

2014-2015 BOILER COMPOUND BID AWARDS

Item	Compounds	Supplier*	Approx. \$/lb
2900-141-			
-0011	Organic Blend C (50 lb bags)	Navico	3.40
-0012	Organic Blend E (50 lb bags; 100 lb bags)	Navico	3.31
-0013	Organic Blend F (50 lb bags)	Navico	3.90
-0014	Domestic Blend (50 lb bags; 400 lb drums)	Navico	2.21
-0015	Caustic Soda Bead (25, 100, or 500 lb drums)	Navico	1.14
-0017	Soda Ash (50 or 100 lb bags)	Navico	0.73
-0018	Disodium Phosphate (50 or 100 lb bags)	Navico	3.70
-0021	Sodium Nitrate (50 or 100 lb bags)	Navico	1.30
-0022	Sodium Sulfite (50 or 100 lb bags)	Navico	1.35
-0023	Cyclohexylamine (5, 30, 55 gal drums)	Navico	20.07 /gal
-0026	Hydrated Lime (50 lb bags)	Navico	0.65
-0030	Sulfuric Acid (5, 13.5, 55 gal carboy)	Navico	9.45 /gal
-0032	Quick Lime (50 lb bags)	Navico	0.75
-0033	Sodium Tripolyphosphate (50 or 100 lb bags)	Navico	2.36
-0034	Nitrogenous Film-Forming Chemical (55 gal, 350 lb drums)	Walter Louis Chemicals	14.30 /gal
-0035	Alum (50 lb bags)	Navico	0.87
-0040	Morpholine (55 gal drum; 450 lb drums)	Navico	21.45 /gal
-0041	Monosodium Phosphate (50 or 100 lb bags)	Navico	3.95
-0042	Sodium Silicate (5 gal (60lb container), or 50 gal (600 lb drums))	Navico	9.60 /gal
-0044	Liquid Sulfite (5, 13, 55 gal)	Navico	\$1.35

Item	Compounds	Supplier*	Approx. \$/lb
2900-141-			
-0051	Hydrochloric Acid (6½ gal carboy)	Navico	6.50 /gal
-0060	Calcium Hypochlorite (5 lb cans, 100 lb drums)	Navico	3.40
-0062	Sodium Hypochlorite Solution (1 or 5 gal cont)	Navico	5.45 /gal
-0064	Cation Resin, Strong Acid (2 or 5 cu ft)	Walter Louis Chemicals	135.00 /cu ft
-0065	Powdered Activated Carbon (35 lb bag)	Walter Louis Chemicals	7.28
-0067	Calcium Chloride Flake (100 lb bags)	Navico	0.80
-0068	Copper Sulfate, Crystals (50 or 100 lb bags)	Navico	3.95
-0069	Inh. Liq. Acid for Scale Removal (1 or 13 gal container)	Navico	5.75 /gal
-0073	Inhibited Powdered Acid (100 lb drum)	Navico	2.20
-0075	Caustic Soda, Bead (450 lb drum)	Navico	1.14
-0078	Sodium Bisulfate (100 lb bags)	Navico	0.90
-0081	Closed System Nitrite Treatment Blend (50 lb bags)	Navico	1.95
-0090	Ferric Sulfate, Water Soluble (50 or 100 lb bags)	Navico	0.85
-0091	Potassium Permanganate (110 lb drum)	Navico	6.40
-0093	Diatomite Diatomaceous Silica (50 lb bag)	Walter Louis Chemicals	4.75
-0094	Sodium Fluoride (50 or 100 lb bag)	Navico	1.75
-0096	SATMP Scale Inhibitor (15gal; 170 lb drums)	Navico	20.95 /gal
-0109	HEDP Scale Inhibitor (15 gal; 170 lb drums)	Navico	27.50 /gal
-0120	Cation Exchange Resin, Weak Acid (5 cu ft or 2 cu ft)	Walter Louis Chemicals	315.00 /cu ft
-0133	Diethylaminoethanol (DEAE) (55 gal drums; 400 lb)	Navico	18.85 /gal
-0137	Softened Water Boiler Treatment Blend L (50 lb bags; 400 lb drums)	Navico	2.39

