

**Northeast Merrimack Valley Chemical Consortium
Chemical Quantities & Specifications**

Chemical	Est. Annual Use	Unit	Quantity Delivered	Chemical Specs & Notes
ALUMINUM CHLOROHYDRATE (ACH)				
ROWLEY WATER	2,000	GAL	1,000 BULK	FILL 4 TOTES ON SITE
ALUMINUM SULFATE (ALUM) 50% SOL			BULK DELIVERY	ANSI/NSF 60 Certified for all bids and additional requirements as noted
ANDOVER W.T.P.	117,000	GAL	4,500 GALS.	
AYER W.W.T.P.	25,000	GAL	5,000 GALS.	
BILLERICA W.T.P.	150,000	GAL	5,000 GALS.	Liquid Alum Must be manufactured from unrefined Bauxite Ore and Sulfuric Acid
BILLERICA W.W.T.P.	80,000	GAL	3,000 GALS.	Liquid Alum Must be manufactured from unrefined Bauxite Ore and Sulfuric Acid
CHELMSFORD WATER DISTRICT	1,000	GAL	500 GALS.	
ESSEX W.T.P.	10,000	GAL	1,500 GALS	
HUDSON WATER SUPPLY	1,000	GAL	1000 GALS.	Liquid Alum Must be manufactured from unrefined Bauxite Ore and Sulfuric Acid
LAWRENCE	109,500	GAL	5,000 GALS.	
LYNN W.T.P.	180,000	GAL	2,000 - 5,000 GALS.	Liquid Alum Must be manufactured from unrefined Bauxite Ore and Sulfuric Acid
MANCHESTER BY THE SEA	4,000	GAL	1,000 GALS.	
METHUEN W.T.P.	75,000	GAL	3,000 GALS.	Liquid Alum Must be manufactured from unrefined Bauxite Ore and Sulfuric Acid
NEWBURYPORT W.T.P.	50,000	GAL	3,000 GALS.	Liquid Alum Must be manufactured from unrefined Bauxite Ore and Sulfuric Acid
PEABODY W.T.P.	56,000	GAL	3,000 GALS.	Liquid Alum Must be manufactured from unrefined Bauxite Ore and Sulfuric Acid
SALEM, NH W.T.P	18,000	GAL	2,000 GALS	
TEWKSBURY W.T.P.	44,000	GAL	4,000 GALS.	Liquid Alum Must be manufactured from unrefined Bauxite Ore and Sulfuric Acid
WILMINGTON W.T.P.	85,000	GAL	4,000 GALS.	Liquid Alum Must be manufactured from unrefined Bauxite Ore and Sulfuric Acid
WINCHESTER W.T.P.	6,500	GAL	1,500 GALS.	Liquid Alum Must be manufactured from unrefined Bauxite Ore and Sulfuric Acid
WORCESTER W.T.P.	50,000	GAL	5,000 GALS	Informational Purposes Only
AMMONIA GAS				
BURLINGTON W.T.P.	4,800	LB	2/ 150 LB. CYL.	Lift-Gate Required
AMMONIUM SULFATE (40% SOLUTION)				
PEABODY W.T.P.	8,600	GAL	1,100 GALS	Split Delivery - 2 sites
AMMONIUM SULFATE				COYNE CHEMICAL EXCLUDED DUE TO PRODUCT QUALITY
ASHLAND W.T.P.	160-200 BAGS	BAG	40/ 50 LB. BAGS	Water treatment grade AWWA B-302-95; no flow aid
CONCORD, NH Water	27,432	LB	4 -40/ 50LB BAG PALLETS	AWWA, NSF/ANSI 60
SALEM, NH W.T.P	2,000	LB	40/50 LB BAGS	Delivery truck needs gate
WILMINGTON W.T.P.	16,000	LB	2,000 - 2,500 LB/ 50 LB BAGS	Special Instructions: Pallets must be 36" x 48" or smaller in size.
ANTHRICITE				
GEORGETOWN	600	CU.FT	PALLET OF 60 LBS± BAGS	0.60-80 mm size, Uniform Coefficient of 1.65 max
AQUEOUS AMMONIA 29%				
BILLERICA W.T.P.	4,200	GAL	1,000 GALS.	29° Baumé
ASCORBIC ACID				
	no current users			

CALCIQUEST ORTHO (Phosphoric Acid)				
LINCOLN WATER DEPT	240	GAL	2/30 GAL. DRUMS	
MERRIMAC WATER DEPT.	600	GAL	9/15 GAL. DRUMS	
CALCIUM CHLORIDE				
BURLINGTON W.T.P.	5	TON	1 PALLET - 50 LGS BAGS (1 TON)	Flake - Form, 50 lb. bags
BURLINGTON W.T.P.	45	TON	8 TO 14 SUPER SACKS	Flake - Form, Super Sacks
CANOBIE LAKE PARK	3	TON	1 PALLET-50 LBS BAGS	Flake - Form, 50 lb. bags
CALCIUM HYPOCHLORITE				
DOVER NH WATER & WASTEWATER	13,000 (pool)	LBS	1 PALLET/55 lbs PAILS	Blue SI tablets w/o stablizer/or acid
DOVER NH WATER & WASTEWATER	10,000 (Lowell Ave)	LBS	55 LBS PAILS	Accu-Tab SI (Axiall LLC) NSF 60
DRACUT WATER DEPT.	1,100	LBS	12/50 LBS BAGS	AWWA AND NSF 60 STANDARDS
RAYMOND NH WATER DEPT.	2,500	LBS	6-8 55 lb. PAILS	Accu-Tab SI (Fillion Associates)
CALCIUM NITRATE				
BURLINGTON W.T.P.	24	TON	1 TON (4-6 Pallets)	Greenhouse Grade, Lift-Gate Required
CARBON DIOXIDE				
CANOBIE LAKE PARK	16,000	LBS	15-50 LBS BOTTLES	TWICE A WEEK DELIVERY
CONCORD, NH Water	112,716	LBS	18,000 - 20,000 LB	AWWA, NSF/ANSI 60
SALEM, NH W.T.P	40	TONS	10 TONS	
CARBON (POWDERED)				
ANDOVER W.T.P.	25	TON	10 TONS	Min. Iodine #800
KEENE N.H.	10	TON	1,000 LB. SUPER SACK	Typcially 3 sacks at a time
CAUSTIC SODA (NaOH) 25% SOL				
ANDOVER W.T.P.	140,000	GAL	5,000 GALS.	BID FORM IN WET LBS.
