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TUESDAY, JANUARY 21, 2020
CITY COUNCIL REVISED AGENDA
6:00 PM

I. Call to Order by Chairman Oglesby.

II. Pledge of Allegiance/Invocation (Councilman Ledford).

III. Special Presentation.

"Recognizing and Gratefully Acknowledging Alfred Williams for his Heroism and Bravery"
By Councilwoman Berz

Order of Business for City Council

IV. Minute Approval.

V. **Ordinances – Final Reading:**

PLANNING

a. 2019-0168 Kristy Summers (R-1 Residential Zone and C-2 Convenience Commercial Zone to A-1 Urban Agricultural Zone and R-3 Residential Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone properties located in the 6200 block of Dayton Boulevard, more particularly described herein, from R-1 Residential Zone and C-2 Convenience Commercial Zone to A-1 Urban Agricultural Zone and R-3 Residential Zone. **(District 1) (Recommended for approval by Planning and deferral of 30 days by Staff)**

b. 2019-0175 Ken DeFoor Properties (M-3 Warehouse and Wholesale Zone to R-3 Residential Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone property located at 2767 Northpoint Boulevard, more particularly described herein, from M-3 Warehouse and Wholesale Zone to R-3 Residential Zone. **(District 3) (Recommended for approval by Planning and Staff)**

c. 2019-0149 Ideis Architecture (R-2 Residential Zone to O-1 Office Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone property located at 3505 Divine Avenue, more particularly described herein, from R-2 Residential Zone to O-1 Office Zone. **(District 7) (Recommended for denial of C-2 Convenience Commercial Zone and approval of O-1 Office Zone by Planning and Staff)**

d. 2019-0165 Wayne Williams (Lift Conditions). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to lift conditions from Ordinance No. 12197 of previous Case No. 2008-0161 from part of the property located at 1605 East 12th Street, more particularly described herein. **(District 8) (Recommended for approval by Planning and Staff)**

e. 2019-0172 David Hudson (R-4 Special Zone to Urban General Commercial Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone property located at 1806 Bailey Avenue, more particularly described herein, from R-4 Special Zone to Urban General Commercial Zone, subject to certain conditions. **(District 9) (Recommended for approval by Planning and Staff)**

f. An ordinance amending Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, Article V, Zoning Regulations, Division 6, R-2 Residential Zone, Section 38-94, Height and Area Regulations, (4) Minimum building setback to clarify side yard setback requirements for townhouse developments.

VI. **Ordinances – First Reading:**

FINANCE

a. An ordinance to amend Chattanooga City Code, Part II, Chapter 2, Section 2-409, Section 2-410(e)(3) and Section 2-418, relative to the Fire and Police Pension Fund.

POLICE

b. An ordinance to amend Chattanooga City Code, Part II, Chapter 5, Article III, Division 2, Section 5-71, relative to temporary beer permits; Section 5-75, relative to distance requirements; and Section 5-87, relative to Station Street, and to add Chattanooga City Code, Part II, Chapter 5, Article III, Division 2, Section 5-89, relative to training. **(Deferred from 01-07-2020)**

VII. **Resolutions:**

ECONOMIC AND COMMUNITY DEVELOPMENT

a. 2020-01 Mint House Tennessee, LLC/Heritage Land & Development (STVR). A resolution approving Short Term Vacation Rental Application No. 19-STVR-00128 for property located at 721 Broad Street, Unit #1204. **(District 7)**

b. 2020-02 Mint House Tennessee, LLC/Heritage Land & Development (STVR). A resolution approving Short Term Vacation Rental Application No. 19-STVR-00129 for property located at 721 Broad Street, Unit #212. **(District 7)**

c. 2020-03 Megan Stevens/James Stevens (STVR). A resolution approving Short Term Vacation Rental Application No. 19-STVR-00168 for property located at 3201 E. 36th Street. **(District 7)**

PUBLIC WORKS

d. A resolution authorizing the Administrator for the Department of Public Works to award Contract No. R-18-004-201 to P&C Construction, Inc. of Chattanooga, TN, The Scramble Interactive Streetscape on 1st Street, in the amount of $833,106.55, plus a contingency amount of $83,500.00, for a total project cost in the amount of $916,606.55. **(District 7)**

VIII. Purchases.

IX. Other Business.

X. Committee Reports.

XI. Recognition of Persons Wishing to Address the Council.

XII. Adjournment.

TUESDAY, JANUARY 28, 2020
CITY COUNCIL AGENDA
6:00 PM

1. Call to Order by Chairman Oglesby.

2. Pledge of Allegiance/Invocation (Councilman Gilbert).

3. Special Presentation.

Order of Business for City Council

4. Minute Approval.

5. **Ordinances - Final Reading:**

FINANCE

a. An ordinance to amend Chattanooga City Code, Part II, Chapter 2, Section 2-409, Section 2-410(e)(3) and Section 2-418, relative to the Fire and Police Pension Fund.

POLICE

b. An ordinance to amend Chattanooga City Code, Part II, Chapter 5, Article III, Division 2, Section 5-71, relative to temporary beer permits; Section 5-75, relative to distance requirements; and Section 5-87, relative to Station Street, and to add Chattanooga City Code, Part II, Chapter 5, Article III, Division 2, Section 5-89, relative to training. **(Deferred from 01-07-2020)**

6. **Ordinances - First Reading:**

PLANNING

a. 2019-0157 Tonja Hollowell/Jonathan Dixon (R-2 Residential Zone to RT-Z Residential Townhouse/Zero Lot Line Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone property located at 2163 West Shepherd Road, more particularly described herein, from R-2 Residential Zone to RT-Z Residential Townhouse/Zero Lot Line Zone, subject to certain conditions. **(District 6) (Recommended for approval by Planning and denial by Staff) (Deferred from 1/7/2020)**

2019-0157 Tonja Hollowell/Jonathan Dixon (R-2 Residential Zone to RT-Z Residential Townhouse/Zero Lot Line Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone property located at 2163 West Shepherd Road, more particularly described herein, from R-2 Residential Zone to RT-Z Residential Townhouse/Zero Lot Line Zone, subject to certain conditions. **(Alternate Version)**

2019-0157 Tonja Hollowell/Jonathan Dixon (R-2 Residential Zone to RT-Z Residential Townhouse/Zero Lot Line Zone). An ordinance to amend Chattanooga City Code, Part II, Chapter 38, Zoning Ordinance, so as to rezone property located at 2163 West Shepherd Road, more particularly described herein, from R-2 Residential Zone to RT-Z Residential Townhouse/Zero Lot Line Zone. **(Applicant Version)**

PUBLIC WORKS AND TRANSPORTATION

Transportation

b. An ordinance to amend Chattanooga City Code, Part II, Chapter 24, Article XIV, Sections 24-501 and 24-502, relating to speed on through streets.

c. An ordinance amending Chattanooga City Code, Part II, Chapter 24, Article XV, Section 24-511, to extend a moratorium relating to the operation of dockless electric scooters and bicycles. **(Sponsored by Councilman Smith and Councilman Ledford)**

7. **Resolutions:**

COUNCIL OFFICE

a. A resolution by the City Council of the City of Chattanooga, Tennessee requesting the members of the Tennessee General Assembly support legislation amending Tennessee Code Annotated, Title 45, Chapter 15, relative to the Tennessee Title Pledge Act. **(Sponsored by Councilwoman Coonrod)**

ECONOMIC AND COMMUNITY DEVELOPMENT

b. A resolution authorizing the Mayor, or his designee, to execute the seventh amendment to the independent contractor agreement for professional services with Brightbridge, Inc. related to the Environmental Protection Agency (EPA) Revolving Loan Fund Grant for an additional term commencing August 1, 2016 and ending September 30, 2020, for their administrative services, and to authorize the Mayor, or his designee, to execute documents related to the EPA Revolving Loan Fund.

c. A resolution authorizing the Mayor to enter into a contract for sale and purchase with Athens Distributing Company, in substantially the form attached, for the property located at 2754 Kanasita Drive, Tax Map No. 110B-B-001.17, in the amount of $455,000.00 for the construction of an equalization storage facility, a Consent Decree Project, and to execute all documents related to the transaction with closing fees, for an amount not to exceed $4,000.00, for a total amount not to exceed $459,000.00. **(District 3)**

d. A resolution authorizing the Administrator for the Department of Economic and Community Development to apply and, if awarded, accept a Fair Housing Initiative Program – Education and Outreach Initiative Grant for outreach and education materials and activities related to fair housing, for an amount not to exceed $125,000.00.

FINANCE

e. A resolution authorizing the City Finance Department to renew the contract with Nationwide Recovery Service for collection agency services for the second of two (2) optional one (1) year renewals.

PUBLIC WORKS AND TRANSPORTATION

Public Works

f. A resolution authorizing the acceptance of a conservation easement on Tax Parcel No. 108M-B-049.03 located at 1100 Deer Creek Lane relative to the Spring Valley Bank Stabilization and authorizing the Mayor to execute all documents pertaining thereto. **(District 1)**

g. A resolution authorizing the Administrator for the Department of Public Works to award Contract No. W-12-026-202A to Reeves Young, LLC of Sugar Hill, GA, DuPont Pump Station and Basin Improvements – Phase 2 Contract "A", for a contract amount of $8,970,000.00, plus a contingency amount of $900,000.00, for a total project cost of $9,870,000.00, subject to SRF approval. **(District 2)**

h. A resolution authorizing the approval of Change Order No. 2 for CDM Smith, Inc. for professional services for design and construction phase services, relative to Contract No. W-12-026-102, DuPont Pump Station and Basin Improvements – Phase 2, a Consent Decree Project, for an increased amount of $307,311.00, for a revised contract amount of $2,888,195.08. **(District 2)**

i. A resolution authorizing the approval of Change Order No. 1 for CTI Engineers, Inc. (with SCS Engineers as sub) relative to Contract No. C-13-001-101, for professional services for Landfill Deficiency Recommendation and Repairs, for an increased amount of $150,000.00, for an amount not to exceed $728,500.00. **(District 4)**

j. A resolution authorizing the Administrator for the Department of Public Works to renew the current agreement with CTI Engineers, Inc. relative to Contract No. C-16-001-101 for professional services for landfill, groundwater sampling, monitoring and reporting for year three (3) of the four (4) optional years, in the amount of $120,600.00, for an amount not to exceed $416,500.00. **(District 4)**

k. A resolution authorizing the approval of Change Order No. 1 for Tri-State Roofing Contractors, LLC of Chattanooga, TN, relative to Contract No. Y-18-004-201, Replacement Roofing System for Brainerd YFD Center building, for an increased amount of $23,570.00, for a revised contract amount of $86,939.00, plus a contingency amount of $6,500.00, for a total project cost of $93,439.00. **(District 5)**

l. A resolution authorizing the Administrator for the Department of Public Works to amend an agreement between the City and the Tennessee Aquarium, a non-profit agency, originally entered into on October 10, 2018, to change the scope of services for the Aquarium Plaza by the Tennessee Aquarium, for an annual cost of the increased scope of service within this amendment, for an amount not to exceed $159,000.00. **(District 7)**

m. A resolution authorizing the approval of Change Order No. 1 for Integrated Properties, LLC relative to Contract No. C-16-005-201, City Yards Carpenter Shop and Water Quality Storage Building, for an increased amount of $38,365.75, plus a contingency amount of $5,000.00, for a revised contract amount of $273,793.75. **(District 8)**

8. Purchases.

9. Other Business.

10. Committee Reports.

11. Recognition of Persons Wishing to Address the Council.

12. Adjournment.

Proposed City Council Purchases 01-21-2020

DEPARTMENT REQUISITION NO.	ITEM DESCRIPTION	BIDS REQUESTED	BIDS RETURNED	LOWEST/BEST BIDDER	COST	FUND NAME	SUMMARY Additional Supplemntation Requested Collected Prior to Council Session
R189626 Mayor's Office	New Blanket Contract - Bottled Water and Filtration System Coolers with Accessories - City Wide - Purchasing Division - Mayor's Office	4	3	DS Services of America, Inc. dba Crystal Springs Water Company 2300 Windy Ridge Pkwy, Ste 500N Atlanta, GA 30339	Total Estimate $40,000.00 Annually	General Fund	New Blanket Contract - Bottled Water and Filtration System Coolers with Accessories - City Wide - Purchasing Division - Mayor's Office. The City of Chattanooga will issue a new blanket contract for twelve (12) months with the option to renew for two (2) additional twelve (12) month terms. There were four (4) direct bid solicitations and we received three (3) responses in the publicly advertised bid proceedings.
PO541634 Department of Youth and Family Develoment	Extended Blanket Contract - Enterprise Rent-A-Car - Department of Youth and Family Development	-	-	Enterprise Rent-A-Car 209 SeaboardLane Franklin, TN 37067	Total Estimate $5,000.00 Annually	General Fund	Extended Blanket Contract - Enterprise Rent-A-Car - Department of Youth and Family Development. The extended contract term will be for two (2) months.
R193201 Public Works Department	New Blanket Contract - Liquid Sodium Hypochlorite - Waste Resources Division - Public Works Department	5	3	Olin Chlor Alkali Products and Vinyls 490 Stuart Rd. NE Cleveland, TN 37312	Total Estimate $4,250,000.00 Anually	Waste Resource Division	New Blanket Contract - Liquid Sodium Hypochlorite - Waste Resources Division - Public Works Department. The City of Chattanooga will issue a new blanket contract for twelve (12) months with the option to renew for two (2) additional twelve (12) month terms. There were five (5) direct bid solicitations and we received three (3) responses in the publicly advertised bid proceedings.
R193211 Public Works Department	New Blanket Contract - Sewer Line Cleaning Services - Waste Resources Division - Public Works Department	6	5	Sweeping Corporation of America 713 Melpark Dr. Nashville, TN 37204	Total Estimate $600,000.00 Annually	Waste Resource Division	New Blanket Contract - Sewer Line Cleaning Services - Waste Resources Division - Public Works Department. The City of Chattanooga will issue a new blanket contract for twelve (12) months with the option to renew for two (2) additional twelve (12) month terms. There were six (6) direct bid solicitations and we received five (5) responses in the publicly advertised bid proceedings.

R193969 Public Works Department	Purchase - Refurbish Compactor at the Influent Pump Station - Waste Resources - Public Works Department	-	-	Guthrie Sales & Service, 7003 Chadwick Drive, Ste 300 Brentwood, TN 37027	Total Cost $26,430.00	Waste Resource Division	Purchase - Refurbish Compactor at the Influent Pump Station - Waste Resources - Public Works Department. The City will purchase Vulcan compactor parts to refurbish the compactor at Influent Pump Station. TCA 6-56-304.2 allows this single source blanket contract exempted from the usual advertising and bidding requirements.
PO547953 Public Works Department	Blanket Contract Renewal - Air/Vacuum Relief Valve Maintenance & Support - Waste Resources Division - Public Works Department	8	2	H & H Brown, Inc. 1803 Polk Street Chattanooga, TN 37408	Total Estimeate $250,000.00 Annually	General Fund	Blanket Contract Renewal - Air/Vacuum Relief Valve Maintenance & Support - Waste Resources Division - Public Works Department The City of Chattanooga is renewing the second (2nd) and final contract renewal option for twelve (12) months. There were eight (8) direct bid solicitations and we received two (2) responses in the publicly advertised bid proceedings.
PO547954 Public Works Department	Blanket Contract Renewal - Valve Actuator Services - Waste Resource Division - Public Works Department	8	2	Industrial Valve Sales & Service, Inc. P.O. Box 1456 Cleveland, TN 37364	Total Estimate $200,000.00 Annually	Waste Resource Division	Blanket Contract Renewal - Valve Actuator Services - Waste Resource Division - Public Works Department The City of Chattanooga is renewing the second (2nd) and final contract renewal option for twelve (12) months. There were eight (8) direct bid solicitations and we received two (2) responses in the publicly advertised bid proceedings.
PO547753 Public Works Department	Blanket Contract Renewal - Raising/Lowering Manhole Services - Waste Resource Division - Public Works Department	8	1	Mayse Construction & Engineering Co. PO Box 23027 Chattanooga, TN 37422	Total Estimate $150,000.00 Annually	Waste Resource Division	Blanket Contract Renewal - Raising/Lowering Manhole Services - Waste Resource Division - Public Works Department. The City of Chattanooga is renewing the second (2nd) and final contract renewal option for twelve (12) months. There were eight (8) direct bid solicitations and we received one (1) response in the publicly advertised bid proceedings.

City of Chattanooga

Mayor Andy Berke

January 7, 2020

Ms. Maura Sullivan
Chief Operating Officer
Purchasing Department
101 East 11th Street
Chattanooga, TN 37402

Subject: 189626 / 305649 – Bottled Water and Filtration System Coolers with Accessories – City Wide – Purchasing Department

Dear Ms. Sullivan:

The Purchasing Department may now seek Council approval to issue a blanket contract for Bottled Water and Filtration System Coolers with Accessories for City Wide usage. The contract will be for twelve (12) months with the option to renew for two (2) additional twelve (12) month terms. The estimated annual expenditure for this contract is not to exceed $40,000.

The invitation to bid was sent to four (4) vendors as well as formally advertised. Bids were received from three (3) vendors as shown below. Bids are retained on file in the Purchasing Office for your review upon request.

Bidders
DS Services of America, Inc. dba Crystal Springs Water Company
Purity Drinking Water
Waterlogic

I recommend awarding the blanket contract for Bottled Water and Filtration System Coolers with Accessories to DS Services of America, Inc. dba Crystal Springs Water Company, 2300 Windy Ridge Pkwy, Ste. 500N, Atlanta, GA 30339. Waterlogic only bid the Bottleless Filtration System Coolers to replace the Bottled Water Coolers. Due to policy, these would not be able to be installed in City Hall because of putting holes in walls to set up the coolers. Consequently, the bid from DS Services of America, Inc dba Crystal Springs Water Company is the best complete and lowest bid meeting all specifications for the City of Chattanooga.

Respectfully yours,

Vickie Haley

Vickie Haley
Interim Director of Purchasing

VH/mlm

Attachments

Southern Natural Spring Water
314 Spears Avenue
Chattanooga, TN 37405

Purity Drinking Water
3017 Calhoun Avenue
Chattanooga, TN 37407

Crystal Springs Water
5959 Shallowford Road
Suite 339
Chattanooga, TN 37421

Coca-Cola Bottling Company United
2111 West Shepherd Road
Chattanooga, TN 37421

Bid Tabulation - Bid 305649 / Req No. 189626
Bottled Water & Filtration System Coolers

Item #	Description	Unit	Qty	DS Services of America, Inc		Waterlogic		Purity Drinking Water, Inc	
				Unit Price	Extended Price	Unit Price	Extended Price	Unit Price	Extended Price
1	Water Cooler (Hot & Cold); to include No Spill Kit, Cup Dispenser, Installation & Maintenance; Monthly Rental	Each	840	$ 1.25	$ 1,050.00	$ 33.00	$ 27,720.00	$ 5.00	$ 4,200.00
2	Water Cooler (Room Temp & Cold); to include No Spill Kit, Cup Dispenser & Installation & Maintennce (41000555); Monthly Rental (for Youth & Family Development)	Each	48	$ 1.25	$ 60.00	$ 33.00	$ 1,584.00	$ 5.00	$ 240.00
3	Bottled Water (5 Gallon Container); Purified, per Month	Each	6,600	$ 5.00	$ 33,000.00	$ -	$ -	$ 7.50	$ 49,500.00
4	Bottled Water (5 Gallon Container); Spring, per Month	Each	576	$ 5.50	$ 3,168.00	$ -	$ -	$ 7.50	$ 4,320.00
5	Cups 5 oz (Cone); 4,000 Cups per Case (200 per sleeve, 20 sleeves per case)	Case	4	$ 75.00	$ 300.00	$ 74.95	$ 299.80	$ 89.95	$ 359.80
6	Cups 7 oz (Flat Bottom); 20 Sleeves per Case (Price per Sleeve)	Each	750	$ 2.79	$ 2,092.50	$ 2.64	$ 1,980.00	$ 3.50	$ 2,625.00
7	Bottle Deposit	Each	1100	$ -	$ -	$ -	$ -	$ 8.00	$ 8,800.00
8	Activated Carbon Filtration System Cooler (Hot & Cold); to include No Spill Kit, Cup Dispenser, Installation & Maintenance; Monthly Rental	Each	24	$ 24.99	$ 599.76	$ 33.00	$ 792.00	$ 59.95	$ 1,438.80
9	Reverse Osmosis Filtration System Cooler (Hot & Cold); to include No Spill Kit, Cup Dispenser, Installation & Maintenance	Each	24	$ 34.99	$ 839.76	$ 33.00	$ 792.00	$ 79.95	$ 1,918.80
10	One Time Set Up, Delivery, and Installation Fee of Bottleless Point fo Use Water Coolers	Each	1			$ 50.00	$ 50.00		
		TOTAL			**$ 41,110.02**		**$ 33,217.80**		**$ 73,402.40**
Contact:				Sharyea Jackson		Adam White		Corey Cutcher	
Location:				2300 Windy Ridge Pkwy., Ste 500N Atlanta, GA 30339		114 Space Park North Goodlettsville, TN 37072		3017 Calhoun Avenue Chattanooga, TN 37407	
				Bottle Deposit is a "No Charge"		Bottle Deposit is a "No Charge"			

COPY

Date: December 3, 2019 Requisition No.: 189626

PURCHASING DEPARTMENT
101 EAST 11TH STREET
CITY HALL
SUITE G13
CHATTANOOGA, TENNESSEE
37402

Request for Bid (RFB) for the City of Chattanooga, Tennessee

Proposals will be received at 101 East 11th Street, Suite G13, Chattanooga, TN 37402 until 2:00 P.M., EST. on December 18, 2019

Requisition / Bid No.: R189626 / 305649
Ordering Dept.: Purchasing Department, City Wide
Buyer & E-mail: Mark McKeel mmckeel@chattanooga.gov

****

Items Being Purchased: Bottled Water & Bottleless Filtration Coolers with Accessories

****

*****REQUEST FOR BIDS MUST BE RECEIVED*****
2:00 P.M., EST on December 18, 2019

****

The City of Chattanooga reserves the right to reject any and/or all proposals, waive any informalities in the proposals received, and to accept any proposal which in its opinion may be for the best interest of the City.

The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color or national origin.

The City's Standard Terms and Conditions may be found on website:
http://www.chattanooga.gov/purchasing/standard-terms-and-conditions

Note: ALL BIDS MUST BE SIGNED
All proposals received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Offeror acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated.

PLEASE PROVIDE THE FOLLOWING INFORMATION:

Company Name: DS Services of America, Inc.
Mailing Address: 2300 Windy Ridge Pkwy Ste 500N
City & Zip Code: Atlanta, GA 30339
Phone/Toll Free No.: 678-486-3503
Fax No.: 678-460-3665
E-Mail Address: Sjackson@dsservices.com
Contact Person: Sharyea Jackson
Company Title: Key Account Manager
Signature:

BID SOLICITATION

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

BID OPENING DATE AND TIME:
18-DEC-19 at 2:00 PM
BID NUMBER: 305649

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS
Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

VENDOR
RFQ

MAIL TO
City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total

Requisition / Bid No.: 189626 / 305649
Ordering Dept.: Purchasing Department, Mayor's Office
Buyer: Mark McKeel
Phone No.: 423-643-7236

Items Being Purchased: Bottled Water & Bottleless Filtration Coolers with Accessories

ATTACHMENTS:
1. Locations of Current Bottled Water Dispensers (1 page)
2. Affirmative Action Plan (2 pages)
3. Iran Divestment Act Disclosure (1 page)
4. No Contact / No Advocacy Notice (1 page)

City of Chattanooga (COC) Terms and Conditions posted on Website
http://www.chattanooga.gov/purchasing/standard-terms-and-conditions
If you can't download call buyer for a copy

This Shall Be A Twelve (12) Month Blanket Contract To Supply Bottled Water and Bottleless Filtration Coolers with Accessories City Wide.

The Contract Term May Be Renewed For An Additional Two (2) Twelve (12) Month Terms Under The Same Terms And Conditions By Mutual Agreement. The City Of Chattanooga And The Contractor May Bilaterally Extend The Contract By Providing Written Confirmation Of Agreement By Both Parties At Least 30 Days Prior To The Contract's Current Expiration Date Into Any Successive Term As Provided Herein.

QUANTITIES ARE ESTIMATES ONLY THE CITY OF CHATTANOOGA SHALL GUARANTEE NO MINIMUM OR MAXIMUM AMOUNT PURCHASED DURING THE LIFETIME OF THE CONTRACT.

*** BID MUST BE RECEIVED NO LATER THAN ***
*** 2:00 PM EST ON DECEMBER 18, 2019 ***

PLEASE SUBMIT BIDS IN DUPLICATE INDICATING
BID NUMBER (305649) ON OUTSIDE PACKAGING

PLEASE DO NOT EMAIL BIDS

**** Vendor Shall Hold Prices Firm for First (1st) Year of Contract ****

Price Escalation Clause:
If as a result of a general change in prices or discounts, the Contractor has changed prices to all of its customers, the price under this contract may be adjusted accordingly. Contractor may be requested to show proof of alleged price changes prior to approval of any price adjustments.

NOTE:
ALL BIDS MUST BE SIGNED
All bids received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Bidder acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated.

Any manufacturer's names, trade names, brand names, or catalog numbers used in the

BID SOLICITATION

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

BID OPENING DATE AND TIME:
18-DEC-19 at 2:00 PM
BID NUMBER: 305649

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS
Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

VENDOR
RFQ

MAIL TO
City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total

specifications are for the purpose of describing and establishing general quality levels. Such references ar enot intended to be restrictive. Bids will be considered for any brand which meets or exceeds the quality of the specifications listed for any item.

The City of Chattanooga reserves the right to reject any and/or all bids, waive any informalities in the bids received, and to accept any bid which in its opinion may be for the best interest of the city,

The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color, or national origin.

**** NOTE ****
PLEASE PROVIDE US WITH THE FOLLOWING INFORMATION:

Company Name DS Services of America, Inc.
Address 2300 Windy Ridge Pkwy Ste 500N
Atlanta, GA 30339
Phone/Toll-Free No. 678-486-3503
Fax No 678-460-3665
eMail Address Sjackson@dsservices.com
Contact Person's Name Sharyea Jackson
Estimated Delivery 10 days ARO
Minority-Owned Business_____ Small Business_____ Veteran_____
Minority Woman-Owned Business_____Disabled Veteran_____
Woman-Owned Business_____

**** ALL ITEMS MUST BE QUOTED F.O.B. DESTINATION ****

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

The City is Exempt from all Federal and State Tax.
Bids will be received at the above mentioned address.

TERMS OF PAYMENT: Net 30

TELEPHONE NUMBER: 678-486-3503

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein.

COMPANY: DS Services of America, Inc.

SIGNATURE: _____

NAME AND TITLE: Jeffrey Manzella, VP & General Counsel

BID SOLICITATION

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

BID OPENING DATE AND TIME:
18-DEC-19 at 2:00 PM
BID NUMBER: 305649

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS
Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

VENDOR
RFQ

MAIL TO
City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
1	Water Cooler (Hot & Cold); To Include No Spill Kit, Cup Dispenser, Installation & Maintenance; Monthly Rental	70	Each	1.25	87.50
2	Water Cooler (Room Temp & Cold); To Include No Spill Kit, Cup Dispenser, Installation & Maintenance (41000555); Monthly Rental (For Youth & Family Development)	4	Each	1.25	5.00
3	Bottled Water (5 Gallon Container); Purified, per Month	550	Each	5.00	2,750.00
4	Bottled Water (5 Gallon Container); Spring, per Month	48	Each	5.50	264.00
5	5oz 200ct per sleeve/20 slv per case Cups (Cone); ~~5,000~~ 4,000 Cups per Case	4	Case	75.00	300.00
6	Cups, 7 oz. (Flat Bottom); 20 Sleeves per Case (Price per Sleeve)	750	Each	2.79	2,092.50
7	Bottle Deposit	1100	Each	0.00	0.00
8	Activated Carbon Filtration System Cooler (Hot & Cold); To Include No Spill Kit, Cup Dispenser, Installation & Maintenance, Monthly Rental	2	Each	24.99	49.98
9	Reverse Osmosis Filtration System Cooler (Hot & Cold); To Include No Spill Kit, Cup Dispenser, Installation & Maintenance, Monthly Rental	2	Each	34.99	69.98

* 5oz cone cups - $3.75 per slv.

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

The City Is Exempt from all Federal and State Tax.
Bids will be received at the above mentioned address.

TERMS OF PAYMENT: Net 30

TELEPHONE NUMBER: 678-486-3503

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein.

COMPANY: DS Services of America, Inc.

SIGNATURE: [signature]

NAME AND TITLE: Jeffrey Marzella, VP & General Counsel

List of Locations with Number of Coolers and Bottles per Month

Customer Name	No. of Coolers	Bottles per Month	Cups; Flat or Cone	Address	City	ST	Zip	Location Name	Alternate Name	Cont First Name	Cont Last Name
CITY OF CHATTANOOGA	3	22 (Spring)	Flat - 10 cases per month	3102 ELMENDORF CIR	CHATTANOOGA	TN	37406	FLEET MTNCE DIV II	FLEET MTNCE DIV II	RACHEL	HAINES
CITY OF CHATTANOOGA	2	20 (Purified)	Flat - 1 case per month	1005 E 12TH ST	CHATTANOOGA	TN	37403	FLEET MTNCE DIV I	FLEET MTNCE DIV I	REGINA	WILSON
CITY OF CHATTANOOGA	1	5 (Purified)	Flat - 1 case per month	1009 E 12TH ST	CHATTANOOGA	TN	37403	SERVICE STATION	FLEET MTNCE DIV I	REGINA	WILSON
CITY OF CHATTANOOGA	1	6 (Purified)	Flat - 2 cases per year	910 WISDOM ST	CHATTANOOGA	TN	37406	FIRE DEPT ADMIN	FIRE DEPT ADMIN	TERRI	WOMAC
CITY OF CHATTANOOGA	1	6 (Purified)	Flat - 2 cases per year	3200 AMNICOLA HWY	CHATTANOOGA	TN	37406	FIRE DEPT TRAINING	FIRE DEPT TRAINING	TERRI	WOMAC
CITY OF CHATTANOOGA	1	6 (Purified)	Flat - 2 cases per year	3211 BELLE ARBOR AVE	CHATTANOOGA	TN	37406	FIRE DEPT RESOURCE	FIRE DEPT RESOURCE	VANESSA	MEYER
CITY OF CHATTANOOGA	1	3 (Purified)	Flat - 2 cases per month	3204 AMNICOLA HWY	CHATTANOOGA	TN	37406	PROPERTY DEPT	POLICE ANNEX	ALICE	TURNER
CITY OF CHATTANOOGA	1	8 (Purified)	Flat - 2 cases per month	3204 AMNICOLA HWY	CHATTANOOGA	TN	37406	NARCOTICS	POLICE ANNEX	ALICE	TURNER
CITY OF CHATTANOOGA	2	8 (Purified)	Flat - 2 cases per month	3204 AMNICOLA HWY	CHATTANOOGA	TN	37406	ORGANIZED CRIME	POLICE ANNEX	ALICE	TURNER
CITY OF CHATTANOOGA	1	10 (Purified)	Flat - 3 cases per month	3410 AMNICOLA HWY	CHATTANOOGA	TN	37406	CHIEF'S HALL	POLICE SERVICE CNTR	SUE	POOLE
CITY OF CHATTANOOGA	1	5 (Purified)	Flat - 3 cases per month	3410 AMNICOLA HWY	CHATTANOOGA	TN	37406	PAWN	POLICE SERVICE CNTR	SUE	POOLE
CITY OF CHATTANOOGA	1	3 (Purified)	Flat - 3 cases per month	3410 AMNICOLA HWY	CHATTANOOGA	TN	37406	BUDGET/FINANCE	POLICE SERVICE CNTR	SUE	POOLE
CITY OF CHATTANOOGA	1	3 (Purified)	Flat - 3 cases per month	3410 AMNICOLA HWY	CHATTANOOGA	TN	37406	AFIS	POLICE SERVICE CNTR	SUE	POOLE
CITY OF CHATTANOOGA	1	4 (Purified)	Flat - 3 cases per month	3410 AMNICOLA HWY	CHATTANOOGA	TN	37406	HOMICIDE	POLICE SERVICE CNTR	SUE	POOLE
CITY OF CHATTANOOGA	1	17 (Purified)	Flat - 3 cases per month	3410 AMNICOLA HWY	CHATTANOOGA	TN	37406	CRIME SCENE	POLICE SERVICE CNTR	SUE	POOLE
CITY OF CHATTANOOGA	1	4 (Purified)	Flat - 3 cases per month	3410 AMNICOLA HWY	CHATTANOOGA	TN	37406	ROBBERY UNIT	POLICE SERVICE CNTR	SUE	POOLE
CITY OF CHATTANOOGA	1	3 (Purified)	Flat - 3 cases per month	3410 AMNICOLA HWY	CHATTANOOGA	TN	37406	RECORDS MANAGEMENT 1ST FL	POLICE SERVICE CNTR	SUE	POOLE
CITY OF CHATTANOOGA	1	8 (Purified)	Flat - 1 case per month	700 E 11TH STREET	CHATTANOOGA	TN	37406	POLICE-11TH STREET PRECINCT	POLICE-11TH STREET PRECINCT	MARCY	KEITH
CITY OF CHATTANOOGA	1	4 (Purified)	Flat - 1 case per month	100 E 11TH STREET STE 302	CHATTANOOGA	TN	37406	POLICE-INTERNAL AFFAIRS	POLICE-INTERNAL AFFAIRS	REGINA	GREER
CITY OF CHATTANOOGA	1	8 (Purified)	Flat - 1 case per month	5705 UPTAIN ROAD	CHATTANOOGA	TN	37406	FAMILY JUSTICE CENTER	FAMILY JUSTICE CENTER-SPECIAL VICTIMS	PATT	GIBSON
CITY OF CHATTANOOGA	1	5 (Purified)	Flat - 1 case per month	100 EAST 11TH STREET STE 104	CHATTANOOGA	TN	37402	311 CALL CENTER	311 CALL CENTER	DEREK	FRIZZELL
CITY OF CHATTANOOGA	1	5 (Purified)	Flat - 1 case per year	200 RIVER ST	CHATTANOOGA	TN	37405	OUTDOOR CHATTANOOGA	OUTDOOR CHATTANOOGA-ECD	PHILIP	GRYMES
CITY OF CHATTANOOGA	1	11 (Purified)	Flat - 20 cases per year	1254 E 3RD ST	CHATTANOOGA	TN	37404	CHATTANOOGA FITNESS CTR	CHATTANOOGA FITNESS CTR	ANNIE	TUCKER
CITY OF CHATTANOOGA	1	8 (Purified)	Cone - 5 cases per year	150 RIVER ST	CHATTANOOGA	TN	37405	COOLIDGE PARK	PARKS DIVISION	JAY	HAWKINS
CITY OF CHATTANOOGA	1	8 (Purified)	Flat - 1 case per year	1503 MIDDLE ST	CHATTANOOGA	TN	37408	RIVERWALK EXTENSION - PARKS OFC	PARKS DIVISION	LACHANDA	DAVIS
CITY OF CHATTANOOGA	1	4 (Purified)	Flat - 2 cases per year	6125 PRESERVATION DR STE 140	CHATTANOOGA	TN	37416	AIR POLLUTION CONTROL	AIR POLLUTION CONTROL	AMBER	BOLES
CITY OF CHATTANOOGA	1	8 (Purified)	Flat - 2 cases per year	1010 E 11TH ST	CHATTANOOGA	TN	37403	TRAFFIC OPERATIONS	TRAFFIC OPERATIONS-CDOT	VANESSA	HOLLOWAY
CITY OF CHATTANOOGA	1	5 (Purified)	Flat - 2 cases per year	600 MARKET ST Room 104	CHATTANOOGA	TN	37402	CITY COURT CLERK	CITY COURT CLERK	JANET	QUILLS
CITY OF CHATTANOOGA	1	3 (Purified)	Flat - 1 cases per year	600 MARKET ST Room 104	CHATTANOOGA	TN	37402	CITY COURT JUDGE	CITY COURT JUDGE	STACIE	PEARSON
CITY OF CHATTANOOGA	2	20 (Purified)	Flat - 2 cases per month	1250 MARKET ST STE 1000	CHATTANOOGA	TN	37402	LAND DEVELOPMENT	LAND DEVELOPMENT OFFICE	MARY	MCCARTHY
CITY OF CHATTANOOGA	2	30 (Purified)	Flat - 1 case per year	1250 MARKET ST STE 2000	CHATTANOOGA	TN	37402	REGIONAL PLANNING	REGIONAL PLANNING	LEE	LEDFORD
CITY OF CHATTANOOGA	2	72 (Purified)	Flat - 6 cases per year	1250 MARKET ST STE 2100	CHATTANOOGA	TN	37402	PUBLIC WORKS	PUBLIC WORKS	SANTHA	SONE
CITY OF CHATTANOOGA	2	72 (Purified)	Flat - 6 cases per year	1250 MARKET ST STE 3030	CHATTANOOGA	TN	37402	TRAFFIC ENGINEERING	TRAFFIC ENGINEERING-CDOT	AMIE	MENDES
CITY OF CHATTANOOGA	2	8 (Purified)	Flat - 1 case per year	501 WEST 12th STREET	CHATTANOOGA	TN	37402	YOUTH & FAMILY DEVELOPMENT	YFD	JANICE	WILLIAMSON
CITY OF CHATTANOOGA	2	8 (Purified)	Flat - 1 case per year	501 WEST 12th STREET	CHATTANOOGA	TN	37402	YOUTH & FAMILY DEVELOPMENT	YFD	JANICE	WILLIAMSON
CITY OF CHATTANOOGA	1	18 (May-Sept only) (Soring)	Flat - 1 Case per month	1005 MCCALLIE AVENUE	CHATTANOOGA	TN	37404	AQUATICS	WARNER PARK POOL	PEGGY	GRALL
CITY OF CHATTANOOGA	1	8 (June-July only) (Spring)	Flat - 1 Case per month	600 N ORCHARD KNOB	CHATTANOOGA	TN	37404	AQUATICS	CARVER POOL	PEGGY	GRALL
CITY OF CHATTANOOGA	1	6 (Purified)	Flat - 2 cases per year	620 E 11TH ST	CHATTANOOGA	TN	37403	KITCHEN	WELLADVANTAGE KITCHEN	JAMES	BILOTTA
CITY OF CHATTANOOGA	1	6 (Purified)	Flat - 2 cases per year	620 E 11TH ST	CHATTANOOGA	TN	37403	DOWNTOWN CLINIC	WELLADVANTAGE CLINIC	JAMES	BILOTTA
CITY OF CHATTANOOGA	1	7 (Purified)	Flat - 2 cases per year	101 E 11TH ST	CHATTANOOGA	TN	37402	2ND FL HR DEPARTMENT	HUMAN RESOURCES	JAMES	BILOTTA
CITY OF CHATTANOOGA	1	6 (Purified)	Flat - 2 cases per year	100 E 11TH ST STE 301	CHATTANOOGA	TN	37402	3RD FL SUITE 301 HR BENEFITS	HUMAN RESOURCES BENEFITS	JAMES	BILOTTA
CITY OF CHATTANOOGA	1	5 (Purified)	Flat - 1 case per year	100 E 11TH ST	CHATTANOOGA	TN	37402	2ND FLR STE 200 CITY ATTORNEY DEPT	CITY ATTORNEY	VANESSA	MEACHEN
CITY OF CHATTANOOGA	1	6 (Purified)	Flat - 2 cases per year	455 MOCCASIN BEND RD/ADMIN BLDG	CHATTANOOGA	TN	37405	ADMIN BLDG	MOCCASIN BEND TREATMENT PLANT	SHELLY	GRIBBLE
CITY OF CHATTANOOGA	2	12 (Purified)	Flat - 2 cases per year	455 MOCCASIN BEND RD	CHATTANOOGA	TN	37405	OPERATION AND CONTROL	MOCCASIN BEND TREATMENT PLANT	MATT	SCHIESSER
CITY OF CHATTANOOGA	1	4 (Purified)	Flat - 2 cases per year	455 MOCCASIN BEND RD	CHATTANOOGA	TN	37405	FILTER PRESS BLDG	MOCCASIN BEND TREATMENT PLANT	MARTY	KNIGHT
CITY OF CHATTANOOGA	2	12 (Purified)	Flat - 2 cases per year	455 MOCCASIN BEND RD	CHATTANOOGA	TN	37405	WAREHOUSE	MOCCASIN BEND TREATMENT PLANT	DOUG	PELL
CITY OF CHATTANOOGA	1	4 (Purified)	Flat - 2 cases per year	455 MOCCASIN BEND RD	CHATTANOOGA	TN	37405	PRE-TREATMENT/IMI BLDG	MOCCASIN BEND TREATMENT PLANT	DIANE	HALL
CITY OF CHATTANOOGA	1	6 (Purified)	Flat - 2 cases per year	455 MOCCASIN BEND RD	CHATTANOOGA	TN	37405	PLANT MAINTENANCE	MOCCASIN BEND TREATMENT PLANT	AMY	FAMIGLIETTA
CITY OF CHATTANOOGA	1	6 (Purified)	Flat - 2 cases per year	455 MOCCASIN BEND RD	CHATTANOOGA	TN	37405	SEWER MAINTENANCE	MOCCASIN BEND TREATMENT PLANT	CAMELIA	KING
CITY OF CHATTANOOGA	1	6 (Purified)	Flat - 2 cases per year	454 MOCCASIN BEND RD	CHATTANOOGA	TN	37404	ELECTRIC SHOP/MAINT. DEPT	MOCCASIN BEND TREATMENT PLANT	DON	DOUGLAS
CITY OF CHATTANOOGA	1	10 (Purified)	None	1001 BROAD STREET	CHATTANOOGA	TN	37402	3RD FLOOR BREAKROOM MAIN LIBRARY	3RD FLOOR BREAKROOM MAIN LIBRARY	NATALIE	PHILLIPS
CITY OF CHATTANOOGA	1	5 (Purified)	None	5705 MARLIN ROAD, SUITE 1500	CHATTANOOGA	TN	37411	EASTGATE BRANCH LIBRARY	EASTGATE BRANCH LIBRARY	BARBARA	KREISCHER
CITY OF CHATTANOOGA	1	5 (Purified)	None	278 NORTHGATE MALL DRIVE	CHATTANOOGA	TN	37415	NORTHGATE BRANCH LIBRARY	NORTHGATE BRANCH LIBRARY	ANDREA	BARTLETT
CITY OF CHATTANOOGA	1	2 (Purified)	None	925 WEST 25TH STREET	CHATTANOOGA	TN	37410	SOUTH CHATTANOOGA BRANCH LIBRARY	SOUTH CHATTANOOGA BRANCH LIBRARY	JENNIFER	THOMPSON
CITY OF CHATTANOOGA	1	3 (Purified)	Flat - 1 case per year	101 E 11TH ST	CHATTANOOGA	TN	37402	1ST FL TREASURY DEPARTMENT	TREASURY DEPARTMENT	ROBERTA	LONG

