
02/26/10 16:24	7.40	4004.20	393.48	0.63	0.09	0.63				3.80	3.64	3.80			
02/26/10 16:25	7.42	3181.70	345.05	0.45	0.04	0.27				3.85	3.94	4.07			
02/26/10 16:26	7.43	3245.10	353.21	0.45	0.04	0.45				3.86	3.95	3.86			
02/26/10 16:27	7.45	3873.90	402.69	0.45	0.04	0.45				3.93	4.00	3.93			
02/26/10 16:28	7.47	3794.60	399.42	0.89	0.04	0.72				3.63	4.00	3.72			
02/26/10 16:29	7.48	3333.70	381.56	11.86	0.50	0.22	0.04			2.45	2.88	4.18	3.98		
02/26/10 16:30	7.50	3373.70	349.66	3.06	0.04	3.80	0.04			3.04	3.94	2.95	3.94		
02/26/10 16:31	7.52	3218.30	338.41	0.40		0.09				3.91		4.55			
02/26/10 16:32	7.53	3218.30	338.41	0.40		0.09				3.91		4.55			
02/26/10 16:33	7.55	3354.80	341.33	0.18		0.54				4.27		3.79			
02/26/10 16:34	7.57	3446.60	371.84	0.94	0.17	0.27	0.04			3.56	3.34	4.11	3.97		
02/26/10 16:35	7.58	3638.60	380.59	1.79		0.22	0.04			3.31		4.22	3.98		
02/26/10 16:36	7.60	3696.10	406.55	1.79		0.22	0.04			3.31		4.23	4.01		
02/26/10 16:37	7.62	3452.70	394.77	0.85		0.49				3.61		3.85			
02/26/10 16:38	7.63	3376.60	340.00	0.76	0.08	0.22				3.65	3.63	4.19			
02/26/10 16:39	7.65	3419.60	376.09	1.21	0.04	0.13				3.45	3.97	4.42			

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 16:40	7.67	3684.40	377.12	0.45		0.27	0.04			3.91		4.14	3.97		
02/26/10 16:41	7.68			0.18	0.09	5.22	0.21								
02/26/10 16:42	7.70	3621.20	352.62	0.18	0.09	5.22	0.21			4.30	3.59	2.84	3.23		
02/26/10 16:43	7.72	3505.30	365.51	0.91	0.04	4.97	0.04			3.59	3.96	2.85	3.96		
02/26/10 16:44	7.73	3394.20	351.59	0.76		0.36	0.18			3.65		3.97	3.29		
02/26/10 16:45	7.75	3600.60	367.34	5.69	0.04	0.40	0.04			2.80	3.96	3.95	3.96		
02/26/10 16:46	7.77	3984.20	405.20	0.45		0.98				3.95		3.61			
02/26/10 16:47	7.78	4261.70	386.39	0.18	0.09	0.43				4.37	3.63	4.00			
02/26/10 16:48	7.80	3848.10	385.70	0.36	0.04	0.85	0.13			4.03	3.98	3.66	3.47		
02/26/10 16:49	7.82	3531.90	401.67	0.22	0.04	0.49	0.04			4.21	4.00	3.86	4.00		
02/26/10 16:50	7.83	3867.80	434.36	0.98	0.04	0.45	0.09			3.60	4.04	3.93	3.68		
02/26/10 16:51	7.85	3795.40	408.06	3.89		0.63				2.99		3.78			
02/26/10 16:52	7.87	3322.80	347.22	0.85	0.04	0.54	0.04			3.59	3.94	3.79	3.94		
02/26/10 16:53	7.88	3243.90	346.75	1.04		0.27				3.49		4.08			
02/26/10 16:54	7.90	3547.10	367.61	0.13	0.04	0.18				4.44	3.96	4.29			
02/26/10 16:55	7.92	3829.80	396.25	0.22	0.04	0.72				4.24	4.00	3.73			
02/26/10 16:56	7.93	3792.20	392.91	0.45	0.04	0.26	0.04			3.93	3.99	4.16	3.99		
02/26/10 16:57	7.95	3562.20	375.91	0.87		0.36				3.61		4.00			
02/26/10 16:58	7.97	3772.10	373.97	1.43		24.47	0.22			3.42		2.19	3.23		
02/26/10 16:59	7.98	3810.70	382.18	1.34	0.17	9.85	0.04			3.45	3.35	2.59	3.98		
02/26/10 17:00	8.00	4041.10	408.88	0.58	0.04	8.85	0.12			3.84	4.01	2.66	3.53		
02/26/10 17:01	8.02	3539.10	369.20	1.39	0.04	0.49				3.41	3.97	3.86			
02/26/10 17:02	8.03	3816.50	411.48	0.31	0.09	0.27	0.04			4.09	3.66	4.15	4.01		
02/26/10 17:03	8.05	4118.80	431.98	0.27		0.22				4.18		4.27			
02/26/10 17:04	8.07	3708.10	409.86	0.40		0.40				3.97		3.97			
02/26/10 17:05	8.08	3649.80	394.66	0.67	0.13	0.27	0.04			3.74	3.48	4.13	3.99		
02/26/10 17:06	8.10	3959.10	404.00	0.18	0.09	0.76	0.04			4.34	3.65	3.72	4.00		
02/26/10 17:07	8.12	4006.30	426.52	0.13		0.36				4.49		4.05			
02/26/10 17:08	8.13	3628.70	431.65	0.36		7.54				4.00		2.68			
02/26/10 17:09	8.15	3688.70	380.81	0.13		16.97	0.04			4.45		2.34	3.98		
02/26/10 17:10	8.17	3868.70	392.65	0.31		0.22				4.10		4.25			
02/26/10 17:11	8.18	3660.50	392.43	0.81		1.03	0.08			3.66		3.55	3.69		
02/26/10 17:12	8.20	3545.20	371.96	8.25		0.45	0.04			2.63		3.90	3.97		
02/26/10 17:13	8.22	3307.50	396.06	0.40	0.04	0.45				3.92	4.00	3.87			
02/26/10 17:14	8.23	3211.80	356.38	0.58	0.04	0.58				3.74	3.95	3.74			
02/26/10 17:15	8.25	3420.20	367.72	0.36		0.67				3.98		3.71			
02/26/10 17:16	8.27	3498.90	367.52	0.72		0.67	0.04			3.69		3.72	3.96		
02/26/10 17:17	8.28	4052.00	415.81	0.22		0.76	0.04			4.27		3.73	4.02		
02/26/10 17:18	8.30	3866.40	407.15	0.13		0.58	0.18			4.47		3.82	3.35		
02/26/10 17:19	8.32	3698.30	408.89	4.28		0.72				2.94		3.71			
02/26/10 17:20	8.33	3800.60	414.13	0.31		0.72	0.04			4.09		3.72	4.02		
02/26/10 17:21	8.35	4085.40	462.15	0.09		0.49	0.04			4.66		3.92	4.06		
02/26/10 17:22	8.37	3794.40	395.34	0.13		0.40	0.09			4.47		3.98	3.64		
02/26/10 17:23	8.38	3809.30	419.64	0.45	0.04	0.31	0.09			3.93	4.02	4.09	3.67		
02/26/10 17:24	8.40	3941.30	402.17	0.22		1.07				4.25		3.57			
02/26/10 17:25	8.42	3379.80	376.30	0.31	0.04	0.72				4.04	3.97	3.67			
02/26/10 17:26	8.43	3257.50	351.70	0.09	0.04	0.76	0.13			4.56	3.94	3.63	3.43		
02/26/10 17:27	8.45	3252.80	353.04	0.81	0.04	0.81	0.04			3.60	3.95	3.60	3.95		
02/26/10 17:28	8.47	3929.90	459.33	0.63	0.09	0.67	0.04			3.80	3.71	3.77	4.06		
02/26/10 17:29	8.48	3937.90	472.99	0.72	0.04	1.12	0.04			3.74	4.07	3.55	4.07		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 17:30	8.50	4099.10	485.37	0.58	0.04	1.21	0.08			3.85	4.08	3.53	3.78		
02/26/10 17:31	8.52	4044.40	431.33	0.40		18.19	0.08			4.00		2.35	3.73		
02/26/10 17:32	8.53	4027.80	456.39	0.31	0.13	16.03	0.04			4.11	3.55	2.40	4.06		
02/26/10 17:33	8.55	3851.40	433.27	0.22		13.26	0.12			4.24		2.46	3.56		
02/26/10 17:34	8.57	3718.50	418.80	0.94	0.08	23.56	0.03			3.60	3.72	2.20	4.14		
02/26/10 17:35	8.58	3351.90	369.17	0.40		30.03				3.92		2.05			
02/26/10 17:36	8.60	3909.50	435.85	0.31		36.96	0.07			4.10		2.02	3.79		
02/26/10 17:37	8.62	3881.20	456.30	0.22		8.36	0.08			4.25		2.67	3.76		
02/26/10 17:38	8.63	3881.20	456.30	0.45	0.04	12.89	0.04			3.94	4.06	2.48	4.06		
02/26/10 17:39	8.65	3572.80	411.42	0.27		1.21				4.12		3.47			
02/26/10 17:40	8.67			0.36	0.04	0.63	0.04								
02/26/10 17:41	8.68	3801.70	394.38	0.13		1.74	0.13			4.47		3.34	3.48		
02/26/10 17:42	8.70	4001.40	402.97	0.45	0.04	0.80	0.04			3.95	4.00	3.70	4.00		
02/26/10 17:43	8.72	4001.40	402.97	0.45	0.04	0.80	0.04			3.95	4.00	3.70	4.00		
02/26/10 17:44	8.73	4043.10	385.35	0.22	0.04	1.39	0.17			4.26	3.98	3.46	3.36		
02/26/10 17:45	8.75	4043.10	385.35	0.27		27.16	0.03			4.18		2.17	4.11		
02/26/10 17:46	8.77	3554.20	386.33	0.27		27.16	0.03			4.12		2.12	4.11		
02/26/10 17:47	8.78	3555.80	389.96	0.18		30.16	0.11			4.30		2.07	3.55		
02/26/10 17:48	8.80	3387.90	395.67	0.18		30.16	0.11			4.27		2.05	3.56		
02/26/10 17:49	8.82	3412.50	398.29	0.36	0.09	24.05				3.98	3.65	2.15			
02/26/10 17:50	8.83			0.04		31.84									
02/26/10 17:51	8.85	3681.50	380.37	0.22		5.48	0.04			4.22		2.83	3.98		
02/26/10 17:52	8.87	4121.90	426.65	0.13	0.04	30.57	0.18			4.50	4.03	2.13	3.37		
02/26/10 17:53	8.88	4173.30	423.68	0.89		21.06	0.12			3.67		2.30	3.55		
02/26/10 17:54	8.90	3826.20	391.41	0.89		18.71	0.12			3.63		2.31	3.51		
02/26/10 17:55	8.92	3801.10	428.95	0.31		1.87	0.17			4.09		3.31	3.40		
02/26/10 17:56	8.93	3613.50	353.99	0.18		2.23	0.13			4.30		3.21	3.44		
02/26/10 17:57	8.95	3181.30	333.20	0.18		2.23	0.13			4.25		3.15	3.41		
02/26/10 17:58	8.97	3710.90	403.54	0.13		2.49	0.13			4.46		3.17	3.49		
02/26/10 17:59	8.98	3710.90	403.54	0.13		2.49	0.13			4.46		3.17	3.49		
02/26/10 18:00	9.00	3239.40	360.88	0.27		2.36	0.26			4.08		3.14	3.14		
02/26/10 18:01	9.02	3609.20	387.00	0.13		2.45	0.17			4.44		3.17	3.36		
02/26/10 18:02	9.03	3347.80	342.28	4.15		2.49	0.17			2.91		3.13	3.30		
02/26/10 18:03	9.05	3782.40	417.13	4.15		14.74	0.08			2.96		2.41	3.72		
02/26/10 18:04	9.07	3325.20	344.96	0.18		43.27	0.07			4.27		1.89	3.69		
02/26/10 18:05	9.08	3389.50	345.02	0.22		11.91	0.21			4.19		2.45	3.22		
02/26/10 18:06	9.10	3666.00	367.65	0.04		39.59	0.03			4.96		1.97	4.09		
02/26/10 18:07	9.12	3533.20	391.19	0.04		25.29	0.11			4.95		2.15	3.55		
02/26/10 18:08	9.13	2950.80	318.67	0.04		25.29	0.11			4.87		2.07	3.46		
02/26/10 18:09	9.15	3778.30	389.75	0.04		55.61	0.10			4.98		1.83	3.59		
02/26/10 18:10	9.17	3906.70	410.94	0.22		3.84	0.22			4.25		3.01	3.27		
02/26/10 18:11	9.18	3852.70	388.54	0.22		3.84	0.22			4.24		3.00	3.25		
02/26/10 18:12	9.20	4146.20	394.02	0.09		5.35	0.04			4.66		2.89	3.99		
02/26/10 18:13	9.22	3624.10	356.90	1.16		5.74	0.08			3.49		2.80	3.65		
02/26/10 18:14	9.23	3624.10	356.90	1.16		5.74	0.08			3.49		2.80	3.65		
02/26/10 18:15	9.25	3687.90	380.85	1.07	0.04	4.67				3.54	3.98	2.90			
02/26/10 18:16	9.27	3805.50	385.70	0.45	0.09	5.90	0.17			3.93	3.63	2.81	3.36		
02/26/10 18:17	9.28	3450.50	347.13	0.18	0.04	5.90	0.17			4.28	3.94	2.77	3.31		
02/26/10 18:18	9.30	3382.30	379.20	0.36		14.99	0.33			3.97		2.35	3.06		
02/26/10 18:19	9.32	3499.10	355.16	3.46		9.46	0.38			3.00		2.57	2.97		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 18:20	9.33	3842.80	419.43	0.13		6.32	0.21			4.47		2.78	3.30		
02/26/10 18:21	9.35	3422.30	402.35	0.13		8.28	0.34			4.42		2.62	3.07		
02/26/10 18:22	9.37	3360.60	338.57	0.72	0.04	9.85	0.08			3.67	3.93	2.53	3.63		
02/26/10 18:23	9.38	3360.60	338.57	0.72	0.04	9.85	0.08			3.67	3.93	2.53	3.63		
02/26/10 18:24	9.40	3971.10	405.63	0.40	0.09	10.08	0.38			4.00	3.65	2.60	3.03		
02/26/10 18:25	9.42	3862.80	406.86	4.50		11.29	0.21			2.93		2.53	3.29		
02/26/10 18:26	9.43	3751.00	409.75	0.58	0.04	12.32	0.33			3.81	4.01	2.48	3.09		
02/26/10 18:27	9.45	3583.60	397.06	0.49		12.75	0.33			3.86		2.45	3.08		
02/26/10 18:28	9.47	3641.60	387.08	0.36		14.78	0.24			4.00		2.39	3.21		
02/26/10 18:29	9.48	3164.40	336.85	0.31		12.51	0.37			4.01		2.40	2.96		
02/26/10 18:30	9.50	3773.90	434.72	0.31		28.51	0.57			4.09		2.12	2.88		
02/26/10 18:31	9.52	3296.80	377.04	0.45		28.51	0.57			3.86		2.06	2.82		
02/26/10 18:32	9.53	3766.10	390.34	0.45		20.12	0.52			3.92		2.27	2.88		
02/26/10 18:33	9.55	4045.50	408.40	0.54		26.73	0.50			3.87		2.18	2.91		
02/26/10 18:34	9.57	4045.50	408.40	0.54		26.73	0.50			3.87		2.18	2.91		
02/26/10 18:35	9.58	4050.60	405.50	0.40		29.29	0.34			4.01		2.14	3.08		
02/26/10 18:36	9.60	4255.60	406.77	0.04		37.98	0.61			5.03		2.05	2.82		
02/26/10 18:37	9.62	3394.10	343.49	4.24	0.04	25.68	0.74			2.90	3.93	2.12	2.67		
02/26/10 18:38	9.63	3451.90	335.04	0.31		26.02	0.62			4.05		2.12	2.73		
02/26/10 18:39	9.65	3706.10	383.99	0.40		27.12	0.85			3.97		2.14	2.65		
02/26/10 18:40	9.67	3913.50	407.98	0.58	0.13	32.01	0.90			3.83	3.50	2.09	2.66		
02/26/10 18:41	9.68	3602.50	362.16	4.75		29.47	0.87			2.88		2.09	2.62		
02/26/10 18:42	9.70	3589.50	366.65	0.31	0.04	33.44	0.78			4.06	3.96	2.03	2.67		
02/26/10 18:43	9.72	3614.20	371.05	0.72		36.78	0.98			3.70		1.99	2.58		
02/26/10 18:44	9.73	3413.20	374.14	0.81		42.30	0.95			3.62		1.91	2.60		
02/26/10 18:45	9.75	3244.30	344.91	0.58		42.92	1.51			3.75		1.88	2.36		
02/26/10 18:46	9.77	3221.40	330.64	0.36	0.04	45.60	1.56			3.95	3.92	1.85	2.33		
02/26/10 18:47	9.78	4248.30	377.73	0.40	0.04	43.34	1.27			4.03	3.98	1.99	2.47		
02/26/10 18:48	9.80	3653.40	378.99	0.27		49.04	1.54			4.13		1.87	2.39		
02/26/10 18:49	9.82	3461.00	325.26	0.63		52.15	1.48			3.74		1.82	2.34		
02/26/10 18:50	9.83	3214.80	352.82	0.40		60.20	1.69			3.91		1.73	2.32		
02/26/10 18:51	9.85	3536.10	367.94	0.36	0.04	57.25	1.52			3.99	3.96	1.79	2.38		
02/26/10 18:52	9.87	3659.30	384.15	0.54		61.18	1.69			3.83		1.78	2.36		
02/26/10 18:53	9.88	3962.90	381.63	0.83	0.04	63.70	2.12			3.68	3.98	1.79	2.26		
02/26/10 18:54	9.90	4067.90	384.14	0.36	0.04	70.29	2.18			4.05	3.98	1.76	2.25		