CONCORD, NH WATER & WASTEWATER	71,660 (water) 8,300 (wastewater) 80,070 (total)	GAL	1000 GAL MIN usually 4,000 GAL	SPLIT DELIVERIES, 3,000 water, 1,000 wastewater AWWA, NSF/ANSI 60
DANVERS W.T.P.	20,000	GAL	4,000 GALS.	
DOVER N.H. WATER & WASTEWATER.	49,000	GAL	3,000 GALS	SPLIT DELIVERIES AWWA, NSF/ANSI 60
GROVELAND WATER/SEWER DEPT.	3,300	GAL	4/55 Gal.Barrels	Power Lift Gate
	10,000	GAL	2,500 GAL BULK	
HOLLISTON WATER DEPT.	27,000	GAL	800 GAL Min.	
IPWSICH W.T.P.	12,000	GAL	2,000	AWWA B501- latest edition
KEENE W.T.F.	5,100	GAL	3,500 GALS.	AWWA/NSF 60
KEENE W.W.T.P	100,000	GAL	2,750 GALS.	275 GALLON TOTES, UP TO 10 PER WEEK
LAWRENCE	100,000	GAL	4,000	
LINCOLN WATER DEPT	4,800	GAL	1,000 GALS.	
LOWELL W.T.P.	120,000	GAL	5,000 GALS.	
LOWELL REGIONAL WASTE WATER UTILITY	7,000	GAL	330 GAL TOTES	
LUNENBURG WATER DISTRICT	15,000	GAL	900 - 1,400 GALS.	
LYNN W.T.P.	180,000	GAL	2,000 - 5,000 GALS.	
MANCHESTER BY THE SEA	15,000	GAL	2,500 GAL	2 LOCATIONS
MILLIS WATER DEPT.	10,000	GAL	1,000 GALS.	
NASHUA W.W.T.P.	5,000	GAL	1,000-1,200 GALS	
NEWBURYPORT W.T.P.	50,000	GAL	3,000 GALS.	SPLIT DELIVERY - TWO LOCATIONS
NORTH ANDOVER W.T.P.	24,000	GAL	4,000 GALS.	
PEABODY W.T.P.	68,000	GAL	2,500-3,000 GALS.	
RAYMOND NH WATER DEPT.	6,000	GAL	800-1,200 GALS.	
ROWLEY WATER	10,000	GAL	600-1,000 GAL /stop	Could be 2 stop delivery
SALEM ,NH W.T.P	30,000	GAL	2,000 GALS	
TEWKSBURY W.T.P.	40,000	GAL	4,000 GALS.	

TOWNSEND WATER DEPT.	20,000	GAL	3,000 - 4,500 GALS.	4-5 Multiple Stops
WEST GROTON WSD	1,000	GAL	1,000 GALS.	
WINCHESTER W.T.P.	13,000	GAL	1,500 GALS.	
CAUSTIC SODA (NaOH) 50% SOL				BID FORM IN WET LBS.
ASHLAND W.T.P.	25,000	GAL	1,000 GALS.	AWWA B501- latest edition
BILLERICA W.W.T.P.	65,000	GAL	3,000 GALS. BULK	
BILLERICA W.T.P.	70,000	GAL	5,000 GALS.	
HUDSON WASTEWATER DIVISION	155,000	GAL	4,000-5,000 BULK	AWWA B501- latest edition
KEENE N.H. W.T.F.	6,600	GAL	1,800 GALS	AWWA/NSF 60
LUNENBURG WATER DISTRICT	15,000	GAL	900 - 2,500 GALS	
METHUEN W.T.P.	45,000	GAL	3,000 - 4,600 GALS.	
SUDBURY WATER DISTRICT	40,000	GAL	5,000 GALS.	
TOWNSEND WATER DEPT.	21,000	GAL	2,500 - 3,500 GALS.	
WEBSTER WATER DEPT.	35,000	GAL	1,000 GALS.	AWWA B501- latest edition
WOBBURN W.T.P.	50,000	GAL	6,000 GALS.	
CHLORINE - DRY (H.T.H.)				
GROVELAND WATER/SEWER DEPT.	200	LB	3-4/ 50 LBS. PAILS	65%
PEABODY W.T.P.	100	LB	2/50 LBS. PAILS	
CHLORINE (1 TON CYL.)				
LYNN W.T.P.	36	TON	12 TONS	
WORCESTER W.T.P.	90	TON	9 TONS	For Informational Purposes Only
CHLORINE (150 LB CYL.)				
ASHLAND W.T.P.	16,000	LB	9/150 LB CYL.	
AYER W.W.T.P.	100	LB	100 LB.	
ESSEX W.T.P.	600	LB	4/ 150 LB. CYL.	