Affirmative Action Plan

The City of Chattanooga is an equal opportunity employer and during the performance of this Contract, the Contractor agrees to abide by the equal opportunity goals of the City of Chattanooga as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or handicap The Contractor will take affirmative action to ensure that applicants are employed, and the employees are treated during employment without regard to their race, color, religion, sex, national origin, or handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay, or other forms of compensation, and selection for training, including apprenticeship The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.

2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or handicap.

3. The Contractor will send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

4. In all construction contracts or subcontracts in excess of $10,000 to be performed for the City of Chattanooga, any contractor and/or subcontractor is further required to file in duplicate within ten (10) days of being notified that it is the lowest responsible bidder, an affirmative action plan with the EEO Director of the City of Chattanooga. This plan shall state the Contractor's goals for minority and women utilization as a percentage of the work force on this project.

5. This Plan or any attachments thereto shall further provide a list of all employees annotated by job function, race, and sex who are expected to be utilized on this project. This plan or attachment thereto shall further describe the methods by which the Contractor or Subcontractor will utilize to make good faith efforts at providing employment opportunities for minorities and women.

   During the term of this contract, the Contractor upon request of the City, will make available for inspection by the City of Chattanooga copies of payroll records, personnel documents and similar records or documents that may be used to verify the Contractor's compliance with these Equal Opportunity provisions.

6. The Contractor will include the portion of the sentence immediately preceding paragraph 1 and the provisions of paragraphs 1 through 6 in every subcontract so that such provisions will be requested of each subcontractor. The Contractor agrees to notify the City of Chattanooga of any subcontractor who refuses or fails to comply with these equal opportunity provisions. Any failure or refusal to comply with these provisions the Contractor and/or Subcontractor shall be a breech of this contract.

(Signature of Contractor)

VP & General Counsel - DS Services of America, Inc.
(Title and Name of ~~Construction~~ Company)

12/11/19
(Date)

Chapter No. 817 (HB0261/SB0377). "Iran Divestment Act" enacted.
Vendor Disclosure and Acknowledgement

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to § 12-12-106.

(SIGNED) _____

(PRINTED NAME) Jeffrey Manzella

(BUSINESS NAME) DS Services of America, Inc.

(DATE) 12/11/19

For further information, please see website:

https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List_of_persons_pursuant_to_Tenn._Code_Ann._12-12-106,_Iran_Divestment_Act-July.pdf

No Contact/No Advocacy
Notice Receipt

City of Chattanooga
Purchasing Division

For Submission with Quote Responses:

Jeffrey Manzella (Vendor Agent name), states that:

(1) He/She is the owner, partner, officer, representative, or agent of DS Services of America, Inc. (Business name), the Submitter of the attached sealed solicitation response to Solicitation # 305649, and said Business has taken notice, and will abide by the following No Contact and No Advocacy clauses:

NO CONTACT POLICY: After the posting of this solicitation, a potential submitter is prohibited from directly or indirectly contacting any City of Chattanooga representative concerning the subject matter of this solicitation, unless such contact is made with the Purchasing Division.

NO ADVOCATING POLICY: To ensure the integrity of the review and evaluation process, companies and/or individuals submitting sealed solicitation responses, as well as those persons and/or companies formally/informally representing such submitters, may not directly or indirectly lobby or advocate to any City of Chattanooga representative.

Any business entity and/or individual that does not comply with the No Contact and No Advocating policies may be subject to the rejection or disqualification of its solicitation response from consideration.

Submitter Signature: _____ Printed Name: Jeffrey Manzella

Title: VP & General Counsel

Date: 12/11/19

DS SERVICES®

America's Water, Coffee & Tea Service Company

2300 Windy Ridge Parkway
Suite 500N
Atlanta, GA 30339
(770) 933-1400

DS Services of America, Inc. – Exceptions Memo

The following are the exceptions or clarifications taken by DS Services of America, Inc. ("DS Services") in connection with the Purchasing Department 101 East 11th Street, City Hall Suite G13 Chattanooga, Tennessee for Bottled Water and Bottleless Filtration Coolers with Accessories issued by Mark McKeel.

REQUISITION / BID NO.: R189626 / 305649
DUE DATE: Friday December 18, 2019 at 2:00 P.M. (EST)

City of Chattanooga Purchase Order Standard Terms and Conditions:
7. INDEMNIFICATION: Except where such claims arise out of the City's negligence acts or omission to act.

8. INSURANCE: DS Services cannot add primary and noncontributory to the auto. Please delete (d) in its entirety ~~Professional Liability Insurance, with a limit of $1,000,000 for each claim and aggregate.~~

Affirmative Action Plan:
DS Services local office does not have an Affirmative Action Policy due to the size of such a small facility; however, DS Services corporate headquarters does have the attached Affirmative Action Plan.

CITY OF CHATTANOOGA

Direct all invoices to:
City of Chattanooga
Attn: Accounts Payable
101 E. 11th Street
Chattanooga, TN 37402

PURCHASING OFFICE
101 E. 11th Street, Suite G13
Chattanooga, TN 37402
Phone: 423-643-7230

City of Chattanooga Purchase Order Standard Terms and Conditions

1. **ACCEPTANCE-AGREEMENT.** Contractor's commencement of work on the goods/non-professional services subject to the purchase order or shipment/performance of those goods/non-professional services, whichever occurs first, is considered an effective mode of Contractor's acceptance of this purchase order. Any acceptance of the purchase order is limited to acceptance of the express terms contained on the face of the purchase order and these terms and conditions. Any proposal for additional or different terms or any attempt by Contractor to vary in any degree any of the terms of this offer in Contractor's acceptance is objected to and rejected, but any proposals do not operate as a rejection of this offer unless the variances are in the terms of the description, quantity, price or delivery schedule of the goods/non-professional services, but are considered a material alteration, and this offer will be considered accepted by Contractor without additional or different terms. Additional or different terms or any attempt by Contractor to vary in any degree any of the terms of this purchase order are considered material and are objected to and rejected, but the purchase order does not operate as a rejection of the Contractor's offer unless it contains variances in the terms of the description, quantity, price or delivery schedule of the goods/non-professional services.

2. **GOVERNING LAW.** This Agreement shall be governed by the laws of the State of Tennessee and the Codes of the City of Chattanooga ("City").

3. **COMPENSATION AND PAYMENT TERMS.** For the completion of the Work, City shall pay Contractor the contract sum set forth in the purchase order. Payments may be made in amounts which are consistent with percentage of goods/non-professional services completed and invoiced by the Contractor as set forth in the purchase order.

   The City's delivered payment terms are payment within thirty (30) days except where the law provides otherwise. Payment may be sooner where cash discounts are offered for early payment, however, cash discounts offered will not be considered in determining lowest bidder. In no event will payment be made prior to receipt of an original invoice containing invoice and purchase order numbers and receipt of purchased item(s). The City is not liable for delays in payment caused by failure of the Contractor to send invoice to the address referenced herein.

4. **INSPECTION/TESTING.** Payment for the goods delivered does not constitute acceptance of the goods. City has the right to inspect the goods and to reject any or all of the goods which are in City's judgment defective or nonconforming. Goods rejected and goods supplied in excess of quantities called for may be returned to Contractor at its expense and in addition to City's other rights. City may charge Contractor all expenses of unpacking, examining, repacking and reshipping those goods. In the event City receives goods whose defects or nonconformity is not apparent on examination, City reserves the right to require replacement, as well as payment of damages. Nothing contained in this purchase order will relieve in any way the Contractor from the obligation of testing, inspection and quality control.

5. **PRICE WARRANTY.** Contractor warrants that the prices for the goods or non-professional services sold City are not less favorable than those currently extended to any other customer for the same or similar goods or non-professional services in similar quantities. In the event Contractor reduces its price for the goods or

non-professional services during the term of this purchase order, Contractor agrees to reduce the prices charged to City correspondingly. Contractor warrants that prices shown on this purchase order are complete, and no additional charges of any type will be added without City's express written consent. Any additional charges include, but are not limited to, shipping, packaging, labeling, custom duties, taxes, storage, insurance, boxing, crating.

6. **STANDARD OF CARE.** Contractor shall exercise the same degree of care, skill, and diligence in the performance of services as is ordinarily possessed and exercised by a professional Contractor under similar circumstances in the same area of practice. Contractor makes no warranty or guarantee, either expressed or implied, as part of this agreement.

7. **INDEMNIFICATION.** Contractor must defend, indemnify and hold harmless the City against all damages, claims or liabilities and expenses (including attorney's fees) arising out of or resulting in any way from any defect in the goods or services purchased, or from any act or omission of Contractor, its agents, employees or subcontractors. Additionally, Contractor shall defend, indemnify and hold harmless City from and against any and all Third Party claims and liabilities (including, without limitation, reasonable attorneys' fees and costs), regardless of the form of action, arising out of or in connection with a claim that the Services or Software, when used within the scope of this Agreement, infringes, violates or misappropriates a valid third party patent, copyright or other proprietary right, provided that Contractor is notified promptly in writing of the action and Contractor is given the option, at its expense, to control the action and all requested reasonable assistance to defend the same.

8. **INSURANCE.** Contractor shall purchase and maintain during the life of this Agreement, insurance coverage which will satisfactorily insure Contractor against claims and liabilities which arise because of the execution of this Agreement, with the minimum insurance coverage as follows:

   a. **Commercial General Liability Insurance**, with a limit of $1,000,000 for each occurrence and $2,000,000 in the general aggregate.

   b. **Automobile Liability Insurance**, with a limit of $1,000,000 for each accident, combined single limit for bodily injury and property damage.

   c. **Worker's Compensation Insurance and Employer's Liability Insurance**, in accordance with statutory requirements, with a limit of $500,000 for each accident.

   d. **Professional Liability Insurance**, with a limit of $1,000,000 for each claim and aggregate.

   Contractor shall not commence work on the goods/non-professional services until a Certificate of Insurance has been submitted to the City showing proof that Contractor has obtained the necessary insurance coverage. If any of the above cited policies expire during the life of this Agreement, it is the Contractor's responsibility to forward renewal Certificates within ten (10) days after the renewal date containing all the aforementioned insurance provisions. Certificates must specifically cite the following provisions:

   i. City of Chattanooga, its agents, representatives, officers, directors, officials and employees must be named an Additional Insured under the following policies:

      a) Commercial General Liability
      b) Auto Liability

   ii. Contractor's insurance must be primary insurance as respects performance of subject contract.

iii. All policies, expect Professional Liability Insurance, if applicable, waives rights of recovery (subrogation) against City of Chattanooga, its agents, representatives, officers, directors, officials and employees for any claims arising out of work or services performed by Contractor under this Agreement.

9. **LIMITATIONS OF RESPONSIBILITY.** In no event is City liable for anticipated profits or for incidental or consequential damages. City's liability on any claim of any kind for any loss or damage arising out of or in connection with or resulting from this Agreement or from the performance or breach of this Agreement will in no case exceed the unit price allocable to the goods or non-professional services which gives rise to the claim. City is not liable for penalties of any description. Any action resulting from any breach of this Agreement by City as to the goods or non-professional services delivered must be commenced within one (1) year after the cause of action has accrued.

10. **PROPRIETARY INFORMATION-CONFIDENTIALITY-ADVERTISING.** Contactor must consider all information furnished by City to be confidential and not disclose any information to any other person, or use the information itself for any purpose other than performing this Agreement, unless Contractor obtains written permission from City to do so. This paragraph applies to drawings, specifications, or other documents prepared by Contractor for City in connection with this Agreement. Contractor must not advertise or publish the fact that City has contracted to purchase goods from Contractor, nor is any information relating to the order to be disclosed without City's written permission. No commercial, financial or technical information disclosed in any manner or at any time by Contractor to City is to be considered secret or confidential, unless otherwise agreed in writing, and Contractor has no rights against City with respect to this information except any rights as may exist under patent laws. Contractor recognizes that City's employees have no authority to accept any information in confidence.

11. **RECORDS RETENTION AND AUDIT.** The term "Contractor" is used interchangeably to describe signatories to contracts, grants, and agreements with the City and applies to reflect the relationship with the City (Engineer, Contractor, Licensee, Supplier, Vendor, Contractor, Grant Recipient, etc.)

a. All records relating in any manner whatsoever to the Project, or any designated portion thereof, which are in the possession of the Contractor, or any of the Contractor's independent contractors, associates, and/or subcontractors, shall be made available for inspection and copying upon written request to the City. Additionally, said records shall be made available upon request by the City to any state, federal or other regulatory authorities and any such authority may review, inspect and copy such records. Said records include, but are not limited to, all plans, specifications, submittals, correspondence, minutes, memoranda, tape recordings, videos, or other writings or things which document the Project, its design, and its construction. Said records expressly include those documents reflecting the time expended by the Contractor and its personnel to perform the obligations of this Agreement, and the records of expenses incurred by the Contractor in its performance under said Agreement. The Contractor shall maintain and protect these records for no less than **seven (7) years** after the completion of the Project, or for any longer period of time as may be required by applicable law, good professional practice, and upon notice during the pendency of any claims or litigation arising from the Project.

b. The City, or its assigns, may audit all financial and related records (including digital) associated with the terms of the contract or agreement, including timesheets, reimbursable out of pocket expenses, materials, goods and equipment claimed by the Contractor. The City may further audit any of the Contractor's records to conduct performance audits (to identify waste and abuse or to determine efficiency and effectiveness of the contract or agreement), or to identify conflicts of interest.

c. The Contractor shall at all times during the term of the contract or agreement, and for a period of seven (7) years after the end of the contract, keep and maintain records of the work performed

pursuant to this contract or agreement. This shall include proper records of quotations, contracts, correspondence, invoices, vouchers, timesheets, and other documents that support actions taken by the Contractor. Documents shall be maintained by the Contractor, which are necessary to clearly reflect all work and actions taken. All such records shall be maintained in accordance with general accepted accounting principles. The Contractor shall, at its own expense, make such records available for inspection and audit (including copies and extracts of records as required) by the City at all reasonable times and without prior notice.

d. The obligations of this Section shall be explicitly included in any subcontracts or agreements formed between the Contractor and any subcontractors or suppliers of goods or non-professional services to the extent that those subcontracts or agreements relate to fulfillment of the Contractor's obligations to the City.

e. Costs of any audits conducted under the authority of this section and not addressed elsewhere will be borne by the City, unless the audit identifies significant findings that would benefit the City. The Contractor will reimburse the City for the total costs of an audit that identifies significant findings that would benefit the City.

f. This Section shall not be construed to limit, revoke, or abridge any other rights, powers, or obligations relating to audit which the City may have by Federal, State, or Municipal law, whether those rights, powers, or obligations are express or implied.

12. **TERMINATION FOR CONVENIENCE.** City reserves the right to terminate this order or any part of this order at its sole convenience with thirty (30) days written notice. In the event of termination, Contractor must immediately stop all work and immediately cause any of its suppliers or subcontractors to cease any further work. Contractor will be paid a reasonable termination charge consisting of a percentage of the order price reflecting the percentage of the work performed before the notice of termination, plus actual direct costs resulting from termination. Contractor will not be paid for any work done after receipt of the notice of termination, nor for any costs incurred by Contractor's suppliers or subcontractors which Contractor could reasonably have avoided. Contractor must not unreasonably anticipate the requirements of this order.

13. **TERMINATION FOR CAUSE.** City may also cancel this order, or any part of this order, with seven (7) days written notice for cause in the event of any default by Contractor, or if Contractor fails to comply with any of the terms and conditions of this offer. Late deliveries, deliveries of products which are defective or which do not conform to this order, and failure to provide City, upon request, with adequate assurances of future performance are all causes allowing City to cancel this order for cause. In the event of cancellation for cause, City is not liable to Contractor for any amount, and Contractor is liable to City for any and all damages sustained by reason of the default which gave rise to the cancellation. If it should be determined that City has improperly cancelled this contract for a default, the cancellation is considered a termination for convenience.

14. **DISPUTE RESOLUTION.** Claims, disputes, or other matters in question between the parties to this Agreement arising out of or relating to this Agreement, or breach thereof, shall be subject to mediation in Chattanooga, Tennessee, in accordance with the following provisions:

a. The mediation shall be conducted by a mediator mutually acceptable to both parties.

b. The parties agree to share equally in the expense of the mediation.

c. Such mediation may include the Contractor or any other person or entity who may be affected by the subject matter of the dispute.

d. Unless the parties agree otherwise, mediation shall be a condition precedent to the exercise of any legal remedy other than a proceeding seeking an immediate injunction or restraining order to protect the rights of a party pending litigation. Notwithstanding the issuance of an injunction or restraining order, or the refusal of a court to issue such an order, the dispute shall continue to be subject to mediation.

15. **DELAY IN PERFORMANCE.** Neither City nor Contractor shall be considered in default of the Agreement for delays in performance caused by circumstances beyond the reasonable control of the nonconforming party. For purposes of this Agreement, such circumstances include abnormal weather conditions; floods; earthquakes; fire; epidemics; war, riots, or other civil disturbances; sabotage; judicial restraint; discovery of unanticipated hazardous wastes; and inability to procure permits, licenses, or authorizations from any local, state, or federal agency for any of the supplies, materials, accesses, or services required to be provided by either City or Contractor under this Agreement. Should such circumstances occur, the nonconforming party shall, within a reasonable time of being prevented from performing, give written notice to the other party describing the circumstances preventing continued performance and the efforts being made to resume performance of the Agreement. If the Contractor is delayed in the performance of the services for more than three hundred sixty-five (365) calendar days, either by the City or circumstances beyond his control, an equitable adjustment to the contract amount can be made to compensate for additional costs incurred.

For delays in performance by Contractor caused by circumstances which are within its control, such delays shall be documented and presented to the Purchasing Department at the conclusion of Project and acknowledged by both City and Contractor. Completed form shall be retained by City for a period of seven years and reviewed prior to Contractor selection for future City projects. In the event Contractor is delayed in the performance of Services because of delays caused by City, Contractor shall have no claim against City for damages or contract adjustment other than an extension of time.

16. **HAZARDOUS MATERIALS.** Hazardous materials may exist at a site where there is no reason to believe they could or should be present. The City and Contractor agree that the discovery of unanticipated hazardous materials constitutes a changed condition mandating a renegotiation of the scope of work or termination of services. City and Contractor also agree that the discovery of unanticipated hazardous materials may make it necessary for the Contractor to take immediate measures to protect health and safety. City agrees to compensate Contractor for any equipment decontamination or other costs incident to the discovery of unanticipated hazardous materials.

Contractor agrees to notify City when unanticipated hazardous materials or suspected hazardous materials are encountered. City agrees to make any disclosures required by law to the appropriate governing agencies, and agrees to hold Contractor harmless for any and all consequences of disclosures made by Contractor which are required by governing law. In the event the project site is not owned by City, the City agrees to inform the City of the discovery of unanticipated hazardous materials or suspected hazardous materials.

17. **COMMUNICATIONS.** Any notice to the City shall be made in writing to the address specified below:

City of Chattanooga
Attn: Purchasing
101 E. 11th Street, Suite G13
Chattanooga, TN 37402
(423) 643-7230

Nothing contained in this Article shall be construed to restrict the transmission of routine communications between representatives of Contractor and City.

18. **WAIVER.** A waiver by either City or Contractor of any breach of this Agreement shall be in writing. City's failure to insist on performance of any of the terms or conditions of this purchase order or to exercise any right or privilege, or City's waiver of any breach does not waive any other terms, conditions, or privileges, whether of the same or similar type

19. **SEVERABILITY.** The invalidity, illegality, or unenforceability of any provision of this Agreement or the occurrence of any event rendering any portion or provision of this Agreement void shall in no way affect the validity or enforceability of any other portion or provision of this Agreement Any void provision shall be deemed severed from this Agreement, and the balance of this Agreement shall be construed and enforced as if this Agreement did not contain the particular portion or provision held to be void. The parties further agree to amend this Agreement to replace any stricken provision with a valid provision that comes as close as possible to the intent of the stricken provision. The provisions of this Article shall not prevent this entire Agreement from being void should a provision which is of the essence of this Agreement be determined void.

20. **INTEGRATION.** This Agreement represents the entire and integrated agreement between City and Contractor. All prior and contemporaneous communications, representations, and agreements by Contractor, whether oral or written, relating to the subject matter of this Agreement, as set forth in the Purchase Order, are hereby incorporated into and shall become a part of this Agreement.

21. **SUCCESSORS AND ASSIGNS.** City and Contractor each binds itself and its directors, officers, partners, successors, executors, administrators, assigns, and legal representatives to the other party of this Agreement and to the directors, officers, partners, successors, executors, administrators, assigns, and legal representatives of such other party in respect to all provisions of this Agreement.

22. **ASSIGNMENT.** Neither City nor Contractor shall assign any rights or duties under this Agreement without the prior written consent of the other party. Unless otherwise stated in the written consent to an assignment, no assignment will release or discharge the assignor from any obligation under this Agreement. Nothing contained in this Article shall prevent Contractor from employing independent Contractors, associates, and subcontractors to assist in the performance of the Services; however, other agreements to the contrary notwithstanding, in the event Contractor employs independent Contractors, associates, and subcontractors to assist in performance of the Services, Contractor shall be solely responsible for the negligent performance of the independent Contractors, associates, and subcontractors so employed.

23. **THIRD PARTY RIGHTS.** Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than City and Contractor.

24. **RELATIONSHIP OF PARTIES.** Nothing contained herein shall be construed to hold or to make the City a partner, joint venturer, or associate of Contractor, nor shall either party be deemed the agent of the other, it being expressly understood and agreed that the relationship between the parties is and shall at all times remain contractual as provided by the terms and conditions of this Agreement.

25. **NON-DISCLOSURE.** Contractor agrees not to disclose or to permit disclosure of any information designated by the City as confidential, except to the Contractor's employees and independent Contractors, associates, and subcontractors who require such information to perform the services specified in this agreement.

26. **NON-DISCRIMINATION.** Contractor agrees to comply with all federal, state, and local non-discrimination laws and regulations. Contractor agrees not to discriminate against any participant in this Agreement on the basis of race, color, religion, sex, age or national origin. Contractor further agrees to comply with all federal, state and local laws regarding treatment and accommodations for individuals with disabilities.

27. **DRUG FREE WORKFORCE.** Contractor certifies that it will provide a drug-free workplace and agrees to comply with the applicable requirements of the Drug-Free Workplace Act of 1988.

28. **FEDERAL OR STATE FUNDING.** In the event that the Project is funded in whole or in part by Federal or State grants, Contractor agrees to abide by all applicable Federal and State laws, regulations, grant conditions and procedures.

29. **COMPLIANCE WITH LAWS.** The City has entered into this agreement with Contractor relying on is knowledge and expertise to provide the services contracted for. As part of that reliance, Contractor represents that he knows and understands the relevant and applicable federal and state laws that apply to the services provided through this contract, and agrees to comply with these relevant and applicable federal and state laws.

The Contractor understands and acknowledges the applicability to it of the American with Disabilities Act, the Immigration Reform and Control Act of 1986, and the Drug Free Workplace Act of 1988.

ESTIMATE

DS Services of America, Inc.
Maureen Hendrix
2300 Windy Ridge Parkway
Suite 500N
Atlanta, GA 30339

Date:	12/12/2019
Delivery Date:	12/12/2019
Project Name:	2020 Paid Media, DRUM content creation
Project Number:	19-DSS-0142
Project Description:	2020 paid media content creation
Estimate Name:	2020 Paid Media, DRUM content creation - Q1
Estimate Number:	19-DSS-0142*002 Rev: 1

Estimate Description: Estimate for BFG cost to develop 675 pieces of content and 6 ads for the landing pages of the website(s) to be delivered to DRUM for paid media placements (this estimate is for Q1 content only, representative of approximately 169 pieces). Agency fee is for creative services. All creative will be built to client provided specs.

Expenses are to be billed as incurred and not to exceed $1,000 for the year, for creative usage only.

Travel expenses, development and QA of the landing pages/website content are not included estimate and will be estimated as needed incrementally with prior client approval.
Anything additional will require an incremental estimate with client approval.

Labor	**Hours**	**Total**
Account Director/Operations Manager	*15.00*	*$3,000.00*
Associate Director Digital Planning	*3.00*	*$420.00*
Senior Director Digital Planning & Performance	*15.00*	*$4,500.00*
Account Services Subtotal:	***33.00***	***$7,920.00***
Agency Fee	*1.00*	*$28,500.00*
Agency Fee Subtotal:	***1.00***	***$28,500.00***
Project Manager	*5.75*	*$661.25*
Proofreading / Copy Editing	*3.75*	*$318.75*
Production Services Subtotal:	***9.50***	***$980.00***
Group Manager Social Media	*3.50*	*$490.00*
Social Media Manager	*24.50*	*$2,205.00*
Social Media Services Subtotal:	***28.00***	***$2,695.00***
	71.50	*$40,095.00*

Expenses	
Contingency Expenses for Creative Purchases (i.e., music licenses and stock photography)	*$250.00*
	$250.00
Total	**$40,345.00**

Approved By _____ _____

City of Chattanooga

Mayor Andy Berke

January 13, 2020

Mr. Justin Holland
Administrator, Public Works Department
Waste Resources Division
1250 Market Street, Suite 2100
Chattanooga, TN 37402

Subject: 193201 / 305720 Liquid Sodium Hypochlorite – Waste Resources Division, Public Works

Dear Mr. Holland:

The Public Works Department may now seek Council approval to issue a blanket contract for Liquid Sodium Hypochlorite for the Waste Resources Division. The contract will be for twelve (12) months with the option to renew for two (2) additional twelve (12) month terms. The estimated annual expenditure for this contract is $4,250,000.

The invitation to bid was sent out to five (5) vendors as well as formally advertised. Bids were received from three (3) vendors. Bids are retained on file in the Purchasing Office for your review upon request.

I recommend awarding the blanket contract for Sewer Line Cleaning Services to Olin Chlor Alkali Products and Vinyls, 490 Stuart Rd. NE, Cleveland, TN 37312, as the best bid meeting specifications for the City of Chattanooga.

Respectfully yours,

Vickie Haley
Interim Director of Purchasing

VH/ab

Attachments

101 E. 11th Street, Suite G13 • Chattanooga, Tennessee 37402 • Office: (423) 757-5184 • Fax: (423) 643-7244
www.chattanooga.gov

Dycho
412 Meridian St.
Niota, TN 37826

Brenntag Mid-South, Inc.
317 Wauhatchie Pike
Chattanooga, TN 37419

PVS Chemicals, Inc.
10900 Harper Avenue
Detroit, MI 48213

Olin Corporation
PO Box 248
Charleston, TN 37310

GEO Specialty Chemicals, Inc.
739 Independence Pkwy S
Deer Park, TX 77536

Bid Tabulation - 305720

Bid 305720 Liquid Sodium Hypochlorite

Item #	Item	Quantity	Unit	**Olin Chlor Alkali Products & Vinyls** Unit Price	Total Price	**Brenntag Mid-South** Unit Price	Total Price	**Univar Solutions** Unit Price	Total Price
1	Liquid Sodium Hypochlorite	6100000	Gallon	0.694	$ 4,233,400.00	No Bid	No Bid	No Bid	No Bid
		Total			**$4,233,400.00**		**No Bid**		**No Bid**

BID SOLICITATION

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

BID OPENING DATE AND TIME:
08-JAN-20 at 2:00 PM
BID NUMBER: 305720

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

VENDOR
RFQ

MAIL TO
City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total

Requisition No.: 193201
Bid No.: 305720
Ordering Dept.: Waste Resources Division, Public Works
Buyer: Amanda Berkowitz
Email: aberkowitz@chattanooga.gov
Phone No.: (423) 643-7233

Items Being Purchased: Liquid Sodium Hypochlorite

ATTACHMENTS:
Specifications (5 pgs)
Affirmative Action Plan (2 pgs)
Iran Divestment Act (1 pg)
No Contact/No Advocacy Notice Receipt (1 pg)
City of Chattanooga (COC) Terms and Conditions posted on Website
http://www.chattanooga.gov/purchasing/standard-terms-and-conditions
If you can't download call buyer for a copy.

This Shall Be A Twelve (12) Month Blanket Contract To Supply Liquid Sodium Hypochlorite. The Contract Term May Be Renewed For An Additional Two (2) Twelve (12) Month Term Under The Same Terms And Conditions By Mutual Agreement. The City Of Chattanooga And The Contractor May Bilaterally Extend The Contract By Providing Written Confirmation Of Agreement By Both Parties At Least 30 Days Prior To The Contract's Current Expiration Date Into Any Successive Term As Provided Herein.

QUANTITIES ARE ESTIMATES ONLY THE CITY OF CHATTANOOGA SHALL GUARANTEE NO MINIMUM OR MAXIIMUM AMOUNT PURCHASED DURING THE LIFETIME OF THE CONTRACT.

*** BID MUST BE RECEIVED NO LATER THAN ***
*** 2:00 PM EST ON JANUARY 8, 2020 ***

**** Vendor Shall Hold Prices Firm for First (1st) Year of Contract ****
Price Escalation Clause
If as a result of a general change in prices or discounts, the Contractor has changed prices to all of its customers, the price under this contract may be adjusted accordingly. Contractor may be requested to show proof of alleged price changes prior to approval of any price adjustments.

NOTE:
ALL BIDS MUST BE SIGNED
All bids received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Bidder acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated.

Any manufacturer;s names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing general quality levels. Such references ar enot intended to be restrictive. Bids will be considered for any brand which meets or exceeds the quality of the specifications listed for any item.

The City of Chattanooga reserves the right to reject any and/or all bids, waive any informalities in the bids received, and to accept any bid which in its opinion may be for the best interest of the city.

BID SOLICITATION

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

BID OPENING DATE AND TIME:
08-JAN-20 at 2:00 PM
BID NUMBER: 305720

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS
Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

VENDOR
RFQ

MAIL TO
City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total

The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color, or national origin.