Item	Compounds	Supplier*	Approx. \$/lb
2900-141-			
-0142	Sodium Sulfite, Food Grade (50 or 100 lb bags)	Walter Louis Chemicals	3.95
-0144	Silicone Type Antifoam (5 gal container; 40 lb)	Navico	46.00 /gal
-0146	Caustic Soda, Liquid 48.5% 5, 13, 55 gal drum; 700 lb)	Navico	6.85 /gal
-0151	Microbiocide A (5 gal cont; 43.5 lb, 15 gal cont; 130 lb)	Navico	16.15 /gal
-0161	Liq. Nitrite-Borax Treatment (5 gal pails; 50 lb)	Navico	6.95 /gal
-0177	Cooling Tower Biocide H (Bromine Tablets) (47 lb cartons)	Walter Louis Chemicals	7.75
-0179	Sodium Salt of Tolyltriazole	Navico	36.00 /gal
-0181	Low Press. Boiler Liq. Water Treatment	Navico	5.60 /gal
-0182	Fluosilicic Acid	Navico	12.20 /gal
-0200	Sodium Molybdate, Crystalline, Na ₂ MoO ₄ ·2H ₂ O (200 lb drums)	Navico	15.10
-0205	Acrylate Copolymer	Navico	28.00 /gal
-0206	Acrylate Terpolymer	Navico	30.00 /gal
-0207	Hydroxyphosphono Acetic Acid	Navico	37.00 /gal
-0214	Microbiocide (N)	Walter Louis Chemicals	47.50 /gal
-0222	Microbiocide 0 (5 gal pail)	Navico	61.00
-0223	Surfactant, Nonionic/Nonfoaming (5 gal pail)	Navico	32.00 /gal
-0226	Caustic Soda, Liquid 25%	Navico	3.70 /gal
-0227	Liquid Ammonium Hydroxide	Navico	5.10 /gal
-0228	Aluminum Sulfate Liquid	Navico	6.05 /gal
-0230	Closed System Treatment Blend M2	Navico	12.70 /gal
-0231	Sodium Chlorite, Liquid	Navico	17.75 /gal

Item	Compounds	Supplier*	Approx. \$/lb
2900-141-			
-0232	Inhibited Ethylene Glycol, minimum 92%	Navico	22.00 /gal
-0233	Uninhibited Ethylene Glycol, minimum 95%	Navico	13.75 /gal
-0234	Inhibited Propylene Glycol, minimum 94%	Navico	26.95 /gal
-0235	Inhibited Propylene Glycol, minimum 95.5%	Navico	26.95 /gal
-0236	Uninhibited Propylene Glycol, minimum 95.5%	Navico	26.95 /gal
-0237	Liquid Galvanized Tower Passivating Blend	Navico	11.95 /gal
-0238	Dry Galvanized Tower Passivating Blend (50, 100, 250 lb)	Navico	4.15
-0239	3 - Amine Blend 10-5-10	Navico	10.95 /gal
-0240	Polymer Cleaning Soln for Closed Systems	Navico	8.25 /gal
-0241	Cooling Tower Blend K7	Navico	16.95 /gal
-0244	Boiler Blend B2	Navico	8.35 /gal
-0246	Boiler Dispersant D1	Navico	16.00 /gal
-0247	Microbiocide GA	Walter Louis Chemicals	36.80 /gal
-0250	Cooling Tower Blend K12	Navico	21.95 /gal
-0251	Phosphate-Polymer Boiler Blend	Navico	6.75 /gal
-0252	Microbiocide AFB		-----
-0253	Microbiocide ISO-AFB		-----
-0254	Inhibited Liquid Sulfuric Acid 10%	Navico	8.95 /gal
-0255	Cooling Tower Blend K7 w/PTSA Dye	Navico	16.95 /gal
-0256	Low Molybdate Cooling Tower Blend K12 w/PTSA Dye	Navico	21.95 /gal
-0257	Closed System Treatment Blend M3	Navico	10.50 /gal