FITCHBURG WATER DEPT.	30,000	LB	10-12/ 150 LB. CYL.	AWWA B301- latest edition
GRAFTON WATER DISTRICT	8,500	LB	4-5/ 150 LB. CYL.	AWWA B301- latest edition
LINCOLN WATER DEPT	3,600	LB	4/ 150 LB.CYL.	AWWA B301- latest edition
NORTH CHELMSFORD WATER DISTRICT	3,300	LB	4/150 LB. CYL.	
PEABODY W.T.P.	15,000	LB	10/ 150 LB. CYL.	
SUDBURY WATER DISTRICT	4,500	LB	12/ 150 LB.CYL.	AWWA B301- latest edition
WILMINGTON W.T.P.	23,000	LB	4-8/ 150 LB. CYL.	
CITRIC ACID 50%				
ACTON WATER DISTRICT	2,500	GAL	4/55 Gal Drums	2 stops
NORTH CHELMSFORD WATER DISTRICT	2,100	GAL	4/250GAL Totes	Free Flowing, Food Grade
	1,200	DRY LBS	24/50 LBS. pallet	Tote must be removed - next delivery
CHELMSFORD WATER DISTRICT	550	GAL	1-2/55 gallon drums	
LINCOLN WATER DEPT	150	GAL	55 GAL Drums	
LITTLETON WATER DEPARTMENT	2,000	DRY LBS.	24/50 LBS. pallet	free flowing USP Anhydrous
LOWELL REGIONAL WASTE WATER UTILITY	330	GAL	3/55 Gal. Drums	
ROWLEY WATER	5,000	DRY LBS	50 lbs. bags/pails 1-2 pallets	free flowing food grade
COPPER SULFATE				
DANVERS W.T.P.	4,000	LB	2,000 LBS.	½" - 1" large chrystals
NORTH ANDOVER W.T.P.	5,000	LB	5,000 LBS.	50 lb. bags: # 30 mesh
PEABODY W.T.P.	2,000	LB	2,000 LBS.	
WOBBURN W.T.P.	3,000	LB	1,500 LBS.	AWWA B602- latest edition
DIATOMACEOUS EARTH				
<i>currently no users</i>				
FERRIC CHLORIDE				
ASHLAND W.T.P.	1,000	GAL	1,000 GALS.	AWWA B-407 - for emergency only!
GREATER LAWRENCE SANITARY DISTRICT	50,000	GAL	3,500 GALS.	AWWA B-407
NASHUA W.W.T.P.	5,000	GAL	3,000 GALS.	AWWA B-407

NEWBURYPORT W.W.T.P.	30,000	GAL	4,500 GALS	AWWA B-407
HYDROFLUOSILICIC ACID				
ANDOVER W.T.P.	5,000	GAL	2,000 GALS.	AWWA B703- latest edition
BILLERICA W.T.P.	6,000	GAL	1,000 GALS.	24%
BURLINGTON W.T.P.	46,000	LBS.	3,000 GALS.	AWWA B703- latest edition
CONCORD, NH Water	3,355	GAL	1,000 GALS.	AWWA, NSF/ANSI 60
DOVER NH WATER & WASTEWATER	500	GAL	500 GALS	AWWA, NSF/ANSI 60
ESSEX W.T.P.	400	GAL	8/ 55 GAL. DRUMS	AWWA, NSF/ANSI 60
FITCHBURG WATER DEPT.	40,000	LBS.	600 - 1,000 GALS.	AWWA, NSF/ANSI 60
HUDSON WATER SUPPLY	3,000	GAL	1,000 GALS	AWWA, NSF/ANSI 60
IPSWICH W.T.P.	1,750	GAL	6 / 55 GAL DRUMS	AWWA, NSF/ANSI 60
LAWRENCE	10,000	GAL	1,800 GALS.	AWWA, NSF/ANSI 60
LOWELL W.T.P.	14,000	GAL	2,000 GALS.	AWWA, NSF/ANSI 60
LYNN W.T.P.	20,000	GAL	2,000 - 4,000 GALS.	AWWA, NSF/ANSI 60
MANCHESTER BY THE SEA	800	GAL	500 GALS.	AWWA, NSF/ANSI 60
NORTH ANDOVER W.T.P.	4,000	GAL	1,000 GAL. BULK	AWWA, NSF/ANSI 60
TEWKSBURY W.T.P.	3,240	GAL	1 - 270 gallon tote as a pump off	AWWA, NSF/ANSI 60
WINCHESTER W.T.P.	2,750	GAL	10/ 55 GAL. DRUMS	AWWA, NSF/ANSI 60
WOBURN W.T.P.	5,500	GAL	1,000 GALS.	AWWA, NSF/ANSI 60
LIME (HYDRATED)				
WILMINGTON W.T.P.	150	TON	5,000 - 15,000 LB/50 LB BAG	Manufactured by Graymont of Canada
LIQUID OXYGEN				
ASHLAND W.T.P.	35,000	GAL	5,000 GALS. MAX	100% LOC, Total Hydrocarbons < 15 ppm on average
BILLERICA W.T.P.	150,000	GAL	5,000 GALS. MAX	"A or B grade"
DANVERS W.T.P.	50,000	CCF	5,000 MAX	
WORCESTER W.T.P.	100,000	GAL	5,000 MAX	ANSI 60/AWWA STD B304 COMPLANT total hydrocarbons < 15 ppm on ave
LIQUID POLYMER				
KEENE NH W.W.T.P	5,000	GAL	2 - 275 GAL TOTES	BASF Zetag 8848FS or Praestrol K290FLX
LIQUID POLYPHOSPHATE				
BURLINGTON W.T.P.	1,900	LB	500-1,000 GAL BULK	Carus 8500 50/50 or equal
WORCESTER W.T.P.	30,000	GAL	5,000 GAL BULK	Information Purposes Only CARUS 8500 50/50 or equivalent
MANGANESE GREENSAND				
GEORGETOWN WATER DEPT.	1,200	CU FT	PALLET OF 60 LBS BAGS	POWER PALLET JACK
MERRIMAC WATER DEPT.	500	CU FT	PALLET OF 60 LBS BAGS	POWER PALLET JACK
MANGANESE GREENSAND PLUS (alternate bid)				
GEORGETOWN WATER DEPT.	1,200	CU FT	PALLET OF 60 LBS BAGS	POWER PALLET JACK
MERRIMAC WATER DEPT.	500	CU FT	PALLET OF 60 LBS BAGS	POWER PALLET JACK
METHANOL (100%)				
LITTLETON SEWER DEPT.	880	GAL	4-55 GAL DRUMS	
MURIATIC ACID				
CANOBIE LAKE PARK	800	GAL	1 PALLET/4 GAL BOXES	20o Baume
IPSWICH W.T.P.	2500	GAL	1 TOTE (2,600 LBS)	15%
LAWRENCE	9,490	GAL	1,500 GALS.	