**** NOTE ****
PLEASE PROVIDE US WITH THE FOLLOWING INFORMATION:

Company Name Olin Chlor Alkali Products and Vinyls

Address 490 Stuart Road NE
Cleveland, Tennessee 37312

Phone/Toll-Free No. 205-527-3988

Fax No. 423-336-4830

eMail Address Bcoker@olin.com

Contact Person's Name Buddy Coker

Estimated Delivery as requested and as needed.

Minority-Owned Business_____ Small Business_____ Veteran_____

Minority Woman-Owned Business_____Disabled Veteran_____

Woman-Owned Business_____

**** ALL ITEMS MUST BE QUOTED F.O.B. DESTINATION ****

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

The City is Exempt from all Federal and State Tax.
Bids will be received at the above mentioned address.

TERMS OF PAYMENT: Net 30 days

TELEPHONE NUMBER: 205-527-3988

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein.

COMPANY: Olin Chlor Alkali Products and Vinyls

SIGNATURE: [signature]

NAME AND TITLE: LUYS STASKEVICIUS
Marketing Director, Bleach

BID SOLICITATION

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

BID OPENING DATE AND TIME:
08-JAN-20 at 2:00 PM
BID NUMBER: 305720

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS
Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

VENDOR
RFQ

MAIL TO
City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
1	Liquid Sodium Hypochlorite per Specifications *Specific written exceptions are attached hereto.	6100000	Gallon	$0.694 / gal.	$4,233,400

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

The City is Exempt from all Federal and State Tax.
Bids will be received at the above mentioned address.

TERMS OF PAYMENT: Net 30 days

TELEPHONE NUMBER: 205-527-3988

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein.

COMPANY: Olin Chlor Alkali Products and Vinyls

SIGNATURE: [signature]

NAME AND TITLE: Linas Staskevicius
Marketing Director, Bleach

Specific Written Exceptions to Terms and Conditions

City of Chattanooga Bid Number 305720

Bidder: Olin Chlor Alkali Products

After reviewing the specifications, requirements, and terms and conditions **of Bid Number 305720,** Bid Solicitation for Supply and Delivery of Liquid Sodium Hypochlorite for the City of Chattanooga, Olin Chlor Alkali Products ("Olin") states the following written exceptions. Olin's bid is conditioned upon review and mutual agreement of both parties on the requested changes.

1. Specifications, **Page 2 of 6, Section 2.1 Product Description**
   a. **pH range at delivery: we request this range be amended to 11 to 13.9**
   b. **Fe: we request the 0.5mg/L limit be amended to 0.5 mg/kg**
   c. **Ni and** Cu: **we request the 0.05 mg/L limit be amended to 0.1 mg/kg max**
   d. Co: **we request the 0.1** mg/L max be amended to 0.1 mg/kg max
   e. Chlorate: Bleach used for wastewater application typically does not require a chlorate limit and we therefore request that chlorate be removed from the specification entirely. **If a chlorate limit is required, we request the limit be amended to the NSF/ANSI STD 60 limit of 4,270 mg/L @ 12.5wt% Na0C1.**
2. Purchase Order Standard Terms and Conditions, **Page 1, Section 5 Price Warranty**
   a. This provision is unnecessary because the City uses a competitive bid process for their specification requirements to derive the best competitive pricing already. The proposed agreement is **firm for a year at a time and the City can terminate for convenience at any time. We are national in scope and so we request that this condition either be removed entirely or modified to only address cases where another municipal contract price is based on exactly the same timeframe, volume, requirements and conditions of** service in the market in Tennessee.
3. Purchase Order Standard Terms and Conditions, **Page 2, Section 7 Indemnification**
   a. We **request that this provision be amended to state "Contractor must defend, indemnify and hold harmless the City against all damages, claims or liabilities and expenses (including reasonable attorney's fees) to the extent caused by any defect in the goods purchased, or any act** or omission of Contract, it agents, employees or subcontractors; however, Contractor's defense, indemnification and hold harmless obligations shall not **apply to the extent the damages, claims, liabilities, or expenses are caused by the City's or the City's agents', employees' or subcontractors' acts or omissions.**
4. Purchase Order Standard Terms and Conditions, **Page 2, Section 8 Insurance**
   a. **We have an excellent corporate insurance program for our industry that meets all of our chemical customers' needs. Some of the requested coverages in the bid terms are not typical for this type of industry or for** chemical bids. We request the following changes:
      i. **Professional Liability Insurance is not applicable to chemical supply agreements and we do not maintain this coverage. We request this requirement be waived.**

ii. Additional Insured status under Workman's Comp Insurance and Employer's Liability Insurance are not typical for the chemical industry and are not included in our program. We request these requirements be waived.

5. Purchase Order Standard Terms and Conditions, Page 2, Section 9 Limitations of Responsibility

a. We request for this section to be mutual, applying to both City and Contractor. If this is not acceptable, we request the first sentence be revised to state "In no event are City or Contractor liability for anticipated profits or for incidental or consequential damages." We also request the last sentence be revised to state "Any action resulting from any breach of this Agreement by City or Contractor must be commenced within one (1) year after the cause of action has accrued."

6. Affirmative Action Plan, Section 6

a. Section 6 requires the Contractor notify the City of "any claim or investigation by State or Federal agencies as to discrimination." As a policy we are committed to following all local, state and federal laws regarding discrimination, but we request that this Section 6 be removed as being overly broad, and because claims and investigations are not final conclusions that discrimination occurred. In the alternative, if this section cannot be removed, we request it be reworded to state "The Contractor agrees to notify the City of Chattanooga of any claim or investigation by State or Federal agencies as to discrimination with respect to any employee working on the contract with the City."

Olin is the largest producer/supplier of Sodium Hypochlorite in North America and has local bleach production facilities in Charleston, TN, McIntosh, AL, and Augusta, GA. Our bleach is used for Water and Wastewater treatment in large municipalities across the country, including the cities of Atlanta, Chicago and Los Angeles. Olin has every confidence that it can be a reliable supplier to the City of Chattanooga. We have supplied your facility for the last three years.

We have included multiple information in response to your questions in Section 1.2 Bid Proposal. We submit our pricing firm for the first year and option to renew upon mutual agreement. We look forward to mutually agreeing on the few provisions cited above.

Customer Service Contact 24 /7.
Angel Farrow
Customer Service Representative
Chlor-Alkali & Vinyl, U.S. and Canada
The Offices at Park 10 Phase II
16290 Katy Frwy, Ste. 600
Houston, Texas 77094
Direct Office #: (346) 773-3738
Toll Free #: (833) 370-3737 Extension: 5063738
eFax Number #: 1 (800) 776-3725
Email: afarrow@olinbc.com

SPECIFICATIONS FOR SUPPLY AND DELIVERY OF

LIQUID SODIUM HYPOCHLORITE

City of Chattanooga, Tennessee

Moccasin Bend Wastewater Treatment Plant

1.0 GENERAL

1.1 SCOPE OF SERVICES

The scope of services covered by these specifications includes the supply and delivery of Bulk Liquid Sodium Hypochlorite meeting the "Standard for Hypochlorite B-300" latest edition, by American Water Works Association (AWWA) and American National Standards Institute (ANSI), and shall be suitable for use in wastewater treatment. Deliveries shall be made to the Chemical Storage Facility at the Plant. Vendor is completely responsible for unloading the product to the storage facilities. The City will not provide staff, labor, air, electricity, hose or other hook-ups. It is estimated that the quantity could range from 300,000 to 600,000 gallons per month. This estimate is approximate only and it is understood that the Vendor shall supply whatever quantity is requested by the City at the quoted price, whether more or less than the amount estimated. Vendor shall be prepared to provide sufficient trucks, drivers, and product on the schedule required by the City in order to maintain the proper treatment levels at the wastewater treatment plant. Delays in deliveries could result in loss of treatment process to the City and may result in termination of this contract.

1.2 BID PROPOSAL

The following information shall be submitted with all bids:

1. Unit price per gallon (gal) delivered to the Moccasin Bend Wastewater Treatment Plant, 455 Moccasin Bend Road, Chattanooga, Tennessee 37405. The bid price shall include all costs of manufacturing and delivery of liquid sodium hypochlorite to the specified point of unloading, including placement in a specified location.
2. Estimated time required to receive emergency shipment and location of emergency supply; names and phone numbers of persons to contact for emergency shipment or on holidays, weekends, and after hours.
3. Copies of product data sheet and material safety data sheet.
4. Names and location of material producer.
5. Point of shipment.
6. Evidence of quantity support from the producer.

7. Evidence of ability to provide sufficient trucks and drivers in accordance with these specifications, so as to keep the City continuously supplied in liquid sodium hypochlorite as required. Back-up plans for continued shipments shall be submitted with bid.

2.0 PRODUCT

2.1 PRODUCT DESCRIPTION

The product specified herein is described as follows:

Liquid sodium hypochlorite to be supplied shall meet or exceed the specification below, shall meet the requirements of "Standard for Hypochlorite B-300" latest edition, by American Water Works Association (AWWA) and American National Standards Institute (ANSI), and shall be suitable for use in wastewater treatment. Product shall be a clear straw-colored liquid with no visible cloudiness, impurities, or sediment. A certificate of analysis shall be delivered to the Wastewater Treatment Plant Manager (or his delegate) at the job site upon delivery and before off-loading of the material.

Specifications:

Specific Gravity at 20°C	1.175 minimum, 1.26 maximum
Concentration	12.5 % NaOCl by weight minimum
Available Chlorine	1.20 pounds available Cl2/gallon solution minimum
Total Free Alkali (as NaOH)	< 1.5% by weight
Insoluble Matter	< 0.15% by weight
pH range at delivery	11 to 13
Age of Product at Delivery	3 days (72 hours) maximum

Contaminant Concentration Limits:

Iron	<0.5 mg/L
Nickel	<0.05 mg/L
Copper	<0.05 mg/L
Chlorate	<1,500 mg/L
Cobalt	<0.1 mg/L

Sodium hypochlorite should be stored in a dark area where the temperature does not exceed 80^0 F (30^0 C) prior to delivery.

3.0 EXECUTION

3.1 SHIPMENT OF PRODUCT

Shipments of Liquid Sodium Hypochlorite to the Moccasin Bend Wastewater Treatment Plant at 455 Moccasin Bend Road, Chattanooga, Tennessee 37405 shall be in bulk loads delivered by tank trucks. Trucks and tank trailers shall meet and be approved for all D.O.T. specifications, standards, and regulations.

The delivery location at the Plant is within a fenced secured area. Delivery drivers are to follow the City's delivery policy, including the requirement for delivery drivers to sign-in and sign-out at the main entrance. The City reserves the right to have an employee present prior to connection and disconnection at the chemical delivery connection facilities.

Sodium hypochlorite manufacturing and delivery shall comply with US Department of Transportation (DOT) regulations, including CFR Title 49. All solution shall be shipped in suitably lined, thoroughly cleaned tank trucks with trailers that are dedicated to the delivery of sodium hypochlorite only. Containers of hypochlorite solutions are required to be properly marked and labeled as designated by DOT regulations. Because sodium hypochlorite is such a strong oxidizer, containment vessels should be marked accordingly. Hypochlorites shall be labeled in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). Each shipment shall meet any applicable local, state or federal requirements as defined by the US DOT. A Certificate of Analysis shall accompany all shipments, as well as a certified weight ticket.

DOT regulations require a cargo tank to be attended by a qualified person at all times during unloading. The person attending the unloading must be alert and be within 25 feet of the cargo tank. A qualified person is one that has been made aware of the hazards of sodium hypochlorite solutions and the procedures to be followed in an emergency, is authorized to move the cargo tank, and has the means to do so. Drivers shall conform to the requirements of U.S. Transportation Safety Agency, part of the Department of Homeland Security, for licensing and background checks.

Delivery drivers shall utilize all necessary safety equipment as required by DOT, OSHA or other regulations. The trucks shall be self-sufficient with regard to unloading the sodium hypochlorite into the City's storage tanks. Deliveries shall be made to the Chemical Storage Facility at the Plant. The facility includes covered truck unloading area with two unloading stations with 2-inch male cam-lok connection capable of unloading two trucks simultaneously. The City will not provide staff labor, air, electricity, hose or other hook-ups.

3.2 DELIVERY OF PRODUCT

The Vendor shall furnish liquid sodium hypochlorite in the approximate quantity set forth herein, based upon orders from the MBWWTP Liquids Operations staff. Deliveries shall be made within thirty-six (36) hours after receipt of order.

Deliveries shall be made to the Moccasin Bend Wastewater Treatment Plant (455 Moccasin Bend Road, Chattanooga, TN 37405) between the hours of 7:00 a.m. to 4:00 p.m., Monday through Friday unless otherwise requested and coordinated with the Plant. The liquid sodium hypochlorite shall be unloaded and placed at a location as specified by the Plant Manager or Treatment Plant Operator.

All shipments of sodium hypochlorite will be rejected without the following:

1. Bill of Lading
2. Certified analysis indicating sodium hypochlorite
3. Weighmaster's certificate of weight
4. Applicable regulatory documents

Any truck load of Liquid Sodium Hypochlorite not meeting the requirements of these specifications shall be rejected. The Vendor shall still be responsible for providing the product on thirty-six (36) hour notice.

Any delivery of the product not provided within the thirty-six (36) hour delivery period may incur penalties of $1,000.00 per day.

If it is necessary to reject more than four (4) truck loads, it shall be grounds for the termination of this contract.

3.3 UNLOADING OF PRODUCT

Vendor shall provide all hoses and hose connections necessary to connect to the City's filling port and line for unloading into the storage tank(s). All personnel in the unloading area, including Vendor's truck driver and City personnel, must wear protective equipment such as chemical goggles with face shield, rubber gloves, and other requirements as defined by the Material Safety Data Sheet (MSDS).

The Vendor shall submit a written safety plan and spill response plan which must be reviewed and accepted the MBWWTP occupational safety specialist prior to the first delivery.

Vendor shall provide written instructions to the Plant regarding the recommended methods for cleaning up the chemicals in the event of spills. Such instructions shall include any recommended absorbents or chemicals to be used for neutralization, if applicable, and recommended tests to be performed, such as pH, to ascertain the effectiveness of the neutralization. These instructions will be used by wastewater treatment plant personnel in cleaning up small spills associated with leaks in pumps, valves and other appurtenances.

Vendor shall provide one (1) classroom session annually at the Plant site with a minimum of two hours of instruction for the Plant staff concerning manufacture, chemical properties, transport,

safe handling and use of the chemicals being provided by Vendor. Vendor shall provide for all costs associated with this training.

Should a chemical spill or leak result due to negligence, faulty equipment, or inferior packaging on the part of the Vendor or their agents, the Vendor and their agents must be responsible for cleaning the spill or leakage and for bearing any cost incurred due to spill or leakage clean-up. It must be the Vendor's responsibility to affect immediate containment, clean-up, disposal, and restoration activities in accordance with the Plant's requirements and any and all applicable laws and regulations. All material associated with such clean- up operations must be hauled away and lawfully disposed of at no charge to the City. If the spill is NOT cleaned up, the City will hire a certified hazardous material handling company to clean up the spill, and the costs incurred, including any fines or penalties which may be imposed by regulating authorities, will be charged to the Vendor.

Unloading of product shall not be initiated until a City representative is present and approves the start of unloading. Vendor's personnel shall follow all required safety procedures pertaining to connection to and filling of the storage tanks. Any problems with any of the City's equipment, piping, or tanks involved in the unloading process shall be brought to the City's attention immediately. Any claims for damage or demurrage by the Vendor's trucking company will be directed to the Vendor, not the City, since the City has no contractual obligation with the trucking company. It will be the responsibility of the Vendor to make such claims to the City. The Vendor's trucking company shall not dismantle or adjust any of the City's equipment, piping, or tanks without permission of the City representative.

City will perform random sampling as necessary to verify that the product meets the requirements as specified.

Affirmative Action Plan

The City of Chattanooga is an equal opportunity employer and during the performance of this Contract, the Contractor agrees to abide by the equal opportunity goals of the City of Chattanooga as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or handicap. The Contractor will take affirmative action to ensure that applicants are employed, and the employees are treated during employment without regard to their race, color, religion, sex, national origin, or handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay, or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or handicap.
3. The Contractor will send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. During the term of this contract the following non-discriminatory hiring practices shall be employed to provide employment opportunities for minorities and women:
    a. All help wanted ads placed in newspapers or other publications shall contain the phrase "Equal Employment Opportunity Employer."
    b. Seek and maintain contracts with minority groups and human relations organizations as available.

c. Encourage present employees to refer qualified minority group and female applicants for employment opportunities

d. Use only recruitment sources which state in writing that they practice equal opportunity. Advise all recruitment sources that qualified minority group members and women will be sought for consideration for all positions when vacancies occur.

5. Minority statistics are subject to audit by City of Chattanooga staff or other governmental agency.

6. The Contractor agrees to notify the City of Chattanooga of any claim or investigation by State or Federal agencies as to discrimination.

(Signature of Contractor)

Marketing Director, Bleach
Olin Chlor Alkali Products & Vinyls

(Title and Name of Company)

January 7, 2020

(Date)

Chapter No. 817 (HB0261/SB0377).
"Iran Divestment Act" enacted.
Vendor Disclosure and Acknowledgement

By submission of this bid, each proposer and each person signing on behalf of any proposer certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each proposer is not on the list created pursuant to § 12-12-106.

(SIGNED) [signature]

(PRINTED NAME) HIMS STARKEVICIUS

(BUSINESS NAME) Olin Chlor Alkali Products and Vinyls

(DATE) January 7, 2020

No Contact/No Advocacy
Notice Receipt
City of Chattanooga
Purchasing Division

For Submission with Quote Responses:

Linas Staskevicius (Vendor Agent name), states that:

(1) He/She is the owner, partner, officer, representative, or agent of Olin Chlor Alkali Products and Vinyls (Business name), the Submitter of the attached sealed solicitation response to Solicitation # 305720, and said Business has taken notice, and will abide by the following No Contact and No Advocacy clauses:

NO CONTACT POLICY: After the posting of this solicitation, a potential submitter is prohibited from directly or indirectly contacting any City of Chattanooga representative concerning the subject matter of this solicitation, unless such contact is made with the Purchasing Division.

NO ADVOCATING POLICY: To ensure the integrity of the review and evaluation process, companies and/or individuals submitting sealed solicitation responses, as well as those persons and/or companies formally/informally representing such submitters, may not directly or indirectly lobby or advocate to any City of Chattanooga representative.

Any business entity and/or individual that does not comply with the No Contact and No Advocating policies may be subject to the rejection or disqualification of its solicitation response from consideration.

Submitter Signature: [signature]

Printed Name: Linas Staskevicius

Title: Marketing Director, Bleach

Date: January 7, 2020

Olin™
CHLOR ALKALI
PRODUCTS AND VINYLS

490 Stuart Road, NE, Cleveland, Tennessee 37312
Phone: 423/336-4850 • Fax: 423/336-4830
Internet Address: www.olinchloralkali.com

Sodium Hypochlorite Training Outline

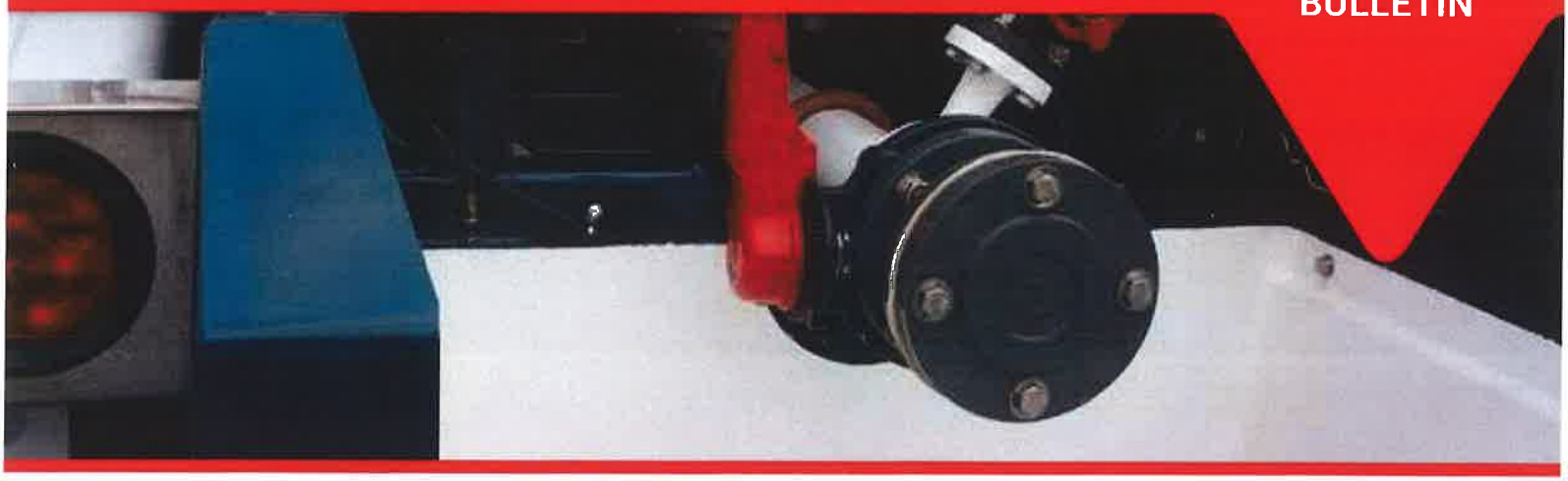
- Chemical and Physical Properties
- Personal Protective Equipment (PPE)
- First-Aid
- Safety Data Sheet (SDS) Review
- Chemical Delivery—Customer Roles, Responsibilities
- Incompatible Chemicals & Avoidance of 'Wrong Chemical – Wrong Tank' Events
- Materials of Construction

Presenter Resumes

Presentations will be provided by Olin's Technical Services' Department. All Department presenters are Chlorine Institute (CI) members. Each Technical Services' Representative has ten (10) or more years of sodium hypochlorite industry experience and serves as Olin's external customer training group. Olin representatives have chemistry or chemical engineering collegiate degrees with extensive chlor alkali industry experience in areas including, but not limited to, laboratory/quality assurance, shipping container loading, safety, and engineering.

SAFE UNLOADING OF BULK CORROSIVE CARGO TANKS

TECHNICAL BULLETIN



Introduction

Unloading containers of corrosive products can be hazardous – potentially more hazardous than the loading of such containers. For this reason, we recommend that checklists be used to document all aspects of the unloading operation. Checklists are an effective tool to document and check all critical aspects of the unloading process – before, during, and after the unloading operation. The checklist should document that proper unloading and securement procedures have been completed and that necessary corrective actions have been taken to prevent an incident.

The safety aspects of the unloading operation should be uppermost in the mind of the operator performing the task. Before beginning transfer operations, the operator must first verify that the requirements for receiving and spotting the container have been completed properly. After this, steps to unload the container can safely begin.

Cargo tanks may be unloaded by pump, pressure padding, or by gravity, depending on the location of the storage tank and/or other process considerations. An inspection checklist should take into account these different unloading options. It is essential that all site equipment such as pumps, lines, valves, and air systems are compatible with the product to be transferred. Mechanical integrity and materials of construction of "fixed" equipment are typically outside the scope of an unloading checklist; however, visual inspection of all components before and during unloading should be documented.

Inspection Checklist

The inspection checklist should include all critical aspects of the unloading process including, but not limited to:

- Review of shipping papers
- Verification of the identity of the product being unloaded
- Verify vessel seals are intact and match paperwork
- Wear proper personal protective equipment (PPE) that is in good condition
- Suitability and integrity of the receiving tank's hose fitting (check for wear, cracks, corrosion, proper gasket material, etc.)
- Safety shower/eye wash location and operation
- Sufficient tank capacity for the volume to be received
- Product unloaded to the correct tank
- Availability of low-pressure steam for product with high freezing point such as hydroxide solutions – pressure should not exceed 15 psig
- For products with a high-vapor pressure such as hydrochloric acid, ensure that the tank's fume scrubber is connected and operating properly
- All unloading systems are leak-free
- Drain and sample port valves on delivery trailers and receiving equipment are closed before unloading begins
- Unloading connection is securely attached before product valves are opened
- Grounding cable attachment, if required by the receiver

Items to consider for pump unloading to be added to the checklist:

- Ensure that the manway is opened on the tank trailer to prevent collapse – OR, if manway must be kept closed, ensure a continuous positive pressure to avoid pulling a vacuum on the cargo tank
- For hydrochloric acid, the manway lid must remain closed and a pressure pad applied

Items to consider for unloading by pressure padding:

- Secure manway cover
- Unloading pressure must not exceed the pressure relief valve setting (25 psig is the suggested maximum pressure for most transfers)

Creating Your Site-Specific Checklist

The following is a generic, bulk tank trailer safe delivery checklist that could serve as a guideline as you create your own that addresses your site-specific characteristics. Checklists have been found to be useful for ensuring all key tasks are performed and documented. They also help provide consistency between different unloading personnel. Organizations such as the Chlorine Institute also recognize and encourage the use of unloading checklists.

General Information

Product			Carrier
___ NaOH	___ HCl	___ NaOCl	Carrier's Name _____
___ KOH	___ H_2SO_4		Driver's Name _____

Item	Description	Done	Not Done	NA
1	Complete safety orientation for new driver			
2	Set Safety Perimeter – Minimum of 25 feet from unloading connections; inlet to receiving tank and outlet of cargo tank			
3	Review Bill of Lading information with driver:			
	• Product Name			
	• UN Number (shipping papers and cargo tank placards match)			
	• Cargo Tank Number (shipping papers should match container)			
	• Seal Numbers (numbers included within shipping papers match those on cargo tank)			
	• Product Quality			
	• Product Quantity (volume, weight, other)			
4	Tank Starting Level (volume, weight, other)			
5	Calculated Tank End Level (volume, weight, other)			
6	Confirm tank will hold full load – value of line #5 shall fall below the installed overflow on tank or less than 90% of tank volume.			
7	Locate and test safety shower/eyewash with driver			
8	Provide communication device if driver unloads alone			
9	Validate unloading connection point with driver			
10	Ensure brakes are set and wheels are chocked			
11	Wear proper PPE per function requirement			
12	For Air Pad unloading only: connect air line to cargo tank and check air pressure (25 psig max) – **DO NOT pressurize cargo tank yet!**			
13	Inspect unloading hose for integrity and cleanness			
14	Unlock the storage tank receiving line			
15	Remove cap/plug/blind on storage tank inlet line			
16	Inspect inlet line connection for cracks, corrosion, or wear – inspect and/or replace gasket as needed			
17	Connect unloading hose to storage tank inlet fitting and truck outlet fitting and ensure that camlock ears are strapped or secured. For HCL, flanges shall be used.			
18	Ensure hose carrier and or support is available for drivers use			
19	Place drip buckets under all hose connections			
20	Cover storm drains in unloading area if present			
21	Open storage tank inlet valve			
22	Open cargo tank outlet valves; internal and external			
23	Check for leaks			
24	For Air Pad unloading only: pressurize cargo tank to begin transfer of product to tank			
25	For Pump Unloading: open cargo tank dome lid to prevent cargo tank collapse - **OR** -			
	Ensure another system is in place to prevent cargo tank collapse ***Hydrochloric acid dome lid must stay closed***			
	Start unloading pump to begin transfer of product to tank			
26	Monitor Level Transmitter or remain within close proximity to tank to observe inventory changes throughout the unloading cycle			
27	Confirm delivery is completed with driver			
28	Prior to disconnection, ensure hose is cleared of product, pressure, and residual liquids (walk the hose down)			
29	Once pressure drops to zero, close all valves including tank inlet and cargo tank internal and external valves			
30	Disconnect air (if used) and product hoses; cap, stow and secure hoses			
31	Secure storage tank inlet line (replace cap/plug/lock)			
32	Remove, decontaminate, and properly stow PPE			
33	Sign carrier's paperwork confirming the delivery was safely completed			

Contact Information

USA: +1 423 336 4850
Canada: +1 877 304 4442
Mexico: +55 1151884105

Info@olinbc.com
Olin.com
Toll free service not available in all countries

Form No. 102-00534-1117PI

SODIUM HYPOCHLORITE

PRODUCT STEWARDSHIP MANUAL

Introduction

Sodium hypochlorite, also known as hypochlorite, hypo, bleach or NaOCl, is used in a wide range of industrial settings. Olin has long been regarded as a dependable source of sodium hypochlorite, and our recent innovation in distribution has established Olin as the clear lead supplier of industrial bleach in North America.

Historically, sodium hypochlorite was transported by tank trailer to nearby markets. Beginning in 2007, Olin initiated tank car service across North America for sodium hypochlorite, allowing for long-distance transportation. No longer is sodium hypochlorite distribution considered a local activity. This innovative transportation mode, along with production and distribution facilities located strategically across the United States and eastern Canada, has transformed Olin into the largest producer of sodium hypochlorite in North America.

Olin's reliable supply of sodium hypochlorite offers you the quality you need in a wide variety of concentrations, and is backed by a customer support network that only Olin can provide. Check with your Olin representative for particular solution strengths available in your market.

Safety

At Olin, safety and quality are integral to everything we do. Our goal is zero when it comes to safety incidents, with a focus on preventing accidents, injuries, and chemical incidents not only within Olin, but also in the communities we touch. Olin has internal processes to foster continuous improvement in the areas of product quality, environmental protection, safety, and product stewardship.

Responsible Care®

Olin has a long-standing policy to ensure that its operations do not have an adverse impact on the community or the environment. Olin is committed to the guiding principles of Responsible Care®, a continuing effort by the chemical industry to improve the responsible management of chemicals.

As a Responsible Care® Company, Olin follows the 12 Guiding Principles and Codes of Management Practices that cover all aspects of research, development, manufacture, distribution, transportation, use, and disposal of products. These principles also extend to prompt reporting, customer counseling, community awareness, support of external research, and promotion of Responsible Care® worldwide.

Olin recognizes that no single entity can fully protect the quality of our environment. However, by working together on a global basis, the public, industry, and government can make the future brighter and safer.

The Chlorine Institute and Continuous Improvement

Olin has a long history of embracing and promoting chemical safety and is a founding member of The Chlorine Institute. The Chlorine Institute is a technical trade association of companies involved in the safe production, distribution, and use of chlorine, sodium and potassium hydroxides, sodium hypochlorite, and hydrogen chloride. Since its founding in 1924, Olin has supported The Chlorine Institute in promoting the continuous improvement in safety, protection of human health and the environment, and security associated with the production, transportation, handling, and use of sodium hypochlorite and other chlor alkali chemicals. As a Chlorine Institute member, Olin is committed to adopting the Institute's safety and stewardship initiatives to achieve measurable improvement over time. A number of Chlorine Institute bulletins and pamphlets discussing the safe handling of sodium hypochlorite are referenced in this handbook.

Olin is also an active member of the American Chemistry Council (ACC), America's oldest trade association of its kind. The ACC represents companies engaged in the business of chemistry who are committed to continuously improving the safety, health, environmental, and security performance of the chemical industry. In addition, Olin is an active member of the Chemistry Industry Association of Canada (CIAC). The CIAC is a trade association representing Canada's leading chemistry companies adhering to the principles of the ACC- initiated Responsible Care® program, which is now a global initiative with a focus on sustainable stewardship. We incorporated the ACC's Responsible Care® program and the CIAC's standards into our business model at their introduction into the marketplace. Key aspects of the ACC's and CIAC's Responsible Care® initiatives include:

- Commitment made by the chemical industry to the safe, responsible, and sustainable management of chemicals through their entire life cycle, and for their intended end use.
- World-class performance initiative for the chemical industry.
- Companies who are industry leaders, bound together by a commitment to address challenges and continuously improve the performance of the chemical industry.
- Verifiable management systems to achieve Responsible Care® goals via third-party auditors.

Olin has a number of programs intended to foster continuous improvement with use of our chemicals. This handbook is intended to assist customers in understanding the chemistry, delivery, receipt, storage, and safe handling of sodium hypochlorite solutions – to help safeguard employee health, encourage safe working practices, and protect the environment when working with sodium hypochlorite. The handbook's content primarily focuses on 12.5% by weight sodium hypochlorite, a predominant solution strength in North America, along with some information concerning Olin's HyPure® Bleach.

Olin Product Stewardship

Olin Product Stewardship

At Olin, our Product Stewardship program is guided by our core values of Integrity, Customer Success, Innovation, and People. We are committed to the safe handling and use of our products – and enabling all of our collaborators throughout the value chain to do the same. As a Responsible Care® company, we assess the safety, health, and environmental information on our products, and then take appropriate steps to protect employees, public health, and the environment. Ultimately, the success of our product stewardship program rests with each and every individual involved with Olin products – from the initial concept and research to the manufacture, sale, distribution, use, disposal, and recycling of each product.

Properties

Certifications

Olin's sodium hypochlorite solutions are well-suited for use in a variety of industrial and municipal applications. We offer product certification upon request for various industry and regulatory standards including the American Water Works Association (AWWA B300), National Sanitation Foundation (NSF Standard 60 requirements), as well as U.S. EPA pesticide registration and Canada Pest Management Regulatory Agency (PMRA) registration. Contact your Olin sales representative to discuss specifications, certifications, and product grades available in your particular market.

Chemistry

Sodium hypochlorite solutions are most often produced using an automated continuous process. In early commercial production, hypochlorite was made in a batch process, wherein Chlorine gas or liquid is injected into a dilute caustic solution. To avoid over-chlorination and to maintain the excess alkalinity required to produce a stable hypochlorite solution, chlorine addition must be discontinued prior to complete depletion of the caustic present in the solution. Sodium hypochlorite manufacturing follows the chemical reaction below which combines caustic soda and chlorine to produce one mole of sodium chloride (NaCl) for each mole of sodium hypochlorite (NaOCl). A mole is a measure of the number of molecules of a compound. This one-to-one ratio of production products often garners the name of 'equimolar sodium hypochlorite' as a result.

Equation 1:

$$Cl_2 + 2\ NaOH \rightarrow NaOCl + NaCl + H_2O$$

Oxidation Power (Available Chlorine)

Disinfecting, bleaching and oxidizing are the major applications of this product. Before the development of sodium hypochlorite solutions, chlorine was used directly for many of these applications. With the storage advantages of an aqueous solution, sodium hypochlorite solutions have replaced chlorine in many of these typical end uses.

This leads to the obvious question: How much chlorine (Cl2) is available in a sodium hypochlorite (NaOCl) solution?

Equation 2 shows the oxidation of 2 moles of potassium iodide (KI) with 1 mole of sodium hypochlorite in a solution of acetic acid (HAc) yields one mole of iodine (I2), 1 mole of salt (NaCl), 2 moles of Potassium Acetate (KAc) and water.

Equation 2:

$$NaOCl + 2\ KI + 2\ HAc \rightarrow I_2 + NaCl + 2\ KAc + H_2O$$

Equation 3 shows the oxidation of 2 moles of potassium iodide (KI) with 1 mole of chlorine yields one mole of iodine (I2) and 2 moles of salt (KCl).

Equation 3:

$$Cl_2 + 2\ KI \rightarrow I_2 + 2\ KCl$$

In other words, a mole of sodium hypochlorite will oxidize the same amount of iodide as will a mole of chlorine. The molecular weight of NaOCl is 74.5 (23 + 16 + 35.5); the molecular weight of chlorine (Cl_2) is 71 (2 × 35.5). The term "available chlorine" was coined to describe this relationship in the sodium hypochlorite context. The ratio of molecular weights (74.5/71), or 1.05, quantifies this relationship.

To relate gallons of sodium hypochlorite solution to pounds of chlorine, the hypochlorite's strength as expressed in units of available Cl_2 must be converted to the equivalent pounds of chlorine to answer the question above using the equation:

Equation 4:

Avail. Cl_2 g/L (A) X 3.785 liters/U.S. Gal X 2.205 lbs./1000 grams = lbs. Avail. Cl_2/U.S. Gal solution

For example, 120 g/L available Cl_2 X 3.785 X 2.205/1000 = 1 pound available Cl_2/gallon of solution. Expressed differently, one gallon of sodium hypochlorite solution having 120g/L available chlorine provides the equivalent oxidizing power of one pound of chlorine, (120 g/L available Cl_2 = 1 lb. chlorine per gallon of solution). The unique one-to-one ratio provides a convenient basis point when other hypochlorite solution strengths (in grams per liter of available Cl_2) are considered.

