

North Shore Water Commission
2018 Chemical Bids
Plant Manager's Recommendations
November 1, 2017

Ammonium Hydroxide - nominal 19% by weight: mini bulk delivery

Hawkins: \$0.240/lb

Recommended because Hawkins provided the only quotation for this chemical.

Sodium Hypochlorite - nominal 12.5% by weight: 4000 gal delivered by tanker truck

Olin \$0.71/gal

Recommended because this vendor quoted the lowest unit price.

Hydrofluosilic Acid - nominal 23% by weight: 4500 gal delivered by tanker truck

Rowell: \$0.1640/lb (\$328/ton)

Recommended because this vendor quoted the lowest unit price.

Liquid Aluminum Sulfate: full load delivered by tanker truck

ChemTrade: \$263/dry ton

Recommended because this vendor quoted the lowest unit price.

Phosphate (Blended 90% Ortho / 10% Poly): mini bulk delivery

Hawkins: \$0.4200/lb (\$4.8342/gal)

Recommended because Hawkins provided the only quotation for this chemical.

Polymer (Flocculation Aid - CatFloc 8103 PLUS): mini bulk delivery

Hawkins: \$0.65/lb

Recommended because this vendor quoted the lowest unit price.

Polymer (Mussel Control - Veligon TL-M): 55 gal drum delivered

Nalco: \$1.11/lb

Recommended because Nalco provided the only quotation for this proprietary chemical.

North Shore Water Commission
2018 Chemical Bid Tabulation
Eric Kiefer
11/1/2017

Ammonium Hydroxide - nominal 19% by weight

Unit: Drum / Mini bulk

<u>Vendor</u>	<u>Quantity</u>	<u>Firm Price</u>	<u>Price</u>	<u>Surcharges / Fees</u>	<u>Firm Surcharges / Fees</u>	<u>Surcharges / Fees</u>	<u>Deposits</u>
Hawkins [NSWC]	mini bulk	Yes	\$0.2400/lb	No	N/A	N/A	N/A

Chlorine - sodium hypochlorite - nominal 12.5% by weight or 15% by volume

Unit: Bulk

<u>Vendor</u>	<u>Quantity</u>	<u>Firm Price</u>	<u>Price</u>	<u>Surcharges / Fees</u>	<u>Firm Surcharges / Fees</u>	<u>Surcharges / Fees</u>	<u>Deposits</u>
Alexander	tank truck	Yes	\$0.7340/gal (\$0.0732/lb)	No	N/A	N/A	N/A
Hydrite	tank truck	Yes	\$0.8990/gal (4000 gal min)	No	N/A	N/A	N/A
Olin	tank truck	Yes	\$0.7100/gal (4000 gal min)	No	N/A	N/A	N/A
Milport	tank truck	Yes	\$0.7950/gal (4000 gal min)	No	N/A	N/A	N/A
Vertex	tank truck	Yes	\$0.9900/gal (4000 gal min)	No	N/A	N/A	N/A

Hydrofluosilic Acid - nominal 23% by weight

Unit: Bulk

<u>Vendor</u>	<u>Quantity</u>	<u>Firm Price</u>	<u>Price</u>	<u>Surcharges / Fees</u>	<u>Firm Surcharges / Fees</u>	<u>Surcharges / Fees</u>	<u>Deposits</u>
Alexander	tank truck	Yes	\$0.1680/lb (\$336/ton)	No	N/A	N/A	N/A
Hawkins [NSWC]	tank truck	Yes	\$0.2100/lb (\$420/ton)	No	N/A	N/A	N/A
Hawkins [Oak Creek]	tank truck	Yes	\$0.2300/lb (\$460/ton)	No	N/A	N/A	N/A
Milport	tank truck	Yes	\$0.2050/lb (\$407/ton) - 40000 lb min	No	N/A	N/A	N/A
Rowell [NSWC, Oak Creek]	tank truck	Yes	\$0.1640/lb (\$328/ton)	No	N/A	N/A	N/A
Univar [NSWC]	tank truck	Yes	\$0.1945/lb (\$389/ton) - 40000 lb max	No	N/A	N/A	N/A
Univar [Oak Creek]	tank truck	Yes	\$0.1945/lb (\$389/ton) - 40000 lb max	No	N/A	N/A	N/A