LOWELL W.T.P.	14,000	GAL	2,800 GALS.	30%
LINCOLN WATER DEPT	270	GAL	45 GAL CARBOYS- 2 per delivery	20%
METHUEN W.T.P.	6,000	GAL	1,000 - 2000 GALS.	Totes used as a pump off. 2" connection

NASHUA W.W.T.P.	220	GAL	1-55 GAL DRUM	
TEWKSBURY W.T.P.	4,950	GAL	1 -330 gallon tote as a pump off	Totes used as a pump off. 2" connection
WILMINGTON W.T.P.	1,200	GAL	1-2/ 55 GAL. DRUMS	
ORTHO-POLYPHOSPHATE (50/50 blend)				
HAMILTON WATER DEPT.	800	GAL	300 - 400 GALS.	Aqua-mag
IPSWICH W.T.P.	1,400	GAL	400 - 500 GALS.	Aqua-mag H.T. (50/50 blend)
RAYMOND NH WATER DEPT.	2,000	GAL	300-400 GALS.	AQUACROSS HC-2050
ROWLEY WATER DEPT.	120	GAL	4-30 GAL DRUMS	Poly-orthophosphate 50%-50%
SHREWSBURY WATER DEPT.	4,000	GAL	500 GALS.	Poly-orthophosphate 50%-50%
ORTHO-POLYPHOSPHATE (30/70 blend)				
HOOKSETT NH VILLAGE WATER PRECINCT	1,080	GAL	6-30 GAL DRUMS	NSF 60, Calciquest 30/70 Liquid or equal
PHOSPHATE (LIQUID)				
DOVER NH WATER & WASTEWATER	300	GAL	2-30 GAL. DRUMS	Shannon SLI 5255 or Carus 8100 OR EQUAL
PHOSPHORIC ACID 75% SOL				
NEWBURYPORT W.T.P.	3,000	GAL	10/ 15 GAL. DRUMS	"Tech grade"
POLYALUMINUM CHLORIDE				
				See Special Instructions Section for All Bidders
ACTON WATER DISTRICT	6,000	GAL	1,000 GALS	Holland PCH180 or equal - 2" quick connection - 1 stop
BURLINGTON W.T.P.	45,750	GAL	3,000 GALS.	Holland PCH180 or equal.
CONCORD, NH Water	22,440	GAL	1,000 gal/usually 3,100 gal	Holland PCH180 or equal
DANVERS W.T.P.	55,000	GAL	5,000 GALS	Holland PCH182 or equal
FITCHBURG WATER DEPT.	20,000	GAL	1,200 - 2,000 GALS.	Holland PCH180 or equal
HOLLISTON WATER DEPT.	1,000	GAL	1,000 GALS.	Holland PCH180 or equal
IPSWICH W.T.P.	35,000	GAL	2,000 GALS.	Holland PCH180 or equal.
KEENE N.H	126,284	LBS.	1,800 GALS.	Holland PCH180 or equal
LOWELL W.T.P.	160,000	GAL	5,000 GALS.	Holland PCH180 or equal
NORTH ANDOVER W.T.P.	36,000	GAL	4,000 GALS.	Holland PCH180 or equal.
NORTH CHELMSFORD WATER DISTRICT	2,500	GAL	1,000 GALS	Holland PCH180 or equal
PEABODY W.T.P.	27,500	GAL	2,000 GALS.	Holland PCH180 or equal
ROWLEY WATER DEPT. (ALTERNATIVE TO ACH)	1,650	GAL	2-275 GAL TOTES	Holland PC H-180 or equal
WESTFORD WATER DEPT.	3,000	GAL	1,000 GALS.	Holland PCH180 or equal
WINCHESTER W.T.P.	6,500	GAL	1,500 GALS.	Holland PCH180 or equal
POTASSIUM HYDROXIDE 45% SOL				
ACTON WATER DISTRICT	50,000	WET LBS	1,000-1,500 GALS	3 separate stops, 2" quick connect fitting
AYER WATER DEPT.	300,000	WET LBS	1,000 - 2,000 GALS,	
BURLINGTON W.T.P.	267,000	WET LBS	1,000 - 5,000 GALS.	Typcially Split Delivery
CHELMSFORD WATER DEPT.	90,000	WET LBS	500 - 1,000 GALS- BULK	
CONCORD WATER/ SEWER DEPT	600,000	WET LBS	800 - 2,500 GALS- BULK	AWWA B511- 96-latest edition
DRACUT WATER DEPT.	400,000	WET LBS	1,000 - 2,000 GALS BULK	Typical Split Delivery
EAST CHELMSFORD WATER DISTRICT	145,000	WET LBS	1,000 GALS.	