When evaluating other hypochlorite solutions for chlorine equivalency using available chlorine, always divide the grams per liter available chlorine by 120 g/L. For example, (150 g/L available Cl_2 /120 g/L avail. Cl_2) = 1.25. In this example, one gallon of 150 g/L available Cl_2 solution yields the equivalent of 1.25 pounds of chlorine gas. This ratio will then indicate how much more (or less) equivalent chlorine is present in a given hypochlorite solution compared to a fixed amount of chlorine gas. Similar calculations can be performed using wt% NaOCl provided the solution density is known.

Properties

Decomposition rates will be affected by impurities and handling conditions. Equation 5 depicts the temperature-controlled decomposition reaction. The thermal decomposition route primarily results in production of chloride and chlorate ions.

Equation 5:

$3\ NaOCl + Temperature\ \&\ Time \rightarrow 2\ NaCl + NaClO_3$

The presence of trace metals catalyzes the sodium hypochlorite decomposition according the following equation, which produces oxygen and salt. Small bubbles of the gas will emanate from these particles and rise to the surface provide telltale evidence of this problematic reaction. Many times, these gas bubbles are barely visible to the naked eye or require use of a microscope to see. Small amounts of nickel, cobalt, and copper are particularly reactive even at parts per billion (ppb) levels. Oxygen generation and the corresponding loss in assay (NaOCl) will continue until all hypochlorite has been decomposed or until the trace metal has been removed from the solution. Operational and safety concerns are associated with this reaction (Eq.6). In some situations, oxygen content may be significant.

Temperature Impact on Stability

In most situations, the temperature and concentration at which the sodium hypochlorite solutions are stored have the most impact on their stability because decomposition is slowed as concentration and temperature decrease, assuming all other conditions are similar and unchanged. As a general rule, lower concentration solutions are more stable than higher strength solutions, assuming that other conditions such as temperatures, pH and metal ion concentrations are similar. Studies of sodium hypochlorite solutions have shown that the decomposition rate increases by a factor of approximately two to four times for every 10°C (18°F) temperature rise. See the adjacent decomposition charts. In order to determine your best option for minimizing product decomposition, each application should be reviewed based on hypochlorite strength, storage temperature, and storage time. Closely related to temperature exposure is ultraviolet light-induced decomposition. Shielding of storage systems and qualification samples from sunlight exposure can eliminate this variable.

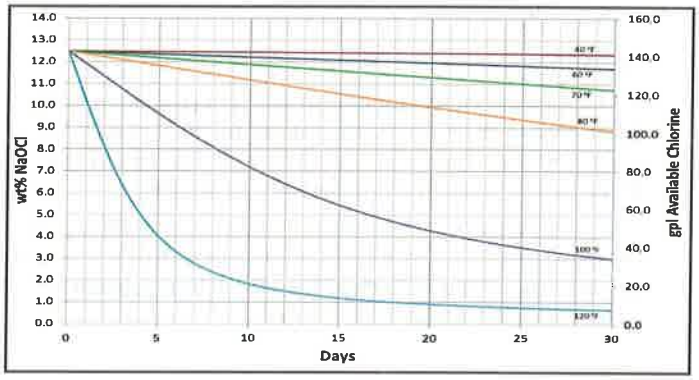
HyPure® Bleach (see adjacent Decomposition Graphs) exhibits different decomposition characteristics as compared to standard sodium hypochlorite solutions. Concentrated HyPure® Bleach will actually degrade at a faster rate than other sodium hypochlorite solutions as a result of the additional amount of active ingredient.

However, once diluted, HyPure® Bleach exhibits a slower decomposition rate compared to a standard sodium hypochlorite solution of equal product assay. We can look at this two different ways:

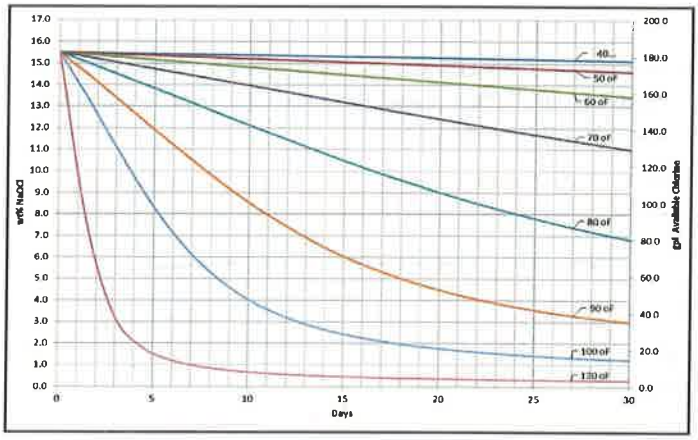
- At the same assay and temperature, HyPure® Bleach is about 40% more stable than standard bleach.
- At the same temperature, a 20% stronger solution of HyPure® Bleach will have the same stability as standard bleach.

The total amount of all chemical compounds dissolved in any bleach solution is a major factor in determining how stable the bleach is.

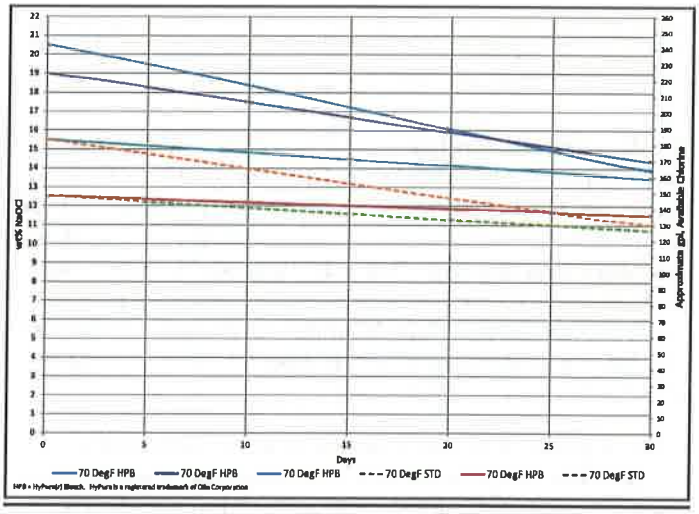
Graph 2: Estimated Decomposition of 12.5 wt% Sodium Hypochlorite Solution



Graph 3: Estimated Decomposition of 15.5 wt% Sodium Hypochlorite Solution



Graph 4: Estimated Decomposition of Standard and HyPure® Bleach



Note: See Appendix for larger graphs

Properties

Table 1: Typical Dilution Water Impurities

Component
Nickel
Copper
Cobalt
Iron
Silica
Conductivity
Total Dissolved Solids
Total Hardness

Dilution and Excess Residual Alkalinity

Another consideration for significant strength dilutions is the excess alkalinity in the diluted product. For minor dilutions, the excess actual sodium hydroxide content in the product should be sufficient to maintain the minimum level of about 0.1 wt% to ensure product stability. With more significant dilutions, a small addition of caustic soda (sodium hydroxide) may be required to achieve the minimum level necessary for a stable product. The quality of the caustic soda added can also negatively impact sodium hypochlorite quality, especially in the areas of trace metals and salts.

Unlike dilution of hypochlorite with water which is non-exothermic, addition of significant quantities of caustic soda will result in a temperature gain of the solution. Solution cooling capabilities may be required for large volume alkali additions to minimize temperature-induced product decomposition.

All sodium hypochlorite solutions require residual alkalinity, particularly sodium hydroxide, to ensure product stability and to avoid generation of chlorine gas. Sodium hydroxide and sodium carbonate are the typical alkalinity sources. Sodium carbonate is not as effective in stabilizing hypochlorite solutions, and is typically not intentionally added to achieve higher alkalinity contents. Alkalinity determination becomes particularly important in dilution activities or in chlorine-scrubbing applications where dilute sodium hypochlorite is being produced. Review the Residual Alkalinity Analytical Testing section for more information.

Crystallization Points

The freezing or crystallization temperature for bleach solutions is generally a function of the hypochlorite concentration. Since sodium hypochlorite solutions can contain varying amounts of several dissolved salts, the ability to accurately predict the crystallization point of the solution can be difficult. The amount of crystallization and the exact temperature at which these attributes begin to appear are composition-specific and may vary noticeably. For example, identical solution "grades" of product supplied from different manufacturers or production facilities will probably exhibit differing crystallization properties when subjected to the same temperature conditions. Solutions with higher concentrations of hypochlorite and/or the other dissolved salts will generally begin to crystallize at higher ambient temperatures than solutions containing lower concentrations of hypochlorite and/or the other salts.

Frozen hypochlorite solutions can be thawed and used; however, care must be exercised to avoid excessive heat application that will initiate temperature decomposition of the solution. In some instances, the crystallization process may result in precipitation of suspended materials that will not easily dissolve upon thawing. Crystallization effects typically first appear on the solution surface or in small diameter piping/tubing subjected to no or low-flow conditions.

Table 2: Crystallization Points (Chlorine Institute Data)

Weight % NaOCl	Crystallization Point (°F)	Crystallization Point (°C)
20.0	28	-2.2
15.5	-21.5	-29.6
12	-3	-19.4
6	18.5	-7.5

Care should be taken to prevent any bleach solution from freezing. At higher hypochlorite concentrations, the crystals that form when the solution freezes are very corrosive to skin and eyes and should not be handled. These crystals can also cause plugging in piping and equipment. To prevent the material from freezing, tank cars, tank trucks and piping should be unloaded/drained promptly in cold weather. In extremely cold climates, strong bleach solutions could be diluted to lower the freezing point, which will also increase the stability of the material.

Concentration Units

Concentration

Strength or concentration of sodium hypochlorite may be expressed in a number of different ways in supplier certificates of quality, invoices, product labels, dosage rates, or bid requirements. As a result, it is always critical to specify the units of concentration when referencing product strength. The table below illustrates the importance of specifying assay units. A 12.5 weight percent NaOCl solution (a common industry strength standard) is considerably different from a 12.5 trade percent solution. Additionally, a 12.5 weight percent solution is not the same as a 12.5 solution having units of volume percent. ALWAYS specify units of concentration!

Table 3: Concentration of Sodium Hypochlorite

	wt% NaOCl	Wt% AvCl2	g/L AvCl2	Trade %	Equivalent Cl2	Density (Theoretical)	
	(g NaOCl/100 g soln)	(g AvCl2/100 g soln)	(g/L soln)	(g AvCl2/100 mL soln)	(lb Cl2/ gal soln)	g/ml	lb/gal
	Note 1		Note 1	Note 1			
	5.25	5.0	54	5.4	0.45	1.0793	8.99
	6	5.7	62	6.2	0.52	1.0904	9.09
	7	6.7	74	7.4	0.62	1.1053	9.21
	8	7.6	85	8.5	0.71	1.1204	9.34
	9	8.6	97	9.7	0.81	1.1356	9.46
	10	9.5	110	11.0	0.92	1.1511	9.59
	11	10.5	122	12.2	1.02	1.1667	9.72
	12	11.4	135	13.5	1.13	1.1826	9.86
	12.5	11.9	142	14.2	1.18	1.1906	9.92
	13	12.4	148	14.8	1.24	1.1986	9.99
	13.5	12.9	155	15.5	1.30	1.2067	10.06
	14	13.3	162	16.2	1.35	1.2148	10.12
	14.5	13.8	169	16.9	1.41	1.2230	10.19
	15	14.3	176	17.6	1.47	1.2312	10.26
	15.5	14.8	183	18.3	1.53	1.2394	10.33
	16	15.2	190	19.0	1.59	1.2477	10.40
	16.5	15.7	197	19.7	1.65	1.2561	10.47
Low Salt	17.5	16.7	200	20.0	1.67	1.2009	10.01
	18	17.1	207	20.7	1.73	1.2072	10.06
	18.5	17.6	214	21.4	1.78	1.2135	10.11
	19	18.1	221	22.1	1.84	1.2199	10.17
	19.5	18.6	228	22.8	1.90	1.2262	10.22
	20	19.1	235	23.5	1.96	1.2326	10.27
	20.5	19.5	242	24.2	2.02	1.2391	10.33
	21	20.0	249	24.9	2.08	1.2455	10.38
	21.5	20.5	256	25.6	2.14	1.2520	10.43
	22	21.0	264	26.4	2.20	1.2585	10.49
	22.5	21.4	271	27.1	2.26	1.2650	10.54
	23	21.9	279	27.9	2.33	1.2716	10.60

Note 1: the conversion between wt% NaOCl, g/L AvCl2 and Trade % will change depending on the density used in the calculation.
AvCl2 = Available Chlorine Soln. = Solution g/L = gram per liter or gpl

One of the complicating factors in converting units involves the role of the density in the calculation. Some units of measure, such as weight percent (wt%), compare the weight of NaOCl (gram) to the solution weight (100 grams) while other units, such as grams per liter (g/L), compare the weight of the NaOCl (grams) to the solution volume (liter).

When converting between these units, the density of the solution must be used in the calculation. Because there is no direct relationship between density and concentration for sodium hypochlorite solutions, the conversion between weight % and trade % can never be precise unless density of the particular solution in question is measured.

Within a given context, such as a company department, a manufacturer's production and customer service group, or the order between a customer and a specific supplier, the communication of concentration may be well understood. For clarity when dealing with others outside that context, units should always be clearly defined and mentioned in the communication.

Shipping

The carriers' (rail and trucking companies) responsibility in the hazardous transportation system is to safely move the sodium hypochlorite shipping containers from Olin to the customer. The carriers must comply with a variety of regulations governing the movement of hazardous materials from agencies including the Department of Transportation, Transport Canada, the Association of American Railroads, and individual state governmental agencies. Carriers (rail and truck) rely on the shipper (Olin and/or the customer) to provide them with clean, safe, and secure sodium hypochlorite shipping equipment.

The customer's responsibilities in the hazardous materials shipping process are similar to Olin's. Customers must follow the appropriate regulations in the handling and unloading of sodium hypochlorite containers, and in the case of tank cars, prepare them for shipment back to Olin. A customer's goal is to safely handle and unload sodium hypochlorite containers, comply with all regulatory requirements, and where applicable, prepare the container for safe shipment back to Olin. It is important to note that in the case of tank cars, the customers or end-users become the shipper of record when they offer the sodium hypochlorite container for shipment back to Olin.

Sodium Hypochlorite Shipping Containers

Sodium hypochlorite solutions are shipped in a wide variety of container sizes, bulk and non-bulk, to meet customers' needs. Olin ships product only in tank trailers and tank cars.

Tank Trailers

Olin contracts with trucking companies to deliver sodium hypochlorite solutions by tank trailer, also known as cargo tanks. In some areas of the United States, Olin operates its own trucking fleet for delivery of the product. Tank trailers used in sodium hypochlorite service must meet standards issued by the regulatory agencies (U.S. DOT, Transport Canada) and include equipment that conforms to the Department of Transportation (DOT) or Motor Carriers (MC) designations, which as of the year 2017 were MC-307, DOT-407, MC-312, and DOT-412 designations. While tank trailer capacities can vary significantly, they usually contain about 5,000 gallons of product based on over-the-road weight limitations. The two major trailer constructions are rubber-lined steel and fiberglass reinforced plastic (FRP) tanks with a compatible resin corrosion barrier. Product unloading configurations include bottom discharge or a top-unloaded dip-leg arrangement.

Olin sodium hypochlorite trailers typically have a double-valve arrangement on the outlet port. The internal valve is pneumatically or hydraulically operated and can be closed remotely in case of an emergency. The unloading connections on each tank trailer are typically located at the rear. A specification plate specifying tank fabrication, inspection, and other regulatory information is typically located on the driver's side of the trailer frame near the front. Transport regulations require these trailers to be inspected on a scheduled frequency, including internal and external visual inspections as well as leak, thickness, and pressure testing. These inspection dates are stenciled on the front head or on the front driver side of the trailer. Tank trailers can be unloaded by the driver or by properly trained employees (DOT/Transport Canada function-specific) at the customer's or end user's facility. Delivery tractors are equipped with an air compressor for pneumatic product transfer. Pumps are not provided with delivery equipment for unloading.

Tank Cars

In 2007, Olin added tank cars (railcars) to its modes of shipment. This proprietary fleet of specially lined and designed tank cars maintains sodium hypochlorite quality throughout the shipment cycle. The tank cars in Olin service for sodium hypochlorite meet DOT Spec 111A100W5. This Olin innovation, along with process capabilities, has allowed the creation of a bulk distribution paradigm to reach distant marketplaces effectively. The typical shipping volume by tank car is approximately 17,500 gallons.

Numerous important regulatory, environmental, safety, and health informational items are available on each tank car. Tags and stenciling display required regulatory, car maintenance, and operating information as well as safety, spill mitigation, and first-aid information along with emergency response contacts.

Olin's entire rail fleet is designed for top unloading only. The specific unloading method and additional requirements are described in separate Technical Bulletins available for reference and future discussions.

General Unloading System Requirements

General Unloading System Requirements

Unloading stations for receipt of tank trailer and tank car shipments should be designed with safety and operational efficiency in mind. In general terms, either delivery mode requires appropriately located safety shower and eyewash stations, adequate lighting for possible night-time work, filtered pad gas, adequate secondary containment, chemically compatible transfer hoses and connectors, and a source of rinse water to facilitate product residue removal. The ideal site design will minimize the length of hose required for shipping container unloading as well as the pipe run for delivery of product to the storage tank.

Connection points should be clearly identified to eliminate the possibility of connecting the transfer hoses to the wrong unloading line or system. For maximum effect, receiving pipelines should be clearly identified near the delivery hose attachment point and include the words, "Sodium Hypochlorite" and "UN 1791." This label terminology incorporates the information found in bills-of-lading and other delivery paperwork, and therefore allows the delivery driver and site unloading staff to compare delivery documents against the receiving pipeline label and shipping container placard. Consult The Chlorine Institute's bulletin, "Avoiding Accidental Mixing of Sodium Hypochlorite," at www.chlorineinstitute.org for additional details.

Tank Trailers

Tank trailer unloading stations should be laid out to provide easy access to the receiving pipeline connection. Where possible, drive-through unloading stations are preferred over backing of the trailer into the unloading station. In-plant street access should be designed to accommodate tractor-trailer combinations and incorporate wide intersections. Reinforced concrete unloading pads sloped to a containment device such as a dedicated sump or French drain can provide a hard surface for trailer parking and an effective means to collect and contain product drippings that might occur during the unloading process. Where multiple chemicals are received in the same area as sodium hypochlorite, engineering and/or procedural provisions should be incorporated to avoid mixing of incompatibles.

Receiving pipelines for tank trailers are typically installed at hip level (approximately 3 feet above grade). A two-inch male, quick-connect fitting is standard for customer receiving locations and should include a block valve to prevent possible chemical drain-back when the delivery hose is disconnected. Placement of a drain valve in the receiving pipeline can facilitate safe sample collection during the unloading process. Quick-connect fittings should be made of fluoropolymer-lined stainless steel or a compatible plastic such as PVC, high-density polyethylene, or glass-filled polypropylene. Installation of the receiving connector at a 45-degree downward angle is a preferred installation technique to reduce torque stresses induced during unloading. Angled receiving connectors are especially beneficial when plastic components are used. Since plastic fittings lack the mechanical integrity of lined steel fittings and can easily become worn or damaged, they should be inspected frequently and placed on a replacement cycle that will prevent failure.

Tank Cars

Tank car unloading stations should incorporate level track to maximize product transfers. An elevated platform and gangway system should be provided for safe egress and access from the top of the tank car. The platform should incorporate fall protection devices such as protective cages, or equivalent fall arrest systems. The pad gas filtration device and hose connection, as well as the receiving pipeline are typically located within arm's reach of the unloading platform, which limits hose length and associated clutter, while maximizing convenience for component access.

Receiving Connections Example

Tank cars require a three-inch, four-bolt flanged connector to attach to the product outlet valve. Because of the elevated potential for "mechanical hammer" and other unloading stresses, the transfer hose should have a robust support system in place to limit stresses on the tank car connection. Because of these unloading stresses, a fluoropolymer-lined, flanged metal connector is preferred for tank car unloading.

Pad Gas System

Table 5: International ISO Standards ISO 8573-1International ISO Standards ISO 8573-1

Particulate			Water	Oil
Class	Max. Size	Max. Conc.	Max. Press. Dew Point	Max. Conc.
	µm	ppm/mg/m³	°F/°C	ppm/mg/m³
1	**0.1**	**0.08/0.1**	-94/-70	0.008/0.01
2	1	0.80/1	-40/-40	0.08/0.1
3	5	4.20/5	- 4/-20	0.83/1
4	15	6.70/8	37/+3	4.2/5
5	40	8.30/10	45/+7	21/25
6	-	-/-	50/+10	-/-

High-pressure pad air can over-pressure the shipping container, resulting in activation of the container's safety relief device and chemical leakage. The pad air should be regulated to a maximum of 25 psig for both tank car and tank trailer unloading activities and be protected with a pressure relief device downstream of the regulator. The pressure relief device provides important over-pressurization protection to the shipping container should the regulator fail.

The primary isolation valve (see 'Corrosive Liquids Pad Gas Quality at Point of Use' diagram above) marks the piping specification breakpoint between components designed for standard pad air service and components designed for sodium hypochlorite vapor, and should be constructed of lined steel as discussed below. All components downstream of this valve must be designed to accommodate possible exposure to sodium hypochlorite vapors.

Downstream of the point-of-use filter, lined metallic piping or titanium must be used. Iron, galvanized steel, copper or other common pad air piping materials will corrode and re-introduce contaminants downstream of the filter. These materials should be avoided in their unlined versions downstream of the point-of-use filter location. For a lined piping system, the liner offers the chemical resistance needed while the metallic piping provides the structural strength. Liners such as polyethylene, Teflon® polymer (PFA, FEP, PTFE), PVDF (fluorinated polyvinylidene or Kynar® polymer) and PVC/CPVC (polyvinylchloride/chlorinated polyvinylchloride), etc., are compatible with sodium hypochlorite. A careful evaluation of material of construction compatibility with sodium hypochlorite should be completed during the liner selection process because product vapors can potentially back feed into the pad air piping system under certain conditions.

Tank cars are equipped with a four-bolt flanged 'air' valve for pressure padding and venting of the tank car. A two-inch flanged connection rated for pressures of 150 psig should be permanently affixed to the pad gas supply hose. A flanged adapter equipped with a quick-connect fitting for attachment to the pad air hose is a variation that may be a desired alternative. Fluoropolymer-lined stainless steel fittings are preferred as they offer enhanced mechanical strength, are chemically compatible, and can safely manage stored energy and stresses. Tank trailers are typically connected to the pad air supply hose via a one-inch "crow's foot" connector (or Chicago coupling) appropriately pinned to ensure a secure connection.

Inspection

A timely and effective preventive maintenance program (see Inspection Guidelines below) is critical for ensuring delivery of clean, water-droplet-free and oil-free pad air to the shipping container over the long term. Several general guidelines are applicable regardless of equipment or operating conditions. Maintenance guidelines issued from the compressor manufacturer should be consulted and typically represent the minimum frequency at which maintenance should be performed. In addition to performing scheduled component maintenance, a white-rag test should be performed at least once monthly to provide redundant verification of proper system operation. When performed correctly, a clean white rag should be used to collect the compressed gas stream at regular, full-flow rates for a duration of one to two minutes. Any discoloration will provide indications of a malfunctioning filtration system.

Table 6: Inspection Guidelines

White rag test at point of use	At least monthly
Trap and filter inspection/ service	At least monthly
Pressure drop indicators	Inspection at each use Service per manufacturer guidelines
Filter replacement	Daily inspection during use
Hose and connector	Per manufacturer guidelines, white-rag test or pressure drop
Regulator or check valves	Daily visual inspection for evidence of fatigue
Pressure relief device	Annual preventive maintenance

Halar®, or Kynar® polymers, and polyvinylchloride are common internal components for pumps.

Design features are influenced by the type of pump selected. Positive displacement pumps should incorporate a pressure relief device to protect against 'dead-heading' situations whereas mechanically sealed centrifugal pumps should employ a seal-shaft shroud to help prevent potential seal leakage from being slung onto nearby personnel or equipment. A low-amp cut-off switch should be considered for magnetically driven pumps to protect against "burn-out" resulting from operating under damaging low or no-flow conditions.

Although piston, gear, and peristaltic positive displacement pumps are most frequently used in metering situations, all pump styles have been used successfully in these situations. The overriding factor in determining which type of pump to use may lie in past plant experience. The pump type most familiar to maintenance personnel and for which spare parts are readily available may be the best choice. A centrifugal pump coupled with a measuring device (rotameter, mag meter, or mass flow meter, etc.) may prove easier to calibrate and more compatible with automated control systems than metering pumps. Without an independent flow-measurement device, metering pumps require routine calibration to ensure accurate output.

"Vapor lock" caused by entrained gas can be a problem with centrifugal, diaphragm, and peristaltic pumps, especially in low-flow metering applications. Typically, entrained gas is a result of trace-metal induced product decomposition (oxygen gas formation), so efforts to eliminate the source of such contamination would be the preferred solution. However, this problem can be minimized by sloping pump intake piping so that entrained gas bubbles move away from the pump suction or by employing other means of separating entrained gases before liquid reaches pump suction.

Valves

Valve type selection will depend on the intended application. Materials of construction range from fluoropolymer-lined steel valves to plastic. Where cavity valves, such as ball or plug designs are used, a vented valve design should be used to prevent pressure buildup and potential valve or piping damage resulting from metallic-induced decomposition of sodium hypochlorite and associated buildup of decomposition gases. Vented valve body designs will also be critical in pipe runs wherein sodium hypochlorite liquid or residues may remain trapped between closed valves. Storage tank outlets should be equipped with positive shut-off capability and avoid the use of "butterfly" designs. Flanged or glued valves are preferred over threaded valves as they eliminate the threaded connection, which is a potential leakage point.

Piping

When making initial decisions about piping, it is critical to select the appropriate material of construction because sodium hypochlorite is incompatible with all metals except titanium and tantalum. Use of non-metallic materials throughout is often embraced when only economic and compatibility perspectives are considered. However, the role of external stresses in pipe life, effective means to mitigate their detrimental effects, and the mechanical capabilities of the organization's maintenance personnel should be evaluated before choosing pipeline materials. Exposures to direct sunlight and wide temperature extremes, to identify just two common examples, are external stresses that can weaken non-metallic piping and lead to premature component failure. Threaded pipe should be avoided as the pipe wall section containing the threads is thinner and more prone to failure or leakage. For flanged pipe installations in close proximity to personnel or equipment, installation of flange guarding should be considered. All piping systems should undergo scheduled integrity inspection, regardless of material of construction utilized. Non-metallic piping typically requires even more frequent inspection and replacement cycles.

Piping Materials of Construction

There are a number of acceptable materials of construction for sodium hypochlorite piping systems. Each material of construction presents unique attributes, and in some instances requires special care in installation and inspection to help ensure successful long-term use. Structural strength, chemical resistance, and operational conditions are important factors to consider when selecting piping materials of construction.

Because of their superior structural strength, metals are widely used in piping service for many alkali chemicals. However, unlike many alkalis, sodium hypochlorite is highly reactive with most metals and metal alloys and is compatible only with titanium or tantalum metal. Lined-steel piping using thermoplastics such as polypropylene, polyvinylidene fluoride (PVDF or Kynar® polymer) or polytetrafluoroethylene (PTFE or Teflon® polymer) as the liner is often used as an alternative pipe material for portions of the systems where mechanical stresses or impacts are expected. Lined metal is often chosen for the initial portion of the receiving pipeline, especially near the hose connector where external stresses are expected to be more significant.

PVC and CPVC are chemically compatible, non-metallic materials often used in lower mechanical stress applications. Certain specialty grades of polyethylene also have been successfully used in sodium hypochlorite service. Pipe specifications should be at least schedule 80 or higher for most applications. Mechanical impact from hazards such as liquid/gas mechanical hammer, temperature expansion/contraction cycles, pressure surges from pump start-up and operation, sunlight/ultraviolet light degradation, and potential foot or vehicular contact should be carefully considered when selecting PVC/CPVC for sodium hypochlorite service. PVC/CPVC materials are sensitive to these types of external stresses and if not properly installed, supported, and inspected, can often fail unexpectedly during use.

For end-use applications such as dosing meters, small diameter PVC/CPVC piping is often used. As with larger diameter piping, proper support is required. A protective enclosure such as a conduit or equivalent device should be used where foot or vehicular traffic is likely.

Most polyvinyl chloride monomers have recommended temperature ranges that should not be exceeded. In many instances, ambient conditions exceed these recommendations and elevate the risk of fracture. A related factor is ultraviolet damage as a result of long-term sunlight exposure. Repeated sunlight exposure will weaken monomer bonds, making the pipe more prone to fracture. Consult with your pipe vendor for added guidance.

Storage Equipment

Materials of Construction

Titanium

There are a limited number of materials that are chemically compatible with sodium hypochlorite. These materials can be categorized into metallic and non-metallic systems. Titanium and tantalum are the only chemically compatible metals and offer the longest lifetime. Their high cost generally limits use to critical applications such as reactor vessels and internal components of pumps, meters, valves, etc.

Rubber-Lined Steel

Rubber-lined steel tanks are often selected for high-capacity vessels or ones that are subjected to multiple fill/discharge cycles. The lining should be of a 100 percent chlorobutyl rubber composition. Rubber-lined storage tanks require a simple, but specialized mechanical integrity test (IP-4-13 "Procedure for Spark Testing Elastomeric Sheet Lining") to evaluate lining integrity on a periodic basis. Exposure of lining to the product can result in the exposed rubber surface dislodging or flaking over time. This flaking phenomenon is often more pronounced for tank/liner combinations that have been exposed to different chemical service. For sensitive applications, a particulate filter on the tank discharge nozzle may be required.

Fiberglass Reinforced Plastic and Dual Laminates

Fiberglass reinforced plastic (FRP) is frequently used in storage applications and offers good mechanical strength and a failure mechanism that is typically preceded by small leaks that warn of its weakened condition. However, fabricator experience, resin, curing mechanism, and stored product strength are important variables influencing vessel performance. FRP vessels are sensitive to ultraviolet (UV) degradation and should incorporate the use of a UV inhibitor for tanks located outdoors.

Hand-laid application of the reinforcement mat or chopped strand filament winding is preferred over continuous filament wound construction. Should the corrosion barrier fail, continuous wound filament reinforcement is at a higher risk of chemical attack via product wicking, which increases the risk of catastrophic failure. Avoid the use of cobalt napthenate as a curing agent because cobalt may catalyze hypochlorite decomposition upon failure of the corrosion barrier.

FRP tanks also can be lined with a fluoropolymer such as PTFE, PVDF, etc. or PVC to produce a dual laminate vessel. Dual laminate construction offers the mechanical strength of FRP combined with a robust, chemically compatible internal liner.

Poly Tanks

High-density polyethylene (HDPE), cross-linked (XHDPE) and linear (HDLPE), have been successfully used in sodium hypochlorite service and are typically known as poly or plastic tanks. However, fabricator experience, resin, product strength, mechanical hammer, temperature, sunlight exposure, and pipe connection methods are important variables influencing vessel performance. If cross-linked HDPE is used, it is important to confirm that the resin chosen is suitable for sodium hypochlorite. Additionally, tanks should comply with ASTM D-1998, "Standard Specification for Upright Polyethylene Storage Tanks."

Poly tanks have excellent chemical resistance and are often chosen for smaller volume vessels. Lateral expansion and contraction of the tank wall is a significant concern with poly tanks as the walls will tend to flex depending upon the product level inside the tank. The mechanical hammer associated with compressed air chemical deliveries, automated valve cycling, and pump operations that introduce structural stress on poly tanks are other significant factors affecting tank service lifetimes. Additionally the use of bulkhead type fittings may significantly shorten the life of the tank because of the tendency to experience stress cracking around the cutout for this type of fitting. As with FRP, poly vessels are sensitive to ultraviolet (UV) degradation and should incorporate the use of a UV inhibitor for outdoor installations.

Long-term contact with hypochlorite causes embrittlement of the polymer so that a sudden mechanical shock can cause a catastrophic failure of the tank. As with other non-metallic piping and tank materials, an inspection and replacement plan should be developed for poly tanks so they are replaced before failure occurs.

HyPure® Bleach can be stored and handled in the same equipment as standard sodium hypochlorite solutions. Consult with your tank manufacturer to ensure the tank is of adequate design to handle the increased corrosivity and oxidation associated with this concentrated product. Insulation and cooling may be needed if the material is held at high concentrations for long periods of time.

Fabricator Evaluation

The fabrication and lining processes are critical to long-term success when storing sodium hypochlorite. Industry experience has shown merely utilizing chemically compatible material alone is not a guarantee for lengthy tank service lifetimes. The aggressiveness of sodium hypochlorite dictates that special evaluations of the fabricator and the material of construction should be performed, regardless of the type of construction chosen. Fabricators should be selected based on

1. Their experience in fabricating tanks intended for this product
2. The performance record of their tanks in sodium hypochlorite service
3. The fabrication process used.

Once a fabricator is determined, it is important that the manufacturers' recommendations on usage and preventative maintenance are strictly followed. Capital, tank location, and desired service life will dictate the choice of the material of construction. However, if the storage tank is properly specified and maintained, useful lifetime can be maximized.

Design Considerations

Sizing

As part of the storage system strategy, the vessel should be large enough to easily accommodate a full inbound bulk shipping container and compensate for likely transit times and tank heels. A general rule of thumb is to size the tank at least 1.5 times as large as the full bulk shipping container to maximize freight savings and have ample room to avoid tank overflows during filling. However, consumption rates also should

Unsupported discharge piping connected to a heavy valve can exert significant torque on the tank's outlet fitting area that can culminate in sidewall cracks/damage. Rigid connections tend to concentrate these stresses in the nozzle area of the tank. Installation of proper piping support and/or use of flexible connectors may help eliminate many of these potential tank stressors. Tank nozzles on non-metallic tanks should never be used for support of valves and piping. Consult your tank vendor for specific guidance.

Level Measurement

A level measurement system is important for maintaining process operation and for avoiding a possible overflow condition during inbound delivery. Gauging systems range from simple visual readings to complex remote readouts. Under certain scenarios, the inventory may be read directly from the "shadow" of a translucent, clear-tinted poly tank equipped with markers molded into the side wall. External "sight glasses" can provide effective level indications. However, similar to reading inventories from the "shadow" of a translucent tank, use of external "sight glasses" may also lead to erroneous readings under certain lighting conditions. External "sight glasses," such as polyethylene or polypropylene tubing, also present an opportunity for catastrophic loss of tank contents upon "sight glass" failure or damage. Differential pressure or electronic level indicators are frequently used for tank level measurement. Level indicators that are not immersed in the product typically perform best, but all electronic level transmitters should be assigned a scheduled, periodic recalibration cycle to ensure accurate readings over the long term. Equipping the indicator to activate an alarm or automatic shutoff at preset inventory levels can provide an important additional layer of protection against accidental tank overflow conditions. The reliability of the high level alarm or automatic shutoff can be enhanced by using an activation device independent of the regular level transmitter (redundancy).

Posting the maximum allowable storage tank volume in a location clearly visible to unloading personnel will facilitate calculation of available volume for incoming chemical. This, coupled with a local level readout, will allow the unloading staff (and delivery driver for tank trailer shipments) to monitor tank levels more effectively during unloading.

Tie Downs

Tanks should be adequately secured using tie downs installed from the factory to prevent tank movement from high winds or seismic activity.

Storage Tank Identification

Tanks should be clearly labeled to identify chemical contents. Labels or stencils noting the entire, formal product name, e.g. "sodium hypochlorite," are preferred and especially beneficial to contractors and others not intimately familiar with the tank farm. Avoid use of "chlorine" or "liquid chlorine" for identification as these terms are inaccurate and confusing. A misunderstanding may lead to unnecessary or inappropriate precautions being taken by emergency response personnel in an actual chemical incident. Such distractions and confusion can prevent prompt action to address the emergency condition to which they have responded. Labels should comply with OSHA's HAZCOM Standard, CFR 1910-1200 or with Canada's WHMIS (Workplace Hazardous Materials Information System) for Canadian sites. Certain local regulations, codes, or agencies may also dictate label content.

Storage Tank Preventative Maintenance

Cleaning

Tank cleaning frequencies will be affected by factors such as the purity of the incoming product, consumption volumes, and internal tank inspection cycles. Tank rinsing may be desired for removal of sedimentation that can occur over time, as well as removal of residual metallic contaminants that may adhere to tank walls after the product has been consumed. Tanks purchased with a 'full drain' nozzle will foster complete cleaning and flush activities. Tanks equipped with ground-level man-ways can facilitate cleaning activities by providing convenient vessel access without the use of ladders and scaffolding.