Item	Compounds	Supplier*	Approx. \$/lb
2900-141-			
-0258	Liquid Hard Water Boiler Treatment	Navico	13.95 /gal
-0259	Boiler Vapor Phase Corrosion Inhibitor for Dry Lay Up	Navico	251.20
-0260	Closed Loop Vapor Phase for Operating System	Navico	318.08/4
-0261	Cooling Tower Vapor Phase Corrosion Inhibitor for Dry or Wet Lay Up	Navico	299.24/4
-0262	Cooling Tower Vapor Phase Corrosion Inhibitor for Dry Lay Up	Navico	261.78/2
-0263	Stabilized Bromide Treatment	Navico	16.00 /gal
-0264	Cooling Tower Blend HS	Navico	21.95 /gal
-0265	Cooling Tower Blend HS w/PTSA Dye	Navico	21.95 /gal
-0266	Cooling Tower Brodispersant DS		No bid
-0267	Exchange Resin, Shallow Shell, High Efficiency Gel Strong Acid, Cation		No bid

2014-2015 WATER TESTING REAGENTS AND EQUIPMENT

* Navico
WLC = Walter Louis Chemicals

Item	Reagents & Equipment	Supp.*	Approx. \$/Item
2900-141-			
-5000	qt Std. H. Titrating Soln.	WLC	15.59
-5001	gal Std. H. Titrating Soln.	WLC	24.05
-5002	pt Hardness Buffer Soln.	WLC	17.20
-5003	4 oz cont Hardness Indicator Pwd.	WLC	21.40
-5004	qt Standard Sulfuric Acid	WLC	31.60
-5005	gal " " "	WLC	35.30
-5006	pt Methyl Orange Ind. Soln.	WLC	15.40
-5007	pt Phenolphthalein Ind. Soln.	WLC	33.40
-5008	qt Standard Silver Nitrate Soln.	WLC	35.20
-5009	gal Standard Silver Nitrate Soln.	WLC	83.60
-5011	pt Pot. Chromate Ind. Soln.	WLC	26.50
-5012	qt Potassium Chromate Indicator Solution	WLC	33.40
-5013	lb Gallic Acid Crystals	WLC	112.00
-5014	pt Sulfuric Acid Soln.	WLC	43.00
-5015	qt Std. Pot. Iodide-Iodate Soln.	WLC	22.00
-5016	gal " " " " " (1 mL = 1.0 mg SO ₃)	WLC	46.00
-5018	lb Dual Purpose Sulfite Ind.	WLC	51.90
-5019	2 oz Phosphate Ind. Pwd.	WLC	25.00
-5020	qt Molybdate Reagent	WLC	35.30
-5021	gal Molybdate Reagent	WLC	82.60
-5022	pt Sodium Hydroxide Soln.	WLC	31.60
-5023	4 oz Calcium Ind. Powder	WLC	32.00
-5027	4 oz cont Thymol Red Ind. Soln.	WLC	26.00
-5028	Filter Paper, 12.5 cm, Slow Filter	WLC	23.50
-5030	pt Standard Sodium Hydroxide	WLC	31.60
-5032	pt Mixed Indicator Solution	WLC	40.60
-5037	8 oz cont Conc. Soap Soln.	WLC	42.50
-5038	qt Sodium Thiosulfate, N/40	WLC	29.75
-5039	4 oz Potassium Iodide, Crystals	WLC	62.00
-5041	qt Std. Ceric Sulfate	WLC	46.60
-5042	4 oz cont Nitrite Ind. Soln.	WLC	28.20
-5045	Casserole, Extra Heavy, Porcelain 200 ML, No Handle (FL)	WLC	81.00