ESSEX W.T.P.	134,000	WET LBS	1,500 GAL	
GEORGETOWN WATER DEPT.	122,000	WET LBS	600-1,400gallon bulk each, one or two stops	3 lenghts, 2" quick connection hoses
GRAFTON WATER DISTRICT	150,000	WET LBS	1,500 - 3,000 GALS.	

GROTON WATER DEPT.	110,000	WET LBS	300 - 1,200 GALS.	
HAMILTON WATER DEPT.	97,000	WET LBS	900 GALS.	
HUDSON WATER SUPPLY	660,000	WET LBS	3,000 - 5,000 GALS.	AWWA B511-96 - latest edition
HOLLISTON WATER DEPT.	415,000	WET LBS	800 GAL. MIN	May be changed to a similar quantity of Caustic Soda. Multiple Stops
LINCOLN WATER DEPT	24,000	WET LBS	800 GALS.	
LITTLETON WATER DEPT.	150,000	WET LBS	1,000-3,000 GALS. Bulk	Split delivery
MAYNARD WATER DEPT.	190,000	WET LBS	1,000 - 2,000 GALS Bulk	Split Delivery
MERRIMAC WATER DEPT.	200,000	WET LBS	1,000 - 2,000 GALS.	Split delivery
NORTH CHELMSFORD WATER DISTRICT	218,800	WET LBS	2,500-3,000 GALS.	AWWA B511-96 - latest edition
NORTH READING WATER DEPT.	219,000	WET LBS	1,000 GALS.	
RIVER CROSSING CONDOMINIUMS	4,270	WET LBS	275-350 GALS.	Delivery once or twice per year
SHIRLEY WATER DISTRICT	100,000	WET LBS	1,000 - 2,000 GALS	2 - 3 STOPS
SHREWSBURY WATER DEPT.	268,400	WET LBS	4-5,000 GALS Bulk	AWWA B511-96 - latest edition
STERLING WATER DEPT.	243,200	WET LBS	12,760 LBS.	
SUDBURY WATER DISTRICT	486,000	WET LBS	5,000 GALS.	AWWA B511-96 - latest edition
WEBSTER WATER DEPT.	154,000	WET LBS	800-1,000 GAL	AWWA B511-96 - latest edition
WELLESLEY WATER & SEWER	425,000	WET LBS	1,000 - 3,5000	AWWA - B511-96- Latest edition
WEST BOYLSTON WATER DISTRICT	97,000	WET LBS	1,000 GALS.	AWWA - B511-96- Latest edition
WEST NEWBURY WATER DEPT.	22,000	WET LBS	6/55 GAL DRUMS	AWWA - B511-96- Latest edition
WESTFORD WATER DEPT.	730,000	WET LBS	2,000 - 4,000 GALS	AWWA BS11-96 - latest edition
POTASSIUM PERMANGANATE			Free Flowing	Note Domestic & Foreign Alternatives
ACTON WATER DISTRICT	6,000	LBS.	1 PALLET/55 LB PAILS	AWWA B 603-88 LATEST EDITION, Cairox Free Flowing, 2 Stops
ASHLAND WATER DEPT.	500	LBS	2 / 55 LB. DRUMS	FOR EMERGENCIES ONLY
BURLINGTON W.T.P.	15,840	LBS	1 PALLET	US Only
AYER WATER DEPT.	17,500	LBS	9.5 PALLET - 36/55 LB PAILS	AWWA B603- latest edition
CHELMSFORD WATER DISTRICT	4,000	LBS	1 PALLET- 36 / 55 LB. PAILS	Cairox free flowing. U.S. manufacturer
DOVER NH WATER & WASTEWATER	550	LBS	1 PALLET/55 LB PAILS	AWWA B603- latest edition
EAST CHELMSFORD WATER DISTRICT	1,100	LBS	10/ 55 LB. DRUMS	AWWA B603- latest edition
ESSEX W.T.P.	7,500	LBS	23/ 330 LB. DRUMS ONLY	AWWA B603- latest edition
GEORGETOWN WATER DEPT.	10,000	LBS	2 PALLETS/ 55 LB DRUM	U.S.free flowing (or equal)- power pallet jack
GRAFTON WATER DISTRICT	4,500	LBS	1 PALLET, 5 LB. PAILS	AWWA B603- latest edition
GREATER LAWRENCE SANITARY DISTRICT	5,000	LBS	330 LB. DRUMS	U.S. manufacturer only
HAMILTON WATER DEPT.	7,920	LBS	55 LB. PAILS	
HOLLISTON WATER DEPT.	3,000	LBS	55 LB DRUMS	U.S. manufacturer only
MANCHESTER BY THE SEA	2,000	LBS	9/ 55 LB. DRUMS	
MAYNARD WATER DEPT.	660	LBS	12/55 LB PAILS	AWWA B603- latest edition
MERRIMAC WATER DEPT.	3,000	LBS	36/ 55 LB. DRUMS	Free Flowing - U.S. manufacturer only