02/26/10 18:55	9.92	3573.50	390.62	0.13		67.57	2.13			4.44		1.72	2.26		
02/26/10 18:56	9.93	3292.90	358.99	0.58		73.96	2.22			3.75		1.65	2.21		
02/26/10 18:57	9.95	3386.40	335.71	0.49		76.44	2.46			3.84		1.65	2.14		
02/26/10 18:58	9.97	3891.30	372.57	0.89		86.02	2.77			3.64		1.66	2.13		
02/26/10 18:59	9.98	3598.80	381.68	0.18	0.13	88.69	2.52			4.30	3.47	1.61	2.18		
02/26/10 19:00	10.00	3477.50	344.87	0.27		93.39	2.67			4.11		1.57	2.11		
02/26/10 19:01	10.02	3508.90	352.54	0.09		90.49	2.54			4.59		1.59	2.14		
02/26/10 19:02	10.03	3301.40	364.50	0.27	0.04	105.17	2.48			4.09	3.96	1.50	2.17		
02/26/10 19:03	10.05	3675.50	382.09	0.22	0.04	105.56	2.94			4.22	3.98	1.54	2.11		
02/26/10 19:04	10.07	3702.50	377.25	0.13		112.05	3.51			4.45		1.52	2.03		
02/26/10 19:05	10.08	3383.80	371.19	0.09	0.04	123.90	3.11			4.58	3.97	1.44	2.08		
02/26/10 19:06	10.10	3502.50	368.01	0.04		128.66	3.25			4.94		1.43	2.05		
02/26/10 19:07	10.12	3521.40	355.79	0.27		152.93	3.52			4.12		1.36	2.00		
02/26/10 19:08	10.13	4017.60	419.08	4.97	0.08	155.25	4.31			2.91	3.72	1.41	1.99		
02/26/10 19:09	10.15	3496.20	370.44	0.09		151.83	5.24			4.59		1.36	1.85		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 19:10	10.17	3534.50	389.54	0.09		168.67	4.13			4.59		1.32	1.97		
02/26/10 19:11	10.18	3696.20	375.26	3.47	0.61	172.76	4.36			3.03	2.79	1.33	1.93		
02/26/10 19:12	10.20	3568.70	363.63	1.65	0.26	174.47	4.90			3.34	3.15	1.31	1.87		
02/26/10 19:13	10.22	3606.30	421.43	0.80	0.26	190.14	4.50			3.65	3.21	1.28	1.97		
02/26/10 19:14	10.23	3421.60	362.49	0.67	0.13	195.91	4.58			3.71	3.45	1.24	1.90		
02/26/10 19:15	10.25	4298.20	376.16	0.27	0.04	215.99	6.47			4.20	3.97	1.30	1.76		
02/26/10 19:16	10.27	3573.60	392.27	0.27	0.04	232.01	5.73			4.12	3.99	1.19	1.84		
02/26/10 19:17	10.28	3303.70	367.66	0.22	0.09	239.52	6.46			4.18	3.61	1.14	1.76		
02/26/10 19:18	10.30	3669.20	375.90	0.18		250.56	6.40			4.31		1.17	1.77		
02/26/10 19:19	10.32	3723.90	371.78	0.40		274.13	6.47			3.97		1.13	1.76		
02/26/10 19:20	10.33	3721.40	431.89	0.22		286.38	6.69			4.23		1.11	1.81		
02/26/10 19:21	10.35	3496.90	384.94			309.32	8.59					1.05	1.65		
02/26/10 19:22	10.37	3564.60	369.78	0.54	0.13	330.26	8.95			3.82	3.45	1.03	1.62		
02/26/10 19:23	10.38	3595.70	366.08			352.79	9.65					1.01	1.58		
02/26/10 19:24	10.40	3769.20	394.35	1.52	0.13	396.78	9.72			3.39	3.48	0.98	1.61		
02/26/10 19:25	10.42	3533.50	368.02	0.22	0.04	396.85	9.85			4.21	3.96	0.95	1.57		
02/26/10 19:26	10.43	3231.40	349.32	0.13		415.69	10.04			4.40		0.89	1.54		
02/26/10 19:27	10.45	3260.10	347.35	0.22	0.09	434.81	10.90			4.17	3.59	0.87	1.50		
02/26/10 19:28	10.47	3447.70	388.07	0.13		434.64	10.81			4.42		0.90	1.56		
02/26/10 19:29	10.48	3590.40	368.45	4.28		537.27	16.49			2.92		0.82	1.35		
02/26/10 19:30	10.50	3471.60	364.95	0.54	0.04	510.06	16.16			3.81	3.96	0.83	1.35		
02/26/10 19:31	10.52	3807.40	415.33	0.13		526.33	15.92			4.47		0.86	1.42		
02/26/10 19:32	10.53	3709.30	359.95			537.70	15.72					0.84	1.36		
02/26/10 19:33	10.55	3680.80	410.36	0.13		547.26	15.80			4.45		0.83	1.41		
02/26/10 19:34	10.57	3488.70	361.36	0.18		601.79	17.02			4.29		0.76	1.33		
02/26/10 19:35	10.58	3580.60	378.58	0.04	0.04	622.59	17.95			4.95	3.98	0.76	1.32		
02/26/10 19:36	10.60	3195.70	348.41	0.09		671.90	20.38			4.55		0.68	1.23		
02/26/10 19:37	10.62	3195.70	348.41	0.22		675.80	20.55			4.16		0.67	1.23		
02/26/10 19:38	10.63	3335.90	360.73	0.40		700.50	19.58			3.92		0.68	1.27		
02/26/10 19:39	10.65	3786.00	380.31	0.13		695.40	21.28			4.46		0.74	1.25		
02/26/10 19:40	10.67	4198.50	414.86	0.04		708.00	20.38			5.02		0.77	1.31		
02/26/10 19:41	10.68	3497.10	389.15	3.24		708.00	20.38			3.03		0.69	1.28		
02/26/10 19:42	10.70	3691.60	399.32	3.24		725.50	21.97			3.06		0.71	1.26		
02/26/10 19:43	10.72	3610.30	372.28	0.18		721.90	20.66			4.30		0.70	1.26		
02/26/10 19:44	10.73	3266.60	322.34	0.40		733.60	20.27			3.91		0.65	1.20		
02/26/10 19:45	10.75	3534.50	380.23	0.13		768.80	20.33			4.43		0.66	1.27		
02/26/10 19:46	10.77	3902.40	421.77	3.80	0.04	800.00	24.22			3.01	4.02	0.69	1.24		
02/26/10 19:47	10.78	3782.70	375.25	0.22		827.80	22.54			4.24		0.66	1.22		
02/26/10 19:48	10.80	3879.60	461.93	0.22		835.10	25.13			4.25		0.67	1.26		
02/26/10 19:49	10.82	3548.90	365.71	0.04	0.09	876.30	25.17			4.95	3.61	0.61	1.16		
02/26/10 19:50	10.83	3191.60	347.00	0.13		906.30	22.94			4.39		0.55	1.18		
02/26/10 19:51	10.85			0.04		914.00	23.87								
02/26/10 19:52	10.87	3762.90	391.69	0.18		948.80	25.95			4.32		0.60	1.18		
02/26/10 19:53	10.88	3222.20	328.29	0.13		1035.50	27.14			4.39		0.49	1.08		
02/26/10 19:54	10.90	3339.10	350.45	0.18		1013.80	27.79			4.27		0.52	1.10		
02/26/10 19:55	10.92	3454.90	387.99	0.22		1003.90	27.79			4.20		0.54	1.14		
02/26/10 19:56	10.93	3598.20	369.46			1072.70	27.87					0.53	1.12		
02/26/10 19:57	10.95					1072.70	27.87								
02/26/10 19:58	10.97	3359.50	369.31	0.09		1080.40	29.92			4.57		0.49	1.09		
02/26/10 19:59	10.98	3385.00	347.79	0.27		1110.20	30.72			4.10		0.48	1.05		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 20:00	11.00	3168.40	373.14	0.18		1147.90	28.90			4.25		0.44	1.11		
02/26/10 20:01	11.02	3248.70	352.58	0.18		1121.10	31.65			4.26		0.46	1.05		
02/26/10 20:02	11.03	3248.70	352.58	0.18		1121.10	31.65			4.26		0.46	1.05		
02/26/10 20:03	11.05	3592.80	378.78	0.45	0.04	1191.30	32.61			3.90	3.98	0.48	1.07		
02/26/10 20:04	11.07	3592.80	378.78	0.45	0.04	1191.30	32.61			3.90	3.98	0.48	1.07		
02/26/10 20:05	11.08	3711.50	370.95	0.18	0.04	1182.60	29.94			4.31	3.97	0.50	1.09		
02/26/10 20:06	11.10	3386.70	363.53	0.18	0.04	1174.30	32.29			4.27	3.96	0.46	1.05		
02/26/10 20:07	11.12	3161.90	364.18	0.22	0.09	1191.50	31.03			4.16	3.61	0.42	1.07		
02/26/10 20:08	11.13	3397.60	368.13	0.04		1210.00	34.99			4.93		0.45	1.02		
02/26/10 20:09	11.15	3397.60	368.13	0.04		1238.20	32.91			4.93		0.44	1.05		
02/26/10 20:10	11.17	4262.30	419.99	0.18		1246.70	32.58			4.27		0.53	1.11		
02/26/10 20:11	11.18	3813.90	402.92	0.09		1299.30	33.92			4.63		0.47	1.07		
02/26/10 20:12	11.20	3218.30	347.13	0.40		1317.70	36.75			3.91		0.39	0.98		
02/26/10 20:13	11.22	3555.10	363.09	0.18	0.04	1403.70	37.70			4.30	3.96	0.40	0.98		
02/26/10 20:14	11.23	3377.10	369.67	0.18		1411.20	39.98			4.27		0.38	0.97		
02/26/10 20:15	11.25	3652.50	359.09	0.22		1423.30	38.53			4.22		0.41	0.97		
02/26/10 20:16	11.27	3716.60	385.88	0.09		1468.80	41.13			4.62		0.40	0.97		
02/26/10 20:17	11.28	3373.90	367.22	0.18		1525.10	42.35			4.27		0.34	0.94		
02/26/10 20:18	11.30	3373.90	367.22	0.18		1525.10	42.35			4.27		0.34	0.94		
02/26/10 20:19	11.32	3973.60	397.61	0.31		1501.80	46.61			4.11		0.42	0.93		
02/26/10 20:20	11.33	3806.30	400.54	0.27		1510.10	43.66			4.15		0.40	0.96		
02/26/10 20:21	11.35	3962.80	370.09	0.31		1539.10	42.02			4.11		0.41	0.94		
02/26/10 20:22	11.37	3699.90	376.93	0.13		1547.00	44.55			4.45		0.38	0.93		
02/26/10 20:23	11.38	3813.90	376.30	0.31		1623.10	42.05			4.09		0.37	0.95		
02/26/10 20:24	11.40	3676.20	382.21	0.58		1649.60	46.79			3.80		0.35	0.91		
02/26/10 20:25	11.42	3888.10	380.67	0.09		1699.40	48.03			4.64		0.36	0.90		
02/26/10 20:26	11.43	3508.40	373.52	0.09		1727.40	47.59			4.59		0.31	0.89		
02/26/10 20:27	11.45	3565.40	375.37	0.89	0.04	1798.40	53.03			3.60	3.97	0.30	0.85		
02/26/10 20:28	11.47	3988.80	372.61			1798.40	53.03					0.35	0.85		
02/26/10 20:29	11.48	3596.50	364.74	1.39	0.13	1820.70	53.91			3.41	3.45	0.30	0.83		
02/26/10 20:30	11.50	3864.40	391.84	2.40	0.13	1820.20	52.67			3.21	3.48	0.33	0.87		
02/26/10 20:31	11.52	3765.20	379.73	0.81	0.04	1830.10	52.45			3.67	3.98	0.31	0.86		
02/26/10 20:32	11.53	3841.40	386.88	0.09	0.04	1858.00	54.43			4.63	3.99	0.32	0.85		
02/26/10 20:33	11.55	3709.90	353.96	0.58		1856.90	53.63			3.81		0.30	0.82		
02/26/10 20:34	11.57	3651.50	345.44	0.49	0.04	1868.80	53.04			3.87	3.94	0.29	0.81		
02/26/10 20:35	11.58	3067.20	304.88	0.31		1953.00	52.98			4.00		0.20	0.76		
02/26/10 20:36	11.60	3435.40	360.51	0.36	0.04	2017.90	57.34			3.98	3.95	0.23	0.80		
02/26/10 20:37	11.62	3406.00	349.57	0.36	0.04	2017.90	57.34			3.98	3.94	0.23	0.79		
02/26/10 20:38	11.63	3775.80	376.52	0.40	0.04	2076.30	62.14			3.97	3.97	0.26	0.78		
02/26/10 20:39	11.65	3505.80	360.73	0.22		2062.10	57.03			4.20		0.23	0.80		
02/26/10 20:40	11.67	3377.00	392.97	0.22		2123.50	59.46			4.19		0.20	0.82		
02/26/10 20:41	11.68	3389.10	346.91	0.31		2094.40	59.80			4.04		0.21	0.76		
02/26/10 20:42	11.70					2121.60	63.30								
02/26/10 20:43	11.72	2775.20	296.50	0.09		2126.10	61.87			4.49		0.12	0.68		
02/26/10 20:44	11.73	3290.00	363.68	0.49	0.04	2097.70	61.98			3.83	3.96	0.20	0.77		
02/26/10 20:45	11.75	3376.40	352.30	0.04	0.04	2165.40	62.08			4.93	3.94	0.19	0.75		
02/26/10 20:46	11.77	3437.90	385.31	0.40		2144.00	64.09			3.93		0.21	0.78		
02/26/10 20:47	11.78	3696.80	402.17	0.13	0.09	2167.90	62.58			4.45	3.65	0.23	0.81		
02/26/10 20:48	11.80	4036.80	374.58	0.31	0.04	2123.60	64.73			4.11	3.97	0.28	0.76		
02/26/10 20:49	11.82	4107.00	420.18	0.45		2179.50	66.72			3.96		0.28	0.80		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 20:50	11.83	3469.40	403.48	0.18		2135.60	59.88			4.28		0.21	0.83		
02/26/10 20:51	11.85	3357.50	354.33	0.54		2169.10	66.22			3.79		0.19	0.73		
02/26/10 20:52	11.87	3897.90	453.16	0.45		2177.20	61.77			3.94		0.25	0.87		
02/26/10 20:53	11.88	3577.30	390.83	0.13		2352.60	70.03			4.44		0.18	0.75		
02/26/10 20:54	11.90	3850.20	408.14	0.22		2336.90	72.92			4.24		0.22	0.75		
02/26/10 20:55	11.92	4023.00	415.01	0.09		2291.60	65.17			4.65		0.24	0.80		
02/26/10 20:56	11.93	3782.10	385.40	0.76		2390.20	68.84			3.70		0.20	0.75		
02/26/10 20:57	11.95	3694.50	362.11	0.31		2421.00	67.63			4.08		0.18	0.73		
02/26/10 20:58	11.97	3682.70	387.89	0.31		2496.30	75.25			4.07		0.17	0.71		
02/26/10 20:59	11.98	3376.80	357.44	0.22		2587.40	83.22			4.19		0.12	0.63		
02/26/10 21:00	12.00	3644.20	374.21	0.31		2636.20	77.92			4.07		0.14	0.68		
02/26/10 21:01	12.02	3632.10	438.96	0.72		2625.20	82.93			3.70		0.14	0.72		
02/26/10 21:02	12.03	3704.00	388.51	0.13		2717.90	86.93			4.45		0.13	0.65		
02/26/10 21:03	12.05	3791.80	415.93	0.27	0.04	2715.50	84.57			4.15	4.02	0.14	0.69		
02/26/10 21:04	12.07	3188.60	327.83	0.22		2706.70	84.57			4.16		0.07	0.59		
02/26/10 21:05	12.08	3191.60	340.18	0.09		2734.70	83.73			4.55		0.07	0.61		
02/26/10 21:06	12.10	3775.30	386.79	0.56	0.04	2732.40	88.44			3.83	3.99	0.14	0.64		
02/26/10 21:07	12.12	3341.20	364.71	1.48		2649.30	85.92			3.35		0.10	0.63		
02/26/10 21:08	12.13	3814.30	398.84	1.07		2875.10	98.10			3.55		0.12	0.61		
02/26/10 21:09	12.15	3449.60	392.99	0.98	0.08	2930.40	100.35			3.55	3.69	0.07	0.59		
02/26/10 21:10	12.17	3072.20	311.41	1.43	0.13	2868.90	92.88			3.33	3.38	0.03	0.53		
02/26/10 21:11	12.18	3660.40	369.50	0.58	0.09	2870.80	97.27			3.80	3.61	0.11	0.58		
02/26/10 21:12	12.20	4021.10	383.98	1.30		2941.20	104.88			3.49		0.14	0.56		
02/26/10 21:13	12.22	3622.80	385.62	0.81		2974.40	99.53			3.65		0.09	0.59		
02/26/10 21:14	12.23	3831.40	367.28	0.58	0.09	2972.80	102.88			3.82	3.61	0.11	0.55		
02/26/10 21:15	12.25	3521.50	379.90	0.94		2988.70	102.83			3.57		0.07	0.57		