Liquid Aluminum Sulfate (Derived from Aluminum Trihydrate)

Unit: Bulk

<u>Vendor</u>	<u>Quantity</u>	<u>Firm Price</u>	<u>Price</u>	<u>Surcharges / Fees</u>	<u>Firm Surcharges / Fees</u>	<u>Surcharges / Fees</u>	<u>Deposits</u>
Alexander Chemical [NSWC]	tank truck	Yes	\$270.00/dry ton (\$0.13500/dry lb)	No	N/A	N/A	N/A
ChemTrade [NSWC]	tank truck	Yes	\$263.00/dry ton (\$0.13150/dry lb)	No	N/A	N/A	N/A
Rowell [NSWC]	tank truck	Yes	\$410.00/dry ton (\$0.20500/dry lb)	No	N/A	N/A	N/A
USALCO [NSWC]	tank truck	Yes	\$384.39/dry ton (\$0.192195/dry lb)	No	N/A	N/A	N/A
Univar [NSWC]	full tank truck	Yes	\$310.00/dry ton (\$0.15500/dry lb)	No	N/A	N/A	N/A

Phosphate

Unit: Drums

<u>Vendor</u>	<u>Quantity</u>	<u>Firm Price</u>	<u>Price</u>	<u>Surcharges / Fees</u>	<u>Firm Surcharges / Fees</u>	<u>Surcharges / Fees</u>	<u>Deposits</u>
Hawkins [NSWC]	Mini bulk	Yes	\$0.4200/lb (\$4.8342/gal) LPC-132	No	N/A	N/A	N/A

Polymer (Flocculation Aid)

Unit: Drums

<u>Vendor</u>	<u>Quantity</u>	<u>Firm Price</u>	<u>Price</u>	<u>Surcharges / Fees</u>	<u>Firm Surcharges / Fees</u>	<u>Surcharges / Fees</u>	<u>Deposits</u>
Hawkins [NSWC]	Mini bulk	Yes	\$0.650/lb, Aqua Hawk 6527	No	N/A	N/A	N/A
Nalco [NSWC]	Mini bulk	Yes	\$0.960/lb, CatFloc 8103 PLUS	No	N/A	N/A	N/A

Polymer (Mussel Control)

Unit: Drums

<u>Vendor</u>	<u>Quantity</u>	<u>Firm Price</u>	<u>Price</u>	<u>Surcharges / Fees</u>	<u>Firm Surcharges / Fees</u>	<u>Surcharges / Fees</u>	<u>Deposits</u>
Nalco [NSWC]	55 gal drum	Yes	\$1.11/lb, Veligon TL-M	No	N/A	N/A	N/A

North Shore Water Commission
 Comparison of Chemical Quotations
 November 1, 2017

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Increase / Unit	% Incr (Dec.)
Aqua Ammonia (\$/lb)	N/A	0.295	0.23	0.20	0.23	0.23	0.25	0.25	0.25	0.24	0.240	0.000	0.0%
Sodium Hypochlorite (\$/gal)	0.74	1.23	0.61	0.625	0.7168	0.715	0.729	0.729	0.699	0.694	0.710	0.016	2.3%
Hydrofluorosilic Acid (\$/lb)	0.256	0.32	0.36	0.3475	0.3475	0.337	0.2695	0.234	0.229	0.210	0.164	-0.046	-21.9%
Aluminum Sulfate (\$/dry ton)	243	476	476	480	480	480	480	480	343	275	263	-12.000	-4.4%
Potassium Perманagate (\$/lb)	2.3	3.45	2.5	N/A	N/A	N/A	N/A	NA	NA	NA	NA	NA	NA
Phosphate (\$/month) & (\$/gal)	665 \$/month	1460 \$/month	6.22	6.66	6.93	6.93	6.0804	5.4	5.4	5.06	4.834	-0.226	-4.5%
Polymer - Floc. Aid (\$/lb)	0.79	0.86	0.86	0.85	0.875	0.92	0.78	0.78	0.76	0.650	0.650	0.000	0.0%
Polymer - Mussel Control (\$/lb) New 1/1/2012	N/A	N/A	N/A	N/A	1.11	1.11	1.11	1.11	1.11	1.110	1.110	0.000	0.0%