NEWBURYPORT W.W.T.P.	50,000	LBS	2 PALLETS/55 LBS PAILS	Free Flowing - U.S. manufacturer only
NEWBURYPORT W.T.P.	6,000	LBS	2 PALLETS/55 LBS PAILS	Free Flowing - U.S. manufacturer only
NORTH READING WATER DEPT.	6,600	LBS	24/ 55 LB. DRUMS	U.S. manufacturer only
RAYMOND NH WATER DEPT.	1,300	LBS	6-8 55 LBS PAILS	
ROWLEY WATER	1,980	LBS	36/55 LBS DRUMS	U.S. Free Flowing (or Equal)
SUDBURY WATER DISTRICT	2,750	LBS	25/ 55 LB. DRUMS	AWWA B603- latest edition
WEBSTER WATER DEPT.	18,000	LBS	1 PALLET/55 LBS PAILS	AWWA B603-88, Latest edition Cairox Free Flowing
WELLESLEY WATER & SEWER	5,000-10,000	LBS	1,500	AWWA B603- latest edition
WESTFORD WATER DEPT.	6,300	LBS	PALLET/ 55LB. PAILS	Cairox free flowing. Carus Chemicals
WILMINGTON W.T.P.	14,000	LBS	PALLET/55 LB. PAILS	Free Flowing Granular Type, US ONLY

WOBURN PWD	5,500	LBS	4 - 330 LBS. DRUMS	U.S. manufacturer only
SODIUM ALUMINATE 38% SOL				
BILLERICA W.W.T.P	8,000	GAL	3,000 GALS - BULK	AWWA B405- latest edition
LYNN W.T.P.	6,000	GAL	1,500 GALS. - BULK	
PEABODY W.T.P.	5,500	GAL	1,000 GALS. - BULK	AWWA B405- latest edition
SODIUM BICARBONATE				
CANOBIE LAKE PARK	16,000	LBS.	1 PALLET - 50 LBS BAGS	
KEENE N.H	192,000 Water 160,000 Wastewater	LBS.	50 LBS BAGS, 40,000 LBS PER DELIVERY EACH DEPT.	AWWA/NSF 60 for WATER DEPT. ONLY
LITTLETON SEWER DEPT.	7,500	LBS.	50-50 LBS BAGS/PALLET	1 Pallet per delivery
LOWELL REGIONAL WATER UTILITY	375	TON	25 TONS	"Alkalinity First"
SODIUM BISULFITE 38% SOL				
ACTON WATER DISTRICT	330	GAL	2- 55 GAL DRUMS	AWWA LATEST EDITION- 2 stops
AYER W.W.T.P.	100	GAL	100	
BILLERICA W.W.T.P.	9,000	GAL	3,000 GALS.	Bisulfite must be 38-42% conc.
CONCORD, NH Wastewater	2,205	GAL	500 gallon mini-bulk	AWWA LATEST EDITION
GREATER LAWRENCE SANITARY DISTRICT	80,000	GAL	2,500	
HUDSON WATER SUPPLY	500	GAL	55 GAL DRUMS	TEMORARY NEED TO DE-CHLOR
HUDSON WASTEWATER DIVISION	5,600	GAL	800 mini-bulk	
LINCOLN WATER DEPT	200	GAL	55 GAL DRUMS	
LOWELL W.W.T.P.	70,000	GAL	4,000 GALS.	
NASHUA W.W.T.P.	50,000 220	GAL GAL	3,000 GALS 55 GAL. DRUMS	2-
NEWBURYPORT W.W.T.P.	10,000	GAL	800 GALS.	
SODIUM METABISULFITE				
PEABODY W.T.P.	6,000	LBS	40/50 LBS BAGS PER PALLET	1 Pallet per delivery
SODIUM CARBONATE (Soda Ash-Dense)				
FITCHBURG WATER DEPT.	150,000	LBS.	44,000 LBS.	NSF 60, AWWA Standard B201, latest version
HOOKSETT NH VILLAGE WATER PRECINCT	60,000	LBS.	App. 6 PALLETS, 50-50 LBS BAGS/PALLET	NSF 60, AWWA, B201 latest version SPLIT LOAD
MANCHESTER BY THE SEA	50,000	LBS.	50 -50 LB. BAGS/PALLET	NSF 60, AWWA B201- latest edition
WEBSTER WATER DEPT.	11,000	LBS.	50 -50 LB. BAGS/PALLET	NSF 60, AWWA B201-98, latest edition
SODIUM CHLORIDE				
WESTFORD WATER DEPT.	10,000	LB	50 LB. BAGS FULL PALLET	B200-98 Diamond Crystal Pellets w/ softener care; only from Watkins Glen, NY by Cargill
SODIUM CHLORITE				Note Domestic & Foreign Alternatives in Bid Forms
IPSWICH W.T.P.	3,000	GAL	500 - 1,000 GAL. BULK	25%
LAWRENCE	8,760	GAL	1,500 GALS	
LOWELL W.T.P.	28,000	GAL	4,000 GALS.	AWWA B-303 - latest edition
LYNN W.T.P.	20,000	GAL	2,000 - 4,000 GALS.	
METHUEN W.T.P.	5,500	GAL	1,000 - 2,000 GALS.	