02/26/10 21:16	12.27	3566.20	367.26	0.31		3042.90	106.50			4.06		0.07	0.54		
02/26/10 21:17	12.28	3736.00	376.03	0.18		3093.90	117.05			4.32		0.08	0.51		
02/26/10 21:18	12.30	3646.80	370.16	0.13		3146.50	112.89			4.45		0.06	0.52		
02/26/10 21:19	12.32	3643.70	375.78	0.31		3153.20	111.15			4.07		0.06	0.53		
02/26/10 21:20	12.33	3650.60	433.73	0.04		3227.20	112.61			4.96		0.05	0.59		
02/26/10 21:21	12.35	3301.40	360.36	0.27						4.09					
02/26/10 21:22	12.37	3587.10	368.91	0.40		3200.20	110.50			3.95		0.05	0.52		
02/26/10 21:23	12.38	3133.00	341.21	0.40	0.13	3245.10	113.36			3.89	3.42	-0.02	0.48		
02/26/10 21:24	12.40	3082.40	332.12	0.18		3268.30	113.55			4.23		-0.03	0.47		
02/26/10 21:25	12.42	3202.50	407.88	0.36		3372.60	110.51			3.95		-0.02	0.57		
02/26/10 21:26	12.43	3929.10	427.62	0.13		3341.60	109.04			4.48		0.07	0.59		
02/26/10 21:27	12.45	3421.90	354.61	0.13		3298.00	113.39			4.42		0.02	0.50		
02/26/10 21:28	12.47	3714.30	378.61	0.13		3278.80	112.29			4.46		0.05	0.53		
02/26/10 21:29	12.48	3831.50	403.58	0.13		3137.60	103.72			4.47		0.09	0.59		
02/26/10 21:30	12.50	3942.20	410.76	0.04		3171.50	103.70			4.99		0.09	0.60		
02/26/10 21:31	12.52	3406.10	379.17	0.13		3144.20	95.60			4.42		0.03	0.60		
02/26/10 21:32	12.53	3210.40	332.82	0.36		3143.40	100.77			3.95		0.01	0.52		
02/26/10 21:33	12.55	3306.10	369.80	0.09		3263.50	98.63			4.57		0.01	0.57		
02/26/10 21:34	12.57	3401.80	345.14	0.27		3244.80	100.49			4.10		0.02	0.54		
02/26/10 21:35	12.58	3547.50	385.50	0.13		3364.90	96.23			4.44		0.02	0.60		
02/26/10 21:36	12.60	3314.60	406.09	0.04		3371.30	98.82			4.92		-0.01	0.61		
02/26/10 21:37	12.62	3314.60	406.09	0.18		3302.40	97.50			4.27		0.00	0.62		
02/26/10 21:38	12.63	3534.20	366.32	0.22		3370.60	103.68			4.21		0.02	0.55		
02/26/10 21:39	12.65	3629.50	372.89	1.30		3465.00	98.27			3.45		0.02	0.58		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 21:40	12.67	3228.30	351.37	1.30		3404.70	105.95			3.40		-0.02	0.52		
02/26/10 21:41	12.68	3393.40	344.80	0.13		3397.00	102.37			4.42		0.00	0.53		
02/26/10 21:42	12.70	3393.40	344.80	0.13		3397.00	102.37			4.42		0.00	0.53		
02/26/10 21:43	12.72	4012.30	404.57	0.04		3415.90	106.96			5.00		0.07	0.58		
02/26/10 21:44	12.73	3387.40	361.26	0.04		3415.90	106.96			4.93		0.00	0.53		
02/26/10 21:45	12.75	3220.70	343.07	0.04		3403.20	99.72			4.91		-0.02	0.54		
02/26/10 21:46	12.77	3505.10	355.66	0.18		3362.80	101.28			4.29		0.02	0.55		
02/26/10 21:47	12.78	3503.40	366.37	0.18		3422.90	104.21			4.29		0.01	0.55		
02/26/10 21:48	12.80	3075.20	313.64	0.27	0.04	3436.60	109.95			4.06	3.89	-0.05	0.46		
02/26/10 21:49	12.82	3229.30	328.64	0.13		3470.50	112.20			4.40		-0.03	0.47		
02/26/10 21:50	12.83	3745.20	354.43	0.13		3456.80	106.01			4.46		0.03	0.52		
02/26/10 21:51	12.85	4070.80	375.80	0.31		3501.60	105.49			4.12		0.07	0.55		
02/26/10 21:52	12.87	3650.30	363.38	0.31		3546.80	112.46			4.07		0.01	0.51		
02/26/10 21:53	12.88	3540.90	380.83	0.31	0.04	3557.80	110.13			4.06	3.98	0.00	0.54		
02/26/10 21:54	12.90	2949.70	312.42	0.63		3487.30	99.93			3.67		-0.07	0.50		
02/26/10 21:55	12.92	3520.80	353.82	0.04	0.04	3570.30	106.94			4.94	3.95	-0.01	0.52		
02/26/10 21:56	12.93	3230.40	317.15	0.18	0.04	3649.50	110.59			4.25	3.90	-0.05	0.46		
02/26/10 21:57	12.95	3110.50	336.59	0.04		3694.00	118.65			4.89		-0.07	0.45		
02/26/10 21:58	12.97	3443.90	352.92	0.18		3714.50	121.69			4.28		-0.03	0.46		
02/26/10 21:59	12.98	3003.50	331.37	1.83	0.13	3757.10	121.15			3.22	3.41	-0.10	0.44		
02/26/10 22:00	13.00	3373.10	358.24	0.09	0.04	3773.50	123.77			4.57	3.95	-0.05	0.46		
02/26/10 22:01	13.02	3627.60	351.00	0.09	0.04	3734.70	115.72			4.61	3.94	-0.01	0.48		
02/26/10 22:02	13.03	3923.60	383.01	0.04		3681.10	119.11			4.99		0.03	0.51		
02/26/10 22:03	13.05	3487.90	429.60	0.45	0.04	3670.30	113.49			3.89	4.03	-0.02	0.58		
02/26/10 22:04	13.07	3249.50	316.39	0.63	0.13	3696.90	116.97			3.71	3.39	-0.06	0.43		
02/26/10 22:05	13.08	3072.30	330.85	4.58	0.08	3704.50	118.13			2.83	3.62	-0.08	0.45		
02/26/10 22:06	13.10	4054.40	409.63	0.54	0.04	3740.30	117.77			3.88	4.01	0.04	0.54		
02/26/10 22:07	13.12	3579.30	359.52	0.40		3797.90	122.67			3.95		-0.03	0.47		
02/26/10 22:08	13.13	3795.80	392.28	4.32		3883.10	121.34			2.94		-0.01	0.51		
02/26/10 22:09	13.15	4080.60	376.43	0.18		3747.60	118.28			4.36		0.04	0.50		
02/26/10 22:10	13.17	3930.70	371.36	0.27	0.09	3752.30	111.78			4.16	3.62	0.02	0.52		
02/26/10 22:11	13.18	3609.90	350.99	0.13	0.04	3761.00	117.33			4.44	3.94	-0.02	0.48		
02/26/10 22:12	13.20	3555.70	364.06	0.40		3826.00	120.05			3.95		-0.03	0.48		
02/26/10 22:13	13.22	2823.10	300.28	0.27	0.04	3892.90	124.33			4.02	3.88	-0.14	0.38		
02/26/10 22:14	13.23	2986.80	337.60	0.22	0.04	3968.40	129.69			4.13	3.93	-0.12	0.42		
02/26/10 22:15	13.25	3244.60	371.03	0.54	0.04	3976.90	128.04			3.78	3.97	-0.09	0.46		
02/26/10 22:16	13.27	3457.60	338.67	0.27		4040.20	131.00			4.11		-0.07	0.41		
02/26/10 22:17	13.28	3279.40	338.21	0.04	0.04	4059.50	134.95			4.91	3.93	-0.09	0.40		
02/26/10 22:18	13.30	3353.10	347.05	0.18		4124.10	130.22			4.27		-0.09	0.43		
02/26/10 22:19	13.32	3470.50	347.54	0.31		4060.70	125.83			4.05		-0.07	0.44		
02/26/10 22:20	13.33	3296.50	336.96	0.31	0.04	3961.90	122.11			4.03	3.93	-0.08	0.44		
02/26/10 22:21	13.35	3296.50	336.96	0.31	0.04	3961.90	122.11			4.03	3.93	-0.08	0.44		
02/26/10 22:22	13.37	3543.40	361.09	0.13		4018.40	124.44			4.44		-0.05	0.46		
02/26/10 22:23	13.38	3611.50	345.68	0.13		4018.40	124.44			4.44		-0.05	0.44		
02/26/10 22:24	13.40	3887.30	379.54	0.36		3982.50	126.18			4.03		-0.01	0.48		
02/26/10 22:25	13.42	3503.20	358.05	0.36		4005.00	130.08			3.99		-0.06	0.44		
02/26/10 22:26	13.43	3369.40	335.74	0.27		3969.90	127.99			4.10		-0.07	0.42		
02/26/10 22:27	13.45	3580.10	365.23	0.36		4051.10	126.86			4.00		-0.05	0.46		
02/26/10 22:28	13.47			0.13		4056.00	132.29								
02/26/10 22:29	13.48	3322.30	332.78	0.22	0.04	4102.10	136.40			4.18	3.92	-0.09	0.39		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 22:30	13.50	3600.20	348.27	3.54		4153.40	137.77			3.01		-0.06	0.40		
02/26/10 22:31	13.52	3838.50	363.50	0.18		4180.40	132.49			4.33		-0.04	0.44		
02/26/10 22:32	13.53	3525.80	353.51	0.18		4120.30	135.24			4.29		-0.07	0.42		
02/26/10 22:33	13.55	3561.00	352.00	0.09		4127.50	138.29			4.60		-0.06	0.41		
02/26/10 22:34	13.57	4165.60	422.75	0.13		4188.80	130.59			4.51		0.00	0.51		
02/26/10 22:35	13.58	3966.20	359.39	0.13		4202.60	141.80			4.48		-0.03	0.40		
02/26/10 22:36	13.60	3434.60	333.58	0.36		4249.10	136.50			3.98		-0.09	0.39		
02/26/10 22:37	13.62	3653.20	349.66	0.36		4187.60	139.82			4.01		-0.06	0.40		
02/26/10 22:38	13.63	3678.10	386.03	0.63		4228.90	138.56			3.77		-0.06	0.44		
02/26/10 22:39	13.65	3638.30	385.86	0.18		4233.20	143.69			4.31		-0.07	0.43		
02/26/10 22:40	13.67	3710.00	375.16	0.18		4260.80	132.68			4.31		-0.06	0.45		
02/26/10 22:41	13.68	3419.80	362.78	0.85		4297.90	139.16			3.60		-0.10	0.42		
02/26/10 22:42	13.70	3242.80	334.00	0.27		4304.80	138.88			4.08		-0.12	0.38		
02/26/10 22:43	13.72	3374.60	327.42	1.56	0.08	4320.50	143.86			3.34	3.61	-0.11	0.36		
02/26/10 22:44	13.73	3641.80	360.02	1.12	0.04	4308.70	143.80			3.51	3.95	-0.07	0.40		
02/26/10 22:45	13.75	3666.60	382.83	0.85	0.13	4285.30	146.47			3.63	3.47	-0.07	0.42		
02/26/10 22:46	13.77	3630.40	388.99	0.49		4308.00	143.53			3.87		-0.07	0.43		
02/26/10 22:47	13.78	3388.30	339.34	0.81		4360.80	146.92			3.62		-0.11	0.36		
02/26/10 22:48	13.80	3872.30	422.08	4.19	0.04	4335.70	143.28			2.97	4.02	-0.05	0.47		
02/26/10 22:49	13.82			2.05		4358.00	159.34								
02/26/10 22:50	13.83	3734.70	384.11	0.13		4363.40	159.85			4.46		-0.07	0.38		
02/26/10 22:51	13.85	3520.90	388.12	0.54	0.09	4382.10	163.29			3.81	3.63	-0.10	0.38		
02/26/10 22:52	13.87	3538.10	353.98	0.31	0.04	4396.40	134.84			4.06	3.95	-0.09	0.42		
02/26/10 22:53	13.88	3609.10	347.45	0.04		4390.80	141.40			4.96		-0.09	0.39		
02/26/10 22:54	13.90	3585.40	372.29	0.22		4406.40	142.91			4.21		-0.09	0.42		
02/26/10 22:55	13.92	3315.10	387.54	0.18		4283.70	143.64			4.27		-0.11	0.43		
02/26/10 22:56	13.93	3438.60	347.55	0.22		4411.30	140.01			4.19		-0.11	0.39		
02/26/10 22:57	13.95	3265.40	339.76	0.13		4383.00	150.67			4.40		-0.13	0.35		
02/26/10 22:58	13.97	2984.50	289.42	0.22	0.04	4419.80	142.08			4.13	3.86	-0.17	0.31		
02/26/10 22:59	13.98	3157.90	330.73	0.18	0.04	4379.50	151.24			4.24	3.92	-0.14	0.34		
02/26/10 23:00	14.00	3128.50	326.00	0.22		4420.10	148.20			4.15		-0.15	0.34		
02/26/10 23:01	14.02	3057.10	291.62	1.65		4436.80	140.39			3.27		-0.16	0.32		
02/26/10 23:02	14.03	3161.60	332.72	0.09		4379.20	149.59			4.55		-0.14	0.35		
02/26/10 23:03	14.05			1.12	0.08	4427.30	139.22								
02/26/10 23:04	14.07	3827.90	395.62	0.45		4355.80	142.94			3.93		-0.06	0.44		
02/26/10 23:05	14.08	3921.80	369.98	0.27		4394.10	146.17			4.16		-0.05	0.40		
02/26/10 23:06	14.10	4145.50	485.99	0.18		4386.70	149.75			4.36		-0.02	0.51		
02/26/10 23:07	14.12	3558.30	380.11	0.58		4347.10	154.95			3.79		-0.09	0.39		
02/26/10 23:08	14.13	3412.40	369.67	0.81		4360.20	149.90			3.62		-0.11	0.39		
02/26/10 23:09	14.15	3486.50	361.77	0.22	0.04	4291.00	139.89			4.20	3.96	-0.09	0.41		
02/26/10 23:10	14.17	3871.60	381.65			4422.20	153.40					-0.06	0.40		
02/26/10 23:11	14.18			0.31		4421.70	146.83								
02/26/10 23:12	14.20	3388.90	344.72	0.31	0.04	4443.70	149.65			4.04	3.94	-0.12	0.36		
02/26/10 23:13	14.22	3862.10	389.13	0.63		4415.40	142.21			3.79		-0.06	0.44		
02/26/10 23:14	14.23	3691.80	409.38			4457.60	144.55					-0.08	0.45		
02/26/10 23:15	14.25	3414.80	331.88	0.13	0.04	4474.60	149.27			4.42	3.92	-0.12	0.35		
02/26/10 23:16	14.27	3044.30	306.79	0.09	0.04	4476.80	149.28			4.53	3.88	-0.17	0.31		
02/26/10 23:17	14.28	3176.80	323.33	0.09	0.09	4499.90	148.85			4.55	3.56	-0.15	0.34		
02/26/10 23:18	14.30	2991.90	288.23	0.18		4489.50	154.83			4.22		-0.18	0.27		
02/26/10 23:19	14.32	3244.80	309.14	0.31		4505.20	149.17			4.02		-0.14	0.32		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/26/10 23:20	14.33	3428.20	339.40	0.85		4490.10	148.56			3.61		-0.12	0.36		
02/26/10 23:21	14.35	3170.60	332.69	0.31		4490.60	157.75			4.01		-0.15	0.32		
02/26/10 23:22	14.37	3565.70	342.28	0.40	0.04	4459.00	154.52			3.95	3.93	-0.10	0.35		
02/26/10 23:23	14.38			0.49	0.04	4458.20	153.36								
02/26/10 23:24	14.40	3111.10	318.65	0.22		4470.10	150.38			4.15		-0.16	0.33		
02/26/10 23:25	14.42	3337.20	386.71	0.09	0.04	4480.70	151.32			4.57	3.99	-0.13	0.41		
02/26/10 23:26	14.43	3222.50	346.10	0.49		4461.60	147.43			3.82		-0.14	0.37		
02/26/10 23:27	14.45	3841.00	409.79	0.04		4462.20	153.13			4.98		-0.07	0.43		
02/26/10 23:28	14.47	3655.00	373.28	0.27	0.04	4482.90	148.93			4.13	3.97	-0.09	0.40		
02/26/10 23:29	14.48	3659.60	381.27	0.40		4470.10	141.87			3.96		-0.09	0.43		
02/26/10 23:30	14.50	3314.90	381.40	0.27		4462.80	152.44			4.09		-0.13	0.40		
02/26/10 23:31	14.52	3330.70	327.75	1.07	0.08	4487.90	147.68			3.49	3.61	-0.13	0.35		
02/26/10 23:32	14.53	3534.70	331.04	0.54		4468.90	156.04			3.82		-0.10	0.33		
02/26/10 23:33	14.55	3431.30	349.36	1.39		4496.60	153.86			3.39		-0.12	0.36		