Item	Reagents & Equipment	Supp.*	Approx. \$/Item
2900-141-			
-5048	gal Dilute Sodium Sulfate Soln. (50 μ S/cm STD)	WLC	34.05
-5049	gal Sodium Sulfate Soln. (1000 μ S/cm STD)	WLC	34.60
-5050	Cylinder, Graduated, 50 mL	WLC	32.00
-5051	Cylinder, Graduated, 100 mL	WLC	45.00
-5052	Casserole, Porcelain with handle, 140 mL	WLC	51.80
-5053	Plastic Stirring Rod, 150mm length, 1 Dozen/ Package	WLC	66.90
-5054	Dropping Bottles, 1 oz	WLC	15.10
-5055	Automatic Burettes, 10 mL	WLC	79.50
-5056	Funnel, Analytical	WLC	22.87
-5057	Flask, Erlenmeyer, Wide Mouth, 250 mL	WLC	24.10
-5058	Bottle, Washing or Dispensing	WLC	24.50
-5059	Colorimetric Slide Comparator, High Phosphate	WLC	218.50
-5067	Colorimetric Comparator Slides, Only	WLC	88.00
-5075	Test Tube, 5 mL, for Taylor Comparators	WLC	17.05
-5076	Reagent Vial, 20 mL, with cap	WLC	22.90
-5077	Dalite Lamp, 10.5 x 7.5 x 4.5	WLC	290.00
-5078	Mixing Tube, High Phosphate	WLC	41.10
-5085	Cylinder, Ungraduated	WLC	43.15
-5086	Thermometer, Dial, Dual Range	WLC	131.00
-5087	Soap Shaking Bottle, 2 oz	WLC	33.60
-5088	Dropper Bottle, 1 oz	WLC	24.60
-5090	Plastic Measuring Cup, 1.0g	WLC	10.50
-5098	Chlorine Comparator for Free & Total Chlorine	WLC	315.00
-5099	Tablets for Free Chlorine DPD Method, Rapid, 50/pkg	WLC	20.50
-5101	Tablets for Total Chlorine DPD Method, Rapid, 50/pkg	WLC	22.50
-5134	Container, Sample, Polypropylene Beaker with handle, 1000 mL	WLC	115.00
-5136	pH Buffer Solution, 7.0	WLC	26.00
-5137	pH Buffer Solution, 10.0	WLC	31.50
-5142	Molybdenum Test Kit	WLC	144.00
-5143	Molybdenum Reagent Refill Pkg	WLC	47.00
-5144	Conductivity Tester, Battery Powered, Including Electrode	WLC	340.00
-5152	Pure Gum Rubber Tubing, 3/16" ft. wall thickness, 12 ft. section	WLC	22.60
-5153	Kit, High Range Molybdenum Test	WLC	128.00
-5154	Reagent Refill Pkg. for High Range Molybdenum Test	WLC	110.00
-5155	Conductivity Meter for Boiler Water and Condensate Cond.	WLC	1825.00
-5156	Conductivity Electrode, Epoxy 4-Electrode Graphite Cell	WLC	950.00

Item	Reagents & Equipment	Supp.*	Approx. \$/Item
2900-141-			
-5160	Liquid Gallic Acid, 8 oz.	WLC	44.20
-5161	Conductivity Tester, Battery - Including Internal Electrode	WLC	780.00
-5162	Silica Test Kit	WLC	275.00
-5163	Reagent set for Silica Test (reagents for 100 tests)	WLC	245.00
-5164	Conductivity Meter	WLC	167.00
-5165	pH Meter (range 0-14)	WLC	159.00
-5166	Phosphonate Test Kit 25 mL	WLC	160.00
-5167	ETS-2 Titrating Solution w/Opti-Drop Dispenser	WLC	62.00
-5168	EIT-1 Tablets (50/pack)	WLC	65.00
-5169	Lamotte Sodium Molybdate Test Kit w/Octa-Slide 2 Comparator	WLC	132.00
-5170	Molybdate Reagent 10g	WLC	41.00
-5171	Hydrochloric Acid Reagent 30 mL	WLC	37.00
-5172	Lamotte DC1200-MO Colorimeter Molybdenum (0.5-50 PPM/0.1 PPM)	WLC	570.00
-5173	MO Buffer 60 mL	WLC	40.00
-5174	Molybdenum Oxidizing Reagent 2 x 30 mL	WLC	38.00
-5175	Molybdenum Indicator Powder 2.5 oz	WLC	37.00
-5176	Bacteria Dip-slides for detecting Aerobic Bacteria	WLC	179.00
-5177	Bacteria Dip-slide for detecting Bacteria and Fungi	WLC	140.00

*** ADDRESSES:**

Walter Louis Chemicals, 530 S. 5th St., Quincy, IL 62301-4896; Christy Emerick, 217/223-2017, FAX: 217/223-7734
Butler Chemicals, 1720 Wright Ave., Schaumburg, IL 60193-4514; Michael Jones, 800/352-7868, FAX: 847/352-0630
Navico Inc., 3670 Scarlet Oak Blvd., St. Louis, MO 63122-6606; Edwin Schooling, 800/325-3312, FAX: 636/861-5509