Inspection

A periodic, scheduled inspection should be performed regardless of material of construction chosen. Personnel performing inspections should be given specific guidance regarding areas to inspect and the types of failure/damage to identify. Detailed criteria and photos can be useful inspection aids. Use of a checklist has been found to be particularly helpful to ensure inspection consistency between different personnel. For non-metallic tanks, the exterior of the tank should be inspected for evidence of drips or seepage, side-wall or roof bulges, and surface cracks or crazing, to name several key attributes and areas for inspection.

To enhance the efficacy of tank inspections, detailed records of previous inspections that include photos and notes about the location of minor flaws or routine wear will be extremely helpful. This information can be used in determining the progress of wear and tear on the vessel and/or liner or corrosion barrier. Over time these comparisons can improve the accuracy – and the economy – of future inspection and replacement scheduling. Without an understanding of the performance characteristics of a particular material of construction and tank design under your specific storage conditions, it is difficult to make wise decisions about the timing of future tank inspections and replacement. Your tank vendor's initial recommendations for the frequency of these activities should be followed.

Storage Tank and Unloading Station Containment Systems

A well-designed handling system should incorporate an effective secondary containment system to contain potential drips or spills in product storage and unloading areas. Secondary containment regulations often vary by location, so it will be important to review local codes/city ordinances, as well as province, state, and federal requirements when considering storage of sodium hypochlorite, whether the tank is indoors or outdoors. As a general guide, containment systems should be capable of holding at least 110 percent of the largest tank capacity found in the contained area. Appropriate containment must be designed to address the most likely quantity of sodium hypochlorite that would be discharged from the primary containment system (e.g., container, equipment), such that the discharge will not escape secondary containment before cleanup occurs. In determining the most likely quantity, the facility owner/operator should consider factors such as the typical failure mode (e.g., overfill, fracture in container wall, etc.), resulting sodium hypochlorite flow rate, facility personnel response time, and the duration of the discharge. In addition, the system designer should identify any bottlenecks

Personal Protection

Safety Data Sheets

Always review the SDS before handling sodium hypochlorite.

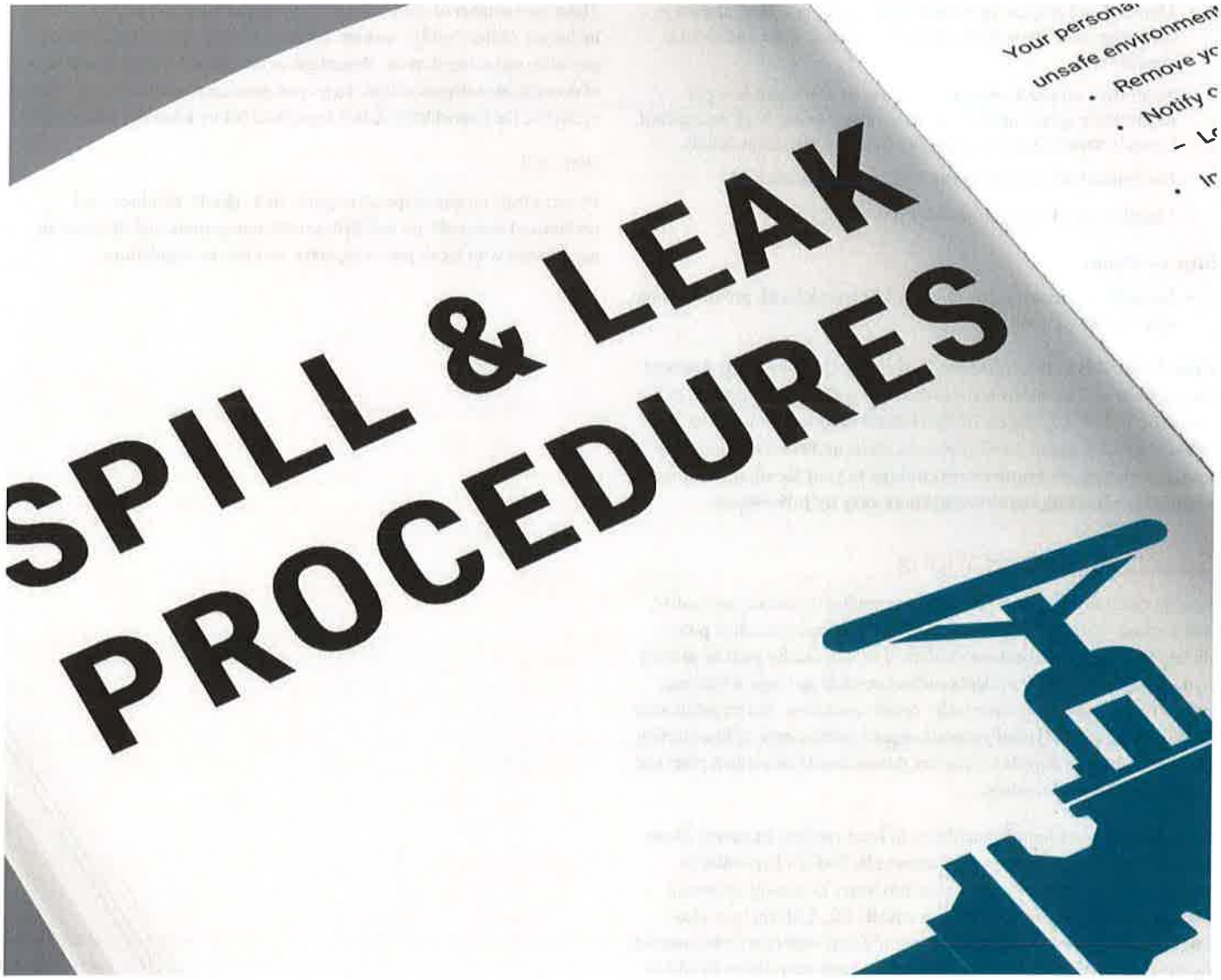
Sodium hypochlorite is a corrosive and reactive compound. To prevent personnel injuries and environmental exposure, this manual and the most current Safety Data Sheet (SDS) should be reviewed and understood. Personnel should be prepared to deal with both normal and abnormal situations. Never handle any sodium hypochlorite solution before you have read the relevant SDS. Each SDS contains information for handling particular solution strengths of sodium hypochlorite and has the most current detailed information on health effects, handling precautions, and first aid, as well as, additional sodium hypochlorite information this is not contained in this manual. The SDS must be readily accessible to all persons where the product is being used. The most up-to-date SDS, provided by the supplier, should be available to and understood by all employees who work with sodium hypochlorite. The most current SDS can be obtained from Olin at www.olinchloralkali.com.

Personal Protective Equipment

Sodium hypochlorite is a corrosive material that can cause serious health hazards if improperly handled. It is corrosive to the skin, eyes, mucous membranes, and respiratory tract, and it may cause severe chemical burns to the eyes and skin. Bodily attack will vary with solution strength and duration of exposure. Personal protective equipment (PPE) requirements will vary by task and surrounding work environment. A formal PPE hazard assessment should be performed to evaluate the appropriate PPE gear necessary for a given task. Typically, such a risk analysis will result in different levels of PPE based on work duty. When work duties include line-breaking activities such as transfer hose connection/disconnection or maintenance work, use of full PPE, including chemically resistant jacket and pants, chemically resistant boots and gloves, goggles and a face shield are required. Consult the Chlorine Institute Pamphlet 65 for additional details.

Clothing can be damaged upon contact with this material. Flame resistant clothing (FRC) may have a higher rate of attack from sodium hypochlorite than non-FRC cotton materials, especially at higher solution strengths. Consult your PPE manufacturer for additional guidance.

Spills and Leaks



General Guidelines

In general, when encountering a leak or spill, the primary focus should be to always maintain your personal safety as well as those around you. Consult your EAP or EPP regarding specific actions to take when encountering a spill event. Ensure that you follow all state, province, local, and municipal regulations pertaining to spills and spill response. This would include the proper training required by personnel who are expected to do the clean-up activities.

How to Respond to Spill Events

Step 1 - Evacuate and Activate

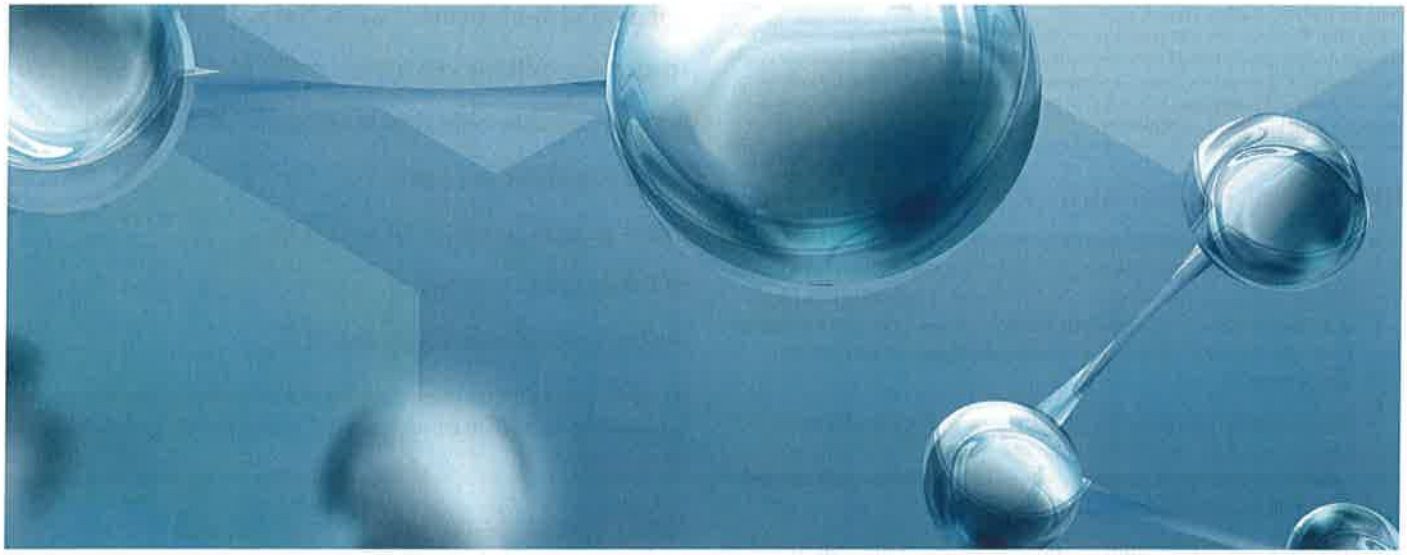
- Evacuate all personnel from the area and restrict access.
- Maintain safe refuge away from and upwind of the spill area.
- Active the site's Emergency Plan.
  - If external personnel will perform response duties, activate the Emergency Action Plan.
  - If facility persons will perform response duties, activate the Emergency Response Plan.

Step 2 - Suit Up and Remediate

THESE STEPS SHOULD BE PERFORMED BY TRAINED, KNOWLEDGEABLE PERSONNEL ONLY!

- Suit up with appropriate PPE per SDS and never respond alone.
- Isolate and contain the spill with the use of inert materials (eg., sand, dirt, etc.).
- Recover as much chemical as possible for re-use.
- For unusable material, transfer liquids and residues to an approved Hazardous Waste container for proper disposal.

Analytical Guidelines



Importance of Accuracy

The accurate determination of sodium hypochlorite assay is influenced by many factors including: sample point selection, sample technique, sample handling, analytical methodology, and analytical equipment and technique. The assay of sodium hypochlorite will continually decline over time at a rate determined by a variety of factors including: sodium hypochlorite concentration, temperature, residual sodium hydroxide levels, and exposure to UV light and trace metals such as nickel, copper, and iron. This manual describes a number of important guidelines to improve the accuracy of assay determination of sodium hypochlorite in the shipping container (tank truck or tank car). The steps and guidance presented should be thoroughly reviewed for applicability at a particular site with a hazard review covering the site specific functions to identify the best procedures and personal protective equipment (PPE) for the health and safety of site personnel and the environment. Refer to the Safety Data Sheet (SDS) for sodium hypochlorite for additional information on appropriate PPE.

Sample Collection

Whenever possible, the sample should be collected directly from the shipping container using a clean and appropriately designed sample collection device. Steps should be taken to avoid contaminating or damaging the shipping container during sampling. If a shipping container sample cannot be safely obtained, a properly designed sample point should be installed directly on the unloading piping where there is flow through the sample point. Procedures should be in place to ensure the sample point is purged sufficiently to provide a representative sample of the shipping container. Consult the SDS for appropriate PPE to be worn during sample collection activities.

Sample Handling

All wetted surfaces of sample collection equipment (thief, bottles, and bottle cap inserts) should be non-metallic. Sample bottles should be cleaned and flushed with the sample media. Fill the bottle no more than two-thirds of its capacity to avoid over-pressurization, leakage, or bottle bulging which may be induced as the product warms in storage. The sample should be identified and analyzed as soon as practical after collection—typically within two hours when stored at room temperature. Prior to analysis, the sample should be kept away from heat sources and out of direct sunlight or other UV exposure as these factors will increase the decomposition rate of the product. If there is going to be a significant delay in analysis, the sample should be cooled/refrigerated until analysis is possible.

Analytical Method

The most common analytical method used to determine assay of sodium hypochlorite solutions is a titration with a standard sodium thiosulfate solution. The titration is based on the principle of ion substitution in a pH-buffered environment, where the substitution element (iodine) is more easily titrated than the hypochlorite ion. In this method, a sample is treated with excess potassium iodide, neutralized with glacial acetic acid, and the liberated iodine is titrated with sodium thiosulfate. The titration endpoint is determined using a starch indicator solution. The following equations describe this method:

Equation 7:

$$NaOCl + 2\,KI + 2\,HAc \rightarrow I_2 + NaCl + 2\,KAc + H_2O$$

Equation 8:

$$Cl_2 + 2\,KI \rightarrow I_2 + 2\,KCl$$

Equation 9:

$$I_2 + 2\,Na_2S_2O_3 \rightarrow Na_2S_4O_6 + 2\,NaI$$

The Chlorine Institute's Pamphlet 96 "Sodium Hypochlorite Manual" is a good reference document for the step-by-step procedure of this method. This document is available for download from the Chlorine Institute's website (www.chlorineinstitute.org) after registering with the site.

Additional Information and Emergency Contacts

For Additional Information

The Chlorine Institute
1300 Wilson Blvd.
Suite 525 Arlington, VA 22209
(703)-894-4140
www.chlorineinstitute.org

- Pamphlet 96, "Sodium Hypochlorite Manual"
- "Avoiding Accidental Mixing of Sodium Hypochlorite" bulletin
- "Sodium Hypochlorite Incompatibility Chart"

The Association for Rubber Products Manufacturers
7321 Shadeland Station Way
Suite 285
Indianapolis, IN 46256
(317)-863-4072
www.arpminc.com

- IP-11-7 "Manual for Maintenance, Testing & Inspection of Chemical Hose"
- IP-4-13 "Procedure for Spark Testing Elastomeric Sheet Lining"

ASTM International
100 Barr Harbor Drive
West Conshohocken, PA 19428
(877)-909-2786
www.astm.org

- Standard Specification for Upright Polyethylene Storage Tanks

Emergency Contacts

In the event of an accident or chemical incident, refer to your site's emergency preparedness plan and the most current Safety Data Sheet (SDS). Should a chemical leak or spill occur, immediately contact the applicable regulatory agency and implement your site's Emergency Action Plan or Emergency Preparedness Plan.

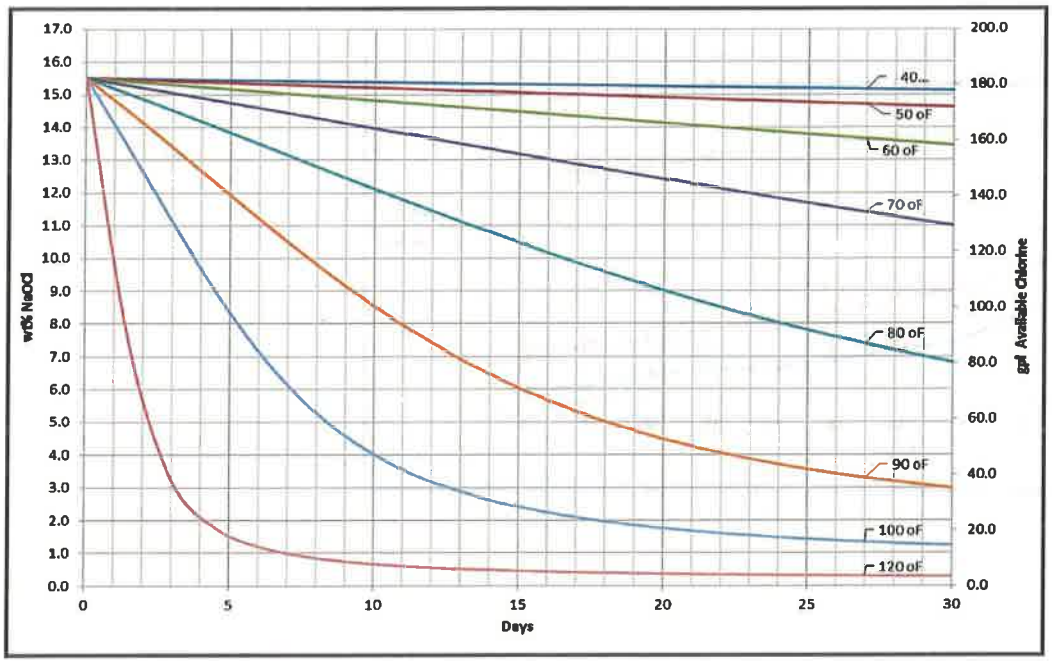
In the U.S.: Call CHEMTREC (toll-free) (800) 567-7455

In Canada: Call CANUTEC (collect) (613) 996-6666

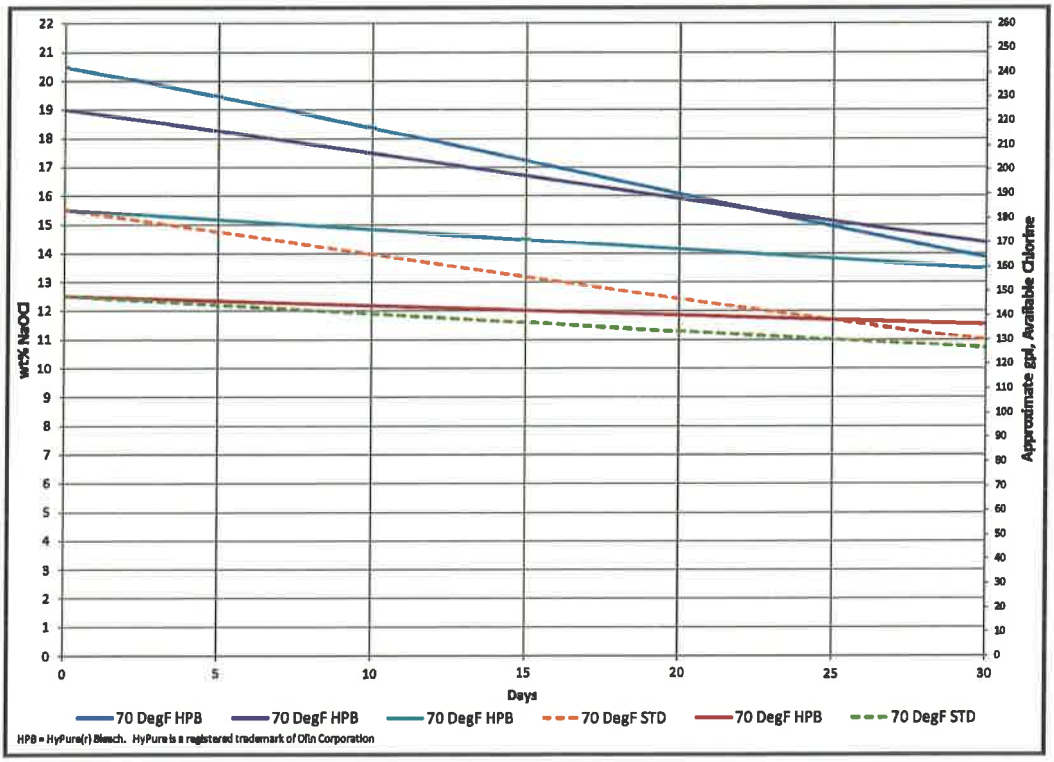
Trademarks

Graph Appendix

Graph 3: Estimated Decomposition of 15.5 wt% Sodium Hypochlorite Solution



Graph 4: Estimated Decomposition of Standard and HyPure® Bleach



North America Contact Information

USA: +1 844 238 3445
Canada: +1 877 304 4442
Mexico: +55 1151884105

Info@olinbc.com
www.OlinChlorAlkali.com

Form No. 100-07230-0419PI

SAFETY DATA SHEET
OLIN CORPORATION

Product name: Sodium Hypochlorite, 5 - 17%

Issue Date: 04/08/2019
Print Date: 04/08/2019

OLIN CORPORATION encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. IDENTIFICATION

Product name: Sodium Hypochlorite, 5 - 17%

Recommended use of the chemical and restrictions on use
Identified uses: Disinfectant. Paper bleaching agent Water treatment chemicals Biocidal product Bleaching agents, activators and stabilisers Textile bleaching agent

COMPANY IDENTIFICATION
OLIN CORPORATION
190 CARONDELET PLAZA
CLAYTON MO 63105
UNITED STATES

Customer Information Number: +1 844-238-3445
INFO@OLINBC.com

EMERGENCY TELEPHONE NUMBER
Local Emergency Contact: 1 800-424-9300

2. HAZARDS IDENTIFICATION

Hazard classification
GHS classification in accordance with 29 CFR 1910.1200
Corrosive to metals - Category 1
Skin corrosion - Category 1B
Serious eye damage - Category 1

Label elements
Hazard pictograms

Signal word: **DANGER!**

Hazards
May be corrosive to metals.
Causes severe skin burns and eye damage.

Precautionary statements

Prevention
Keep only in original container.
Wash skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Wash contaminated clothing before reuse.
Absorb spillage to prevent material damage.

Storage
Store locked up.
Store in corrosive resistant container with a resistant inner liner.

Disposal
Dispose of contents/ container to an approved waste disposal plant.

Other hazards
Contact with acids liberates toxic gas.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Sodium Hypochloride
This product is a substance.

Component	CASRN	Concentration
Sodium hypochlorite	7681-52-9	>= 5.0 - <= 17.0 %
Water	7732-18-5	>= 83.0 - <= 95.0 %
Sodium hydroxide	1310-73-2	>= 0.1 - <= 4.5 %

4. FIRST AID MEASURES

Description of first aid measures

General advice:
First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Skin contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Seek medical attention if symptoms occur or irritation persists. Wash clothing before reuse. Suitable emergency safety shower facility should be immediately available.

Eye contact: - Wash eyes with plenty of water for 15 minutes at least. Do not forget to remove contact lenses. Suitable emergency eye wash facility should be immediately available.

Ingestion: Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.

Most important symptoms and effects, both acute and delayed:
Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed
Notes to physician: May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants, antitussives and corticosteroids may be of help. Maintain adequate ventilation and oxygenation of the patient. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. If burn is present, treat as any thermal burn, after decontamination. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Repeated excessive exposure may aggravate preexisting lung disease.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: In case of fire, use water fog, foam, dry powder, carbon dioxide.

Unsuitable extinguishing media: Do NOT use water jet. May spread fire. Dry chemical extinguishing agents may react with product; use with caution.

Special hazards arising from the substance or mixture
Hazardous combustion products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

Unusual Fire and Explosion Hazards: No data available

Advice for firefighters
Fire Fighting Procedures: For safety reasons in case of fire, containers should be stored separately in closed containments. Do not breathe fumes.

Special protective equipment for firefighters: Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Evacuate area. Only trained and properly protected personnel must be involved in clean-up operations. Wear suitable protective equipment. Keep upwind of spill. Avoid breathing vapor. Ventilate area of leak or spill. Avoid all contact. Keep people away from and upwind of spill/leak. Wear suitable protective clothing. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. Do not discharge directly to a water source. See Section 13, Disposal Considerations, for additional information.

Methods and materials for containment and cleaning up: Contain spilled material if possible. Small spills: Large spills: Absorb with materials such as: Vermiculite. Cover with absorbent or contain. Collect and dispose. Dike and transfer to suitable and properly labeled containers. This material is corrosive. See SECTION 8, Exposure Controls/Personal Protection, prior to handling. Soak up with inert absorbent material (e.g. sand, silica gel, polypropylene absorbent).

7. HANDLING AND STORAGE

Precautions for safe handling: Keep container closed. Do not get in eyes, on skin, or on clothing. Avoid prolonged contact with eyes, skin and clothing. Wear personal protective equipment. Use with adequate ventilation. Protect from direct exposure to sunlight. Use good general industrial hygiene practices for handling. Wash thoroughly after handling.

Conditions for safe storage: Keep container tightly closed. Store away from incompatible materials. See STABILITY AND REACTIVITY section. Store under cover in a dry, clean, cool, well ventilated place away from sunlight. Store away from oxidizing materials. Store in original vented container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
Sodium hypochlorite	US WEEL	STEL	2 mg/m3
Sodium hydroxide	ACGIH	C	2 mg/m3
	OSHA Z-1	TWA	2 mg/m3
	OSHA P0	C	2 mg/m3

Exposure controls

Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/face protection: Use chemical goggles.

Skin protection

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). Avoid gloves made of: Polyvinyl alcohol ("PVA"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Reports indicate that sodium hypochlorite can react with various fabrics usually increasing with concentration. Reactions vary significantly depending on strength of chemical, material, fabric treatment and color of dyes. Fire resistant clothing treated cotton has a stronger response than plain cotton. Poly blend fabrics and meta aramid fabric have a weaker response than natural fibers. Contact the Personal Protective Equipment manufacturer for specific information about their products.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.
The following should be effective types of air-purifying respirators: Particulate filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state	liquid
Color	Not available
Odor	pungent
Odor Threshold	No data available
pH	12 - 14
Melting point/range	-20 °C (-4 °F) *Literature*
Freezing point	-20 °C (-4 °F) *Literature*
Boiling point (760 mmHg)	No data available
Flash point	Not applicable
Evaporation Rate (Butyl Acetate = 1)	No data available
Flammability (solid, gas)	Not expected to form explosive dust-air mixtures.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor Pressure	12 mmHg
Relative Vapor Density (air = 1)	Not available
Relative Density (water = 1)	1.082 - 1.275 at 20 °C (68 °F)

Water solubility	completely miscible
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available No test data available
Kinematic Viscosity	No data available
Explosive properties	Not applicable
Oxidizing properties	No information available. Not applicable
Softening point	No data available
Molecular weight	74.5 g/mol
Pour point	No data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: No data available

Possibility of hazardous reactions: Polymerization will not occur.
Stable under recommended storage conditions.

Conditions to avoid: contact with incompatible materials Avoid direct sunlight or ultraviolet sources. Excessive heat. contact between acids and chlorates, a component of this product mixture, can cause the generation of chlorine gas.

Incompatible materials: No data available

Hazardous decomposition products: Oxygen.

11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

Acute toxicity

Acute oral toxicity
Very low toxicity if swallowed. Swallowing may result in burns of the mouth and throat. Swallowing may result in gastrointestinal irritation or ulceration. May cause nausea and vomiting. May cause abdominal discomfort or diarrhea.

LD50, Rat, > 5,000 mg/kg

Acute dermal toxicity
Prolonged skin contact is unlikely to result in absorption of harmful amounts.

LD50, Rabbit, > 5,000 mg/kg

Acute inhalation toxicity
Excessive exposure may cause irritation to upper respiratory tract (nose and throat) and lungs.

LC50, Rat, dust/mist, > 10.5 mg/l

Skin corrosion/irritation
Brief contact may cause skin burns. Symptoms may include pain, severe local redness and tissue damage.
Prolonged contact may cause severe skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.

Serious eye damage/eye irritation
May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Sensitization
Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:
No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)
Material is corrosive. Material is not classified as a respiratory irritant; however, upper respiratory tract irritation or corrosivity may be expected.

Specific Target Organ Systemic Toxicity (Repeated Exposure)
Repeated exposures to dusts of this material are not anticipated to result in systemic toxicity or permanent lung injury; however, excessive exposures may cause less severe respiratory effects.

Carcinogenicity
Did not cause cancer in laboratory animals.

Teratogenicity
For similar material(s): Has been toxic to the fetus in laboratory animal tests.

Reproductive toxicity
For similar material(s): In animal studies, did not interfere with reproduction. In animal studies, did not interfere with fertility.

Mutagenicity
In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were predominantly negative.

Aspiration Hazard
Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

Toxicity

Acute toxicity to fish
Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).

LC50, Pimephales promelas (fathead minnow), 96 Hour, 0.22 - 0.62 mg/l, Method Not Specified.

Acute toxicity to aquatic invertebrates
EC50, Daphnia magna (Water flea), flow-through test, 48 Hour, 0.035 mg/l, OECD Test Guideline 202

Toxicity to bacteria
EC50, activated sludge, 28.7 mg/l

Long-term (chronic) aquatic hazard
Chronic toxicity to fish
NOEC, Menidia peninsulae (tidewater silverside), flow-through test, 28 d, 0.04 mg/l

Persistence and degradability
Biodegradability: Biodegradation is not applicable.

Bioaccumulative potential
Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Partitioning from water to n-octanol is not applicable.

Mobility in soil
No relevant data found.

13. DISPOSAL CONSIDERATIONS

Disposal methods: AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.

14. TRANSPORT INFORMATION

DOT

Proper shipping name	Hypochlorite solutions
UN number	UN 1791
Class	8
Packing group	II
Marine pollutant	Sodium hypochlorite
Reportable Quantity	Sodium hypochlorite, Sodium hydroxide

Classification for SEA transport (IMO-IMDG):

Proper shipping name	HYPOCHLORITE SOLUTION
UN number	UN 1791
Class	8
Packing group	II
Marine pollutant	Sodium hypochlorite
Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code	Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

Proper shipping name	Hypochlorite solution
UN number	UN 1791
Class	8
Packing group	II

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312
Corrosive to metals
Skin corrosion or irritation
Serious eye damage or eye irritation

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Pennsylvania Right To Know
The following chemicals are listed because of the additional requirements of Pennsylvania law:

Components	**CASRN**
Sodium hypochlorite	7681-52-9
Sodium hydroxide	1310-73-2

California Prop. 65
This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

United States TSCA Inventory (TSCA)
All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

16. OTHER INFORMATION

Product Literature
Additional information on this product may be obtained by calling your sales or customer service contact. Ask for a product brochure. Additional information on this and other products may be obtained by visiting our web page.

Hazard Rating System
NFPA

Health	Flammability	Instability
3	0	0

Revision
Identification Number: 10000001223 / A619 / Issue Date: 04/08/2019 / Version: 2.0
Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
C	Ceiling limit
OSHA P0	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
STEL	Short-Term TWA
TWA	8-hour time weighted average
US WEEL	USA. Workplace Environmental Exposure Levels (WEEL)

Full text of other abbreviations
AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire

Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Information Source and References
This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

OLIN CORPORATION urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.
US

Product Specification

12.5% Sodium Hypochlorite Solution

Potable Water Grade

Olin CHLOR ALKALI PRODUCTS

Characteristics	Units	Min	Max	Reported
Sodium Hypochlorite, NaOCl	wt%	12.5	15.6	X
Available Chlorine	gpl	145.0	185.0	X
Total Alkalinity as NaOH	gpl	1.2	29.0	X
Total Alkalinity as NaOH	wt%	0.1	2.3	X
Actual Sodium Hydroxide, NaOH	wt%	0.1	1.5	X
Sodium Carbonate, Na_2CO_3	wt%	N/A	1.1	X
Density @ 20°C	g/ml	N/A	N/A	X

Meets the Following
EPA Pesticide Registration Required
Certified for the NSF/ANSI-Standard 60 at a maximum use dosage of 84 mg/L

Olin Document Information					
Specification No:	Revision:	Issue Date:	Supersedes:	Review Date:	Sheet No.:
NaOCl-002-P3	0	06/05/2015		06/05/2020	1 of 1

The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of **Tuesday, January 07, 2020** at 12:15 a.m. Eastern Time. Please contact NSF to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information: http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=olin&

NSF/ANSI/CAN 60
Drinking Water Treatment Chemicals - Health Effects

Atlanco of South Carolina, Inc.

2 Bomar Street
Inman, SC 29349
United States
800-415-4405
864-472-3832
Visit this company's website (http://www.atlancoinc.com)

Facility : # 1 USA

Polyacrylamide[PC]

Trade Designation	*Product Function*	*Max Use*
AF3023P	Coagulation & Flocculation	3mg/L
AF3024P	Coagulation & Flocculation	3mg/L
AF3044P	Coagulation & Flocculation	3mg/L
AF3045P	Coagulation & Flocculation	3mg/L
AF3104P	Coagulation & Flocculation	3mg/L
AF3105P	Coagulation & Flocculation	3mg/L
AF3107P	Coagulation & Flocculation	3mg/L
AF3109P	Coagulation & Flocculation	3mg/L
AF3224P	Coagulation & Flocculation	1mg/L
AF3261P	Coagulation & Flocculation	3mg/L
AF3335P	Coagulation & Flocculation	3mg/L
AF3914P	Coagulation & Flocculation	3mg/L
AF3970P	Coagulation & Flocculation	3mg/L
CL1269S	Coagulation & Flocculation	3mg/L

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Certol International, LLC

6120 East 58th Avenue
Commerce City, CO 80022
United States
800-843-3343
303-799-9401
Visit this company's website (http://www.certol.com)

Facility : Commerce City, CO

Miscellaneous Treatment Applications

Trade Designation	*Product Function*	*Max Use*
Acid Magic™ heH®	pH Adjustment	40mg/L

Miscellaneous Treatment Chemical

Trade Designation	*Product Function*	*Max Use*
ACID Magic®	Corrosion & Scale Control Descaler pH Adjustment	40mg/L

Mechanical and Environmental Control, Inc.

108 Cedar Street
Dudley, NC 28333
United States
919-734-1073

Facility : # 1 USA

Aluminum Chloride[AL]

Trade Designation	*Product Function*	*Max Use*
MEC FLOC ACC50	Coagulation & Flocculation	70mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

Poly (Diallyldimethylammonium Chloride)(pDADMAC)

Trade Designation	*Product Function*	*Max Use*
MEC FLOC CLP987013	Coagulation & Flocculation	25mg/L
MEC FLOC CLP996013	Coagulation & Flocculation	50mg/L

Polyacrylamide[PC]

Trade Designation	*Product Function*	*Max Use*
MEC FLOC AEP664613	Coagulation & Flocculation	1mg/L
MEC FLOC AEP774613	Coagulation & Flocculation	2mg/L
MEC FLOC AGP225512	Coagulation & Flocculation	1mg/L
MEC FLOC AGP554613	Coagulation & Flocculation	1mg/L
MEC FLOC CEP222110	Coagulation & Flocculation	1mg/L
MEC FLOC CEP555110	Coagulation & Flocculation	1mg/L
MEC FLOC CEP999113	Coagulation & Flocculation	1mg/L
MEC FLOC CGP555113	Coagulation & Flocculation	1mg/L
MEC FLOC CGP556113	Coagulation & Flocculation	1mg/L
MEC FLOC CGP998113	Coagulation & Flocculation	1mg/L
MEC FLOC NEP225013	Coagulation & Flocculation	3.5mg/L
MEC FLOC NGP225013	Coagulation & Flocculation	1mg/L

[PC] Polyacrylamide Products Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Polyaluminum Chloride[AL]

Trade Designation	*Product Function*	*Max Use*
MEC FLOC ACC75	Coagulation & Flocculation	250mg/L
MEC FLOC CGP125	Coagulation & Flocculation	250mg/L

[AL] Based on an evaluation of health effects data, the level of aluminum in the finished drinking water shall not exceed 2 mg/L.

Polyamines[PY]

Trade Designation	*Product Function*	*Max Use*
MEC FLOC CLP997013	Coagulation & Flocculation	10mg/L
MEC FLOC CLP998013	Coagulation & Flocculation	10mg/L
MEC FLOC CLP999013	Coagulation & Flocculation	10mg/L

[PY] Polyamines Certified by NSF International comply with 40 CFR 141.111 requirements for percent monomer and dose.