02/26/10 23:34	14.57	3273.40	323.53	0.49		4471.50	154.13			3.82		-0.14	0.32		
02/26/10 23:35	14.58	3273.40	323.53	0.31		4487.30	150.81			4.02		-0.14	0.33		
02/26/10 23:36	14.60	3695.10	356.21	1.52	0.08	4504.10	156.00			3.39	3.65	-0.09	0.36		
02/26/10 23:37	14.62	3830.20	354.51	1.03	0.04	4476.00	163.39			3.57	3.95	-0.07	0.34		
02/26/10 23:38	14.63	3470.70	361.49	0.40	0.04	4517.50	162.63			3.94	3.96	-0.11	0.35		
02/26/10 23:39	14.65	4074.90	373.37	0.40	0.04	4501.50	164.79			4.01	3.97	-0.04	0.36		
02/26/10 23:40	14.67	3675.40	359.54	0.49		4516.80	156.73			3.88		-0.09	0.36		
02/26/10 23:41	14.68	3536.30	331.74	0.49		4516.80	156.73			3.86		-0.11	0.33		
02/26/10 23:42	14.70	3792.00	350.92	1.61	0.08	4486.60	160.28			3.37	3.64	-0.07	0.34		
02/26/10 23:43	14.72	3540.20	375.84	0.09		4468.70	154.05			4.59		-0.10	0.39		
02/26/10 23:44	14.73			0.45		4506.50	156.88								
02/26/10 23:45	14.75	3517.30	336.57	2.18	0.04	4540.70	152.83			3.21	3.93	-0.11	0.34		
02/26/10 23:46	14.77			2.18	0.04	4540.70	152.83								
02/26/10 23:47	14.78	3434.70	329.36	0.27	0.04	4549.00	153.49			4.10	3.92	-0.12	0.33		
02/26/10 23:48	14.80	3434.70	329.36	0.27	0.04	4538.30	153.69			4.10	3.92	-0.12	0.33		
02/26/10 23:49	14.82	3049.50	314.94			4534.70	147.61					-0.17	0.33		
02/26/10 23:50	14.83	3615.10	356.30	3.85	0.04	4528.50	150.87			2.97	3.95	-0.10	0.37		
02/26/10 23:51	14.85	3554.40	343.01	0.49		4531.90	155.94			3.86		-0.11	0.34		
02/26/10 23:52	14.87	3366.60	340.48	0.36		4556.10	156.57			3.97		-0.13	0.34		
02/26/10 23:53	14.88	3618.40	364.26	0.36		4528.90	170.05			4.00		-0.10	0.33		
02/26/10 23:54	14.90	3686.70	349.04	1.07		4523.70	154.97			3.54		-0.09	0.35		
02/26/10 23:55	14.92	4293.60	373.76	0.58	0.04	4517.10	169.05			3.87	3.97	-0.02	0.34		
02/26/10 23:56	14.93	4293.60	373.76	0.58	0.04	4517.10	169.05			3.87	3.97	-0.02	0.34		
02/26/10 23:57	14.95	3950.90	371.44	0.27		4526.50	159.24			4.17		-0.06	0.37		
02/26/10 23:58	14.97	3496.90	331.03	0.58	0.04	4526.40	160.66			3.78	3.92	-0.11	0.31		
02/26/10 23:59	14.98	3625.10	371.38	0.13		4538.10	161.84			4.45		-0.10	0.36		
02/27/10 00:00	15.00	3459.50	322.84	0.31		4563.10	163.22			4.05		-0.12	0.30		
02/27/10 00:00	15.00	3459.50	322.84	0.31		4563.10	163.22			4.05		-0.12	0.30		
02/27/10 00:01	15.02	3512.80	365.27	0.13		4563.10	163.22			4.43		-0.11	0.35		
02/27/10 00:02	15.03			0.31											
02/27/10 00:02	15.03			0.31											
02/27/10 00:03	15.05	3091.10	327.81	1.48	0.04	4575.10	155.88			3.32	3.91	-0.17	0.32		
02/27/10 00:04	15.07	3582.20	368.13	1.48	0.04	4575.10	155.88			3.38	3.96	-0.11	0.37		
02/27/10 00:05	15.08	4177.50	387.44	0.54	0.09	4562.00	157.65			3.89	3.63	-0.04	0.39		
02/27/10 00:06	15.10			0.58		4581.00	159.64								
02/27/10 00:07	15.12	3495.50	371.73	0.63	0.04	4582.70	160.38			3.74	3.97	-0.12	0.37		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/27/10 00:07	15.12	3495.50	371.73	0.63	0.04	4582.70	160.38			3.74	3.97	-0.12	0.37		
02/27/10 00:08	15.13	3209.10	328.47	0.63	0.04	4582.70	160.38			3.71	3.91	-0.15	0.31		
02/27/10 00:09	15.15	3853.00	353.02	0.63	0.04	4568.20	157.15			3.79	3.95	-0.07	0.35		
02/27/10 00:10	15.17	3342.30	346.57	0.49	0.04	4603.60	162.83			3.83	3.94	-0.14	0.33		
02/27/10 00:10	15.17	3342.30	346.57	0.49	0.04	4603.60	162.83			3.83	3.94	-0.14	0.33		
02/27/10 00:11	15.18	3060.50	302.35	0.49	0.04	4603.60	162.83			3.80	3.88	-0.18	0.27		
02/27/10 00:12	15.20	3445.50	336.63	0.49	0.04	4597.60	163.55			3.85	3.93	-0.13	0.31		
02/27/10 00:13	15.22	3435.30	333.43	0.31		4602.00	160.74			4.04		-0.13	0.32		
02/27/10 00:14	15.23	2993.90	308.30	0.63	0.04	4592.50	162.55			3.68	3.89	-0.19	0.28		
02/27/10 00:15	15.25	3551.20	340.07	0.49		4599.80	169.63			3.86		-0.11	0.30		
02/27/10 00:16	15.27	3908.10	418.83	0.22		4607.10	158.90			4.25		-0.07	0.42		
02/27/10 00:17	15.28	3278.00	347.24	0.85	0.08	4587.20	160.71			3.59	3.64	-0.15	0.33		
02/27/10 00:18	15.30	3446.50	342.51	0.31	0.04	4592.90	159.79			4.05	3.93	-0.12	0.33		
02/27/10 00:19	15.32	4110.10	377.93	0.36		4591.30	158.44			4.06		-0.05	0.38		
02/27/10 00:20	15.33	3982.80	403.32	0.76	0.09	4590.20	150.90			3.72	3.65	-0.06	0.43		
02/27/10 00:21	15.35	3867.20	373.38	0.22	0.04	4581.60	156.82			4.24	3.97	-0.07	0.38		
02/27/10 00:22	15.37	3646.60	358.12	0.04		4598.50	151.88			4.96		-0.10	0.37		
02/27/10 00:23	15.38	3130.20	313.10	0.67	0.04	4599.90	153.07			3.67	3.89	-0.17	0.31		
02/27/10 00:24	15.40	3144.80	318.14	0.31		4579.00	154.79			4.01		-0.16	0.31		
02/27/10 00:25	15.42	3177.10	320.76	0.49	0.04	4615.50	156.52			3.81	3.90	-0.16	0.31		
02/27/10 00:25	15.42	3177.10	320.76	0.49	0.04	4615.50	156.52			3.81	3.90	-0.16	0.31		
02/27/10 00:26	15.43	3177.10	320.76	0.67						3.68					
02/27/10 00:27	15.45	3023.70	316.56	0.67		4598.50	172.85			3.65		-0.18	0.26		
02/27/10 00:28	15.47	3569.10	337.59	5.18	0.08	4624.10	156.48			2.84	3.63	-0.11	0.33		
02/27/10 00:28	15.47	3569.10	337.59	5.18	0.08	4624.10	156.48			2.84	3.63	-0.11	0.33		
02/27/10 00:29	15.48	3514.60	397.64	5.18	0.08	4605.90	161.77			2.83	3.70	-0.12	0.39		
02/27/10 00:29	15.48	3514.60	397.64	5.18	0.08	4605.90	161.77			2.83	3.70	-0.12	0.39		
02/27/10 00:30	15.50	3726.20	357.94			4605.90	161.77					-0.09	0.34		
02/27/10 00:30	15.50	3726.20	357.94			4605.90	161.77					-0.09	0.34		
02/27/10 00:31	15.52	3726.20	357.94	0.36	0.13					4.01	3.44				
02/27/10 00:32	15.53	3380.20	379.25	0.36	0.13	4616.70	157.03			3.97	3.46	-0.14	0.38		
02/27/10 00:33	15.55	3397.60	353.23	0.36		4600.50	163.91			3.97		-0.13	0.33		
02/27/10 00:34	15.57	3539.00	345.73	0.76	0.04	4611.00	164.67			3.67	3.94	-0.11	0.32		
02/27/10 00:35	15.58	3900.80	397.05	0.49	0.04	4605.40	167.10			3.90	4.00	-0.07	0.38		
02/27/10 00:36	15.60	3275.20	336.21	0.13		4617.70	157.98			4.40		-0.15	0.33		
02/27/10 00:37	15.62	3693.90	363.16	0.45	0.13	4620.30	157.96			3.91	3.45	-0.10	0.36		
02/27/10 00:38	15.63	3902.00	356.83	0.31		4616.40	159.19			4.10		-0.07	0.35		
02/27/10 00:39	15.65	3560.80	346.20	0.45	0.09	4614.30	161.11			3.90	3.59	-0.11	0.33		
02/27/10 00:39	15.65	3560.80	346.20	0.45	0.09	4614.30	161.11			3.90	3.59	-0.11	0.33		
02/27/10 00:40	15.67	3198.10	372.38	0.45	0.09	4614.30	161.11			3.85	3.62	-0.16	0.36		
02/27/10 00:41	15.68	3768.90	379.65	1.12		4614.30	161.11			3.53		-0.09	0.37		
02/27/10 00:42	15.70	3961.20	382.81	1.30	0.08	4618.10	167.15			3.48	3.68	-0.07	0.36		
02/27/10 00:43	15.72	3834.40	383.62	0.58		4607.10	163.66			3.82		-0.08	0.37		
02/27/10 00:44	15.73	3250.30	335.23	1.07	0.08	4610.00	170.06			3.48	3.62	-0.15	0.29		
02/27/10 00:45	15.75	3505.30	344.53	1.07	0.04	4606.40	169.00			3.52	3.94	-0.12	0.31		
02/27/10 00:46	15.77	3416.70	363.09	1.21	0.04	4613.60	172.21			3.45	3.96	-0.13	0.32		
02/27/10 00:46	15.77	3416.70	363.09	1.21	0.04	4613.60	172.21			3.45	3.96	-0.13	0.32		
02/27/10 00:47	15.78	3652.80	345.39	2.38		4612.00	168.22			3.19		-0.10	0.31		
02/27/10 00:47	15.78	3652.80	345.39	2.38		4612.00	168.22			3.19		-0.10	0.31		
02/27/10 00:48	15.80	3314.80	348.09			4612.00	168.22					-0.14	0.32		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/27/10 00:49	15.82	3157.40	311.81	1.16	0.13	4591.70	166.23			3.43	3.38	-0.16	0.27		
02/27/10 00:50	15.83	3813.80	366.02	0.76	0.04	4616.10	172.03			3.70	3.96	-0.08	0.33		
02/27/10 00:51	15.85	3161.40	342.98	0.58	0.09	4606.80	176.08			3.74	3.58	-0.16	0.29		
02/27/10 00:52	15.87	3926.90	355.11	0.98	0.17	4622.10	164.73			3.60	3.32	-0.07	0.33		
02/27/10 00:52	15.87	3926.90	355.11	0.98	0.17	4622.10	164.73			3.60	3.32	-0.07	0.33		
02/27/10 00:53	15.88	4006.70	402.84	0.98	0.17	4622.10	164.73			3.61	3.37	-0.06	0.39		
02/27/10 00:54	15.90	3681.40	372.82	0.85		4591.30	160.35			3.64		-0.10	0.37		
02/27/10 00:55	15.92	3599.70	351.65	1.56	0.08	4610.30	168.81			3.36	3.64	-0.11	0.32		
02/27/10 00:56	15.93	3973.20	385.83	0.85	0.04	4623.90	161.99			3.67	3.98	-0.07	0.38		
02/27/10 00:57	15.95	3434.90	366.63	0.76	0.13					3.66	3.45				
02/27/10 00:57	15.95	3434.90	366.63	0.76	0.13					3.66	3.45				
02/27/10 00:58	15.97	3321.70	312.93												
02/27/10 00:59	15.98	3473.70	334.40	0.80	0.08	4601.30	167.65			3.64	3.62	-0.12	0.30		
02/27/10 01:00	16.00	3549.90	352.86	2.05		4622.50	168.39			3.24		-0.11	0.32		
02/27/10 01:01	16.02	3999.90	438.88	0.98		4620.60	167.80			3.61		-0.06	0.42		
02/27/10 01:02	16.03	3426.90	358.51	0.94	0.08	4625.80	167.61			3.56	3.65	-0.13	0.33		
02/27/10 01:02	16.03	3426.90	358.51	0.94	0.08	4625.80	167.61			3.56	3.65	-0.13	0.33		
02/27/10 01:03	16.05	3642.20	378.40	0.94	0.08	4625.80	167.61			3.59	3.67	-0.10	0.35		
02/27/10 01:04	16.07	3083.00	357.41	1.70		4611.00	169.92			3.26		-0.17	0.32		
02/27/10 01:05	16.08	3232.30	335.17	0.80	0.08	4607.10	176.84			3.61	3.62	-0.15	0.28		
02/27/10 01:06	16.10	3362.80	377.04	1.07		4621.80	166.98			3.50		-0.14	0.35		
02/27/10 01:07	16.12	2872.20	309.81	1.03	0.13	4623.60	166.41			3.45	3.38	-0.21	0.27		
02/27/10 01:08	16.13	2963.90	294.69	1.16		4626.30	163.57			3.41		-0.19	0.26		
02/27/10 01:09	16.15	2860.80	291.30	1.25	0.08	4614.60	174.15			3.36	3.56	-0.21	0.22		
02/27/10 01:10	16.17	3151.70	304.47	1.43	0.04	4617.50	170.64			3.34	3.88	-0.17	0.25		
02/27/10 01:11	16.18	3307.70	337.48	1.83	0.04	4627.60	162.22			3.26	3.93	-0.15	0.32		
02/27/10 01:12	16.20	3164.40	321.45	1.12	0.13	4633.40	156.20			3.45	3.39	-0.17	0.31		
02/27/10 01:12	16.20	3164.40	321.45	1.12	0.13	4633.40	156.20			3.45	3.39	-0.17	0.31		
02/27/10 01:13	16.22	3134.40	303.80	1.12	0.13	4633.40	156.20			3.45	3.37	-0.17	0.29		
02/27/10 01:14	16.23	3195.70	319.20	0.76	0.04	4618.90	169.82			3.62	3.90	-0.16	0.27		
02/27/10 01:15	16.25	3333.90	367.40	1.70	0.08	4623.90	167.69			3.29	3.66	-0.14	0.34		
02/27/10 01:15	16.25	3333.90	367.40	1.70	0.08	4623.90	167.69			3.29	3.66	-0.14	0.34		
02/27/10 01:16	16.27	3115.50	308.45	1.70	0.08	4623.90	167.69			3.26	3.59	-0.17	0.26		
02/27/10 01:17	16.28	3515.70	341.10	1.12	0.08	4616.30	169.87			3.50	3.63	-0.12	0.30		
02/27/10 01:18	16.30	3971.40	393.87	1.56	0.04	4618.00	165.77			3.41	3.99	-0.07	0.38		
02/27/10 01:19	16.32	3414.40	343.90	1.87	0.13	4609.10	173.20			3.26	3.42	-0.13	0.30		
02/27/10 01:20	16.33	3171.90	354.35	2.27	0.08	4616.00	169.77			3.15	3.65	-0.16	0.32		
02/27/10 01:20	16.33	3171.90	354.35	2.27	0.08	4616.00	169.77			3.15	3.65	-0.16	0.32		
02/27/10 01:21	16.35	3970.20	387.03	2.27	0.08	4616.00	169.77			3.24	3.68	-0.07	0.36		
02/27/10 01:22	16.37	3791.30	389.18			4608.60	172.73					-0.08	0.35		
02/27/10 01:22	16.37	3791.30	389.18			4608.60	172.73					-0.08	0.35		
02/27/10 01:23	16.38	3401.40	388.09			4608.60	172.73					-0.13	0.35		
02/27/10 01:24	16.40	3261.70	335.33	3.19	0.22	4621.60	162.26			3.01	3.18	-0.15	0.32		
02/27/10 01:25	16.42	3860.50	393.31	1.79	0.04	4618.00	171.68			3.33	3.99	-0.08	0.36		
02/27/10 01:26	16.43	3563.90	460.41	2.62	0.04	4617.10	172.36			3.13	4.06	-0.11	0.43		
02/27/10 01:27	16.45	3254.10	339.05	2.58	0.13	4609.20	170.00			3.10	3.42	-0.15	0.30		
02/27/10 01:28	16.47	3108.10	326.33	1.70	0.04	4616.50	174.98			3.26	3.91	-0.17	0.27		
02/27/10 01:29	16.48	3325.50	366.36	1.92	0.04	4614.60	176.29			3.24	3.96	-0.14	0.32		
02/27/10 01:30	16.50	3581.70	337.92	2.89		4613.00	182.41			3.09		-0.11	0.27		