NORTH CHELMSFORD WATER DISTRICT	1,000	DRY LBS	4, 55 GAL DRUMS	SAFE-T-CHLOR
TEWKSBURY W.T.P.	5,000	GAL	1,000 GALS	USA ORIGIN ONLY
SODIUM FLUORIDE				Note Domestic & Foreign Alternatives in Bid Forms
ACTON WATER DISTRICT	10,000	LBS.	1-2 Pallets/ 40-50 LBS BAGS	2 STOPS, DRY, COURSE MATERIAL B701- Latest Edition
CONCORD WATER/ SEWER DEPT.	12,000	LBS.	1 PALLET / 40-50 LB. BAGS	AWWA B701- latest edition

DANVERS W.T.P.	2,000	LBS.	20 / 50 LB. BAGS	AWWA B701- latest edition
DOVER NH WATER & WASTEWATER	11,500	LBS	1 PALLET/ 40-50 LBS BAGS	AWWA B701- latest edition
DRACUT WATER DEPT.	3,000	LBS.	1 PALLET	Split Delivery
GROVELAND WATER/SEWER DEPT.	4,000	LBS.	1 Pallet / 50 LB BAGS	Split Delivery - Power Lift Gate
HAMILTON WATER DEPT.	3,000	LBS.	20 / 50 LBS BAGS	
HOLLISTON WATER DEPT.	6,000	LBS.	1 PALLET / 40-50 LB. BAGS	AWWA B701- latest edition
LINCOLN WATER DEPT	4,000	LBS.	1 PALLET / 40-50 LB. BAGS	
MANCHESTER BY THE SEA	2,000	LBS.	1 PALLET / 40-50 LB. BAGS	
MILLIS WATER DEPT.	8,000	LBS.	1-2 PALLET / 40-50 LB. BAGS	
NEWBURYPORT W.T.P.	16,000	LBS.	2 PALLETS/ 40 - 50 LB BAGS	Course Granular
NORTH READING WATER DEPT.	2,000	LBS.	1 PALLET / 40-50 LB. BAGS	
PEABODY W.T.P.	27,750	LBS.	4 PALLETS/ 40-50 LB. BAGS	
SHREWSBURY WATER DEPT.	17,200	LBS.	1-2 PALLETS/40-50 LB BAGS	AWWA B701- latest edition
SUDBURY WATER DISTRICT	12,000	LBS.	2 PALLETS/ 40 - 50 LB BAGS	AWWA B701- latest edition
WESTFORD WATER DEPT.	10,000	LBS.	1 PALLET/40 - 50 LB. BAGS	AWWA B701- latest edition
SODIUM HEXAMETAPHOSPHATE				
DRACUT WATER DEPT.	1,980	GAL	55 GAL DRUMS	AWWA & NSF 60 STANDARD
LITTLETON WATER DEPT.	600	GAL.	3/55 GAL. DRUMS	Pristine SK-7641or equal
WEST GROTON WATER SUPPLY DISTRICT	1,000	LB	1,500 LBS.	50 lb. bags - Glassy Plate
SODIUM HYPOCHLORITE 5% SOL				
NASHUA W.W.T.P.	3,000	GAL	250 GAL TOTES (2)	
SODIUM HYPOCHLORITE 12.5% SOL				
DRACUT WATER DEPT.	120	GAL	5 GALLON CARBOY	AWWA B300- latest edition
HUDSON WASTEWATER DIVISION	10,000	GAL	2,000 GAL BULK	AWWA B300-Latest edition
HUDSON WATER SUPPLY	25,000	GAL	500-1,000 GAL. BULK	AWWA B300- latest edition
LINCOLN WATER DEPT	120	GAL	5 GALLON CARBOY	AWWA B300- latest edition
SODIUM HYPOCHLORITE 15% SOL				Chlorate Analysis & "time in storage" with Deliveries. Note: refrigeration storage delivery option is included in bid form.
ACTON WATER DISTRICT	6,000	GAL	1,000 GALS.	2 stops, 2" quick connection
ANDOVER W.T.P.	47,000	GAL	1,000 - 2,000 GALS.	AWWA B300- latest edition
AYER WATER DEPT.	25,000	GAL	1,000 - 1,600 GALS.	
BILLERICA W.W.T.P.	30,000	GAL	3,000 GALS - BULK	
BILLERICA W.T.P.	50,000	GAL	3,000 GALS.	
BURLINGTON W.T.P.	461,900	WET LBS.	2,000 - 4,000 GALS.	Typical Split Delivery
CANOBIE LAKE PARK	10,000	GAL.	1,000-2,000 GALS.	Two stops, 2" quick connection
CHELMSFORD WATER DISTRICT	120	GAL	12/ 5 GAL. DRUMS	AWWA B300- latest edition
	550	GAL	2/55 GAL DRUMS	
	15,000	GAL	500 GAL. BULK	
CONCORD, NH Water & Wastewater	43,465 (water) 72,000 (wastewater) 115,645 (total)	GAL	1,000 gal/usually 4,000 gal	SPLIT DELIVERIES AWWA, NSF/ANSI 60
CONCORD WATER/SEWER DEPT.	90,000	WET LBS.	up to 500 GAL. BULK	AWWA B300- latest edition
DANVERS W.T.P.	25,000	GAL	3,000 GALS. BULK	
	6,000	GAL	750 GALS. BULK	
	1,080	GAL	3 PALLET 9 /15 GAL. DRUMS	
DOVER NH WATER & WASTEWATER	70,000	GAL	3,000 GAL	SPLIT DELIVERIES AWWA, NSF/ANSI 60 MUST BE FILTERED

EAST CHELMSFORD WATER DISTRICT	12,000	GAL	1,000 GALS.	
GEORGETOWN WATER DEPT.	10,000	GAL	1,000 GALS.	Supply 3 lengths of hose
GREATER LAWRENCE SANITARY DISTRICT	225,000	GAL	4,000 GALS.	
GROTON WATER DEPT.	500	GAL	10 - 15 15 GAL DRUMS	
HAMILTON WATER DEPT.	7,500	GAL	15 GAL or 55 GAL DRUMS	
HOOCKETT NH VILLAGE WATER PRECINCT	1,080	GAL	App. 12-15 GAL DRUMS	NSF 60,AWWA B300- latest edition SPLIT LOAD
HOOCKETT NH, SEWER DEPT.	9,000	GAL	900 GALS.	
HOLLISTON WATER DEPT.	1,650	GAL	4 / 55 GAL. DRUMS	
	8,000	GAL	500 GAL MIN	Multiple Stops
IPSWICH W.T.P.	12,500	GAL	500-1,000 GAL. BULK	AWWA B300-80
	1,000	GAL	4 - 6/ 55 GAL. DRUMS	
KEENE N.H	16,000 water dept.	GAL	3,000 GAL Water	AWWA/NSF 60 for water dept
LAWRENCE	102,200	GAL	5000 GALS.	