Olin Chlor Alkali Products

490 Stuart Road Northwest
Cleveland, TN 37312
United States
423-336-4489

Facility : # 1 USA

Sodium Hypochlorite[CL]

Trade Designation	*Product Function*	*Max Use*
Sodium Hypochlorite 12.5 Bacticide	Disinfection & Oxidation	84mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Olin Chlor Alkali Products and Vinyls

490 Stuart Road Northeast
Cleveland, TN 37312
United States
423-336-4489

Facility : # 2 Distribution Center - Cincinnati, OH

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control	100mg/L

Facility : Bunola, PA

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

Olin DBA Chlor Alkali Products DBA Blue Cube Operations DBA KA Steel

490 Stuart Road
Cleveland, TN 37312
United States

423-336-4489
Visit this company's website (http://www.olin.com)

Facility : Cleburne, TX

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control	100mg/L
Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control	100mg/L
Caustic Soda Solution 50% Membrane Grade	Corrosion & Scale Control	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control	100mg/L

Sodium Hypochlorite[CL]

Trade Designation	*Product Function*	*Max Use*
Sodium Hypochlorite - 12.5 Bacticide	Disinfection & Oxidation	84mg/L
Sodium Hypochlorite 10	Disinfection & Oxidation	105mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE; Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Olin DBA Olin Chlor Alkali Products DBA Blue Cube Operations DBA KA Steel

1001 31st Street
Downers Grove, IL 60515
United States
800-677-8335
630-257-3900

Facility : Distribution Center - Savannah, GA

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Membrane Grade		100mg/L

	Corrosion & Scale Control pH Adjustment	
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Lemont, IL

Hydrochloric Acid

Trade Designation	*Product Function*	*Max Use*
18 Baume Hydrochloric Acid	Corrosion & Scale Control pH Adjustment	40mg/L
20 Baume Hydrochloric Acid	Corrosion & Scale Control pH Adjustment	40mg/L
22 Baume Hydrochloric Acid	Corrosion & Scale Control pH Adjustment	40mg/L
23 Baume Hydrochloric Acid	Corrosion & Scale Control pH Adjustment	40mg/L

Potassium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Potassium Hydroxide 45% Solution	Corrosion & Scale Control	100mg/L
Potassium Hydroxide 50% Solution	Corrosion & Scale Control	100mg/L

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

Sodium Hypochlorite [CL]

Trade Designation	*Product Function*	*Max Use*
High Strength Sodium Hypochlorite [18-18.5% volume][1] [2]	Algicide Disinfection & Oxidation	68mg/L
High Strength Sodium Hypochlorite [Del @ 16] [19-20% volume][1] [2]	Algicide Disinfection & Oxidation	68mg/L

L.T. Sanitizer 5.25% [6% Volume][2]	Algicide Disinfection & Oxidation	200mg/L
Sodium Hypochlorite - 12.5 Bacticide	Algicide Disinfection & Oxidation	84mg/L
Sodium Hypochlorite - 12.5 Bacticide [Del @ 14] [16.5 18% volume][2]	Algicide Disinfection & Oxidation	84mg/L
Sodium Hypochlorite 10%	Algicide Disinfection & Oxidation	105mg/L

[1] High Strength Sodium Hypochlorite (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.
[2] Product trade names may or may not include [Del@#] and [#% Volume] upon shipment.
[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Sauget, IL

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Muscatine, IA

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade		100mg/L

	Corrosion & Scale Control pH Adjustment	
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

Sodium Hypochlorite [CL]

Trade Designation	*Product Function*	*Max Use*
High Strength Sodium Hypochlorite [18-18.5% volume][1] [2]	Disinfection & Oxidation Algicide	68mg/L
High Strength Sodium Hypochlorite [Del @ 16] [19-20% volume][1] [2]	Disinfection & Oxidation Algicide	68mg/L
L.T. Sanitizer 5.25% [6% Volume][2]	Disinfection & Oxidation Algicide	200mg/L
Sodium Hypochlorite - 12.5 Bacticide	Disinfection & Oxidation Algicide	84mg/L
Sodium Hypochlorite - 12.5 Bacticide [Del @ 14][16.5 18% volume][2]	Disinfection & Oxidation Algicide	84mg/L
Sodium Hypochlorite 10%	Disinfection & Oxidation Algicide	105mg/L

[1] High Strength Sodium Hypochlorite (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.
[2] Product trade names may or may not include [Del@#] and [#% Volume] upon shipment.
[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Searsport, ME

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L

Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Baltimore, MD

Potassium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Potassium Hydroxide 45% Solution	Corrosion & Scale Control	100mg/L
Potassium Hydroxide 50% Solution	Corrosion & Scale Control	100mg/L

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Romulus, MI

Sodium Hypochlorite [CL]

Trade Designation	*Product Function*	*Max Use*
High Strength Sodium Hypochlorite [18-18.5% volume][1] [2]	Algicide Disinfection & Oxidation	68mg/L
High Strength Sodium Hypochlorite [Del @ 16] [19-20% volume][1] [2]	Algicide Disinfection & Oxidation	68mg/L
L.T. Sanitizer 5.25% [6% Volume][2]		200mg/L

	Algicide Disinfection & Oxidation	
Sodium Hypochlorite - 12.5 Bacticide	Algicide Disinfection & Oxidation	84mg/L
Sodium Hypochlorite - 12.5 Bacticide [Del @ 14] [16.5 18% volume][2]	Algicide Disinfection & Oxidation	84mg/L
Sodium Hypochlorite 10%	Algicide Disinfection & Oxidation	105mg/L

[1] High Strength Sodium Hypochlorite (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.
[2] Product trade names may or may not include [Del@#] and [#% Volume] upon shipment.
[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Facility : Distribution Center - Cannon Falls, MN

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : St. Louis, MO

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L

Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Bayonne, NJ

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Cincinnati, OH

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

Sodium Hypochlorite[1] [CL]

Trade Designation	*Product Function*	*Max Use*
High Strength Sodium Hypochlorite	Disinfection & Oxidation	68mg/L
Sodium Hypochlorite 10	Disinfection & Oxidation	105mg/L
Sodium Hypochlorite 12.5 Bacticide	Disinfection & Oxidation	84mg/L

[1] High Strength Sodium Hypochlorite is Certified to NSF/ANSI/CAN 60 but are manufacturing use products and cannot be used directly for end use treatment of drinking water. These products can be diluted and used in the manufacture of other products that are certified to NSF/ANSI/CAN 60.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Houston, TX

Potassium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Potassium Hydroxide 45% Solution MB	pH Adjustment Corrosion & Scale Control	100mg/L
Potassium Hydroxide 50% Solution MB	pH Adjustment Corrosion & Scale Control	100mg/L

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Saginaw, TX

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Vancouver, WA

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Olin DBA Olin Chlor Alkali Products DBA Blue Cube Operations DBA KA Steel

490 Stuart Road Northwest
Cleveland, TN 37312

United States
423-336-4489

Facility : McIntosh, AL

Chlorine[CL]

Trade Designation	*Product Function*	*Max Use*
Chlorine	Disinfection & Oxidation	30 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Hydrochloric Acid

Trade Designation	*Product Function*	*Max Use*
20 Baume Hydrochloric Acid	Corrosion & Scale Control	40mg/L
22 Baume Hydrochloric Acid	Corrosion & Scale Control	40mg/L

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control	100mg/L

Sodium Hypochlorite [CL]

Trade Designation	*Product Function*	*Max Use*
High Strength Sodium Hypochlorite[1]	Disinfection & Oxidation	68mg/L
HyPure® Bleach MP1[1]	Disinfection & Oxidation	48mg/L
HyPure® Bleach MP2[1]	Disinfection & Oxidation	55mg/L
HyPure® Bleach MP3[1]	Disinfection & Oxidation	64mg/L
Sodium Hypochlorite 10	Disinfection & Oxidation	105mg/L
Sodium Hypochlorite 12.5 Bacticide	Disinfection & Oxidation	84mg/L
Sodium Hypochlorite 12.5 Bacticide [Del. at 14]	Disinfection & Oxidation	84mg/L

[1] Certified to NSF/ANSI/CAN 60 but is a manufacturing use product and cannot be used directly for end use treatment of drinking water. This product can be diluted and used in the manufacture of other products that are certified to NSF/ANSI/CAN 60.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Bakersfield, CA

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control	100mg/L
Chemical Grade Caustic	Corrosion & Scale Control	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Long Beach, CA

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Richmond, CA

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Santa Fe Springs, CA

Chlorine[CL]

Trade Designation	*Product Function*	*Max Use*
Chlorine	Disinfection & Oxidation Algicide	30 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

Sodium Hypochlorite[CL]

Trade Designation	*Product Function*	*Max Use*
L.T. Sanitizer 5.25%	Disinfection & Oxidation Algicide	200mg/L
Sodium Hypochlorite 12.5% Bacticide	Disinfection & Oxidation Algicide	84mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : South Gate, CA

Potassium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Potassium Hydroxide 45% Solution MB	Corrosion & Scale Control pH Adjustment	100mg/L
Potassium Hydroxide 50% Solution MB	Corrosion & Scale Control pH Adjustment	100mg/L

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

Sodium Hypochlorite [CL]

Trade Designation	*Product Function*	*Max Use*
High Strength Sodium Hypochlorite[1]	Disinfection & Oxidation	68mg/L
HyPure® Bleach MP1[1]	Disinfection & Oxidation	48mg/L
HyPure® Bleach MP2[1]	Disinfection & Oxidation	55mg/L
HyPure® Bleach MP3	Disinfection & Oxidation	64mg/L
Sodium Hypochlorite 12.4 Bacticide [Delivered at 14]	Disinfection & Oxidation	84mg/L
Sodium Hypochlorite 12.5 Bacticide	Disinfection & Oxidation	84mg/L

[1] Certified to NSF/ANSI/CAN 60 but are manufacturing use products and cannot be used directly for end use treatment of drinking water. These products can be diluted and used in the manufacture of other products that are certified to NSF/ANSI/CAN 60.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Tracy, CA

Chlorine[CL]

Trade Designation	*Product Function*	*Max Use*
Chlorine	Disinfection & Oxidation Algicide	30 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Potassium Hydroxide

Trade Designation	*Product Function*	*Max Use*

Potassium Hydroxide 45% Solution MB	pH Adjustment Corrosion & Scale Control	100mg/L
Potassium Hydroxide 50% Solution MB	pH Adjustment Corrosion & Scale Control	100mg/L

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

Sodium Hypochlorite[CL]

Trade Designation	*Product Function*	*Max Use*
High Strength Sodium Hypochlorite	Disinfection & Oxidation Algicide	68mg/L
L.T. Sanitizer 5.25%	Disinfection & Oxidation Algicide	200mg/L
Sodium Hypochlorite 10	Disinfection & Oxidation Algicide	105mg/L
Sodium Hypochlorite 11	Disinfection & Oxidation Algicide	95mg/L
Sodium Hypochlorite 12.5 Bacticide [Del@14]	Disinfection & Oxidation Algicide	84mg/L
Sodium Hypochlorite 12.5-Bacticide	Disinfection & Oxidation Algicide	84mg/L
Sodium Hypochlorite 9	Disinfection & Oxidation Algicide	117mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Tampa, FL

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50%, Commercial Grade		100mg/L

	Corrosion & Scale Control pH Adjustment	
Caustic Soda 50%, Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Augusta, GA

Hydrochloric Acid

Trade Designation	*Product Function*	*Max Use*
Hydrochloric Acid (20, 22, or 23 deg. Baume)	Corrosion & Scale Control	40 mg/L

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control	100mg/L

Sodium Hypochlorite [CL]

Trade Designation	*Product Function*	*Max Use*
High Strength Sodium Hypochlorite[1]	Disinfection & Oxidation Algicide	68mg/L
Sodium Hypochlorite 10	Disinfection & Oxidation Algicide	105mg/L
Sodium Hypochlorite 12.5-Bacticide	Disinfection & Oxidation Algicide	84mg/L
Sodium Hypochlorite 12.5-Bacticide [Del@14]	Disinfection & Oxidation Algicide	84 mg/L
Sodium Hypochlorite 9	Disinfection & Oxidation Algicide	117mg/L
Sodium Hypochlorite Bactichlor 11%	Disinfection & Oxidation Algicide	95mg/L

[1] High Strength Sodium Hypochlorite is Certified to NSF/ANSI/CAN 60 but is a manufacturing use product and cannot be used directly for end use treatment of drinking water. This product can be diluted and used in the manufacture of other products that are Certified to NSF/ANSI/CAN 60.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Edwardsville, IL

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

Facility : Distribution Center - Sioux City, IA

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Membrane Grade	Scale Control	100mg/L

Facility : Plaquemine, LA

Chlorine[CL]

Trade Designation	*Product Function*	*Max Use*
Chlorine	Disinfection & Oxidation Algicide	30mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : St. Gabriel, LA

Chlorine[CL]

Trade Designation	*Product Function*	*Max Use*
Chlorine	Disinfection & Oxidation	30 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100 mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Detroit, MI

Potassium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Potassium Hydroxide 45% Solution MB	pH Adjustment Corrosion & Scale Control	100mg/L
Potassium Hydroxide 50% Solution MB	pH Adjustment Corrosion & Scale Control	100mg/L

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Henderson, NV

Chlorine[CL]

Trade Designation	*Product Function*	*Max Use*
Chlorine	Disinfection & Oxidation Algicide	30mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

Sodium Hypochlorite [CL]

Trade Designation	*Product Function*	*Max Use*
Bacti-Chlor 11%	Disinfection & Oxidation Algicide	95 mg/L
High Strength Sodium Hypochlorite[1]	Disinfection & Oxidation Algicide	68mg/L
HyPure® Bleach MP3[1]	Disinfection & Oxidation Algicide	64mg/L
L.T. Sanitizer 5.25%	Disinfection & Oxidation Algicide	200 mg/L
Sodium Hypochlorite 12.5 Bacticide	Disinfection & Oxidation Algicide	84mg/L
Sodium Hypochlorite 12.5 Bacticide [Del. at 14]	Algicide Disinfection & Oxidation	84mg/L
Sodium Hypochlorite 9%	Disinfection & Oxidation Algicide	117mg/L

[1] Certified to NSF/ANSI/CAN 60 but is a manufacturing use product and cannot be used directly for end use treatment of drinking water. This product can be diluted and used in the manufacture of other products that are certified to NSF/ANSI/CAN 60.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Niagara Falls, NY

Chlorine[CL]

Trade Designation	*Product Function*	*Max Use*
Chlorine	Disinfection & Oxidation	30mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Hydrochloric Acid

Trade Designation	*Product Function*	*Max Use*
18 Baume Hydrochloric Acid	Corrosion & Scale Control	40mg/L
20 Baume Hydrochloric Acid	Corrosion & Scale Control	40mg/L
22 Baume Hydrochloric Acid	Corrosion & Scale Control	40mg/L
23 Baume Hydrochloric Acid	Corrosion & Scale Control	40mg/L

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control	100mg/L

Sodium Hypochlorite [CL]

Trade Designation	*Product Function*	*Max Use*
High Strength Sodium Hypochlorite[1]	Disinfection & Oxidation	68mg/L
HyPure® Bleach MP1[1]	Disinfection & Oxidation	48mg/L
HyPure® Bleach MP2[1]	Disinfection & Oxidation	55mg/L
HyPure® Bleach MP3[1]	Disinfection & Oxidation	64mg/L
Sodium Hypochlorite 10	Disinfection & Oxidation	105mg/L
Sodium Hypochlorite 12.5 Bacticide	Disinfection & Oxidation	84mg/L
Sodium Hypochlorite [Del. at 14]	Disinfection & Oxidation	84mg/L

[1] Certified to NSF/ANSI/CAN 60 but is a manufacturing use product and cannot be used directly for end use treatment of drinking water. This product can be diluted and used in the manufacture of other products that are Certified to NSF/ANSI/CAN 60.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Cincinnati, OH

Sodium Hypochlorite[1] [CL]

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control	100mg/L

Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control	100mg/L
High Strength Sodium Hypochlorite	Disinfection & Oxidation	68mg/L
Sodium Hypochlorite 10	Disinfection & Oxidation	105mg/L
Sodium Hypochlorite 12.5 Bacticide	Disinfection & Oxidation	84mg/L

[1] High Strength Sodium Hypochlorite is Certified to NSF/ANSI/CAN 60 but are manufacturing use products and cannot be used directly for end use treatment of drinking water. These products can be diluted and used in the manufacture of other products that are certified to NSF/ANSI/CAN 60.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Facility : Charleston, TN

Chlorine[CL]

Trade Designation	*Product Function*	*Max Use*
Chlorine	Disinfection & Oxidation	30 mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Hydrochloric Acid

Trade Designation	*Product Function*	*Max Use*
18 Baume Hydrochloric Acid	Corrosion & Scale Control pH Adjustment	40 mg/L
20 Baume Hydrochloric Acid	Corrosion & Scale Control pH Adjustment	40mg/L
22 Baume Hydrochloric Acid	Corrosion & Scale Control pH Adjustment	40mg/L
23 Baume Hydrochloric Acid	Corrosion & Scale Control pH Adjustment	40mg/L

Potassium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Potassium Hydroxide 45% Solution MB	pH Adjustment Corrosion & Scale Control	100mg/L
Potassium Hydroxide 50% Solution MB	pH Adjustment Corrosion & Scale Control	100mg/L

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control	100mg/L

Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control	100mg/L

Sodium Hypochlorite [CL]

Trade Designation	*Product Function*	*Max Use*
Bactichlor 11%	Disinfection & Oxidation	95mg/L
High Strength Sodium Hypochlorite[1]	Disinfection & Oxidation	68mg/L
HyPure® Bleach MP1[1]	Disinfection & Oxidation	48mg/L
HyPure® Bleach MP2[1]	Disinfection & Oxidation	55mg/L
HyPure® Bleach MP3[1]	Disinfection & Oxidation	64mg/L
Sodium Hypochlorite 10%	Disinfection & Oxidation	105mg/L
Sodium Hypochlorite 12.5 Bacticide	Disinfection & Oxidation	84 mg/L
Sodium Hypochlorite 12.5 Bacticide [Del. at 14]	Disinfection & Oxidation	84 mg/L
Sodium Hypochlorite 9%	Disinfection & Oxidation	117mg/L

[1] Certified to NSF/ANSI/CAN 60 but is a manufacturing use product and cannot be used directly for end use treatment of drinking water. This product can be diluted and used in the manufacture of other products that are certified to NSF/ANSI/CAN 60.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Chattanooga, TN

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Memphis, TN

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Freeport, TX

Chlorine[CL]

Trade Designation	*Product Function*	*Max Use*
Chlorine	Disinfection & Oxidation Algicide	30mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

Sodium Hypochlorite [CL]

Trade Designation	*Product Function*	*Max Use*
High Strength Sodium Hypochlorite[1]	Disinfection & Oxidation	68mg/L
Sodium Hypochlorite 10	Disinfection & Oxidation	105mg/L
Sodium Hypochlorite 12.5 Bacticide	Disinfection & Oxidation	84mg/L
Sodium Hypochlorite Bacticide [Del. at 14]	Disinfection & Oxidation	84mg/L

[1] Certified to NSF/ANSI/CAN 60 but is a manufacturing use product and cannot be used directly for end use treatment of drinking water. This product can be diluted and used in the manufacture of other products that are certified to NSF/ANSI/CAN 60.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Houston, TX

Potassium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Potassium Hydroxide 45% Solution MB	Corrosion & Scale Control pH Adjustment	100mg/L
Potassium Hydroxide 50% Solution MB	Corrosion & Scale Control pH Adjustment	100mg/L

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Hopewell, VA

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control	100mg/L
High Strength Sodium Hypochlorite[1] [2]	Disinfection & Oxidation	68mg/L
Sodium Hypochlorite 12.5 - Bacticide[1] [2]	Disinfection & Oxidation	84mg/L

[1] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products should be monitored in the finished drinking water to ensure compliance to all applicable regulations.

[2] High Strength Sodium Hypochlorite is Certified to NSF/ANSI/CAN 60 but are manufacturing use products and cannot be used directly for end use treatment of drinking water. These products can be diluted and used in the manufacture of other products that are Certified to NSF/ANSI/CAN 60.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Appleton, WI

Sodium Hypochlorite [CL]

Trade Designation	*Product Function*	*Max Use*
High Strength Sodium Hypochlorite[1]	Disinfection & Oxidation Algicide	68mg/L
Sodium Hypochlorite 10	Disinfection & Oxidation Algicide	105mg/L
Sodium Hypochlorite 12.5-Bacticide	Disinfection & Oxidation Algicide	84mg/L

[1] Certified to NSF/ANSI/CAN 60 but is a manufacturing use product and cannot be used directly for end use treatment of drinking water. This product can be diluted and used in the manufacture of other products that are certified to NSF/ANSI/CAN 60.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Becancour, Québec, Canada

Chlorine[CL]

Trade Designation	*Product Function*	*Max Use*
Chlorine	Disinfection & Oxidation	30mg/L

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Hydrochloric Acid

Trade Designation	*Product Function*	*Max Use*
Hydrochloric Acid	Corrosion Control pH Adjustment	40mg/l

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda, 50% - Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda, 50% - Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L

Sodium Hypochlorite [CL]

Trade Designation	*Product Function*	*Max Use*
Bactichlor 11%	Disinfection & Oxidation	95mg/L
High Strength Hypochlorite [19 Trade][1]	Disinfection & Oxidation	68mg/L
High Strength Sodium Hypochlorite[1]	Disinfection & Oxidation	68mg/L
Sodium Hypochlorite 10	Disinfection & Oxidation	105mg/L
Sodium Hypochlorite 11 Wt% [12 Trade]	Disinfection & Oxidation	95mg/L
Sodium Hypochlorite 12.5 Bacticide	Disinfection & Oxidation	84mg/L
Sodium Hypochlorite 12.5 Wt% [15 Trade]	Disinfection & Oxidation	84mg/L
Sodium Hypochlorite 12.5 Wt% [16 Trade]	Disinfection & Oxidation	84mg/L

[1] High Strength Sodium Hypochlorite and High Strength Hypochlorite [19 Trade] are certified to NSF/ANSI/CAN 60 but are manufacturing use products and cannot be used directly for end use treatment of drinking water. These products can be diluted and used in the manufacture of other products that are certified to NSF/ANSI/CAN 60.

[CL] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations.

Sulfuric Acid

Trade Designation	*Product Function*	*Max Use*
Sulfuric Acid	Corrosion & Scale Control pH Adjustment	40mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distribution Center - Pictou County, Nova Scotia, Canada

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Distributtion Center - Trois-Rivières, Québec, Canada

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade		100mg/L

	Corrosion & Scale Control pH Adjustment	
Caustic Soda Solution 25%, Industrial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 25%, Industrial Grade Bulk	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50%, Industrial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda Solution 50%, Industrial Grade Bulk	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Commercial Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L
Dilute Membrane Grade Caustic Soda	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Terminal - Concord, Ontario, Canada

Hydrochloric Acid

Trade Designation	*Product Function*	*Max Use*
Hydrochloric Acid	Corrosion & Scale Control	40mg/L

Sodium Hydroxide

Trade Designation	*Product Function*	*Max Use*
Caustic Soda 50% Commercial Grade	Corrosion & Scale Control pH Adjustment	100mg/L
Caustic Soda 50% Membrane Grade	Corrosion & Scale Control pH Adjustment	100mg/L

NOTE: Only products bearing the NSF Mark are Certified.Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Number of matching Manufacturers is 8

Number of matching Products is 356

Processing time was 1 seconds

City of Chattanooga

Mayor Andy Berke

January 13, 2020

Mr. Justin Holland
Administrator, Public Works Department
Waste Resources Division
1250 Market Street, Suite 2100
Chattanooga, TN 37402

Subject: 193211 / 305722 Sewer Line Cleaning Services – Waste Resources Division, Public Works

Dear Mr. Holland:

The Public Works Department may now seek Council approval to issue a blanket contract for Sewer Line Cleaning Services for the Waste Resources Division. The contract will be for twelve (12) months with the option to renew for two (2) additional twelve (12) month terms. The estimated annual expenditure for this contract is $600,000.

The invitation to bid was sent out to six (6) vendors as well as formally advertised. Bids were received from five (5) vendors. Bids are retained on file in the Purchasing Office for your review upon request.

I recommend awarding the blanket contract for Sewer Line Cleaning Services to Sweeping Corporation of America, 713 Melpark Dr., Nashville, TN 37204 as the best bid meeting specifications for the City of Chattanooga.

Respectfully yours,

Vickie Haley

Vickie Haley
Interim Director of Purchasing

VH/ab

Attachments

101 E. 11th Street, Suite G13 • Chattanooga, Tennessee 37402 • Office: (423) 757-5184 • Fax: (423) 643-7244
www.chattanooga.gov

M & M Pipe Services, LLC
1975 Lake City Hwy
Clinton, TN 37716

Universal Service, Inc.
506 Gisbon Pond Rd.
Chattanooga, TN 37421

Sani-Tech JetVac Services, LLC
PO Box 40348
Nashville, TN 37204

Chase Reline, Inc.
6101 Airways Blvd.
Chattanooga, TN 37421

Ace Pipe Cleaning, Inc.
6601 Universal Avenue
Kansas City, MO 64120

Hydrostructures
126 Commerce Court
Pittsboro, NC 27312

Bid Tabulation - Bid 305722

Item #	Item	Quantity	Unit	Sweeping Corporation of America		Performance Contracting, Inc.		EnviroWaste Services Group, Inc		Hydrostructures, P.A.		Video Industrial Services, Inc.	
				Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
1	Combination Jetter/Vacuum Truck	5000	Hour	$ 115.00	$ 575,000.00	$ 121.30	$ 606,500.00	$ 249.00	$ 1,245,000.00	$ 250.00	$ 1,250,000.00	$ 275.00	$ 1,375,000.00
2	Combination Jetter/Vacuum Truck (Emergency)	40	Hour	$ 115.00	$ 4,600.00	$ 175.01	$ 7,000.40	$ 299.00	$ 11,960.00	$ 350.00	$ 14,000.00	$ 300.00	$ 12,000.00
3	Jetter Truck per section	8	Hour	$ 115.00	$ 920.00	$ 121.30	$ 970.40	$ 299.00	$ 2,392.00	$ 250.00	$ 2,000.00	$ 235.00	$ 1,880.00
4	Jetter Truck per section (Emergency)	8	Hour	$ 115.00	$ 920.00	$ 175.01	$ 1,400.08	$ 299.00	$ 2,392.00	$ 350.00	$ 2,800.00	$ 255.00	$ 2,040.00
5	Wheeled easement machine	100	Hour	$ 35.00	$ 3,500.00	$ 15.00	$ 1,500.00	$ 75.00	$ 7,500.00	$ 75.00	$ 7,500.00	$ 50.00	$ 5,000.00
6	Water Usage Charge per specifications (No Bid Line Item)	1	Each	$35 Annual Admin Fee + Usage	$ 35.00	Cost + 10%	Cost + 10%	-	-	$ 1,000.00	$ 1,000.00	-	-
		Total			**$584,975.00**		**$617,370.88**		**$ 1,269,244.00**		**$ 1,276,300.00**		**$ 1,395,920.00**

BID SOLICITATION

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

BID OPENING DATE AND TIME:
09-JAN-20 at 2:00 PM
BID NUMBER: 305722

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS
Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

VENDOR
RFQ

MAIL TO
City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total

Requisition No.: 193211
Bid No.: 305722
Ordering Dept.: Waste Resources Division
Buyer: Amanda Berkowitz
Email: aberkowitz@chattanooga.gov
Phone No.: (423) 643-7233

Items Being Purchased: Sewer Line Cleaning Services

ATTACHMENTS:
Specifications (11 pgs)
Affirmative Action Plan (2 pgs)
Iran Divestment Act (1 pg)
No Contact/No Advocacy Notice Receipt (1 pg)
City of Chattanooga (COC) Terms and Conditions posted on Website
http://www.chattanooga.gov/purchasing/standard-terms-and-conditions
If you can't download call buyer for a copy.

This Shall Be A Twelve (12) Month Blanket Contract To Supply Sewer Line Cleaning Services. The Contract Term May Be Renewed For An Additional Two (2) Twelve (12) Month Term Under The Same Terms And Conditions By Mutual Agreement. The City Of Chattanooga And The Contractor May Bilaterally Extend The Contract By Providing Written Confirmation Of Agreement By Both Parties At Least 30 Days Prior To The Contract's Current Expiration Date Into Any Successive Term As Provided Herein.

QUANTITIES ARE ESTIMATES ONLY THE CITY OF CHATTANOOGA SHALL GUARANTEE NO MINIMUM OR MAXIMUM AMOUNT PURCHASED DURING THE LIFETIME OF THE CONTRACT

*** BID MUST BE RECEIVED NO LATER THAN ***
*** 2:00 PM EST ON JANUARY 9, 2020 ***

**** Vendor Shall Hold Prices Firm for First (1st) Year of Contract ****
Price Escalation Clause
If as a result of a general change in prices or discounts, the Contractor has changed prices to all of its customers, the price under this contract may be adjusted accordingly. Contractor may be requested to show proof of alleged price changes prior to approval of any price adjustments.

NOTE:
ALL BIDS MUST BE SIGNED
All bids received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Bidder acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated.

Any manufacturer;s names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing general quality levels. Such references ar enot intended to be restrictive. Bids will be considered for any brand which meets or exceeds the quality of the specifications listed for any item.

The City of Chattanooga reserves the right to reject any and/or all bids, waive any informalities in the bids received, and to accept any bid which in its opinion may be for the best interest of the city.

BID SOLICITATION

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

BID OPENING DATE AND TIME:
09-JAN-20 at 2:00 PM

BID NUMBER: 305722

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

VENDOR
RFQ

MAIL TO
City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total

The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color, or national origin.

**** NOTE ****
PLEASE PROVIDE US WITH THE FOLLOWING INFORMATION:

Company Name Sweeping Corporation of America

Address 510 Interstate Blvd, Nashville, TN 37210

Phone/Toll-Free No. 615-326-5470

Fax No _____

eMail Address mfield@sweepingcorp.com

Contact Person's Name Mike Field

Estimated Delivery _____

Minority-Owned Business_____ Small Business_____ Veteran_____

Minority Woman-Owned Business_____Disabled Veteran_____

Woman-Owned Business_____

**** ALL ITEMS MUST BE QUOTED F.O.B DESTINATION ****

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

The City is Exempt from all Federal and State Tax.
Bids will be received at the above mentioned address

TERMS OF PAYMENT: Net 30

TELEPHONE NUMBER: 615-843-6828

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein.

COMPANY: Sweeping Corporation of America

SIGNATURE: _____

NAME AND TITLE CFO/Secretary

BID SOLICITATION

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

BID OPENING DATE AND TIME:
09-JAN-20 at 2:00 PM
BID NUMBER: 305722

BUYER:
PHONE #: (423) 643-7230
DELIVERY REQUIRED:

SEALED BIDS
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VENDOR
RFQ

MAIL TO
City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total

The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color, or national origin.

**** NOTE ****
PLEASE PROVIDE US WITH THE FOLLOWING INFORMATION:

Company Name Sweeping Corporation of America

Address 713 Melpark Drive, Nashville, TN 37204

Phone/Toll-Free No. 615-843-6828

Fax No _____

eMail Address mfield@sweepingcorp.com

Contact Person's Name Mike Field

Estimated Delivery _____

Minority-Owned Business_____ Small Business_____ Veteran_____

Minority Woman-Owned Business_____Disabled Veteran_____

Woman-Owned Business_____

**** ALL ITEMS MUST BE QUOTED F.O.B. DESTINATION ****

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NAME AND TITLE: CFO/Secretary

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City of Chattanooga
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VENDOR
RFQ

MAIL TO
City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
1	Combination Jetter/Vacuum Truck	5000	Hour	$115.00	$575,000.00
2	Combination Jetter/Vacuum Truck (Emergency)	40	Hour	$115.00	$4,600.00
3	Jetter Truck per section	8	Hour	$115.00	$920.00
4	Jetter Truck per section (Emergency)	8	Hour	$115.00	$920.00
5	Wheeled easement machine	100	Hour	$35.00	$3500.00
6	Water Usage Charge per specifications (No Bid Line Item)	1	Each	$35.00	$35.00

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

The City is Exempt from all Federal and State Tax.
Bids will be received at the above mentioned address.

TERMS OF PAYMENT: Net 30

TELEPHONE NUMBER: 615-843-6828

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein.

COMPANY: Sweeping Corporation of America

SIGNATURE:

NAME AND TITLE: CFO/Secretary

SPECIFICATIONS FOR ANNUAL BLANKET CONTRACT TO SUPPLY SEWER LINE CLEANING SERVICES FOR THE WASTE RESOURCES DIVISION CITY OF CHATTANOOGA, TENNESSEE

1.0 GENERAL

1.1 SCOPE OF SERVICES

The Scope of Services included in these Specifications shall be for the provision of sanitary sewer, combined sewer, storm sewer, pump station, and tank cleaning labor services and related materials and equipment on an as-needed basis for the Moccasin Bend Wastewater Treatment Plant (MBWWTP) and related facilities of the Waste Resources Division, including Combined Sewer Overflow Treatment Facilities (CSOTF), and Sanitary and Stormwater Pump Stations. The Moccasin Bend Wastewater Treatment Plant (MBWWTP) is located at 455 Moccasin Bend Road, Chattanooga, Tennessee 37405.

1.2 BASIS OF BIDDING

The cost per hour shall include any and all costs for wages, benefits, indirect costs, overhead and profit, insurance, and any other related direct or indirect cost. The cost per hour shall be for the services for a two-person crew and truck of the stated classification and any and all equipment necessary to perform the work described herein.

The Vendor shall also provide hourly rates for overtime for the various work described. Emergency work as described in Section 2.2.1.D of these specifications shall be paid for at the stated overtime rate.

1.3 References and Experience

The Vendor shall provide the following regarding qualifications:

A. The Vendor shall provide documentation of a minimum of 5 years' experience with description of capabilities and recent experience in providing sewer line cleaning services of the type contemplated under this request.

B. The Vendor shall provide a list of municipal sewer line cleaning projects as follows:

1. At least two (2) municipal project(s) for which the Vendor is providing, or has within the past five (5) years provided long term, high volume sewer line cleaning services (minimum 500,000 feet per year) of sewer line cleaning of lines greater than 6 inches in diameter.

2. At least two (2) municipal projects for which the Vendor has provided within the past five (5) years, high volume cleaning services (minimum 5,000 feet per year) of sewer line cleaning of lines greater than 24 inches in diameter.

3. At least one (1) municipal project for which the Vendor has provided within the past five (5) years, high volume cleaning services (minimum 5,000 feet per year) of sewer line cleaning of lines in easements.

This list of projects shall contain the following information for each project listed:

a. Name, address, and phone number of the Municipality.
b. Name, fax number, and phone number of a representative of the Municipality who is knowledgeable about the project.
c. Brief description of the services provided, sewer line footage cleaned, the duration of the contract, and bid basis of contract ($/ft, $/hr, etc.)
d. A statement of the approximate value of the contract.
e. A statement of when the contract was completed.

C. Experience

The Vendor shall provide resumes of the Vendor's Project Manager and key technical and operations personnel.

1. The Vendor shall provide a description of its workforce including number of skilled personnel and their length of service with the company.

2.0 SERVICES AND OTHER REQUIREMENTS

2.1 GENERAL

2.1.1 Subcontractors

The Vendor shall not subcontract the services or assign the contract to others without the written consent of the City of Chattanooga.

2.1.2 Compliance with Applicable Regulations

All of the services provided by the Vendor shall be completed in a good and workmanlike manner. All services provided shall be in compliance with all applicable statutes, rules,

ordinances and regulations of, but not limited to, the USEPA, TDEC, TDOT, OSHA, and any similar federal, state, and local laws or regulations applicable to the Vendor or to the services described herein.

The Vendor's personnel shall comply with all City, Waste Resources Division, and Moccasin Bend WWTP work rules and regulations when on site.

2.1.3 Inspection

The services furnished by the Vendor shall be subject to inspection and approval by the City's designated representative, but the manner and method of providing the services shall be the responsibility of the Vendor.