02/27/10 01:31	16.52	3260.90	310.15	2.67	0.04	4644.80	197.50			3.09	3.89	-0.15	0.20		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/27/10 01:32	16.53	3222.30	335.75	2.27	0.13	4635.00	201.58			3.15	3.41	-0.16	0.22		
02/27/10 01:33	16.55	3124.30	318.30	3.71	0.17	4753.40	211.83			2.93	3.27	-0.18	0.18		
02/27/10 01:34	16.57	3124.30	318.30	3.28	0.08	4642.50	214.75			2.98	3.60	-0.17	0.17		
02/27/10 01:35	16.58	3222.70	347.45	3.41	0.17	4652.90	203.08			2.98	3.31	-0.16	0.23		
02/27/10 01:35	16.58	3222.70	347.45	3.41	0.17	4652.90	203.08			2.98	3.31	-0.16	0.23		
02/27/10 01:36	16.60	3411.20	333.01	4.92	0.30	4673.50	200.08			2.84	3.05	-0.14	0.22		
02/27/10 01:36	16.60	3411.20	333.01	4.92	0.30	4673.50	200.08			2.84	3.05	-0.14	0.22		
02/27/10 01:37	16.62	3857.40	384.02	4.92	0.30	4673.50	200.08			2.89	3.11	-0.08	0.28		
02/27/10 01:38	16.63	3441.70	347.34			4635.00	201.50					-0.13	0.24		
02/27/10 01:39	16.65	3871.80	440.76	3.41	0.08	4602.70	203.66			3.06	3.74	-0.08	0.34		
02/27/10 01:39	16.65	3871.80	440.76	3.41	0.08	4602.70	203.66			3.06	3.74	-0.08	0.34		
02/27/10 01:40	16.67	3871.80	440.76	4.23	0.17					2.96	3.41				
02/27/10 01:41	16.68	3556.00	348.08	4.23	0.17	4637.90	201.58			2.92	3.31	-0.12	0.24		
02/27/10 01:42	16.70			3.93	0.08	4637.90	201.58								
02/27/10 01:43	16.72	2949.30	303.73	5.77	0.08	4626.00	213.08			2.71	3.58	-0.20	0.15		
02/27/10 01:44	16.73	2901.80	284.15	4.32	0.30	4630.80	209.25			2.83	2.98	-0.20	0.13		
02/27/10 01:44	16.73	2901.80	284.15	4.32	0.30	4630.80	209.25			2.83	2.98	-0.20	0.13		
02/27/10 01:45	16.75	2901.80	284.15	5.26	0.21	4640.30	206.83			2.74	3.13	-0.20	0.14		
02/27/10 01:46	16.77	3335.30	323.71	5.13	0.26	4688.30	208.75			2.81	3.10	-0.15	0.19		
02/27/10 01:46	16.77	3335.30	323.71	5.13	0.26	4688.30	208.75			2.81	3.10	-0.15	0.19		
02/27/10 01:47	16.78	3040.50	314.81	5.60	0.17	4673.70	211.00			2.73	3.27	-0.19	0.17		
02/27/10 01:47	16.78	3040.50	314.81	5.60	0.17	4673.70	211.00			2.73	3.27	-0.19	0.17		
02/27/10 01:48	16.80	3653.90	362.70	4.96	0.26	4673.70	211.00			2.87	3.14	-0.11	0.24		
02/27/10 01:49	16.82	3520.60	336.25	4.96	0.26	4673.70	211.00			2.85	3.11	-0.12	0.20		
02/27/10 01:50	16.83	3548.00	395.43	5.43	0.43	4668.80	202.16			2.82	2.96	-0.12	0.29		
02/27/10 01:51	16.85	3590.40	349.08	6.15	0.13	4611.70	210.16			2.77	3.43	-0.11	0.22		
02/27/10 01:52	16.87	3533.00	341.78	7.33	0.21	4666.50	208.58			2.68	3.21	-0.12	0.21		
02/27/10 01:52	16.87	3533.00	341.78	7.33	0.21	4666.50	208.58			2.68	3.21	-0.12	0.21		
02/27/10 01:53	16.88	3541.40	366.46	7.24	0.34	4666.50	208.58			2.69	3.03	-0.12	0.24		
02/27/10 01:54	16.90	3289.20	333.21	6.15	0.26	4715.70	207.66			2.73	3.11	-0.16	0.21		
02/27/10 01:54	16.90	3289.20	333.21	6.15	0.26	4715.70	207.66			2.73	3.11	-0.16	0.21		
02/27/10 01:55	16.92	3128.40	297.91	7.54	0.30	4715.70	207.66			2.62	3.00	-0.18	0.16		
02/27/10 01:55	16.92	3128.40	297.91	7.54	0.30	4715.70	207.66			2.62	3.00	-0.18	0.16		
02/27/10 01:56	16.93	3144.80	303.59	7.54	0.30	4719.70	208.91			2.62	3.01	-0.18	0.16		
02/27/10 01:56	16.93	3144.80	303.59	7.54	0.30	4719.70	208.91			2.62	3.01	-0.18	0.16		
02/27/10 01:57	16.95	3144.80	303.59	7.07	0.52	4658.10	208.66			2.65	2.77	-0.17	0.16		
02/27/10 01:58	16.97	3400.40	366.19	7.07	0.52	4658.10	208.66			2.68	2.85	-0.14	0.24		
02/27/10 01:59	16.98	3770.90	341.14	9.44	0.21	4687.00	208.58			2.60	3.21	-0.09	0.21		
02/27/10 02:00	17.00	3708.80	350.46	8.39	0.43	4667.20	197.25			2.65	2.91	-0.10	0.25		
02/27/10 02:01	17.02			9.50	0.42	4682.00	192.41								
02/27/10 02:01	17.02			9.50	0.42	4682.00	192.41								
02/27/10 02:02	17.03	3810.90	653.56	9.63	0.12	4610.60	197.91			2.60	3.74	-0.08	0.52		
02/27/10 02:03	17.05	3502.30	400.61	9.63	0.12	4610.60	197.91			2.56	3.52	-0.12	0.31		
02/27/10 02:04	17.07	3191.90	343.15	9.11	0.94	4619.50	179.33			2.54	2.56	-0.16	0.28		
02/27/10 02:05	17.08	3444.40	387.43	9.78	0.47	4619.80	169.97			2.55	2.92	-0.13	0.36		
02/27/10 02:06	17.10	3468.10	346.98	11.49	0.80	4628.80	172.58			2.48	2.64	-0.13	0.30		
02/27/10 02:06	17.10	3468.10	346.98	11.49	0.80	4628.80	172.58			2.48	2.64	-0.13	0.30		
02/27/10 02:07	17.12	3468.10	346.98	11.95	0.50	4639.30	179.66			2.46	2.84	-0.13	0.29		
02/27/10 02:08	17.13	3445.30	339.57	12.88	0.58	4670.10	195.16			2.43	2.77	-0.13	0.24		
02/27/10 02:08	17.13	3445.30	339.57	12.88	0.58	4670.10	195.16			2.43	2.77	-0.13	0.24		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/27/10 02:09	17.15	3445.30	339.57	12.98	0.46	4668.40	194.83			2.42	2.87	-0.13	0.24		
02/27/10 02:10	17.17	3324.60	351.51	12.98	0.46	4668.40	194.83			2.41	2.88	-0.15	0.26		
02/27/10 02:11	17.18	3362.50	353.65	12.30	0.59	4583.10	202.41			2.44	2.78	-0.13	0.24		
02/27/10 02:12	17.20	3475.00	355.03	16.27	0.94	4692.80	200.00			2.33	2.58	-0.13	0.25		
02/27/10 02:12	17.20	3475.00	355.03	16.27	0.94	4692.80	200.00			2.33	2.58	-0.13	0.25		
02/27/10 02:13	17.22	3353.30	340.51	15.48	1.07	4692.80	200.00			2.34	2.50	-0.15	0.23		
02/27/10 02:13	17.22	3353.30	340.51	15.48	1.07	4692.80	200.00			2.34	2.50	-0.15	0.23		
02/27/10 02:14	17.23	3353.30	340.51	17.91	0.65	4695.50	197.08			2.27	2.72	-0.15	0.24		
02/27/10 02:15	17.25	3345.20	361.72	17.91	0.65	4695.50	197.08			2.27	2.75	-0.15	0.26		
02/27/10 02:16	17.27	3040.10	313.18	17.70	0.81	4707.50	196.91			2.23	2.59	-0.19	0.20		
02/27/10 02:17	17.28	3326.60	344.51	17.70	0.77	4716.50	192.58			2.27	2.65	-0.15	0.25		
02/27/10 02:18	17.30	3436.20	328.75	17.99	1.01	4723.30	192.83			2.28	2.51	-0.14	0.23		
02/27/10 02:19	17.32	3156.20	296.84	18.94	1.05	4712.60	201.91			2.22	2.45	-0.17	0.17		
02/27/10 02:20	17.33	3687.60	349.56	20.78	1.31	4748.00	198.00			2.25	2.43	-0.11	0.25		
02/27/10 02:21	17.35	3694.20	398.88	20.91	1.03	4748.80	197.75			2.25	2.59	-0.11	0.30		
02/27/10 02:22	17.37	3702.40	393.33	22.21	1.03	4757.60	199.25			2.22	2.58	-0.11	0.30		
02/27/10 02:22	17.37	3702.40	393.33	22.21	1.03	4757.60	199.25			2.22	2.58	-0.11	0.30		
02/27/10 02:23	17.38	3687.10	359.02	21.81	1.27	4757.60	199.25			2.23	2.45	-0.11	0.26		
02/27/10 02:23	17.38	3687.10	359.02	21.81	1.27	4757.60	199.25			2.23	2.45	-0.11	0.26		
02/27/10 02:24	17.40	3687.10	359.02	23.00	1.14	4818.20	225.66			2.20	2.50	-0.12	0.20		
02/27/10 02:25	17.42	3155.50	316.77	23.00	1.14	4818.20	225.66			2.14	2.44	-0.18	0.15		
02/27/10 02:26	17.43	2949.30	304.59	23.61	1.29	4716.60	194.83			2.10	2.37	-0.20	0.19		
02/27/10 02:27	17.45	3386.80	311.88	22.79	0.94	4749.80	184.50			2.17	2.52	-0.15	0.23		
02/27/10 02:28	17.47	3790.10	398.62	24.22	0.98	4733.10	188.50			2.19	2.61	-0.10	0.33		
02/27/10 02:29	17.48	3607.10	354.51	26.46	1.39	4762.00	191.25			2.13	2.41	-0.12	0.27		
02/27/10 02:30	17.50	3238.20	316.05	26.40	1.27	4768.70	187.58			2.09	2.40	-0.17	0.23		
02/27/10 02:31	17.52	2941.30	277.75	26.67	1.27	4738.60	186.25			2.04	2.34	-0.21	0.17		
02/27/10 02:32	17.53	3701.10	387.89	29.89	1.25	4770.60	213.83			2.09	2.49	-0.11	0.26		
02/27/10 02:33	17.55	3563.50	345.31	31.52	1.09	4808.40	212.41			2.05	2.50	-0.13	0.21		
02/27/10 02:33	17.55	3563.50	345.31	31.52	1.09	4808.40	212.41			2.05	2.50	-0.13	0.21		
02/27/10 02:34	17.57	3685.70	371.65	30.07	1.51	4808.40	212.41			2.09	2.39	-0.12	0.24		
02/27/10 02:35	17.58	3807.50	346.91	30.89	1.61	4779.70	216.83			2.09	2.33	-0.10	0.20		
02/27/10 02:35	17.58	3807.50	346.91	30.89	1.61	4779.70	216.83			2.09	2.33	-0.10	0.20		
02/27/10 02:36	17.60	4139.50	391.72	33.17	1.63	4734.60	207.58			2.10	2.38	-0.06	0.28		
02/27/10 02:37	17.62	3523.80	365.56	33.17	1.63	4734.60	207.58			2.03	2.35	-0.13	0.25		
02/27/10 02:38	17.63	3793.10	354.69	32.79	1.63	4785.10	216.16			2.06	2.34	-0.10	0.22		
02/27/10 02:39	17.65	3794.40	342.88	35.97	1.46	4780.30	209.83			2.02	2.37	-0.10	0.21		
02/27/10 02:40	17.67	3234.50	315.75	33.33	2.03	4769.30	214.91			1.99	2.19	-0.17	0.17		
02/27/10 02:40	17.67	3234.50	315.75	33.33	2.03	4769.30	214.91			1.99	2.19	-0.17	0.17		
02/27/10 02:41	17.68	4009.70	390.67	33.33	2.03					2.08	2.28				
02/27/10 02:42	17.70	3453.90	368.98	36.79	1.60	4789.50	216.75			1.97	2.36	-0.14	0.23		
02/27/10 02:43	17.72	3837.40	351.85	34.65	1.40	4807.80	214.41			2.04	2.40	-0.10	0.22		
02/27/10 02:44	17.73	3825.00	438.39			4846.30	205.91					-0.10	0.33		
02/27/10 02:44	17.73	3825.00	438.39			4846.30	205.91					-0.10	0.33		
02/27/10 02:45	17.75	3912.80	385.44			4846.30	205.91					-0.09	0.27		
02/27/10 02:46	17.77	3181.90	335.75	39.92	1.43	4806.80	207.33			1.90	2.37	-0.18	0.21		
02/27/10 02:47	17.78	3368.30	348.45	43.22	1.89	4779.80	208.08			1.89	2.27	-0.15	0.22		
02/27/10 02:48	17.80	3196.90	321.04	42.76	1.69	4781.50	213.91			1.87	2.28	-0.17	0.18		
02/27/10 02:49	17.82	2965.90	280.67	44.22	1.95	4844.90	216.83			1.83	2.16	-0.21	0.11		
02/27/10 02:50	17.83	3835.40	352.85	46.16	1.76	4837.50	213.08			1.92	2.30	-0.10	0.22		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/27/10 03:33	18.55	2972.50	294.43	102.44	4.69	4834.50	183.58			1.46	1.80	-0.21	0.21		
02/27/10 03:34	18.57	3224.60	326.35	101.72	3.77	4841.80	189.41			1.50	1.94	-0.18	0.24		
02/27/10 03:35	18.58	3101.20	312.37	104.03	4.42	4859.40	188.91			1.47	1.85	-0.20	0.22		
02/27/10 03:36	18.60	3882.20	363.23	109.26	4.80	4851.50	184.41			1.55	1.88	-0.10	0.29		
02/27/10 03:37	18.62	3609.20	318.61	119.80	4.75	4837.10	189.25			1.48	1.83	-0.13	0.23		
02/27/10 03:37	18.62	3609.20	318.61	119.80	4.75	4837.10	189.25			1.48	1.83	-0.13	0.23		
02/27/10 03:38	18.63	3204.10	303.50	114.19	4.57	4815.50	190.41			1.45	1.82	-0.18	0.20		
02/27/10 03:38	18.63	3204.10	303.50	114.19	4.57	4815.50	190.41			1.45	1.82	-0.18	0.20		
02/27/10 03:39	18.65	3597.50	322.27	114.19	4.57	4815.50	190.41			1.50	1.85	-0.13	0.23		
02/27/10 03:40	18.67	3844.60	342.36	114.19	4.57	4849.20	186.50			1.53	1.87	-0.10	0.26		
02/27/10 03:41	18.68	3345.70	318.09	118.97	4.16	4849.20	186.50			1.45	1.88	-0.16	0.23		
02/27/10 03:42	18.70	3213.20	312.99	128.98	5.08	4757.80	197.25			1.40	1.79	-0.17	0.20		
02/27/10 03:43	18.72	3774.50	346.70	121.53	4.45	4796.90	193.16			1.49	1.89	-0.10	0.25		
02/27/10 03:43	18.72	3774.50	346.70	121.53	4.45	4796.90	193.16			1.49	1.89	-0.10	0.25		
02/27/10 03:44	18.73	3962.80	362.12	120.53	4.85	4796.90	193.16			1.52	1.87	-0.08	0.27		
02/27/10 03:45	18.75	3514.90	343.15	126.64	4.66	4778.50	201.00			1.44	1.87	-0.13	0.23		
02/27/10 03:45	18.75	3514.90	343.15	126.64	4.66	4778.50	201.00			1.44	1.87	-0.13	0.23		
02/27/10 03:46	18.77	2856.80	304.99	126.64	4.66	4778.50	201.00			1.35	1.82	-0.22	0.18		
02/27/10 03:47	18.78	2572.80	259.89	126.64	4.66	4817.00	203.41			1.31	1.75	-0.27	0.11		
02/27/10 03:48	18.80	3618.80	324.96	131.85	4.75	4768.20	206.83			1.44	1.84	-0.12	0.20		
02/27/10 03:48	18.80	3618.80	324.96	131.85	4.75	4768.20	206.83			1.44	1.84	-0.12	0.20		
02/27/10 03:49	18.82	3618.80	324.96	129.50	5.81	4806.50	211.00			1.45	1.75	-0.12	0.19		
02/27/10 03:50	18.83	3702.60	340.03	129.50	5.81	4806.50	211.00			1.46	1.77	-0.11	0.21		
02/27/10 03:51	18.85	3263.40	365.04	147.85	5.05	5039.60	221.91			1.34	1.86	-0.19	0.22		
02/27/10 03:52	18.87	3723.60	421.98	136.43	5.51	5304.00	207.90			1.44	1.88	-0.15	0.31		
02/27/10 03:53	18.88	3432.20	340.99	132.86	5.81	4813.40	187.08			1.41	1.77	-0.15	0.26		
02/27/10 03:54	18.90	3322.80	323.63	146.95	6.02	5054.60	205.91			1.35	1.73	-0.18	0.20		