LITTLETON WATER DEPT.	25,000	WET LBS.	300 to 600 GALS	AWWA B-300 latest edition
LOWELL W.T.P.	110,000	GAL	4,000 - 5,000 GALS.	AWWA B300- latest edition
LOWELL W.W.T.P.	430,000	GAL	7,000 GALS.	
LUNENBURG WATER DISTRICT	500	GAL	9/ 15 GAL. DRUMS	
MANCHESTER BY THE SEA	14,000	GAL	1,000 - 2,000 GALS.	4 LOCATIONS - Split Delivery
MAYNARD WATER DEPT.	20,000	GAL	1,000-2,000 GAL	3 LOCATIONS - Split Delivery
MERRIMAC WATER DEPT.	1,500	GAL	9 - 18/ 15 GAL. DRUMS	Split Delivery
METHUEN W.T.P.	45,000	GAL	3,000 GALS.	
MILLIS WATER DEPT.	500	GAL	8-10, 5 GALLON BUCKETS MONTHLY	30 DAY SHELF LIFE
NASHUA W.W.T.P.	160,000	GAL	4,000-4,500 GALS	
NEWBURYPORT W.T.P.	14,000	GAL	800 GALS.	
NEWBURYPORT W.W.T.P.	37,000	GAL	2000 / 3000 GALS	
NORTH ANDOVER W.T.P.	16,000	GAL	1,000 - 1,300 GALS	
NORTH CHELMSFORD WATER DISTRICT	160	GAL	16/5 GAL DRUMS	AWWA B300- latest edition
NORTH READING WATER DEPT.	3,500	GAL	1,000 - 2,000 GALS. AND	
			12/ 15 GAL. DRUMS	
PEABODY W.T.P.	50,000	GAL	1,000 GALS. OR MORE	
ROWLEY WATER DEPARTMENT	3,500	GAL	400-1,000 BULK	Treatment Plant
	600	GAL	4/55 GAL Drums	
SALEM, NH WTP	18,000	GAL	2,000 GALS BULK	
SHIRLEY WATER DISTRICT	350-450	GAL	4- 15 GAL. DRUMS	
SHREWSBURY WATER DEPT.	4,000	GAL	500 GAL Bulk	AWWA B300- latest edition
SUDBURY WATER DISTRICT	14,000	GAL	1,000 GALS.	AWWA B300- latest edition
TEWKSBURY W.T.P.	44,000	GAL	4,000 GALS.	
TOWNSEND WATER DEPT.	200	GAL	18, 1 GAL Containers/delivery	
WEBSTER WATER DEPT.	13,000	GAL	500-1,000 GAL	1 STOP, 2' QUICK CONNECTION 1 STOP, LIFT GATE
	3,000	GAL	5/55 GAL DRUMS/MONTH	
WELLESLEY WATER & SEWER	8,000-12,000	GAL	300 - 1,500	AWWA-B300-LATEST EDITION
WEST GROTON WATER SUPPLY DISTRICT	60	GAL	3/15 DRUMS	AWWA-B300-LATEST EDITION
WEST NEWBURY WATER DEPT.	1,000	GAL.	2-3/55 GAL DRUMS	AWWA-B300-LATEST EDITION
WINCHESTER W.T.P.	6,000	GAL	1,500 GALS.	AWWA-B300-LATEST EDITION
WOBURN W.T.P.	20,000	GAL	2,000 GALS.	AWWA-B300-LATEST EDITION
SODIUM SILICOFLUORIDE				
DANVERS W.T.P.	18,000	LB	2,000 LBS.	AWWA B702- latest edition
SODIUM THIOSULFATE (Penta-Hydrate)				

NORTH CHELMSFORD WATER DISTRICT	1,300	LB	24/25kg BAGS/PALLET	Penta-Hydrated, PhotoGrade, Crystalline CAS-10102-17-7
THIOSULPHATE (24-34%)				
No Current Users				
ZINC HEXAMETAPHOSPHATE				
CONCORD WATER/ SEWER DEPT.	6,000	LB	40/ 50 LB. BAGS	Virchem - 937
DANVERS W.T.P.	8,000	LB	2,000 LBS.	Carus 3350 or equal
ZINC ORTHOPHOSPHATE				
ASHLAND W.T.P.	3,000	GAL	1,000 GALS. - BULK	Virchem- 970 or equal
DANVERS W.T.P.	12,000	LB	2,000 LBS.	Carus 3050 or equal
DOVER NH WATER & WASTEWATER	1,800 1,100	GAL	10-30 GAL DRUMS TOTES OF 275 GALLONS EACH	4 TRANSLUCENT DRUMS PREFERRED 2 LOCATIONS SHANNON SLC OR CARUS 3180
HOLLISTON WATER DEPT.	2,000	GAL	1,000 GALS. - BULK	Virchem- 970 or equal
LAWRENCE	9,200	GAL	2,300 GALS	CARUS 3300 OR EQUAL
LINCOLN WATER DEPT	240	GAL	4/30 GAL DRUMS	CARUS 3180 split delivery - 2 sites
LOWELL W.T.P.	25,000	GAL	2,500 GALS.	UPZ 511 or equal
LYNN W.T.P.	20,000	GAL	2,000 - 4,000 GALS.	V-939 or equal
MANCHESTER BY THE SEA	650	GAL	3-55 GAL. DRUMS	
NORTH ANDOVER W.T.P.	3,000	GAL	3,000 GALS.	Carus 3090, SLI-932 or equiv.
ROWLEY WATER	620	LB	1 PALLET	Carus 8650 or equal
TEWKSBURY W.T.P.	2,000	GAL	1,000 GALS.	SLI- 939 or equivalent