2.1.4 Failure to Provide Services and Termination of Contract

In the event the Vendor:

a. Fails to initiate services on the date specified or otherwise agreed to;
b. Fails to provide all of the required documentation for his personnel, insurance, and any other documentation required by these Specifications at the specified times;
c. After having begun services, abandons them for any reason;
d. Suspends or refuses to continue services; or
e. Defaults in any manner in the performance under the terms of the Contract for a period of two (2) consecutive working days (unless the Vendor is prevented from continuing for reasons beyond its control);

The City of Chattanooga shall have the right to terminate the Contract immediately upon written notification by the City for the reasons listed above and the City shall complete the Contract or have the services completed by another vendor in any reasonable manner at the Vendor's expense.

2.2 DESCRIPTION OF CONTRACTED SERVICES

2.2.1 General

A. The Vendor shall provide equipment and labor services for the line cleaning and root removal for sanitary and combined sewer lines and structures throughout the City-owned and operated wastewater collection system, the Moccasin Bend Wastewater Treatment Plant, and related Waste Resources Division facilities. The Vendor shall provide all labor, benefits, tools, equipment, fuel, materials and other related expenses necessary to provide these services.

B. The Vendor shall provide the services on an "as needed" basis as requested by the City. The City will attempt to schedule the work to optimize the use of the Vendor's personnel and equipment when it is needed.

C. Vendor shall perform work on straight time, i.e., non-emergency, unless otherwise noted. Overtime, weekend, or holiday work shall only be performed at the City's direction.

D. Vendor shall perform emergency work when requested by the City. Response to the need for emergency work shall be within four (4) hours of notification. Emergency work will be paid at overtime rates. Vendor shall supply an after-hours contact name and phone number through which notification of the need for emergency work shall be made.

2.2.2 Vendor Services

A. The Vendor shall provide trained personnel to perform various tasks requested by the City in accordance with the agreed hourly rates. Hourly rate shall include all typical hand tools and equipment used by sanitary sewer line cleaning crews. Concave root cutters up to 15-inch diameter and general cleaning nozzles shall be considered incidental to the work and shall be supplied by the Vendor. Specialized equipment shall have separate hourly rates (see Paragraph 2.2.2-C below).

B. The Vendor shall provide the services of a superintendent or project manager as needed to review the various projects and assignments with City personnel, to determine labor, materials, and equipment needed, and to provide any other planning, sketches, drawings, product research, or other requirements of the work.

C. The Vendor shall provide, as applicable to the various work assignments, available equipment owned by Vendor. Hourly rates for use of Vendor's equipment shall be provided.

D. The Vendor shall provide electronic personnel time sheets for all work performed, indicating the personnel classification, hours of work, use of specialized equipment, and/or use of approved subcontractors. Upon completion of each project or assignment, vendor shall obtain the signature of the responsible City supervisor on the time sheets, and provide a copy of the signed timesheets to the City supervisor.

E. The Vendor shall ensure that upon completion of work assignments, all materials and equipment are cleaned up and/or removed, all materials requiring disposal are removed, all equipment is properly stored, and the work area is completely cleaned. The City supervisor shall review and sign off on the completion of these tasks, giving final approval of the work.

F. Vendor cleaning equipment shall meet the following minimum specifications:

1. Jetter and Combination Jetter/Vacuum trucks shall be late model (no more than three model years old). Combination trucks shall be minimum 9-yard dump body with a vacuum system capable of 3600 CFM free air at 16" of Mercury vacuum, 80 GPM@2500 PSI delivered through 500' of 1" diameter hose. Combination Cleaning water capacity shall be at least 1000 gallons. Jetter trucks shall be capable of a minimum 50 GPM @2500 PSI delivered through 500' of 1" diameter hose. Cleaning water capacity shall be at least 750 gallons.
2. Jetter, Wheeled Easement machine and Combination Jetter/Vacuum trucks shall be in working condition within 24 hours of any unforeseen issues that arise or repairs that are needed.

G. The truck price per hour shall include one complete crew, consisting of, as a minimum, one truck operator and one laborer to operate the Vendor's equipment. The crew shall be trained in the operation of all of the above equipment, traffic control procedures and OSHA safety rules and regulations associated with sewer line cleaning services.

H. The Vendor shall provide a resume or work history for all personnel being provided for this contract prior to beginning the work. If personnel change during the course of the work, work histories or resumes shall be provided prior to commencement of the work. The Vendor shall provide all labor, equipment, materials, fuel, utilities, insurance, and other related services required in connection with the contract for sewer line cleaning services for the removal and disposal of all dirt, silt, gravel, sand, wood, roots, leaves, grease, rags, sewage solids, various types of chemical scales, semi-solids, and any other debris that may be found in municipal sewer systems including interceptor sewers, sanitary and combined collection systems, related manholes, junction boxes, and other sewers and sewer structures as designated by the City.

Included, but not limited to, are the following specific items of work:

1. Clean and remove debris and roots from up to 200± miles of sewers annually. Clean up to an average of 2500 feet per day (±10 percent) of small sewer lines over the duration of the project. The quantity of large line cleaning and easement cleaning will be mutually agreed upon by the City and the Vendor as needed.

2. Re-clean any sewer lines found to be deficient as a result of City's inspection at no charge to the City.

3. Actual amount of work performed will be based on the amount of City funding available. Work in excess of the quantity listed above may be increased in future years, if additional City funding is available and both City and Vendor are in agreement.

I. The Vendor shall obtain all necessary permits and approvals from all regulatory agencies and provide the City with proof of same.

J. The Vendor shall furnish labor, including as a minimum, the following:

1. Provide two (2) complete and independent Crews, consisting of, as a minimum, one (1) operator and one (1) laborer/flagman to operate the Vendor's equipment to wash, collect, remove and dispose of debris from sanitary system.

2. Provide a Crew thoroughly trained in the operation of all of the above equipment, traffic control procedures, and OSHA safety rules and regulations associated with sewer line cleaning services.

3. Provide Crew Leader that is a properly licensed CDL operator. Provide copy of CDL license to City before beginning work. If Crew Leader is replaced or reassigned, a copy of his replacement's CDL license shall be provided before he can begin work.

4. Provide to the City a resume or work history for all personnel being provided for this contract prior to beginning the work. If personnel changes during the course of performing the work, provide to the City a resume or work history for the new personnel being provided prior to beginning the work.

K. The Vendor shall provide normal traffic control measures during execution of the work.

L. The Vendor shall provide a communication device to the City in order to have reliable communications between the Vendor and the City. (i.e. two-way radio, cell phone, etc).

M. The Vendor shall schedule work to be performed during City's normal work hours Monday through Friday, 7:30 am until 4:00 pm, unless otherwise mutually agreed upon by the City and the Vendor (no work shall be scheduled for holidays not worked by the City).

The Vendor shall schedule work to begin when the City provides the work orders and project instructions to the Vendor and to end 0.5 hour after completing the final job of the day to allow the Vendor to return to the project base location.

N. The Vendor shall coordinate the contract for specified sewer line cleaning services with the City's operating schedule.

O. The Vendor shall conduct the contract for sewer line cleaning services in compliance with all applicable federal, state, and local laws, regulations, permits, and approvals.

P. The Vendor shall provide adequate supervision and technical and managerial oversight of the Vendor's employees, subcontractors, and agents.

Q. The Vendor shall provide a written Contingency Plan that addresses, as a minimum, the following circumstances:

1. Abnormal weather conditions that could interrupt the sewer line cleaning services.

2. Changes in personnel that could disrupt the sewer line cleaning services.

3. Malfunction of equipment items related to the sewer line cleaning services.

4. Damage to private property during the performance of the sewer line cleaning services.

5. Emergency cleaning services.

6. Re-cleaning of sewer lines found to be deficient as a result of City's inspection.

R. The Vendor shall conduct operations so as not to cause a nuisance to the public involving odors, dust, vectors, or noise.

S. The Vendor shall obtain all necessary permits and approvals from all regulatory agencies, and furnish copies of all required permits and approvals to the City.

T. The Vendor shall provide and submit reports and certifications as required by all applicable EPA and/or State regulations, and furnish copies of all required reports to the City in a timely manner.

U. The Vendor shall complete the service work assigned in a good and workmanlike manner. The Vendor and Vendor's personnel shall comply with all applicable statutes, rules, ordinances and regulations of, but not limited to, the USEPA, TDOT, OSHA, and any similar federal, state, and local laws or regulations applicable to the Proposer or to the services described herein.

V. The Vendor's personnel shall comply with all City, Waste Resources Division, and Moccasin Bend WWTP work rules and regulations when on site.

W. The Vendor's services shall be subject to inspection and approval by the City's designated representative, but the manner and method of providing the services shall be the responsibility of the Vendor.

X. Water used by Vendor shall be from a metered supply with an approved backflow device to protect the water supply. All water usage logs will be provided on the first business day of the month for the preceding month.

2.2.3 City Supplied Services

A. The City will designate a Project Coordinator and Inspector to oversee the Vendor's work.

B. The City will designate line segments to be cleaned by means of work orders and project lists.

C. The City will provide all water and disposal necessary for cleaning operations.

D. The City will identify the locations for disposal of debris from cleaning operations.

3.0 EXECUTION

3.1 CONTRACT STARTING DATE

The Contract for the full services shall begin immediately on the effective date of the award of the Contract.

3.2 CLEANING

A. Cleaning will be accomplished by utilizing a high pressure, hydraulic sewer pipeline cleaner. Pressure jetting equipment used shall be sufficient for the purposes of attaining the degree of cleanliness in sewers as specified.

B. The cleaning unit(s) shall be capable of operating routinely, up to a minimum of 500 feet from the point of access to the sewer; minimal hose diameter shall be 1 inch.

C. The Contractor's rates specified in the Proposal Forms shall be for jetting in sewers both upstream and downstream.

D. Successive passes using constantly moving pressure jetting techniques shall be applied to sewers until they are cleaned to the level specified. Nozzle hold-time (stationary time), for any particular location, shall not be more than 60 seconds in order to forestall damage to the pipe being cleaned. Ideally nozzles shall have jet angles of between 30° to 45°. "High efficiency nozzles" (discharging "pencil jets") with jet angles higher than this figure shall not be allowed to be stationary at any time.

E. Cleaning shall be done immediately prior to the internal inspection to preclude the build-up of debris from infiltration/inflow sources and upstream manhole sections. Should television inspection reveal that a sewer pipeline is not clean; the cleaning operations shall be repeated until the sewer pipeline is clean. This additional cleaning shall be done at the expense of the Contractor, at no additional cost to the Owner.

F. During preconditioning and cleaning work and all other associated Contract operations, sewer services shall be maintained at all times. This requirement may be relaxed only with the written approval of the Engineer.

G. The manholes and sewers to be preconditioned and cleaned convey sanitary sewage or combined sewage. In many instances such sewers are subject to high flows, either continuously or in a periodically varying cycle, due to rainfall, infiltration, and/or pumping operations. The Contractor shall include in his proposal provisions for dealing with such variations, and where necessary, schedule his Work to accommodate such variation in flows.

H. Cleaning shall include the trapping and removal of all sediments and residual wastes from successive manholes as the cleaning progresses. When hydraulic cleaning equipment is used, a suitable weir or dam shall be constructed in the downstream manhole, in such a manner, that the solids and water are trapped. Under no circumstances shall sewage or solids removed there from, be dumped onto streets, in catch basins or in storm drains. Material which could cause pipeline stoppages, accumulations of sand in wet wells, or damage to pumps, shall not be permitted to pass from manhole section to manhole section. The cost of trapping, removing, hauling and disposing of the residual wastes shall be included in the cost of cleaning. Disposal of residual wastes shall be in accordance with, and at a location approved by the Engineer and the Owner.

I. The Contractor shall provide for the pumping down of any surcharged manhole section and provide all bypass pumping, if required, during the cleaning operation. All bypass pumping shall be approved by the Engineer.

J. The Contractor shall submit a comprehensive equipment list to the Engineer before commencement of the Work. The complete list, which shall include all backup and standby equipment, shall be broken down into the following categories (at a minimum):

1. Safety equipment
2. Manhole preconditioning and cleaning equipment
3. Sewer preconditioning and cleaning equipment
4. Flow diversion and flow control equipment
5. Traffic control equipment
6. All other equipment necessary for the completion of the work.

K. Blockages in the system shall be reported to the Engineer immediately.

L. A responsible representative of the Contractor shall be present on the site of the work, or other location approved by the Engineer, to provide supervision of the work. At all times, and

especially when a change of work location is underway, the Contractor's representative shall keep the Engineer continuously aware of the location, progress, planned execution of the work, and problems encountered.

3.3 PRECAUTIONS

A. The Contractor shall take all necessary precautions to ensure that water used does not flood property or buildings served by the sewer pipeline being cleaned.

B. No fire hydrant shall be obstructed, in case of a fire in the area served by the hydrant.

C. The Contractor shall take all necessary precautions to protect the sewer pipelines from damage that might be inflicted by improper use of cleaning equipment and shall repair, at no cost to the Owner, any damage caused by the cleaning operation.

D. The Contractor shall furnish, to the Owner, certification of the accuracy of the automatic counter before any work shall begin on this Project. If, at any time, the Engineer has reason to believe that the counter is inaccurate, the calibration of the counter will be checked before any more work progresses.

E. The Contractor shall provide, operate, maintain and subsequently remove on completion, adequate ventilation apparatus in the form of blowers and/or fans. The ventilation apparatus shall introduce a fresh air supply to support a safe environment for Work in sewers, manholes and all other confined spaces, which shall be kept free from dangerous, toxic and/or explosive gases, whether generated from sewage, soil strata or other source.

F. The Contractor shall employ the "best practicable means" to minimize and mitigate noise as well as vibration resulting from operations. Mitigation measures shall include the utilization of sound suppression devices on all equipment and machinery particularly in residential areas and in the near vicinity of hospitals and schools, especially at night.

G. The Contractor shall inform the Engineer before the commencement of any portion of the work of any significant change in the methods of noise attenuation from those previously approved.

H. All pumps, generators, combination cleaners or other noise emitting equipment shall be suitably screened to minimize nuisance and noise pollution. This requirement shall not be taken as preventing or prohibiting the execution of work necessary for the saving of life, protection of property, or safety of the personnel and/or facilities. The Contractor shall notify the Engineer of such use of plant or equipment in an emergency situation as soon as practicable.

3.4 DATA COLLECTION

A. The Contractor shall complete a cleaning report for each sewer segment cleaned. A hard copy of this report shall be furnished on a weekly basis to the Engineer. The information required on the cleaning report shall be as follows:

1. Location, size and condition of sewer line. Location will be indicated by road name, intersection(s) and GPS coordinates. Size will be indicated by nominal internal diameter. Condition will be indicated by narrative describing visual observation and the items below, augmented by photos where needed.
2. Degree and nature of deposits prior to cleaning.
3. Length of sewer cleaned.
4. Estimated amount and types of debris and sediment removed. Indicate approximate location
5. Grease build-ups. Indicate approximate location.
6. Structural failures. Indicate approximate location.
7. Blockages. Indicate percent blockage or free area,
8. Method and man hours actually expended for cleaning.

B. Contractor shall provide a monthly list of each sewer line cleaned in Microsoft Excel format (.xls or .xlsm). The list shall include the following information by line segment:

1. Upstream Manhole (USMH) Facility ID
2. Downstream Manhole (DSMH) Facility ID
3. Pipe Segment Facility ID (using the convention "USMH_DSMH")
4. Date cleaned
5. Pipe Segment length (from City GIS map)
6. Total footage cleaned
7. Total number of cleaning passes
8. Notes pertaining to any structural or O&M issues noted, access issues, and/or cleaning issues
9. Facility ID of Pipe Segment, USMH, or DSMH that is not shown in the City's GIS map

Affirmative Action Plan

The City of Chattanooga is an equal opportunity employer and during the performance of this Contract, the Contractor agrees to abide by the equal opportunity goals of the City of Chattanooga as follows:

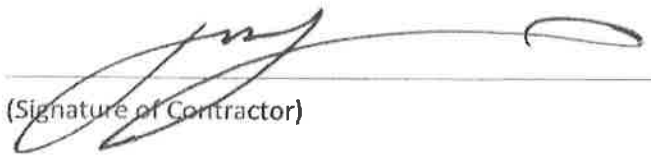
1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or handicap. The Contractor will take affirmative action to ensure that applicants are employed, and the employees are treated during employment without regard to their race, color, religion, sex, national origin, or handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay, or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or handicap.
3. The Contractor will send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. During the term of this contract the following non-discriminatory hiring practices shall be employed to provide employment opportunities for minorities and women:
    a. All help wanted ads placed in newspapers or other publications shall contain the phrase "Equal Employment Opportunity Employer."
    b. Seek and maintain contracts with minority groups and human relations organizations as available.

c. Encourage present employees to refer qualified minority group and female applicants for employment opportunities

d. Use only recruitment sources which state in writing that they practice equal opportunity. Advise all recruitment sources that qualified minority group members and women will be sought for consideration for all positions when vacancies occur.

5. Minority statistics are subject to audit by City of Chattanooga staff or other governmental agency.

6. The Contractor agrees to notify the City of Chattanooga of any claim or investigation by State or Federal agencies as to discrimination.



(Signature of Contractor)

CFO - Sweeping Corporation of America

(Title and Name of Company)

1/2/20

(Date)

Chapter No. 817 (HB0261/SB0377).
"Iran Divestment Act" enacted.
Vendor Disclosure and Acknowledgement

By submission of this bid, each proposer and each person signing on behalf of any proposer certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each proposer is not on the list created pursuant to § 12-12-106.

(SIGNED) 

(PRINTED NAME) John Landefeld

(BUSINESS NAME) Sweeping Corporation of America

(DATE) 1/2/20

No Contact/No Advocacy
Notice Receipt

City of Chattanooga
Purchasing Division

For Submission with Quote Responses:

John Landefeld (Vendor Agent name), states that:

(1) He/She is the owner, partner, officer, representative, or agent of Sweeping Corporation of America (Business name), the Submitter of the attached sealed solicitation response to Solicitation # 305722, and said Business has taken notice, and will abide by the following No Contact and No Advocacy clauses:

NO CONTACT POLICY: After the posting of this solicitation, a potential submitter is prohibited from directly or indirectly contacting any City of Chattanooga representative concerning the subject matter of this solicitation, unless such contact is made with the Purchasing Division.

NO ADVOCATING POLICY: To ensure the integrity of the review and evaluation process, companies and/or individuals submitting sealed solicitation responses, as well as those persons and/or companies formally/informally representing such submitters, may not directly or indirectly lobby or advocate to any City of Chattanooga representative.

Any business entity and/or individual that does not comply with the No Contact and No Advocating policies may be subject to the rejection or disqualification of its solicitation response from consideration.

Submitter Signature:

Printed Name: John Landefeld

Title: CFO/Secretary

Date: 1/2/20

CITY OF CHATTANOOGA

Direct all invoices to:
City of Chattanooga
Attn: Accounts Payable
101 E. 11th Street
Chattanooga, TN 37402

PURCHASING OFFICE
101 E. 11th Street, Suite G13
Chattanooga, TN 37402
Phone: 423-643-7230

City of Chattanooga Purchase Order Standard Terms and Conditions

1. **ACCEPTANCE-AGREEMENT.** Contractor's commencement of work on the goods/non-professional services subject to the purchase order or shipment/performance of those goods/non-professional services, whichever occurs first, is considered an effective mode of Contractor's acceptance of this purchase order. Any acceptance of the purchase order is limited to acceptance of the express terms contained on the face of the purchase order and these terms and conditions. Any proposal for additional or different terms or any attempt by Contractor to vary in any degree any of the terms of this offer in Contractor's acceptance is objected to and rejected, but any proposals do not operate as a rejection of this offer unless the variances are in the terms of the description, quantity, price or delivery schedule of the goods/non-professional services, but are considered a material alteration, and this offer will be considered accepted by Contractor without additional or different terms. Additional or different terms or any attempt by Contractor to vary in any degree any of the terms of this purchase order are considered material and are objected to and rejected, but the purchase order does not operate as a rejection of the Contractor's offer unless it contains variances in the terms of the description, quantity, price or delivery schedule of the goods/non-professional services.

2. **GOVERNING LAW.** This Agreement shall be governed by the laws of the State of Tennessee and the Codes of the City of Chattanooga ("City").

3. **COMPENSATION AND PAYMENT TERMS.** For the completion of the Work, City shall pay Contractor the contract sum set forth in the purchase order. Payments may be made in amounts which are consistent with percentage of goods/non-professional services completed and invoiced by the Contractor as set forth in the purchase order.

   The City's delivered payment terms are payment within thirty (30) days except where the law provides otherwise. Payment may be sooner where cash discounts are offered for early payment, however, cash discounts offered will not be considered in determining lowest bidder. In no event will payment be made prior to receipt of an original invoice containing invoice and purchase order numbers and receipt of purchased item(s). The City is not liable for delays in payment caused by failure of the Contractor to send invoice to the address referenced herein.

4. **INSPECTION/TESTING.** Payment for the goods delivered does not constitute acceptance of the goods. City has the right to inspect the goods and to reject any or all of the goods which are in City's judgment defective or nonconforming. Goods rejected and goods supplied in excess of quantities called for may be returned to Contractor at its expense and in addition to City's other rights. City may charge Contractor all expenses of unpacking, examining, repacking and reshipping those goods. In the event City receives goods whose defects or nonconformity is not apparent on examination, City reserves the right to require replacement, as well as payment of damages. Nothing contained in this purchase order will relieve in any way the Contractor from the obligation of testing, inspection and quality control.

5. **PRICE WARRANTY.** Contractor warrants that the prices for the goods or non-professional services sold City are not less favorable than those currently extended to any other customer for the same or similar goods or non-professional services in similar quantities. In the event Contractor reduces its price for the goods or

non-professional services during the term of this purchase order, Contractor agrees to reduce the prices charged to City correspondingly. Contractor warrants that prices shown on this purchase order are complete, and no additional charges of any type will be added without City's express written consent. Any additional charges include, but are not limited to, shipping, packaging, labeling, custom duties, taxes, storage, insurance, boxing, crating.

6. **STANDARD OF CARE.** Contractor shall exercise the same degree of care, skill, and diligence in the performance of services as is ordinarily possessed and exercised by a professional Contractor under similar circumstances in the same area of practice. Contractor makes no warranty or guarantee, either expressed or implied, as part of this agreement.

7. **INDEMNIFICATION.** Contractor must defend, indemnify and hold harmless the City against all damages, claims or liabilities and expenses (including attorney's fees) arising out of or resulting in any way from any defect in the goods or services purchased, or from any act or omission of Contractor, its agents, employees or subcontractors. Additionally, Contractor shall defend, indemnify and hold harmless City from and against any and all Third Party claims and liabilities (including, without limitation, reasonable attorneys' fees and costs), regardless of the form of action, arising out of or in connection with a claim that the Services or Software, when used within the scope of this Agreement, infringes, violates or misappropriates a valid third party patent, copyright or other proprietary right, provided that Contractor is notified promptly in writing of the action and Contractor is given the option, at its expense, to control the action and all requested reasonable assistance to defend the same.

8. **INSURANCE.** Contractor shall purchase and maintain during the life of this Agreement, insurance coverage which will satisfactorily insure Contractor against claims and liabilities which arise because of the execution of this Agreement, with the minimum insurance coverage as follows:

   a. **Commercial General Liability Insurance**, with a limit of $1,000,000 for each occurrence and $2,000,000 in the general aggregate.

   b. **Automobile Liability Insurance**, with a limit of $1,000,000 for each accident, combined single limit for bodily injury and property damage.

   c. **Worker's Compensation Insurance and Employer's Liability Insurance**, in accordance with statutory requirements, with a limit of $500,000 for each accident.

   d. **Professional Liability Insurance**, with a limit of $1,000,000 for each claim and aggregate.

Contractor shall not commence work on the goods/non-professional services until a Certificate of Insurance has been submitted to the City showing proof that Contractor has obtained the necessary insurance coverage. If any of the above cited policies expire during the life of this Agreement, it is the Contractor's responsibility to forward renewal Certificates within ten (10) days after the renewal date containing all the aforementioned insurance provisions. Certificates must specifically cite the following provisions:

   i. City of Chattanooga, its agents, representatives, officers, directors, officials and employees must be named an Additional Insured under the following policies:

      a) Commercial General Liability
      b) Auto Liability

   ii. Contractor's insurance must be primary insurance as respects performance of subject contract.

iii. All policies, expect Professional Liability Insurance, if applicable, waives rights of recovery (subrogation) against City of Chattanooga, its agents, representatives, officers, directors, officials and employees for any claims arising out of work or services performed by Contractor under this Agreement.

9. **LIMITATIONS OF RESPONSIBILITY.** In no event is City liable for anticipated profits or for incidental or consequential damages. City's liability on any claim of any kind for any loss or damage arising out of or in connection with or resulting from this Agreement or from the performance or breach of this Agreement will in no case exceed the unit price allocable to the goods or non-professional services which gives rise to the claim. City is not liable for penalties of any description. Any action resulting from any breach of this Agreement by City as to the goods or non-professional services delivered must be commenced within one (1) year after the cause of action has accrued.

10. **PROPRIETARY INFORMATION-CONFIDENTIALITY-ADVERTISING.** Contactor must consider all information furnished by City to be confidential and not disclose any information to any other person, or use the information itself for any purpose other than performing this Agreement, unless Contractor obtains written permission from City to do so. This paragraph applies to drawings, specifications, or other documents prepared by Contractor for City in connection with this Agreement. Contractor must not advertise or publish the fact that City has contracted to purchase goods from Contractor, nor is any information relating to the order to be disclosed without City's written permission. No commercial, financial or technical information disclosed in any manner or at any time by Contractor to City is to be considered secret or confidential, unless otherwise agreed in writing, and Contractor has no rights against City with respect to this information except any rights as may exist under patent laws. Contractor recognizes that City's employees have no authority to accept any information in confidence.

11. **RECORDS RETENTION AND AUDIT.** The term "Contractor" is used interchangeably to describe signatories to contracts, grants, and agreements with the City and applies to reflect the relationship with the City (Engineer, Contractor, Licensee, Supplier, Vendor, Contractor, Grant Recipient, etc.)

a. All records relating in any manner whatsoever to the Project, or any designated portion thereof, which are in the possession of the Contractor, or any of the Contractor's independent contractors, associates, and/or subcontractors, shall be made available for inspection and copying upon written request to the City. Additionally, said records shall be made available upon request by the City to any state, federal or other regulatory authorities and any such authority may review, inspect and copy such records. Said records include, but are not limited to, all plans, specifications, submittals, correspondence, minutes, memoranda, tape recordings, videos, or other writings or things which document the Project, its design, and its construction. Said records expressly include those documents reflecting the time expended by the Contractor and its personnel to perform the obligations of this Agreement, and the records of expenses incurred by the Contractor in its performance under said Agreement. The Contractor shall maintain and protect these records for no less than **seven (7) years** after the completion of the Project, or for any longer period of time as may be required by applicable law, good professional practice, and upon notice during the pendency of any claims or litigation arising from the Project.

b. The City, or its assigns, may audit all financial and related records (including digital) associated with the terms of the contract or agreement, including timesheets, reimbursable out of pocket expenses, materials, goods and equipment claimed by the Contractor. The City may further audit any of the Contractor's records to conduct performance audits (to identify waste and abuse or to determine efficiency and effectiveness of the contract or agreement), or to identify conflicts of interest.

c. The Contractor shall at all times during the term of the contract or agreement, and for a period of seven (7) years after the end of the contract, keep and maintain records of the work performed

pursuant to this contract or agreement. This shall include proper records of quotations, contracts, correspondence, invoices, vouchers, timesheets, and other documents that support actions taken by the Contractor. Documents shall be maintained by the Contractor, which are necessary to clearly reflect all work and actions taken. All such records shall be maintained in accordance with general accepted accounting principles. The Contractor shall, at its own expense, make such records available for inspection and audit (including copies and extracts of records as required) by the City at all reasonable times and without prior notice.

d. The obligations of this Section shall be explicitly included in any subcontracts or agreements formed between the Contractor and any subcontractors or suppliers of goods or non-professional services to the extent that those subcontracts or agreements relate to fulfillment of the Contractor's obligations to the City.

e. Costs of any audits conducted under the authority of this section and not addressed elsewhere will be borne by the City, unless the audit identifies significant findings that would benefit the City. The Contractor will reimburse the City for the total costs of an audit that identifies significant findings that would benefit the City.

f. This Section shall not be construed to limit, revoke, or abridge any other rights, powers, or obligations relating to audit which the City may have by Federal, State, or Municipal law, whether those rights, powers, or obligations are express or implied.

12. **TERMINATION FOR CONVENIENCE.** City reserves the right to terminate this order or any part of this order at its sole convenience with thirty (30) days written notice. In the event of termination, Contractor must immediately stop all work and immediately cause any of its suppliers or subcontractors to cease any further work. Contractor will be paid a reasonable termination charge consisting of a percentage of the order price reflecting the percentage of the work performed before the notice of termination, plus actual direct costs resulting from termination. Contractor will not be paid for any work done after receipt of the notice of termination, nor for any costs incurred by Contractor's suppliers or subcontractors which Contractor could reasonably have avoided. Contractor must not unreasonably anticipate the requirements of this order.

13. **TERMINATION FOR CAUSE.** City may also cancel this order, or any part of this order, with seven (7) days written notice for cause in the event of any default by Contractor, or if Contractor fails to comply with any of the terms and conditions of this offer. Late deliveries, deliveries of products which are defective or which do not conform to this order, and failure to provide City, upon request, with adequate assurances of future performance are all causes allowing City to cancel this order for cause. In the event of cancellation for cause, City is not liable to Contractor for any amount, and Contractor is liable to City for any and all damages sustained by reason of the default which gave rise to the cancellation. If it should be determined that City has improperly cancelled this contract for a default, the cancellation is considered a termination for convenience.

14. **DISPUTE RESOLUTION.** Claims, disputes, or other matters in question between the parties to this Agreement arising out of or relating to this Agreement, or breach thereof, shall be subject to mediation in Chattanooga, Tennessee, in accordance with the following provisions:

a. The mediation shall be conducted by a mediator mutually acceptable to both parties.

b. The parties agree to share equally in the expense of the mediation.

c. Such mediation may include the Contractor or any other person or entity who may be affected by the subject matter of the dispute.

d. Unless the parties agree otherwise, mediation shall be a condition precedent to the exercise of any legal remedy other than a proceeding seeking an immediate injunction or restraining order to protect the rights of a party pending litigation. Notwithstanding the issuance of an injunction or restraining order, or the refusal of a court to issue such an order, the dispute shall continue to be subject to mediation.

15. **DELAY IN PERFORMANCE.** Neither City nor Contractor shall be considered in default of the Agreement for delays in performance caused by circumstances beyond the reasonable control of the nonconforming party. For purposes of this Agreement, such circumstances include abnormal weather conditions; floods; earthquakes; fire; epidemics; war, riots, or other civil disturbances; sabotage; judicial restraint; discovery of unanticipated hazardous wastes; and inability to procure permits, licenses, or authorizations from any local, state, or federal agency for any of the supplies, materials, accesses, or services required to be provided by either City or Contractor under this Agreement. Should such circumstances occur, the nonconforming party shall, within a reasonable time of being prevented from performing, give written notice to the other party describing the circumstances preventing continued performance and the efforts being made to resume performance of the Agreement. If the Contractor is delayed in the performance of the services for more than three hundred sixty-five (365) calendar days, either by the City or circumstances beyond his control, an equitable adjustment to the contract amount can be made to compensate for additional costs incurred.

For delays in performance by Contractor caused by circumstances which are within its control, such delays shall be documented and presented to the Purchasing Department at the conclusion of Project and acknowledged by both City and Contractor. Completed form shall be retained by City for a period of seven years and reviewed prior to Contractor selection for future City projects. In the event Contractor is delayed in the performance of Services because of delays caused by City, Contractor shall have no claim against City for damages or contract adjustment other than an extension of time.

16. **HAZARDOUS MATERIALS.** Hazardous materials may exist at a site where there is no reason to believe they could or should be present. The City and Contractor agree that the discovery of unanticipated hazardous materials constitutes a changed condition mandating a renegotiation of the scope of work or termination of services. City and Contractor also agree that the discovery of unanticipated hazardous materials may make it necessary for the Contractor to take immediate measures to protect health and safety. City agrees to compensate Contractor for any equipment decontamination or other costs incident to the discovery of unanticipated hazardous materials.

Contractor agrees to notify City when unanticipated hazardous materials or suspected hazardous materials are encountered. City agrees to make any disclosures required by law to the appropriate governing agencies, and agrees to hold Contractor harmless for any and all consequences of disclosures made by Contractor which are required by governing law. In the event the project site is not owned by City, the City agrees to inform the City of the discovery of unanticipated hazardous materials or suspected hazardous materials.

17. **COMMUNICATIONS.** Any notice to the City shall be made in writing to the address specified below:

City of Chattanooga
Attn: Purchasing
101 E. 11th Street, Suite G13
Chattanooga, TN 37402
(423) 643-7230

Nothing contained in this Article shall be construed to restrict the transmission of routine communications between representatives of Contractor and City.

18. **WAIVER.** A waiver by either City or Contractor of any breach of this Agreement shall be in writing. City's failure to insist on performance of any of the terms or conditions of this purchase order or to exercise any right or privilege, or City's waiver of any breach does not waive any other terms, conditions, or privileges, whether of the same or similar type

19. **SEVERABILITY.** The invalidity, illegality, or unenforceability of any provision of this Agreement or the occurrence of any event rendering any portion or provision of this Agreement void shall in no way affect the validity or enforceability of any other portion or provision of this Agreement Any void provision shall be deemed severed from this Agreement, and the balance of this Agreement shall be construed and enforced as if this Agreement did not contain the particular portion or provision held to be void. The parties further agree to amend this Agreement to replace any stricken provision with a valid provision that comes as close as possible to the intent of the stricken provision. The provisions of this Article shall not prevent this entire Agreement from being void should a provision which is of the essence of this Agreement be determined void.

20. **INTEGRATION.** This Agreement represents the entire and integrated agreement between City and Contractor. All prior and contemporaneous communications, representations, and agreements by Contractor, whether oral or written, relating to the subject matter of this Agreement, as set forth in the Purchase Order, are hereby incorporated into and shall become a part of this Agreement.

21. **SUCCESSORS AND ASSIGNS.** City and Contractor each binds itself and its directors, officers, partners, successors, executors, administrators, assigns, and legal representatives to the other party of this Agreement and to the directors, officers, partners, successors, executors, administrators, assigns, and legal representatives of such other party in respect to all provisions of this Agreement.

22. **ASSIGNMENT.** Neither City nor Contractor shall assign any rights or duties under this Agreement without the prior written consent of the other party. Unless otherwise stated in the written consent to an assignment, no assignment will release or discharge the assignor from any obligation under this Agreement. Nothing contained in this Article shall prevent Contractor from employing independent Contractors, associates, and subcontractors to assist in the performance of the Services; however, other agreements to the contrary notwithstanding, in the event Contractor employs independent Contractors, associates, and subcontractors to assist in performance of the Services, Contractor shall be solely responsible for the negligent performance of the independent Contractors, associates, and subcontractors so employed.

23. **THIRD PARTY RIGHTS.** Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than City and Contractor.

24. **RELATIONSHIP OF PARTIES.** Nothing contained herein shall be construed to hold or to make the City a partner, joint venturer, or associate of Contractor, nor shall either party be deemed the agent of the other, it being expressly understood and agreed that the relationship between the parties is and shall at all times remain contractual as provided by the terms and conditions of this Agreement.

25. **NON-DISCLOSURE.** Contractor agrees not to disclose or to permit disclosure of any information designated by the City as confidential, except to the Contractor's employees and independent Contractors, associates, and subcontractors who require such information to perform the services specified in this agreement.

26. **NON-DISCRIMINATION.** Contractor agrees to comply with all federal, state, and local non-discrimination laws and regulations. Contractor agrees not to discriminate against any participant in this Agreement on the basis of race, color, religion, sex, age or national origin. Contractor further agrees to comply with all federal, state and local laws regarding treatment and accommodations for individuals with disabilities.

27. **DRUG FREE WORKFORCE.** Contractor certifies that it will provide a drug-free workplace and agrees to comply with the applicable requirements of the Drug-Free Workplace Act of 1988.

28. **FEDERAL OR STATE FUNDING.** In the event that the Project is funded in whole or in part by Federal or State grants, Contractor agrees to abide by all applicable Federal and State laws, regulations, grant conditions and procedures.