02/27/10 03:55	18.92	3382.70	308.15	153.78	5.81	4843.30	202.16			1.34	1.72	-0.16	0.18		
02/27/10 03:55	18.92	3382.70	308.15	153.78	5.81	4843.30	202.16			1.34	1.72	-0.16	0.18		
02/27/10 03:56	18.93	3660.00	363.64	153.78	5.81	4843.30	202.16			1.38	1.80	-0.12	0.25		
02/27/10 03:57	18.95	3630.40	391.17	153.78	5.81	4830.00	195.08			1.37	1.83	-0.12	0.30		
02/27/10 03:58	18.97	3013.60	291.98	152.06	6.22	5261.60	212.00			1.30	1.67	-0.24	0.14		
02/27/10 03:59	18.98	3296.80	329.16	168.44	6.34	4807.00	195.66			1.29	1.72	-0.16	0.23		
02/27/10 04:00	19.00	3858.70	337.64	163.51	5.56	5286.30	220.90			1.37	1.78	-0.14	0.18		
02/27/10 04:00	19.00	3858.70	337.64	163.51	5.56	5286.30	220.90			1.37	1.78	-0.14	0.18		
02/27/10 04:01	19.02	3449.80	369.87	174.66	6.13	5286.30	220.90			1.30	1.78	-0.19	0.22		
02/27/10 04:01	19.02	3449.80	369.87	174.66	6.13	5286.30	220.90			1.30	1.78	-0.19	0.22		
02/27/10 04:02	19.03	3098.20	295.86			5894.90	253.10					-0.28	0.07		
02/27/10 04:02	19.03	3098.20	295.86			5894.90	253.10					-0.28	0.07		
02/27/10 04:03	19.05	3165.90	304.11	167.82	5.90	5894.90	253.10			1.28	1.71	-0.27	0.08		
02/27/10 04:04	19.07	3306.60	367.69	167.82	5.90	5894.90	253.10			1.29	1.79	-0.25	0.16		
02/27/10 04:05	19.08	3440.30	339.55	183.20	6.17	5922.30	236.00			1.27	1.74	-0.24	0.16		
02/27/10 04:05	19.08	3440.30	339.55	183.20	6.17	5922.30	236.00			1.27	1.74	-0.24	0.16		
02/27/10 04:06	19.10	3082.30	299.62	183.20	6.17	5922.30	236.00			1.23	1.69	-0.28	0.10		
02/27/10 04:07	19.12	3296.30	310.53	183.20	6.17	5866.80	240.80			1.26	1.70	-0.25	0.11		
02/27/10 04:08	19.13	3388.70	328.99	186.77	6.79	5575.40	224.19			1.26	1.69	-0.22	0.17		
02/27/10 04:09	19.15	3108.60	317.48	190.83	6.28	5550.00	237.90			1.21	1.70	-0.25	0.13		
02/27/10 04:10	19.17	3389.00	302.47	201.20	6.90	4879.60	193.41			1.23	1.64	-0.16	0.19		
02/27/10 04:10	19.17	3389.00	302.47	201.20	6.90	4879.60	193.41			1.23	1.64	-0.16	0.19		
02/27/10 04:11	19.18	3468.60	328.59	200.23	5.84	5371.60	220.63			1.24	1.75	-0.19	0.17		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/27/10 04:11	19.18	3468.60	328.59	200.23	5.84	5371.60	220.63			1.24	1.75	-0.19	0.17		
02/27/10 04:12	19.20	3701.20	371.32	202.57	6.53	5371.60	220.63			1.26	1.75	-0.16	0.23		
02/27/10 04:13	19.22	3526.50	345.17	193.49	7.42	5412.20	221.09			1.26	1.67	-0.19	0.19		
02/27/10 04:13	19.22	3526.50	345.17	193.49	7.42	5412.20	221.09			1.26	1.67	-0.19	0.19		
02/27/10 04:14	19.23	3014.40	311.40	193.49	7.42	5412.20	221.09			1.19	1.62	-0.25	0.15		
02/27/10 04:15	19.25	3284.50	325.14	193.49	7.42	5154.10	206.34			1.23	1.64	-0.20	0.20		
02/27/10 04:16	19.27	3430.00	355.43	202.64	6.67	5391.30	220.45			1.23	1.73	-0.20	0.21		
02/27/10 04:17	19.28	3264.40	337.22	217.42	6.70	5137.10	198.26			1.18	1.70	-0.20	0.23		
02/27/10 04:17	19.28	3264.40	337.22	217.42	6.70	5137.10	198.26			1.18	1.70	-0.20	0.23		
02/27/10 04:18	19.30	3264.40	337.22	211.54	6.93	5598.00	227.52			1.19	1.69	-0.23	0.17		
02/27/10 04:19	19.32	3497.10	338.91	211.54	6.93	5598.00	227.52			1.22	1.69	-0.20	0.17		
02/27/10 04:20	19.33	3551.20	336.09	217.19	8.04	5139.90	211.91			1.21	1.62	-0.16	0.20		
02/27/10 04:21	19.35	3495.90	327.81	219.27	8.02	5095.70	213.65			1.20	1.61	-0.16	0.19		
02/27/10 04:22	19.37	3486.60	322.68	224.29	8.15	5629.20	233.04			1.19	1.60	-0.21	0.14		
02/27/10 04:22	19.37	3486.60	322.68	224.29	8.15	5629.20	233.04			1.19	1.60	-0.21	0.14		
02/27/10 04:23	19.38	3486.60	322.68	253.42	9.80	5115.80	206.43			1.14	1.52	-0.17	0.19		
02/27/10 04:23	19.38	3486.60	322.68	253.42	9.80	5115.80	206.43			1.14	1.52	-0.17	0.19		
02/27/10 04:24	19.40	3269.60	324.71	249.91	10.51	5115.80	206.43			1.12	1.49	-0.19	0.20		
02/27/10 04:25	19.42	3874.80	358.72	249.91	10.51	5115.80	206.43			1.19	1.53	-0.12	0.24		
02/27/10 04:26	19.43	3735.50	360.10	255.94	9.76	5125.40	207.73			1.16	1.57	-0.14	0.24		
02/27/10 04:27	19.45	3110.90	315.69	245.96	9.71	5335.40	224.63			1.10	1.51	-0.23	0.15		
02/27/10 04:27	19.45	3110.90	315.69	245.96	9.71	5335.40	224.63			1.10	1.51	-0.23	0.15		
02/27/10 04:28	19.47	3296.40	312.60	251.06	9.66	5335.40	224.63			1.12	1.51	-0.21	0.14		
02/27/10 04:29	19.48	3342.90	332.96	251.06	9.66	5335.40	224.63			1.12	1.54	-0.20	0.17		
02/27/10 04:30	19.50	3061.20	299.83	262.14	7.64	5149.80	204.26			1.07	1.59	-0.23	0.17		
02/27/10 04:31	19.52	3013.40	279.94	246.90	8.40	5137.80	204.95			1.09	1.52	-0.23	0.14		
02/27/10 04:32	19.53	3402.40	343.90	257.78	9.25	5091.90	206.69			1.12	1.57	-0.18	0.22		
02/27/10 04:32	19.53	3402.40	343.90	257.78	9.25	5091.90	206.69			1.12	1.57	-0.18	0.22		
02/27/10 04:33	19.55	3402.40	343.90	257.40	9.24	4890.00	199.16			1.12	1.57	-0.16	0.24		
02/27/10 04:34	19.57	3238.00	303.25	257.40	9.24	4890.00	199.16			1.10	1.52	-0.18	0.18		
02/27/10 04:35	19.58	3861.40	355.15	282.52	9.13	4925.50	195.16			1.14	1.59	-0.11	0.26		
02/27/10 04:36	19.60	3154.40	291.27	264.61	9.82	4887.00	194.16			1.08	1.47	-0.19	0.18		
02/27/10 04:37	19.62	3478.70	333.17	276.03	8.83	4937.70	187.50			1.10	1.58	-0.15	0.25		
02/27/10 04:38	19.63	3471.50	349.54	272.73	9.53	5133.20	207.13			1.10	1.56	-0.17	0.23		
02/27/10 04:39	19.65	3340.00	349.85	276.22	9.80	5100.50	210.69			1.08	1.55	-0.18	0.22		
02/27/10 04:40	19.67	3124.30	355.70	294.57	10.01	5416.40	222.72			1.03	1.55	-0.24	0.20		
02/27/10 04:41	19.68	3164.70	305.43	285.70	9.76	5594.30	227.71			1.04	1.50	-0.25	0.13		
02/27/10 04:42	19.70	3521.80	322.76	306.73	9.14	5657.00	226.95			1.06	1.55	-0.21	0.15		
02/27/10 04:42	19.70	3521.80	322.76	306.73	9.14	5657.00	226.95			1.06	1.55	-0.21	0.15		
02/27/10 04:43	19.72	3670.50	321.78	306.73	9.14	5657.00	226.95			1.08	1.55	-0.19	0.15		
02/27/10 04:44	19.73	3630.60	315.54	316.19	10.70	5287.10	219.90			1.06	1.47	-0.16	0.16		
02/27/10 04:45	19.75	3084.90	279.47			5321.30	212.54					-0.24	0.12		
02/27/10 04:45	19.75	3084.90	279.47			5321.30	212.54					-0.24	0.12		
02/27/10 04:46	19.77	2927.80	255.56			5321.30	212.54					-0.26	0.08		
02/27/10 04:47	19.78	3969.30	357.18	325.44	12.46	4873.00	197.58			1.09	1.46	-0.09	0.26		
02/27/10 04:47	19.78	3969.30	357.18	325.44	12.46	4873.00	197.58			1.09	1.46	-0.09	0.26		
02/27/10 04:48	19.80	3975.10	356.22	325.44	12.46	4873.00	197.58			1.09	1.46	-0.09	0.26		
02/27/10 04:49	19.82	3622.40	366.92	322.25	11.71	5047.30	208.78			1.05	1.50	-0.14	0.24		
02/27/10 04:50	19.83	3678.60	361.59	324.53	12.12	5125.50	209.47			1.05	1.47	-0.14	0.24		
02/27/10 04:51	19.85	2996.60	308.64	332.01	11.25	5376.50	208.27			0.96	1.44	-0.25	0.17		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/27/10 04:52	19.87	2823.10	273.54	326.88	12.76	5139.70	210.78			0.94	1.33	-0.26	0.11		
02/27/10 04:53	19.88	3223.20	300.46	344.62	12.74	5665.60	227.71			0.97	1.37	-0.24	0.12		
02/27/10 04:53	19.88	3223.20	300.46	344.62	12.74	5665.60	227.71			0.97	1.37	-0.24	0.12		
02/27/10 04:54	19.90	3367.50	635.45	344.62	12.74	5665.60	227.71			0.99	1.70	-0.23	0.45		
02/27/10 04:55	19.92	3019.40	276.00	352.31	12.74	5211.40	216.27			0.93	1.34	-0.24	0.11		
02/27/10 04:56	19.93	3211.00	279.74	357.94	13.54	5390.40	224.54			0.95	1.32	-0.22	0.10		
02/27/10 04:57	19.95	4109.50	334.81	359.57	13.43	5391.80	220.45			1.06	1.40	-0.12	0.18		
02/27/10 04:58	19.97	3545.90	350.93	371.55	13.01	5674.60	236.47			0.98	1.43	-0.20	0.17		
02/27/10 04:59	19.98	3143.40	341.56	358.14	12.56	5386.40	230.27			0.94	1.43	-0.23	0.17		
02/27/10 04:59	19.98	3143.40	341.56	358.14	12.56	5386.40	230.27			0.94	1.43	-0.23	0.17		
02/27/10 05:00	20.00	3375.90	332.81	358.14	12.56	5386.40	230.27			0.97	1.42	-0.20	0.16		
02/27/10 05:01	20.02	3491.70	347.68	362.93	13.12	5824.30	248.80			0.98	1.42	-0.22	0.15		
02/27/10 05:02	20.03	3071.60	326.16	384.55	11.11	6282.30	270.21			0.90	1.47	-0.31	0.08		
02/27/10 05:02	20.03	3071.60	326.16	384.55	11.11	6282.30	270.21			0.90	1.47	-0.31	0.08		
02/27/10 05:03	20.05	2546.00	249.32	384.55	11.11	6282.30	270.21			0.82	1.35	-0.39	-0.03		
02/27/10 05:04	20.07	3690.60	324.87	412.02	14.38	6646.00	280.55			0.95	1.35	-0.26	0.06		
02/27/10 05:04	20.07	3690.60	324.87	412.02	14.38	6646.00	280.55			0.95	1.35	-0.26	0.06		
02/27/10 05:05	20.08	2901.60	292.79	403.07	12.73	6538.10	270.77			0.86	1.36	-0.35	0.03		
02/27/10 05:05	20.08	2901.60	292.79	403.07	12.73	6538.10	270.77			0.86	1.36	-0.35	0.03		
02/27/10 05:06	20.10	3066.00	292.81	403.07	12.73	6538.10	270.77			0.88	1.36	-0.33	0.03		
02/27/10 05:07	20.12	4099.80	340.31	427.40	13.91	6638.00	262.00			0.98	1.39	-0.21	0.11		
02/27/10 05:07	20.12	4099.80	340.31	427.40	13.91	6638.00	262.00			0.98	1.39	-0.21	0.11		
02/27/10 05:08	20.13	3394.20	356.68	427.40	13.91					0.90	1.41				
02/27/10 05:09	20.15	3092.50	293.59	406.78	12.99	5917.00	237.30			0.88	1.35	-0.28	0.09		
02/27/10 05:10	20.17	4210.90	358.44	401.30	12.80	5334.00	223.45			1.02	1.45	-0.10	0.21		
02/27/10 05:10	20.17	4210.90	358.44	401.30	12.80	5334.00	223.45			1.02	1.45	-0.10	0.21		
02/27/10 05:11	20.18	3667.50	394.89	401.30	12.80	5334.00	223.45			0.96	1.49	-0.16	0.25		
02/27/10 05:12	20.20	3259.30	323.29	414.95	12.54	4919.70	193.33			0.90	1.41	-0.18	0.22		
02/27/10 05:12	20.20	3259.30	323.29	414.95	12.54	4919.70	193.33			0.90	1.41	-0.18	0.22		
02/27/10 05:13	20.22	2715.70	271.24	414.95	12.54	4919.70	193.33			0.82	1.34	-0.26	0.15		
02/27/10 05:14	20.23	3972.00	350.25	456.13	14.38	5381.10	221.45			0.94	1.39	-0.13	0.20		
02/27/10 05:15	20.25	3757.50	315.12	437.05	14.42	5686.60	236.38			0.93	1.34	-0.18	0.12		
02/27/10 05:16	20.27	3379.90	316.69	438.91	15.21	5959.80	246.70			0.89	1.32	-0.25	0.11		
02/27/10 05:17	20.28	3463.40	304.56	460.48	14.87	6670.00	269.66			0.88	1.31	-0.28	0.05		
02/27/10 05:18	20.30	3706.30	510.57	466.79	14.84	6314.60	255.47			0.90	1.54	-0.23	0.30		
02/27/10 05:19	20.32	3044.40	292.05	465.83	16.41	6260.10	260.31			0.82	1.25	-0.31	0.05		
02/27/10 05:19	20.32	3044.40	292.05	465.83	16.41	6260.10	260.31			0.82	1.25	-0.31	0.05		
02/27/10 05:20	20.33	3691.80	344.42	465.83	16.41	6260.10	260.31			0.90	1.32	-0.23	0.12		
02/27/10 05:21	20.35	3124.80	306.70	469.92	16.40	6602.00	292.55			0.82	1.27	-0.32	0.02		
02/27/10 05:22	20.37	3417.40	336.83	489.96	17.63					0.84	1.28				
02/27/10 05:22	20.37	3417.40	336.83	489.96	17.63					0.84	1.28				
02/27/10 05:23	20.38	3246.70	323.60	482.03	15.07					0.83	1.33				
02/27/10 05:23	20.38	3246.70	323.60	482.03	15.07					0.83	1.33				
02/27/10 05:24	20.40	3105.80	319.66	485.88	17.36	6626.00	289.88			0.81	1.27	-0.33	0.04		
02/27/10 05:24	20.40	3105.80	319.66	485.88	17.36	6626.00	289.88			0.81	1.27	-0.33	0.04		
02/27/10 05:25	20.42	3555.40	333.49	485.88	17.36	6626.00	289.88			0.86	1.28	-0.27	0.06		
02/27/10 05:26	20.43	3432.90	335.62	478.85	19.03	6219.60	261.26			0.86	1.25	-0.26	0.11		
02/27/10 05:27	20.45	3037.40	311.92	464.97	17.65	5622.80	236.66			0.82	1.25	-0.27	0.12		
02/27/10 05:27	20.45	3037.40	311.92	464.97	17.65	5622.80	236.66			0.82	1.25	-0.27	0.12		
02/27/10 05:28	20.47	3029.60	268.86	464.97	17.65	5622.80	236.66			0.81	1.18	-0.27	0.06		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/27/10 05:29	20.48	3585.90	321.91	482.55	17.60	5633.40	227.52			0.87	1.26	-0.20	0.15		
02/27/10 05:30	20.50	3508.60	340.79	462.72	16.28	5662.60	234.19			0.88	1.32	-0.21	0.16		