29. **COMPLIANCE WITH LAWS.** The City has entered into this agreement with Contractor relying on is knowledge and expertise to provide the services contracted for. As part of that reliance, Contractor represents that he knows and understands the relevant and applicable federal and state laws that apply to the services provided through this contract, and agrees to comply with these relevant and applicable federal and state laws.

The Contractor understands and acknowledges the applicability to it of the American with Disabilities Act, the Immigration Reform and Control Act of 1986, and the Drug Free Workplace Act of 1988.

X

CEO | Secretary

SCA
JetVac Services

2019-2020

Resume:

Since 2000 Sani-Tech has been providing Sewer & Stormwater Cleaning & Inspection Services throughout the Greater Southeast.

We pride ourselves on our ability to "*Partner*" with our customers' culture and operations to provide a value effective experience and solution to their wastewater service needs. We have never failed to complete a project or been late meeting a deadline.

Our Team consists of seasoned employees dedicated to "getting it right" by utilizing state of the art equipment and technologies. We have invested in continuing education for our team members, currently we have (7) PACP Certified Video Inspection Operators.

We operate Vactor Style Combination JetVac Machines that are the industry standard for their ability to moderate the cleaning action in the pipe to assure that damage and back-ups are greatly reduced.

Our RST and Cues Video Inspection Vehicles utilize the latest PACP Certified Software to conform to NASSCO standards.

Our Point of Contact on this project is:

Mike Field
JetVac Division Manager

Conor Welsh
Assistant JetVac Manager

Responsible for all Field Operations, Scheduling, Coordinating, etc. Email:
mfield@sweepingcorp.com Cell: 615-642-8028

cwelsh@sweepingcorp.com Cell: 615-828-4502

SCA
JetVac Services

1.3.3 References & Experience:

A. Capabilities:

Sani-Tech specializes in providing sewer cleaning and inspection services for public and private concerns throughout the greater southeast. We are headquartered in Nashville, TN; and have continuing operations in and around the greater Southeast on a project basis. We currently own (17) Vactor style JetVac Combination Sewer Cleaning Machines, (3) Video Inspection Camera Trucks, (2) tracked easement machines, miscellaneous support vehicles and equipment. We pride ourselves on our ability to "*Partner*" with our customers' culture and operations to provide a value effective experience and solution to their wastewater service needs.

B. Municipal Project Referrals:

1A. High Volume Cleaning Project: 6" or Greater Cleaning Projects
City of Chattanooga
Department of Public Works
455 Moccasin Bend Road
Chattanooga, TN 37405
Sandy Barbee
(423) 757-5026 Phone (423) 757-4904 Fax
This is a maintenance cleaning project primarily cleaning 8" lines but also requiring us to work on larger lines as directed. We estimate we cleaned over **950,000** linear feet of pipe last contract year.
This was a 1 year contract with an option for four, additional years and was valued at app. $400,000 annually.
Project priced hourly @ $124.19
This project will conclude in 2019.

1B. High Volume Cleaning Project: 6" or Greater Cleaning Projects
City of Jackson, TN – Jackson Energy Authority (Jacobs Engineering)
PO Box 68
Jackson TN 38302
Eddie O'Neil (Administrator) (731) 422-7214 Phone (731) 616-8814 Fax
We were contracted through Jacobs Engineering to provide SSES cleaning & inspection on the collection system. I estimate that we cleaned over 625,000 linear feet of pipe ranging in size from 6" to 48".
This approximate value of this contract was $685,000.00
Project priced by the hour ($175.00) and by unit linear ft. ($1.00)
This contract was 100% completed in 2014.

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JetVac Services

2A. 24" or Greater Cleaning Projects

City of Chattanooga
Department of Public Works
455 Moccasin Bend Road
Chattanooga, TN 37405
Sandy Barbee
(423) 757-5026 Phone (423) 757-4904 Fax

This was a maintenance cleaning project primarily cleaning 8" lines but also requiring us to work on larger lines as directed. We estimate we cleaned approximately **15,000** feet of 24" or greater of sanitary sewer line.
This was a 1-year contract with an option for four, additional years and was valued at app. $400,000 annually.
Project billed hourly @ $124.19
This project will conclude in 2019.

2B. 24" or Greater Cleaning Projects

City of Spring Hill, TN (W & O Construction)
150 Construction Drive
Livingston, TN 38570
Kenny Surprise
(931) 403-1000 Phone (931) 403-3888
This is an ongoing project where we are cleaning & inspecting 30" ductile iron pipe.
We cleaned & inspected approximately 6400 linear ft. of 30" DI Pipe
This contract has an approximate value of approximately $15,000.00 for work performed to date.
This project 100% completed January 2017.

Notes:

We clean approximately 75,000 feet of 24" and larger pipe for stormwater collection system customers annually. Our customers include: TDOT, ALDOT, GDOT, and many Cities / Utilities. Contacts can be provided on requested.

SCA
JetVac Services

3. **Easement Cleaning**
City of Chattanooga
Department of Public Works
455 Moccasin Bend Road
Chattanooga, TN 37405
Sandy Barbee
(423) 757-5026 Phone (423) 757-4904 Fax
This is an ongoing contract with the City to provide maintenance cleaning and inspection of the sanitary collection system within the City. We estimate we have cleaned over 75,000 linear ft of easement.

This was a 1 year contract with an option for four, additional years and was valued at app. $400,000 annually.
Project billed hourly @ $35.70
This project will conclude in 2019.

4. **City of Brentwood – Sewer Clean and CCTV**
Water and Sewer Department
PO Box 788
Brentwood, TN 37024
Drew Muirhead
(615) 371-0080 Phone (615) 371-2225 Fax
This is an ongoing contract with the City to provide maintenance cleaning and inspection of the sanitary collection system within the City.
Clean and Inspect approximately 100,000 linear ft.
Pipe sizes ranging from 6" to 36"
Pricing by unit LF ($1.18) and hourly ($187.50)
This project is ongoing. Prior contract completed 100% September 2018.

5. **Kiewit Infrastructure South Co. – I-440 CCTV**
160 Inverness Drive West, Suite 110
Englewood, CO 80112
Morgan Paris
(615) 928-6603 Phone
This is an ongoing contract with Kiewit to clean and video inspect storm water infrastructure. Project is associated with the I-440 Widening for I-40 to I-24.
Clean and Inspect approximately 50,000 linear ft.
Pipe sizes ranging from 12" to 70"
Pricing by unit LF ($1.75) and hourly ($300.00)
This project is ongoing.

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JetVac Services

6. **Barge Design Solutions – Macon, GA CCTV**
1201 Front Avenue, Suite F
Columbus, GA 31901
Scott Thompson, PE
(706) 940-4603 Phone
This is an ongoing contract with Barge to clean, video inspect, and update the map system of storm infrastructure in the city of Macon, GA. Video inspect approximately 500,000 linear ft. of storm water pipe.
Pipe sizes ranging from 12" to 60"
Project priced by the hour.
This project is ongoing.

Note: Multiple large projects completed for Barge Design.

7. **Jacobs Engineering Group Inc. – Paris, TN SSES**
One Vantage Way, Suite B-400
Nashville, TN 37228
Jason Griffin
(615) 254-6002 x. 117
Clean, video inspect, manhole inspect, and smoke test approximately 270,000 linear ft. of sanitary sewer located in Paris, TN. Clean and video inspect 100,000 linear ft. of sanitary sewer located in easement.
Pipe sizes ranging from 6" to 36"
Project priced by unit linear ft. ($1.00) and unit MH inspection ($85.00).
Project 100% completed April 2017.

Note: Multiple large projects completed for Jacobs Engineering.

C. **Resumes of Key Personnel (Designated for this Project)**
Project Manager:
Mike Field – Operations Manager (14 years w Sani-Tech)
30 Years' Experience in the Wastewater Services Industry all Facets
Conor Welsh – Assistant Operations Manager (5 years w Sani-Tech)
Approximately 5 years' experience in sewer cleaning and cctv inspection.
Reginald Caslin – Lead Operator (4 years w Sani-Tech) Approximately 4 years working on the Chattanooga project
Carlos Shackelford –Operator (2 Years w Sani-Tech)
Approximately 2 years working on the Chattanooga project
Colin Meyer – Foreman (7 years w Sani-Tech)
Over 7 years' experience in sewer cleaning and cctv inspection.

SCA
JetVac Services

D. Work Force Description

Employee Force		**Years of Service**
Corporate Officers	2	16 each
Sales	1	16 years
Foreman	3	4 to 16 years
Operators	22	1 to 16 years
Camera Operators	7	1 to 10 years
Laborers	15	1 to 6 years
Total Force:	**50***	

**(Some employees have multiple classifications)*

City of Chattanooga

Mayor Andy Berke

January 3, 2020

Mr. Justin Holland
Administrator, Public Works Department
Waste Resources Division
1250 Market Street, Suite 2100
Chattanooga, TN 37402

Subject: R193969 - Refurbish Compactor at the Influent Pump Station – Waste Resources – Public Works

Dear Mr. Holland:

Council approval is recommended to purchase Vulcan compactor parts to refurbish the compactor at the Influent Pump Station, Waste Resources Division, Public Works, in the amount of $26,430 plus freight. A copy of the quote and sole source documentation is attached.

TCA 6-56-304.2 allows for this single source purchase exempted from the usual advertising and bidding procedures.

I recommend approval of this purchase to Guthrie Sales & Service, 7003 Chadwick Drive, Ste 300, Brentwood, TN 37027 in the amount of $26,430 plus freight.

Respectfully yours,

Vickie Haley

Vickie Haley
Interim Director of Purchasing

VH/ab

Attachments

101 E. 11th Street, Suite G13 • Chattanooga, Tennessee 37402 • Office: (423) 757-5184 • Fax: (423) 643-7244
www.chattanooga.gov

GUTHRIE SALES & SERVICE

7003 Chadwick Drive, Suite 300
Brentwood, Tennessee 37027
(615) 377-3952 • Fax (615) 373-2701

QUOTE

THIS NUMBER MUST APPEAR ON ALL INVOICES, PACKING SLIPS, CORRESPONDENCE, ETC.

No. 1706

PAGE 1

CUSTOMER CHATTANOOGA CITY OF
PURCHASING DEPARTMENT
200 CITY HALL ANNEX
CHATTANOOGA, TN 37402
ATTN: DARRELL SUTTON

DATE		SPEC NO	PROJECT NAME
11/18/2019			CHATTANOOGA TN MOCCASIN BEND WWTP
REQUISITION NO		TERMS	FOR DELIVERY INSTRUCTIONS, CONTACT
		NET 30 DAYS	
Est. Lead Time	FOB	SHIP VIA	
5-6 weeks	Prepay & Add	Best Way	

COMMENTS
11505

ITEM NO.	QUANTITY	DESCRIPTION	U/M	UNIT PRICE	TOTAL PRICE
1	1	Thrust bearing/seal kit	EA	$1,377.00	$1,377.00
2	1	Screw brush	EA	$444.00	$444.00
3	1	Screw with brush	EA	$12,820.00	$12,820.00
4	1	Thrust bearing housing with bearing/seal kit	EA	$11,789.00	$11,789.00
		TOTAL THIS ORDER			$26,430.00

ACKNOWLEDGEMENT ATTACHED - SIGN & RETURN

AUTHORIZED SIGNATURE
Chris Jones

Note: Payment terms are NET 30 days ... VISA and ... also accepted ... are subject to a ...% processing fee.

CHATTANOOGA PURCHASING DIVISION
SOLE SOURCE JUSTIFICATION FORM

Sole source purchases are goods and services available from only one supplier, and cannot be procured through the competitive bidding process because of the existence of a single source of supply, or other reason below. Justification for this basis must be provided, per purchase order.

Description of item/service, its function and cost estimate $26,430
Replacement of parts worn out.

This is a sole source vendor because:
___ Sole provider of proprietary rights, and/or is a licensed or patented good or service.
__X Sole provider of items that are repair parts of or upgrades to existing equipment/systems.
___ Sole provider of factory-authorized warranty service.
___ Sole provider with specialized facilities or technical competence.
___ Sole provider of unique equipment or products not offered by others.

What steps were taken to verify that these features are not available elsewhere?
(Attach any additional explanation)

___ Other brands/manufacturers were examined (List specific company names, phone numbers and contact names, and explain why there were not suitable)

___ Other vendors were contacted (List specific company names, phone numbers and contact names, and explain why these were not suitable).

__X What specific feature makes this item unique and why is this feature needed for your project?

This vendor is the sole authorized Distibutor for the Vulcan Compactor parts needed to refurbish the compactor at the Influent Pump Station. This is critical to our Headworks System.

Please attach the suggested vendor's letter stating the reasons that it is considered a sole source for the product/service, if applicable.

Suggested Vendor Guthrie Sales and Service 7003 Chadwick Dr. Suite 300 Brentwood, TN 37027
PH. (615) 377-3952

Department Public Works Contact: Darrell Sutton (643-7447)

My department's recommendation for sole source is based upon an objective review of the good/service being required and appears to be in the best interest of the City.

Department Head's Signature 12-23-19 Date

April 5, 2019

City of Chattanooga
Chattanooga, TN

Re: Vulcan Washer/Compactor parts
Vulcan Factory Number 14505

To whom it may concern;

This letter is to certify that Vulcan Industries, Inc. is the original equipment manufacturer and supplier of the above-mentioned equipment, and therefore is the sole source for replacement equipment and parts. These items are not available from local sources or other vendors.

Vulcan Industries does not enlist the use of outsource personnel or companies for manufacture of this equipment, therefore all equipment and parts requests should be made directly through Vulcan Industries, Inc. or our local representative, Guthrie Sales & Service of Brentwood, TN.

Please feel free to contact our office with question or concerns.

Sincerely,

Mark Hoffman

Mark Hoffman
President

212 S. Kirlin Street, Missouri Valley, IA 51555 PH (712) 642-2755 FAX (712) 642-4256
www.vulcanindustries.com

Chapter No. 817 (HB0261/SB0377), "Iran Divestment Act" enacted.
Vendor Disclosure and Acknowledgement

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to § 12-12-106.

(SIGNED) _____

(PRINTED NAME) Chris Jones

(BUSINESS NAME) Guthrie Sales & Service

(DATE) 3/14/2017

For further information, please see website:

https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List_of_persons_pursuant_to_Tenn._Code_Ann._12-12-106,_Iran_Divestment_Act-July.pdf

City of Chattanooga

Mayor Andy Berke

December 6, 2020

Lurone Jennings
Administrator
Department of Youth and Family Development
501 West 12th Street
Chattanooga, TN 37402

Subject: Blanket P.O. 541634 – Enterprise Rent-A-Car - Department of Youth and Family Development

Dear Mr. Jennings:

Council approval is recommended to extend Blanket P.O. 541634 for Van Rental Services for the Department of Youth and Family Development beginning January 13, 2020. The extended contract term will be for two (2) months. The estimated annual expenditure for the contract is $5,000.

I recommend extending this blanket contract to Enterprise Rent-A-Car, 209 Seaboard Lane Franklin, TN 37067.

Respectfully,

Vickie Haley

Vickie Haley
Interim Director of Purchasing

VH/js
Attachments

101 E. 11th Street, Suite G13 • Chattanooga, Tennessee 37402 • Office: (423) 757-5184 • Fax: (423) 643-7244
www.chattanooga.gov

Purchase Order
BLANKET

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

VENDOR	
	Vendor Number: Vendor Alternate ID: 24412 Enterprise Rent-A-Car of Tennessee209 Seaboard Lane Franklin, TN 37067

PO Date: 04-JAN-17
Buyer: Jaime Shelton
FOB: DESTINATION
Terms: Net 30

Purchase Order Number
541634

INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.

SHIP TO	

INVOICE	
	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402

Requestor	Requisition Number	Bid Number

Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total

Requisition No.: 141922
Ordering Dept.: Youth and Family Development
Buyer: Dedra Partridge
Phone No.: (423) 643-7237

Items Being Purchased: Van Rental (Heavy Duty Cargo Vans w/Liftgate & 15 Passenger Van)

Van Rental Will Be In Accordance With Tennessee State Contract #45860/29900

Use Account #XZ56900 At Time Of Reservation

This Shall Be A Twelve (12) Month Blanket Contract To Supply Van Rental. The Contract Term May Be Renewed For Two (2) Additional Twelve (12) Month Term Under The Same Terms And Conditions By Mutual Agreement. The City Of Chattanooga And The Contractor May Bilaterally Extend The Contract By Providing Written Confirmation Of Agreement By Both Parties At Least 30 Days Prior To The Contract's Current Expiration Date Into Any Successive Term As Provided Herein.

Vendor Contact:
Justin Lyons
(865) 218-4544
Justin.Lyons@ehi.com

City Contact:
Kimberly Stewart
(423) 643-6406
kstewart@chattanooga.gov

Contract Term: January 13, 2017 thru January 13, 2018

Approved By City Council On January 10, 2017

********** NOTICE **********

This Purchase Order ("Agreement") is a binding agreement between the City of Chattanooga and the Vendor. This Purchase Order shall be governed by the following documents: (1) Purchase Order; (2) City of Chattanooga Purchase Order Standard Terms and Conditions; (3) Vendor's response to the bid or quotation, and (4) terms and conditions set forth in the bid or quotation, each of which is hereby incorporated herein by reference and becomes a part of this Agreement. In the event any conflict of terms arises, the terms controlling the Agreement shall be in the order provided hereinabove. This Purchase Order is valid only when signed or electronically approved by the Finance Officer.

Electronic approval is on record in the purchasing information system which asserts that unencumbered appropriation is available to meet the expenditure covered by this Purchase Order; and further authorizes payment upon proper certification of receipt of goods and/or services.

Purchase Order
BLANKET

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

VENDOR	
	Vendor Number: Vendor Alternate ID: 24412 Enterprise Rent-A-Car of Tennessee209 Seaboard Lane Franklin, TN 37067

PO Date: 04-JAN-17
Buyer: Jaime Shelton
FOB: DESTINATION
Terms: Net 30

Purchase Order Number
541634

INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.

SHIP TO	

INVOICE	
	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402

Requestor	Requisition Number	Bid Number

Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total

****** THIS IS A REVISION TO A PRIOR ORDER ******

Change Order Issued Changing Buyer From Dedra Partridge To William Tucker
****

Extended by City Council on 12-11-18.
New Expiration Date is January 13, 2020.
****

********** NOTICE **********

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Purchase Order
BLANKET

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

VENDOR			
Vendor Number: Vendor Alternate ID: 24412 Enterprise Rent-A-Car of Tennessee209 Seaboard Lane Franklin, TN 37067	PO Date: 04-JAN-17 Buyer: Jaime Shelton FOB: DESTINATION Terms: Net 30	Purchase Order Number **541634** INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.

SHIP TO	INVOICE
	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402

Requestor	Requisition Number	Bid Number

Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total
1	Van 1: Current year model cargo van heavy duty with liftgate used for food deliveries	0.00	Week	$ 176.0400	$ 0.00
2	Van 2: Current year model cargo van heavy duty with liftgate used for food deliveries	0.00	Week	$ 176.0400	$ 0.00
3	Van 3: Current year model cargo van heavy duty with liftgate used for food deliveries	0.00	Week	$ 176.0400	$ 0.00
4	15 passenger van for transporting program participants	0.00	Week	$ 323.2000	$ 0.00

TOTAL: $ .00

********** NOTICE **********

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City of Chattanooga

Mayor Andy Berke

January 7, 2020

Mr. Justin Holland
Administrator, Public Works Department
Waste Resources Division
1250 Market Street, Suite 2100
Chattanooga, TN 37402

Subject: Contract Renewal of Blanket PO No. 547953 Air/Vacuum Relief Valve Maintenance & Support – Waste Resources Division, Public Works

Dear Mr. Holland:

The Public Works Department may now seek Council approval to renew Blanket PO No. 547953 Air/Vacuum Relief Valve Maintenance & Support for the Waste Resources Division. The City of Chattanooga is renewing the second (2nd) and final contract renewal option for twelve (12) months, for a total estimated annual amount of $150,000. A copy of the contract is enclosed.

The invitation to bid was sent out to eight (8) vendors as well as formally advertised. Bids were received from two (2) vendors. Bids are retained on file in the Purchasing Office for your review upon request.

I recommend renewing Blanket PO No. 547953 Air/Vacuum Relief Valve Maintenance & Support to H & H Brown, Inc., 1803 Polk Street, Chattanooga, TN 37408.

Respectfully yours,

Vickie Haley
Interim Director of Purchasing

VH/ab

Attachments

101 E. 11th Street, Suite G13 • Chattanooga, Tennessee 37402 • Office: (423) 757-5184 • Fax: (423) 643-7244
www.chattanooga.gov

Purchase Order
BLANKET

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

VENDOR	
	Vendor Number: 736121 Vendor Alternate ID: 6029 H & H Brown, Inc 1803 Polk St Chattanooga, TN 37408

PO Date: 16-MAR-18
Buyer: Amanda Berkowitz
FOB: DESTINATION
Terms: Immediate

Purchase Order Number
547953

INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.

SHIP TO	

INVOICE	
	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402

Requestor	Requisition Number	Bid Number

Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total

Requisition No.: 165407
Ordering Dept.: Waste Resources
Buyer: Geoffrey Hipp 423-643-7233
****

DESCRIPTION:
This shall be a twelve (12) month blanket contract for Air/Vacuum Relief Valve Maintenance and Support for the Waste Resources Division. The contract may be renewed for two (2) additional twelve (12) month terms under the same Terms and Conditions by Mutual Agreement. The City of Chattanooga and the Contractor may bilaterally extend the contract by Written Confirmation by both parties at least 30 days prior to the contract's current expiration date into any successive term as provided herein.
****

NOTES:
The bid submitted by H. and H. Brown, Inc. dated 2-27-18 is hereby made a part of this contract.
Payment Terms: Net 30 days
Delivery Terms: As Needed
****

PRICE ESCALATION CLAUSE:
All prices under this contract shall remain fixed during each twelve (12) month contract period. If as a result of a general change in prices or discounts, the contractor has changed prices to all of its customers, then, at the time of contract renewal, the price under this contract may be adjusted accordingly after acceptance. All price increases must be justified by providing a copy of the prevailing labor wage or material cost increases. Prompt notice of price changes (increases or reductions) must be furnished to the Purchasing Agent at least 30 days prior to the requested effective date and the prices for these services/materials shall remain firm for twelve (12) months. The effective date of price increases shall be the date the Purchasing Agent accepts the price changes or the effective date of increase stated by contractor's notice to Purchasing Agent, whichever is later.
****

APPROVED BY CITY COUNCIL ON MARCH 13, 2018
****

CONTRACT BEGINNING/ENDING DATES:
3-16-2018 TO 3-16-2019
****

Vendor Contact: Blaine Helton
Phone: 423-267-9655
Fax: 423-267-9665

********** NOTICE **********

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Purchase Order
BLANKET

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

VENDOR	
	Vendor Number: 736121 Vendor Alternate ID: 6029 H & H Brown, Inc 1803 Polk St Chattanooga, TN 37408

PO Date: 16-MAR-18
Buyer: Amanda Berkowitz
FOB: DESTINATION
Terms: Immediate

Purchase Order Number
547953

INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.

SHIP TO	

INVOICE	
	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402

Requestor	Requisition Number	Bid Number

Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total

Change Order #1

****

Contract has been extended an additional twelve (12) months. New contract performance date is March 15, 2020.

****

City Council approved contract renewal on March 19, 2019.

****

1st Renewal

<<<<<<<<<<<<<<<<<<<<<<>>>>>>>>>>>>>>>>>>>>>>

H & H Brown, Inc submitted a price increase with renewal totaling a 2 % increase. Waste Resource Division approved MArch 6, 2019.

<<<<<<<<<<<<<<<<<<<<<<>>>>>>>>>>>>>>>>>>>>>>

********** NOTICE **********

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Purchase Order
BLANKET

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

VENDOR			
Vendor Number: 736121 Vendor Alternate ID: 6029 H & H Brown, Inc 1803 Polk St Chattanooga, TN 37408	PO Date: 16-MAR-18 Buyer: Amanda Berkowitz FOB: DESTINATION Terms: Immediate	Purchase Order Number **547953** INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.

SHIP TO	INVOICE
	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402

Requestor	Requisition Number	Bid Number

Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total
1	Air/Vacuum Relief Valve Labor - 2 man crew	0.00	Hour	$ 103.0000	$ 0.00
2	Air/Vacuum Relief Valve Overtime Labor - 2 man crew	0.00	Hour	$ 103.0000	$ 0.00
3	Parts and Materials, 10% Markup	0.00	Each	$ 1.0000	$ 0.00

TOTAL: $ .00

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City of Chattanooga

Mayor Andy Berke

January 7, 2020

Mr. Justin Holland
Administrator, Public Works Department
Waste Resources Division
1250 Market Street, Suite 2100
Chattanooga, TN 37402

Subject: Contract Renewal of Blanket PO No. 547954 Valve Actuator Services – Waste Resources Division, Public Works

Dear Mr. Holland:

The Public Works Department may now seek Council approval to renew Blanket PO No. 547954 Valve Actuator Services for the Waste Resources Division. The City of Chattanooga is renewing the second (2nd) and final contract renewal option for twelve (12) months, for a total estimated annual amount of $200,000. A copy of the contract is enclosed.

The invitation to bid was sent out to eight (8) vendors as well as formally advertised. Bids were received from two (2) vendors. Bids are retained on file in the Purchasing Office for your review upon request.

I recommend renewing Blanket PO No. 547954 Valve Actuator Services to Industrial Valve Sales & Service, Inc., PO Box 1456, Cleveland, TN 37364.

Respectfully yours,

Vickie Haley

Vickie Haley
Interim Director of Purchasing

VH/ab

Attachments

Purchase Order
BLANKET

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

VENDOR			
Vendor Number: Vendor Alternate ID: 320081 Industrial Valve Sales & Service, Inc P.O. Box 1456 Cleveland, TN 37364-1456		PO Date: 16-MAR-18 Buyer: Amanda Berkowitz FOB: DESTINATION Terms: Immediate	Purchase Order Number **547954** INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.

SHIP TO		INVOICE	
		Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402	

Requestor	Requisition Number	Bid Number

Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total

Requisition No.: 165404
Ordering Dept.: Waste Resources
Buyer: Geoffrey Hipp 423-643-7233
****

DESCRIPTION:
This shall be a twelve (12) month blanket contract for Valve Actuator Services for the Waste Resources Division. The contract may be renewed for two (2) additional twelve (12) month terms under the same Terms and Conditions by Mutual Agreement. The City of Chattanooga and the Contractor may bilaterally extend the contract by Written Confirmation by both parties at least 30 days prior to the contract's current expiration date into any successive term as provided herein.
****

NOTES:
The bid submitted by Industrial Valve Sales & Service dated 2-28-18 is hereby made a part of this contract.
Payment Terms: Net 30 days
Delivery Terms: As Needed
****

PRICE ESCALATION CLAUSE:
All prices under this contract shall remain fixed during each twelve (12) month contract period. If as a result of a general change in prices or discounts, the contractor has changed prices to all of its customers, then, at the time of contract renewal, the price under this contract may be adjusted accordingly after acceptance. All price increases must be justified by providing a copy of the prevailing labor wage or material cost increases. Prompt notice of price changes (increases or reductions) must be furnished to the Purchasing Agent at least 30 days prior to the requested effective date and the prices for these services/materials shall remain firm for twelve (12) months. The effective date of price increases shall be the date the Purchasing Agent accepts the price changes or the effective date of increase stated by contractor's notice to Purchasing Agent, whichever is later.
****

APPROVED BY CITY COUNCIL ON MARCH 13, 2018
****

CONTRACT BEGINNING/ENDING DATES:
3-23-2018 TO 3-23-2019
****

Vendor Contact: David Wooden
Phone: 423-472-6110
Fax: 423-559-8073

********** NOTICE **********

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Purchase Order
BLANKET

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

VENDOR			
Vendor Number: Vendor Alternate ID: 320081 Industrial Valve Sales & Service, Inc P.O. Box 1456 Cleveland, TN 37364-1456		PO Date: 16-MAR-18 Buyer: Amanda Berkowitz FOB: DESTINATION Terms: Immediate	Purchase Order Number **547954** INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.

SHIP TO		INVOICE	
		Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402	

Requestor	Requisition Number	Bid Number

Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total
	Change Order #1 ********** Contract has been extended an additional twelve (12) months. New contract performance date is March 22, 2020. ********** City Council approved contract renewal on March 19, 2019. ********** 1st Renewal				

********** NOTICE **********

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Purchase Order
BLANKET

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

VENDOR	
	Vendor Number: Vendor Alternate ID: 320081 Industrial Valve Sales & Service, Inc P.O. Box 1456 Cleveland, TN 37364-1456

PO Date: 16-MAR-18
Buyer: Amanda Berkowitz
FOB: DESTINATION
Terms: Immediate

Purchase Order Number
547954

INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.

SHIP TO	

INVOICE	
	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402

Requestor	Requisition Number	Bid Number

Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total
1	Valve Actuator Technician Labor	0.00	Hour	$ 43.0000	$ 0.00
2	Valve Actuator Technician Overtime Labor	0.00	Hour	$ 64.5000	$ 0.00
3	Materials and Specialized Services, 20% Markup plus Freight (cost + 10%) and meals, travel, mileage, etc.	0.00	Dollar	$ 1.0000	$ 0.00

TOTAL: $ .00

********** NOTICE **********

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City of Chattanooga

Mayor Andy Berke

January 10, 2020

Mr. Justin Holland
Administrator, Public Works Department
Waste Resources Division
1250 Market Street, Suite 2100
Chattanooga, TN 37402

Subject: Contract Renewal of Blanket PO No. 547753 Raising/Lowering Manhole Services – Waste Resources Division - Public Works

Dear Mr. Holland:

The Public Works Department may now seek Council approval to renew Blanket PO No. 547753 Raising/Lowering Manhole Services for the Waste Resources Division. The City of Chattanooga is renewing the second (2nd) and final contract renewal option for twelve (12) months, for a total estimated annual amount of $150,000. A copy of the contract is enclosed. There will be a price increase.

The invitation to bid was sent out to eight (8) vendors as well as formally advertised. Bids were received from one (1) vendor. Bids are retained on file in the Purchasing Office for your review upon request.

I recommend renewing Blanket PO No. 547753 Raising/Lowering Manhole Services to Mayse Construction & Engineering Co., PO Box 23027, Chattanooga, TN 37422.

Respectfully yours,

Vickie Haley

Vickie Haley
Interim Director of Purchasing

VH/ab

Attachments

101 E. 11th Street, Suite G13 • Chattanooga, Tennessee 37402 • Office: (423) 757-5184 • Fax: (423) 643-7244
www.chattanooga.gov

547753 Raising/Lowering Manhole Services

	Description	2018 Unit Price	2019 Unit Price	
Line 1	Adjustment of Sanitary Sewer Manholes (frames & covers): Lowering of existing manhole frames and covers, including cold mix, traffic control per MUTCD, etc. (complete-in-place)	$966.30	$993.36	
Line 2	Resetting manhole frames and covers with concrete and/or masonry to finish grade including traffic control per MUTCD, etc.	$1,007.45	$1,035.66	
Line 3	Manhole precast cone replacement (SD-300.01) including Removal of existing material prior to placement, etc.	$8,481.00	$8,718.47	
Line 4	Excess manhole adjustment	$143.90	$147.93	
Line 5	Procurement and transportation of manhole lids and frames (SD-301.03)	$1,387.80	$1,426.66	
Line 6	Adjust Catch Basin, Curb Inlets, Misc. Drainage Structures: Adjust catch basin (curb iron only) (SD-608.01). Includes mortar, concrete, grout, etc. and traffic control per MUTCD. (complete-in-place)	$1,644.80	$1,690.85	
	Total	$13,631.25	$14,012.93	2.8% increase

Purchase Order
BLANKET

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

VENDOR	
	Vendor Number: 375851 Vendor Alternate ID: 7283 Mayse Construction & Engineering CompanyP. O. Box 23027 Chattanooga, TN 37422

PO Date: 01-MAR-18 Buyer: Amanda Berkowitz FOB: DESTINATION Terms: Immediate	Purchase Order Number **547753** INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.

SHIP TO	

INVOICE	
	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402

Requestor	Requisition Number	Bid Number

Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total

Requisition No.: 162158
Ordering Dept.: Waste Resources
Buyer: Geoffrey Hipp 423-643-7233
****

DESCRIPTION:
This shall be a twelve (12) month blanket contract for Raising or Lowering Manhole Services for the Waste Resources Division. The contract may be renewed for two (2) additional twelve (12) month terms under the same Terms and Conditions by Mutual Agreement. The City of Chattanooga and the Contractor may bilaterally extend the contract by Written Confirmation by both parties at least 30 days prior to the contract's current expiration date into any successive term as provided herein.
****

NOTES:
The bid submitted byMayse Construction Company dated 2-8-18 is hereby made a part of this contract.
Payment Terms: Net 30 days
Delivery Terms: As Needed
****

PRICE ESCALATION CLAUSE:
All prices under this contract shall remain fixed during each twelve (12) month contract period. If as a result of a general change in prices or discounts, the contractor has changed prices to all of its customers, then, at the time of contract renewal, the price under this contract may be adjusted accordingly after acceptance. All price increases must be justified by providing a copy of the prevailing labor wage or material cost increases. Prompt notice of price changes (increases or reductions) must be furnished to the Purchasing Agent at least 30 days prior to the requested effective date and the prices for these services/materials shall remain firm for twelve (12) months. The effective date of price increases shall be the date the Purchasing Agent accepts the price changes or the effective date of increase stated by contractor's notice to Purchasing Agent, whichever is later.
****

APPROVED BY CITY COUNCIL ON FEBRUARY 27, 2018
****

CONTRACT BEGINNING/ENDING DATES:
3-2-2018 TO 3-2-2019
****

Vendor Contact: Bobby Mayse
Phone: 423-892-0016
Fax: 423-892-0283

********** NOTICE **********

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Purchase Order
BLANKET

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

VENDOR			
Vendor Number: 375851 Vendor Alternate ID: 7283 Mayse Construction & Engineering CompanyP. O. Box 23027 Chattanooga, TN 37422	PO Date: 01-MAR-18 Buyer: Amanda Berkowitz FOB: DESTINATION Terms: Immediate	Purchase Order Number **547753** INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.

SHIP TO	INVOICE
	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402

Requestor	Requisition Number	Bid Number

Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total

Change Order #1

****

Contract has been extended an additional twelve (12) months.
The new contract performance dated is March 1, 2020.

****

City Council approved on February 26, 2019

****

1st Renewal

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This renewal includes a price increase submitted by Mayse Construction Company was approved by Waste Resource Division on February 19, 2019.

This increase is 1.5 %

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mlm, 02/28/19

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Purchase Order
BLANKET

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga, TN 37402

VENDOR	
	Vendor Number: 375851 Vendor Alternate ID: 7283 Mayse Construction & Engineering CompanyP. O. Box 23027 Chattanooga, TN 37422

PO Date: 01-MAR-18
Buyer: Amanda Berkowitz
FOB: DESTINATION
Terms: Immediate

Purchase Order Number
547753

INVOICES: Direct invoices in DUPLICATE to the Invoice address shown below.

SHIP TO	

INVOICE	
	Accounts Payable Division City of Chattanooga 101 East 11th Street, Suite 101 Chattanooga, TN 37402

Requestor	Requisition Number	Bid Number

Line Nbr	Item ID - Item Description	Quantity	Unit	Unit Price	Total
1	Adjustment of Sanitary Sewer Manholes (frames & covers): Lowering of existing manhole frames and covers, including cold mix, traffic control per MUTCD, etc. (complete-in-place)	0.00	Each	$ 966.3000	$ 0.00
2	Resetting manhole frames and covers with concrete and/or masonry to finish grade including traffic control per MUTCD, etc. (complete-in-place)	0.00	Each	$ 1,007.4500	$ 0.00
3	Manhole precast cone replacement (SD-300.01) including Removal of existing material prior to placement, etc.(complete-in-place)	0.00	Each	$ 8,481.0000	$ 0.00
4	Excess manhole adjustment	0.00	Each	$ 143.9000	$ 0.00
5	Procurement and transportation of manhole lids and frames (SD-301.03)	0.00	Each	$ 1,387.8000	$ 0.00
6	Adjust Catch Basin, Curb Inlets, Misc. Drainage Structures: Adjust catch basin (curb iron only) (SD-608.01). Includes mortar, concrete, grout, etc. and traffic control per MUTCD. (complete-in-place)	0.00	Each	$ 1,644.8000	$ 0.00

TOTAL: $ .00

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