02/27/10 05:31	20.52	3508.60	340.79	468.33	14.39	5667.20	228.57			0.87	1.37	-0.21	0.17		
02/27/10 05:32	20.53	3213.30	317.12	483.29	15.23	5373.50	224.18			0.82	1.32	-0.22	0.15		
02/27/10 05:33	20.55	3191.40	305.60	480.65	15.53	6254.10	265.26			0.82	1.29	-0.29	0.06		
02/27/10 05:34	20.57	3187.50	310.96	484.43	15.52					0.82	1.30				
02/27/10 05:34	20.57	3187.50	310.96	484.43	15.52					0.82	1.30				
02/27/10 05:35	20.58	3187.50	310.96	484.43	15.52	5928.20	260.20			0.82	1.30	-0.27	0.08		
02/27/10 05:36	20.60			486.69	16.34	5620.40	248.00								
02/27/10 05:37	20.62	2926.90	278.32	498.50	16.21	5383.70	242.81			0.77	1.23	-0.26	0.06		
02/27/10 05:38	20.63	3215.60	332.82	520.17	17.60	6020.40	237.60			0.79	1.28	-0.27	0.15		
02/27/10 05:39	20.65	3229.10	302.66	520.17	17.60	7098.00	280.23			0.79	1.24	-0.34	0.03		
02/27/10 05:40	20.67	2901.60	293.21	494.54	14.95	709.80	280.23			0.77	1.29	0.61	0.02		
02/27/10 05:41	20.68	2757.40	259.95	529.90	15.67	6276.60	253.05			0.72	1.22	-0.36	0.01		
02/27/10 05:42	20.70	3241.20	368.26	538.61	15.88	6170.90	266.31			0.78	1.37	-0.28	0.14		
02/27/10 05:43	20.72	2979.00	284.11	542.28	16.15	5860.80	250.80			0.74	1.25	-0.29	0.05		
02/27/10 05:44	20.73	3565.90	311.04	577.98	20.29	5570.40	232.00			0.79	1.19	-0.19	0.13		
02/27/10 05:44	20.73	3565.90	311.04	577.98	20.29	5570.40	232.00			0.79	1.19	-0.19	0.13		
02/27/10 05:45	20.75	3565.90	311.04	554.10	20.37	5568.30	225.14			0.81	1.18	-0.19	0.14		
02/27/10 05:46	20.77	3952.20	579.51	554.10	20.37	5568.30	225.14			0.85	1.45	-0.15	0.41		
02/27/10 05:47	20.78	3983.70	600.17	555.17	17.56	5063.00	200.60			0.86	1.53	-0.10	0.48		
02/27/10 05:48	20.80	3398.20	410.78	543.03	16.70	5039.60	208.86			0.80	1.39	-0.17	0.29		
02/27/10 05:49	20.82	3701.40	378.12	529.81	16.54	5550.30	222.38			0.84	1.36	-0.18	0.23		
02/27/10 05:49	20.82	3701.40	378.12	529.81	16.54	5550.30	222.38			0.84	1.36	-0.18	0.23		
02/27/10 05:50	20.83	3701.40	378.12	512.11	15.34	5589.70	232.57			0.86	1.39	-0.18	0.21		
02/27/10 05:51	20.85	3649.50	379.40	512.11	15.34	5589.70	232.57			0.85	1.39	-0.19	0.21		
02/27/10 05:52	20.87	3883.60	384.75	538.52	16.74	5834.70	242.30			0.86	1.36	-0.18	0.20		
02/27/10 05:53	20.88	3283.50	358.66	531.43	16.79	5831.50	246.60			0.79	1.33	-0.25	0.16		
02/27/10 05:54	20.90	3360.70	333.50	533.15	17.09	6205.00	253.89			0.80	1.29	-0.27	0.12		
02/27/10 05:55	20.92	3691.00	354.30	549.24	16.98	6553.00	280.44			0.83	1.32	-0.25	0.10		
02/27/10 05:56	20.93	3414.20	339.73	568.62	16.89					0.78	1.30				
02/27/10 05:57	20.95	3651.00	342.33	580.90	19.68	6163.60	287.68			0.80	1.24	-0.23	0.08		
02/27/10 05:58	20.97	3268.80	355.26	978.40	45.17	6168.50	289.57			0.52	0.90	-0.28	0.09		
02/27/10 05:59	20.98	3830.30	353.62	700.40	31.93	6580.00	306.00			0.74	1.04	-0.23	0.06		
02/27/10 06:00	21.00	3140.10	301.28	721.10	32.26	6936.00	315.64			0.64	0.97	-0.34	-0.02		
02/27/10 06:01	21.02	3446.10	307.41	705.00	30.38	6916.00	330.82			0.69	1.01	-0.30	-0.03		
02/27/10 06:02	21.03	3462.20	323.18	712.10	29.97	7456.00	330.00			0.69	1.03	-0.33	-0.01		
02/27/10 06:03	21.05	3202.30	330.80	691.90	27.71	7429.00	350.37			0.67	1.08	-0.37	-0.02		
02/27/10 06:04	21.07	3665.60	364.45	714.50	26.29	6931.00	322.11			0.71	1.14	-0.28	0.05		
02/27/10 06:05	21.08	2842.90	313.75	699.80	29.77	7005.00	319.64			0.61	1.02	-0.39	-0.01		
02/27/10 06:06	21.10	3124.30	287.60	711.00	27.13					0.64	1.03				
02/27/10 06:07	21.12	3178.70	318.68	718.00	28.93	7489.00	350.62			0.65	1.04	-0.37	-0.04		
02/27/10 06:07	21.12	3178.70	318.68	718.00	28.93	7489.00	350.62			0.65	1.04	-0.37	-0.04		
02/27/10 06:08	21.13	2655.00	307.80	743.60	30.21	7489.00	350.62			0.55	1.01	-0.45	-0.06		
02/27/10 06:09	21.15	3035.30	330.73	743.60	30.21	7489.00	350.62			0.61	1.04	-0.39	-0.03		
02/27/10 06:10	21.17	3339.90	307.89	742.20	26.94					0.65	1.06				
02/27/10 06:11	21.18	3688.50	335.74	679.60	24.36	7074.00	318.82			0.73	1.14	-0.28	0.02		
02/27/10 06:12	21.20	3109.00	307.22	688.50	24.21	7524.00	347.75			0.65	1.10	-0.38	-0.05		
02/27/10 06:13	21.22	3238.90	333.67			6647.00	289.66					-0.31	0.06		
02/27/10 06:13	21.22	3238.90	333.67			6647.00	289.66					-0.31	0.06		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/27/10 06:14	21.23	2953.80	309.51	679.20	23.08	6559.00	298.77			0.64	1.13	-0.35	0.02		
02/27/10 06:14	21.23	2953.80	309.51	679.20	23.08	6559.00	298.77			0.64	1.13	-0.35	0.02		
02/27/10 06:15	21.25	2964.90	296.90	679.20	23.08	6559.00	298.77			0.64	1.11	-0.34	0.00		
02/27/10 06:16	21.27	3120.90	287.59	679.20	23.08	7021.00	299.76			0.66	1.10	-0.35	-0.02		
02/27/10 06:17	21.28	2935.20	300.92	673.50	24.30	6645.00	292.00			0.64	1.09	-0.35	0.01		
02/27/10 06:17	21.28	2935.20	300.92	673.50	24.30	6645.00	292.00			0.64	1.09	-0.35	0.01		
02/27/10 06:18	21.30	2935.20	300.92	691.00	23.76	7029.00	312.94			0.63	1.10	-0.38	-0.02		
02/27/10 06:19	21.32	3836.80	330.40	691.00	23.76	7029.00	312.94			0.74	1.14	-0.26	0.02		
02/27/10 06:20	21.33	3633.60	343.64	692.00	24.69	6268.90	278.00			0.72	1.14	-0.24	0.09		
02/27/10 06:21	21.35	3110.30	282.96	693.50	24.45	6266.40	282.21			0.65	1.06	-0.30	0.00		
02/27/10 06:22	21.37	3736.60	322.67	710.70	25.79	7413.00	331.50			0.72	1.10	-0.30	-0.01		
02/27/10 06:22	21.37	3736.60	322.67	710.70	25.79	7413.00	331.50			0.72	1.10	-0.30	-0.01		
02/27/10 06:23	21.38	3764.30	335.49	694.60	25.63	7413.00	331.50			0.73	1.12	-0.29	0.01		
02/27/10 06:24	21.40	3666.30	317.74	694.60	25.63	7413.00	331.50			0.72	1.09	-0.31	-0.02		
02/27/10 06:25	21.42	3870.90	413.24	723.70	25.21	7045.00	308.00			0.73	1.21	-0.26	0.13		
02/27/10 06:26	21.43	3386.10	371.80	744.50	25.08	6661.00	291.77			0.66	1.17	-0.29	0.11		
02/27/10 06:27	21.45	3463.70	351.16	745.30	24.21	7493.00	319.87			0.67	1.16	-0.34	0.04		
02/27/10 06:27	21.45	3463.70	351.16	745.30	24.21	7493.00	319.87			0.67	1.16	-0.34	0.04		
02/27/10 06:28	21.47	3648.70	323.27	728.30	24.67	7493.00	319.87			0.70	1.12	-0.31	0.00		
02/27/10 06:29	21.48	4031.90	380.50	768.70	25.91	6661.00	290.66			0.72	1.17	-0.22	0.12		
02/27/10 06:29	21.48	4031.90	380.50	768.70	25.91	6661.00	290.66			0.72	1.17	-0.22	0.12		
02/27/10 06:30	21.50	3885.80	357.75	765.60	25.84	6706.00	286.77			0.71	1.14	-0.24	0.10		
02/27/10 06:30	21.50	3885.80	357.75	765.60	25.84	6706.00	286.77			0.71	1.14	-0.24	0.10		
02/27/10 06:31	21.52	2975.10	284.24	765.60	25.84	6706.00	286.77			0.59	1.04	-0.35	0.00		
02/27/10 06:32	21.53	3444.00	335.00	765.60	25.84	7552.00	322.12			0.65	1.11	-0.34	0.02		
02/27/10 06:33	21.55	3529.30	331.18	766.40	26.04	7500.00	327.00			0.66	1.10	-0.33	0.01		
02/27/10 06:34	21.57	3058.30	285.35	765.80	26.66	7557.00	336.87			0.60	1.03	-0.39	-0.07		
02/27/10 06:34	21.57	3058.30	285.35	765.80	26.66	7557.00	336.87			0.60	1.03	-0.39	-0.07		
02/27/10 06:35	21.58	2963.50	304.20	1309.10		7084.00	319.88			0.35		-0.38	-0.02		
02/27/10 06:35	21.58	2963.50	304.20	1309.10		7084.00	319.88			0.35		-0.38	-0.02		
02/27/10 06:36	21.60	2834.30	261.77			7589.00	332.00					-0.43	-0.10		
02/27/10 06:36	21.60	2834.30	261.77			7589.00	332.00					-0.43	-0.10		
02/27/10 06:37	21.62	3353.20	325.37	797.20	26.22	7589.00	332.00			0.62	1.09	-0.35	-0.01		
02/27/10 06:38	21.63	4004.10	607.29	816.70	26.58					0.69	1.36				
02/27/10 06:38	21.63	4004.10	607.29	816.70	26.58					0.69	1.36				
02/27/10 06:39	21.65	4126.40	527.50	816.70	26.58					0.70	1.30				
02/27/10 06:40	21.67	4130.30	546.36	816.20	28.03	7043.00	293.64			0.70	1.29	-0.23	0.27		
02/27/10 06:41	21.68	3887.30	406.28	824.90	26.55	7504.00	324.37			0.67	1.18	-0.29	0.10		
02/27/10 06:42	21.70	3469.80	365.08	796.20	28.13	7080.00	295.17			0.64	1.11	-0.31	0.09		
02/27/10 06:43	21.72	3330.70	343.78	787.20	25.17	7507.00	335.37			0.63	1.14	-0.35	0.01		
02/27/10 06:44	21.73	3102.20	313.78	820.10	25.71	7075.00	310.47			0.58	1.09	-0.36	0.00		
02/27/10 06:44	21.73	3102.20	313.78	820.10	25.71	7075.00	310.47			0.58	1.09	-0.36	0.00		
02/27/10 06:45	21.75	3118.30	291.57	820.10	25.71	7075.00	310.47			0.58	1.05	-0.36	-0.03		
02/27/10 06:46	21.77	3194.90	303.47	805.80	24.13	6675.00	292.22			0.60	1.10	-0.32	0.02		
02/27/10 06:47	21.78	3350.30	309.92	826.20	28.45	7515.00	343.37			0.61	1.04	-0.35	-0.04		
02/27/10 06:48	21.80	3651.00	362.11	881.10	29.10	7080.00	322.82			0.62	1.09	-0.29	0.05		
02/27/10 06:49	21.82	3132.00	311.04	869.50	30.96	7091.00	331.64			0.56	1.00	-0.35	-0.03		
02/27/10 06:50	21.83	3048.30	297.68	863.20	30.91	7049.00	342.94			0.55	0.98	-0.36	-0.06		
02/27/10 06:51	21.85	3520.20	330.68			7508.00	362.75					-0.33	-0.04		
02/27/10 06:51	21.85	3520.20	330.68			7508.00	362.75					-0.33	-0.04		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/27/10 06:52	21.87	2949.70	269.23	872.00	28.64	7508.00	362.75			0.53	0.97	-0.41	-0.13		
02/27/10 06:53	21.88	3332.20	317.35	902.20	30.57	6929.00	339.76			0.57	1.02	-0.32	-0.03		
02/27/10 06:54	21.90	3722.50	324.54	884.00	30.89	7101.00	349.88			0.62	1.02	-0.28	-0.03		
02/27/10 06:55	21.92	3487.90	320.34	931.30	32.22	7533.00	351.25			0.57	1.00	-0.33	-0.04		
02/27/10 06:55	21.92	3487.90	320.34	931.30	32.22	7533.00	351.25			0.57	1.00	-0.33	-0.04		
02/27/10 06:56	21.93	2829.80	274.70	931.30	32.22	7533.00	351.25			0.48	0.93	-0.43	-0.11		
02/27/10 06:57	21.95	3924.80	337.05	919.40	28.15	7048.00	329.64			0.63	1.08	-0.25	0.01		
02/27/10 06:58	21.97	4029.20	341.58	922.50	33.08	7510.00	344.00			0.64	1.01	-0.27	0.00		
02/27/10 06:59	21.98	3076.80	311.09	951.50	33.58	7047.00	320.94			0.51	0.97	-0.36	-0.01		
02/27/10 07:00	22.00	3119.10	280.30	910.60	30.43	7489.00	330.12			0.53	0.96	-0.38	-0.07		
02/27/10 07:00	22.00	3119.10	280.30	910.60	30.43	7489.00	330.12			0.53	0.96	-0.38	-0.07		
02/27/10 07:01	22.02	3313.70	308.97			7511.00	339.87					-0.36	-0.04		
02/27/10 07:01	22.02	3313.70	308.97			7511.00	339.87					-0.36	-0.04		
02/27/10 07:02	22.03	3035.30	307.44			7511.00	339.87					-0.39	-0.04		
02/27/10 07:03	22.05	3634.80	291.54	881.20	29.86	7081.00	317.29			0.62	0.99	-0.29	-0.04		
02/27/10 07:04	22.07	3737.60	351.35	901.70	30.13	7093.00	321.76			0.62	1.07	-0.28	0.04		
02/27/10 07:05	22.08	3572.10	363.19	923.50	33.43	7086.00	334.82			0.59	1.04	-0.30	0.04		
02/27/10 07:05	22.08	3572.10	363.19	923.50	33.43	7086.00	334.82			0.59	1.04	-0.30	0.04		
02/27/10 07:06	22.10	3945.70	407.93	923.50	33.43	7086.00	334.82			0.63	1.09	-0.25	0.09		
02/27/10 07:07	22.12	3017.90	270.91	941.20	31.36	7505.00	347.12			0.51	0.94	-0.40	-0.11		
02/27/10 07:08	22.13	3359.00	319.91	941.20	32.26	7599.00	355.50			0.55	1.00	-0.35	-0.05		
02/27/10 07:09	22.15	3219.60	304.57	941.90	34.03	7568.00	337.25			0.53	0.95	-0.37	-0.04		
02/27/10 07:09	22.15	3219.60	304.57	941.90	34.03	7568.00	337.25			0.53	0.95	-0.37	-0.04		
02/27/10 07:10	22.17	3266.50	365.45	941.90	34.03	7568.00	337.25			0.54	1.03	-0.36	0.03		
02/27/10 07:11	22.18	3677.10	387.13	971.40	32.01	7660.00	341.37			0.58	1.08	-0.32	0.05		
02/27/10 07:12	22.20	3173.30	278.75	945.00	30.51	10206.00	449.16			0.53	0.96	-0.51	-0.21		
02/27/10 07:13	22.22	2660.00	278.99	997.30	28.43	10927.00	464.46			0.43	0.99	-0.61	-0.22		
02/27/10 07:14	22.23	3343.20	323.72	962.20	31.08	7640.00	346.25			0.54	1.02	-0.36	-0.03		
02/27/10 07:14	22.23	3343.20	323.72	962.20	31.08	7640.00	346.25			0.54	1.02	-0.36	-0.03		
02/27/10 07:15	22.25	3504.10	326.90	962.20	31.08	7640.00	346.25			0.56	1.02	-0.34	-0.02		
02/27/10 07:16	22.27	3239.90	297.28	947.40	30.19	10184.00	436.00			0.53	0.99	-0.50	-0.17		
02/27/10 07:17	22.28	3147.80	291.33	946.10	30.96	7510.00	340.37			0.52	0.97	-0.38	-0.07		
02/27/10 07:17	22.28	3147.80	291.33	946.10	30.96	7510.00	340.37			0.52	0.97	-0.38	-0.07		
02/27/10 07:18	22.30	3173.70	325.21			7510.00	340.37					-0.37	-0.02		
02/27/10 07:19	22.32	3164.00	279.15	942.40	30.81	7062.00	314.58			0.53	0.96	-0.35	-0.05		
02/27/10 07:20	22.33	3302.40	284.35	962.60	30.59	7075.00	312.58			0.54	0.97	-0.33	-0.04		
02/27/10 07:20	22.33	3302.40	284.35	962.60	30.59	7075.00	312.58			0.54	0.97	-0.33	-0.04		
02/27/10 07:21	22.35	3261.10	291.17	995.50	29.31					0.52	1.00				
02/27/10 07:21	22.35	3261.10	291.17	995.50	29.31					0.52	1.00				
02/27/10 07:22	22.37	2842.70	270.66	969.90	33.12	6696.00	302.11			0.47	0.91	-0.37	-0.05		
02/27/10 07:22	22.37	2842.70	270.66	969.90	33.12	6696.00	302.11			0.47	0.91	-0.37	-0.05		
02/27/10 07:23	22.38	3323.20	304.62	969.90	33.12	6696.00	302.11			0.53	0.96	-0.30	0.00		
02/27/10 07:24	22.40	3802.70	356.39	965.90	29.39	7524.00	332.12			0.60	1.08	-0.30	0.03		
02/27/10 07:25	22.42	3868.90	313.27	988.70	31.75	7113.00	321.41			0.59	0.99	-0.26	-0.01		
02/27/10 07:25	22.42	3868.90	313.27	988.70	31.75	7113.00	321.41			0.59	0.99	-0.26	-0.01		
02/27/10 07:26	22.43	3073.20	274.36	988.70	31.75	7113.00	321.41			0.49	0.94	-0.36	-0.07		
02/27/10 07:27	22.45	2879.50	264.93	958.50	33.08	7549.00	336.50			0.48	0.90	-0.42	-0.10		
02/27/10 07:28	22.47	3323.80	291.80	975.90	31.25	7087.00	315.88			0.53	0.97	-0.33	-0.03		
02/27/10 07:29	22.48	3570.80	319.57	968.00	28.11	7102.00	309.17			0.57	1.06	-0.30	0.01		
02/27/10 07:30	22.50	2805.00	279.40	956.90	31.66	7097.00	307.88			0.47	0.95	-0.40	-0.04		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/27/10 07:31	22.52	2805.00	279.40	1002.40	33.60	7549.00	330.12			0.45	0.92	-0.43	-0.07		
02/27/10 07:32	22.53	2929.10	285.48	999.10	29.68	7617.00	333.00			0.47	0.98	-0.42	-0.07		
02/27/10 07:33	22.55	3535.60	323.66	1004.30	33.85	7598.00	331.37			0.55	0.98	-0.33	-0.01		
02/27/10 07:34	22.57	2723.30	253.19	1014.60	30.42	7602.00	340.12			0.43	0.92	-0.45	-0.13		
02/27/10 07:35	22.58	3334.40	295.93	1040.40	31.56	7101.00	318.58			0.51	0.97	-0.33	-0.03		
02/27/10 07:36	22.60			1010.70	30.56	10083.00	456.00								
02/27/10 07:37	22.62	3140.80	291.31			7533.00	346.50					-0.38	-0.08		
02/27/10 07:37	22.62	3140.80	291.31			7533.00	346.50					-0.38	-0.08		
02/27/10 07:38	22.63	3140.80	291.31	1002.00	32.70	7533.00	346.50			0.50	0.95	-0.38	-0.08		
02/27/10 07:39	22.65	3099.40	272.47	1003.60	32.26	7545.00	335.50			0.49	0.93	-0.39	-0.09		
02/27/10 07:39	22.65	3099.40	272.47	1003.60	32.26	7545.00	335.50			0.49	0.93	-0.39	-0.09		
02/27/10 07:40	22.67	2981.90	334.65	1003.60	32.26	7497.00	334.00			0.47	1.02	-0.40	0.00		
02/27/10 07:40	22.67	2981.90	334.65	1003.60	32.26	7497.00	334.00			0.47	1.02	-0.40	0.00		
02/27/10 07:41	22.68	3659.70	320.08	988.40	31.91	7497.00	334.00			0.57	1.00	-0.31	-0.02		
02/27/10 07:42	22.70	2911.10	282.40	1029.50	33.08	7454.00	321.50			0.45	0.93	-0.41	-0.06		
02/27/10 07:42	22.70	2911.10	282.40	1029.50	33.08	7454.00	321.50			0.45	0.93	-0.41	-0.06		
02/27/10 07:43	22.72	2911.10	282.40	1029.10	34.10	10070.00	421.16			0.45	0.92	-0.54	-0.17		
02/27/10 07:44	22.73	2575.40	252.02	1039.80	30.82	7499.00	326.87			0.39	0.91	-0.46	-0.11		
02/27/10 07:44	22.73	2575.40	252.02	1039.80	30.82	7499.00	326.87			0.39	0.91	-0.46	-0.11		
02/27/10 07:45	22.75			1039.80	30.82	7499.00	326.87								
02/27/10 07:46	22.77	2808.30	246.78	1039.80	30.82	7504.00	312.37			0.43	0.90	-0.43	-0.10		
02/27/10 07:47	22.78	2897.40	248.39	1056.60	32.36	7652.00	328.62			0.44	0.89	-0.42	-0.12		
02/27/10 07:48	22.80	3320.80	309.75	1082.60	31.54	10021.00	452.16			0.49	0.99	-0.48	-0.16		
02/27/10 07:49	22.82	2835.90	258.65	1089.90	35.62	7523.00	335.75			0.42	0.86	-0.42	-0.11		
02/27/10 07:50	22.83	3440.20	295.68	1094.10	32.48	7534.00	333.25			0.50	0.96	-0.34	-0.05		
02/27/10 07:51	22.85	3436.90	293.67	1097.00	31.05	7471.00	329.00			0.50	0.98	-0.34	-0.05		
02/27/10 07:52	22.87	3465.30	330.03	1101.40	34.02	7584.00	320.75			0.50	0.99	-0.34	0.01		
02/27/10 07:52	22.87	3465.30	330.03	1101.40	34.02	7584.00	320.75			0.50	0.99	-0.34	0.01		
02/27/10 07:53	22.88	3230.20	319.51	1089.40	33.14	7584.00	320.75			0.47	0.98	-0.37	0.00		
02/27/10 07:54	22.90	2977.80	284.57	1089.40	33.14	7584.00	320.75			0.44	0.93	-0.41	-0.05		
02/27/10 07:55	22.92	3412.80	310.32	1083.60	31.38	7038.00	304.47			0.50	1.00	-0.31	0.01		
02/27/10 07:56	22.93	3203.60	301.79	1059.00	33.33	7046.00	311.64			0.48	0.96	-0.34	-0.01		
02/27/10 07:57	22.95	3224.80	303.25	1067.40	32.94	7503.00	326.87			0.48	0.96	-0.37	-0.03		
02/27/10 07:57	22.95	3224.80	303.25	1067.40	32.94	7503.00	326.87			0.48	0.96	-0.37	-0.03		
02/27/10 07:58	22.97	3224.80	303.25	1060.20	30.77	7547.00	320.12			0.48	0.99	-0.37	-0.02		
02/27/10 07:59	22.98	3263.00	273.50	1060.20	30.77	7547.00	320.12			0.49	0.95	-0.36	-0.07		
02/27/10 08:00	23.00	3149.00	293.46	1081.80	34.29	7515.00	334.00			0.46	0.93	-0.38	-0.06		
02/27/10 08:01	23.02	3650.10	288.75	1087.70	35.61	7046.00	302.35			0.53	0.91	-0.29	-0.02		
02/27/10 08:02	23.03	3365.10	303.50	1102.20	34.25	7570.00	317.75			0.48	0.95	-0.35	-0.02		
02/27/10 08:02	23.03	3365.10	303.50	1102.20	34.25	7570.00	317.75			0.48	0.95	-0.35	-0.02		
02/27/10 08:03	23.05	3417.70	305.31	1102.20	34.25	10132.00	473.16			0.49	0.95	-0.47	-0.19		
02/27/10 08:03	23.05	3417.70	305.31	1102.20	34.25	10132.00	473.16			0.49	0.95	-0.47	-0.19		
02/27/10 08:04	23.07	3525.60	294.84	1091.90	34.48	10132.00	473.16			0.51	0.93	-0.46	-0.21		
02/27/10 08:05	23.08	3416.20	293.30			10132.00	473.16					-0.47	-0.21		
02/27/10 08:06	23.10	3089.00	281.92	1113.20	35.08	7516.00	349.62			0.44	0.91	-0.39	-0.09		
02/27/10 08:07	23.12	3146.80	268.06	1118.50	34.77	7478.00	356.50			0.45	0.89	-0.38	-0.12		
02/27/10 08:08	23.13	3397.80	296.00	1101.50	33.85	10116.00	449.33			0.49	0.94	-0.47	-0.18		
02/27/10 08:09	23.15	3399.80	335.08	1113.10	35.19	10154.00	471.50			0.48	0.98	-0.48	-0.15		
02/27/10 08:09	23.15	3399.80	335.08	1113.10	35.19	10154.00	471.50			0.48	0.98	-0.48	-0.15		
02/27/10 08:10	23.17	2690.70	246.79	1113.10	35.19	10154.00	471.50			0.38	0.85	-0.58	-0.28		

Hopedale MA Pilot Study
Particle Counting Data

Date and Time	Filter Runtime (hours)	Influent (2-5µm)	Influent (5-9µm)	Filter A (2-5µm)	Filter A (5-9µm)	Filter B (2-5µm)	Filter B (5-9µm)	Filter D (2-5µm)	Filter D (5-9µm)	LRV Filter A, 3-5 µm	LRV Filter A, 5-9 µm	LRV Filter B, 3-5 µm	LRV Filter B, 5-9 µm	LRV Filter D, 3-5 µm	LRV Filter D 5-9 µm
02/27/10 08:11	23.18	3995.30	318.94	1126.80	33.78	10231.00	455.00			0.55	0.98	-0.41	-0.15		
02/27/10 08:11	23.18	3995.30	318.94	1126.80	33.78	10231.00	455.00			0.55	0.98	-0.41	-0.15		
02/27/10 08:12	23.20	3404.80	316.93	1126.80	33.78	10231.00	455.00			0.48	0.97	-0.48	-0.16		
02/27/10 08:13	23.22	3209.20	281.81	1134.30	34.75	7651.00	347.12			0.45	0.91	-0.38	-0.09		
02/27/10 08:13	23.22	3209.20	281.81	1134.30	34.75	7651.00	347.12			0.45	0.91	-0.38	-0.09		
02/27/10 08:14	23.23	3675.30	299.02	1125.50	33.88	7651.00	347.12			0.51	0.95	-0.32	-0.06		
02/27/10 08:15	23.25	3487.40	321.29	1125.50	33.88	7651.00	347.12			0.49	0.98	-0.34	-0.03		
02/27/10 08:16	23.27	2905.30	301.46	1136.70	33.42	10262.00	437.16			0.41	0.96	-0.55	-0.16		
02/27/10 08:17	23.28	2495.70	220.61	1152.60	37.41	10996.00	486.25			0.34	0.77	-0.64	-0.34		
02/27/10 08:18	23.30	3099.90	294.38	1138.30	34.71	10172.00	460.66			0.44	0.93	-0.52	-0.19		
02/27/10 08:19	23.32	2909.30	273.43	1175.30	36.68	10292.00	441.66			0.39	0.87	-0.55	-0.21		
02/27/10 08:19	23.32	2909.30	273.43	1175.30	36.68	10292.00	441.66			0.39	0.87	-0.55	-0.21		
02/27/10 08:20	23.33	2909.30	273.43	1152.40	35.67	11053.00	465.89			0.40	0.88	-0.58	-0.23		
02/27/10 08:21	23.35	3836.50	429.60	1152.40	35.67	11053.00	465.89			0.52	1.08	-0.46	-0.04		
02/27/10 08:22	23.37	3189.30	305.17	1193.80	38.02	10295.00	452.00			0.43	0.90	-0.51	-0.17		
02/27/10 08:22	23.37	3189.30	305.17	1193.80	38.02	10295.00	452.00			0.43	0.90	-0.51	-0.17		
02/27/10 08:23	23.38	3189.30	305.17	1178.80	35.41	10280.00	416.50			0.43	0.94	-0.51	-0.14		
02/27/10 08:24	23.40	2818.90	260.64	1178.80	35.41	10280.00	416.50			0.38	0.87	-0.56	-0.20		
02/27/10 08:25	23.42	2949.70	248.87	1133.90	34.28	7168.00	318.23			0.42	0.86	-0.39	-0.11		
02/27/10 08:26	23.43	2553.80	250.41	1113.70	35.72	7603.00	342.37			0.36	0.85	-0.47	-0.14		
02/27/10 08:27	23.45	2438.60	235.84	1125.70	34.06	7613.00	324.87			0.34	0.84	-0.49	-0.14		
02/27/10 08:28	23.47	3631.30	340.77	1156.10	34.59	10152.00	444.16			0.50	0.99	-0.45	-0.12		
02/27/10 08:29	23.48	3193.90	317.68			10284.00	452.16					-0.51	-0.15		
02/27/10 08:29	23.48	3193.90	317.68			10284.00	452.16					-0.51	-0.15		
02/27/10 08:30	23.50	3057.00	286.24			10284.00	452.16					-0.53	-0.20		
02/27/10 08:31	23.52	3583.60	348.87	1163.90	35.39	7673.00	349.25			0.49	0.99	-0.33	0.00		
02/27/10 08:32	23.53	3379.90	355.74	1167.80	32.85	7699.00	342.62			0.46	1.03	-0.36	0.02		
02/27/10 08:33	23.55	2828.80	260.95												
02/27/10 08:33	23.55	2828.80	260.95												
02/27/10 08:34	23.57	3006.70	297.26	1167.40	38.45	7630.00	338.87			0.41	0.89	-0.40	-0.06		
02/27/10 08:35	23.58	3309.10	327.46	1167.40	38.45	7630.00	338.87			0.45	0.93	-0.36	-0.01		
02/27/10 08:36	23.60	3184.10	322.74	1185.10	35.98	7645.00	328.62			0.43	0.95	-0.38	-0.01		
02/27/10 08:37	23.62	3377.90	316.34	1207.10	34.93	10205.00	444.00			0.45	0.96	-0.48	-0.15		
02/27/10 08:38	23.63			1175.30	38.61	10186.00	454.66								
02/27/10 08:38	23.63			1175.30	38.61	10186.00	454.66								
02/27/10 08:39	23.65	3019.00	276.92	1175.30	38.61	7642.00	344.50			0.41	0.86	-0.40	-0.09		
02/27/10 08:40	23.67	3431.70	339.73	1176.50	36.10	7642.00	344.50			0.46	0.97	-0.35	-0.01		
02/27/10 08:41	23.68	2516.20	258.51	1200.30	35.54	7640.00	352.25			0.32	0.86	-0.48	-0.13		
02/27/10 08:42	23.70	3603.60	308.83	1198.80	34.82	7582.00	340.62			0.48	0.95	-0.32	-0.04		
02/27/10 08:43	23.72	3153.60	313.43	1190.50	32.79	7631.00	333.00			0.42	0.98	-0.38	-0.03		
02/27/10 08:44	23.73	3378.90	283.89			10323.00	478.33					-0.49	-0.23		
02/27/10 08:44	23.73	3378.90	283.89			10323.00	478.33					-0.49	-0.23		
02/27/10 08:45	23.75	3267.90	284.66	1256.20	39.42	7570.00	345.25			0.42	0.86	-0.36	-0.08		
02/27/10 08:45	23.75	3267.90	284.66	1256.20	39.42	7570.00	345.25			0.42	0.86	-0.36	-0.08		
02/27/10 08:46	23.77	2638.40	241.49	1256.20	39.42	7570.00	345.25			0.32	0.79	-0.46	-0.16		
02/27/10 08:47	23.78	3516.20	284.33	1241.90	35.72	10179.00	453.83			0.45	0.90	-0.46	-0.20		
02/27/10 08:48	23.80	3577.80	313.17	1293.90	38.06	10944.00	483.92			0.44	0.92	-0.49	-0.19		
02/27/10 08:48	23.80	3577.80	313.17	1293.90	38.06	10944.00	483.92			0.44	0.92	-0.49	-0.19		
02/27/10 08:49	23.82	3018.80	290.55	1293.90	38.06	10944.00	483.92			0.37	0.88	-0.56	-0.22		
02/27/10 08:50	23.83	2791.80	266.53	1559.70	46.02	7473.00	349.62			0.25	0.76	-0.43	-0.12		

