



**State of West Virginia
Department of Administration
General Services Division**

MONTHLY WATER TREATMENT SERVICES

**RFQ #GSD116661
Opening 01/27/11 1:30pm**

Submitted By:

**Artesian Laboratories, Inc.
224 Capitol Street
Charleston, WV 25301
304-343-4763 • 304-343-4767 fax
artesian@artesianlabs.com**

RECEIVED

2011 JAN 25 P 1: 10

**PROCUREMENT DIVISION
STATE OF WV**



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
GSD116661

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
KRISTA FERRELL 304-558-2596

VENDOR

*709052026 304-343-4763
 ARTESIAN LABORATORIES INC
 PO BOX 3718
 CHARLESTON WV 25337

SHIP TO

DEPARTMENT OF ADMINISTRATION
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/29/2010				
BID OPENING DATE: 01/27/2011		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
001	1	MN		962-23		
<p>MONTHLY WATER TREATMENT SERVICES</p> <p>REQUEST FOR QUOTATION (RFQ) OPEN END CONTRACT</p> <p>THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF GENERAL SERVICES, IS SOLICITING BIDS TO PROVIDE THE AGENCY WITH AN OPEN END CONTRACT FOR WATER TREATMENT SERVICES FOR VARIOUS DEPARTMENT OF ADMINISTRATION OWNED AND OPERATED BUILDINGS PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO KRISTA FERRELL IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS RFQ, VIA FAX AT 304-558-4115, OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 01/12/2011 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED SHALL BE ANSWERED BY FORMAL ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p>SITE VISITS MAY BE ARRANGED BY CONTACTING DAVID PARSONS, OPERATIONS AND MAINTENANCE MANAGER AT 304-558-0689 OR VIA EMAIL AT DAVID.K.PARSONS@WV.GOV.</p> <p>ANY VERBAL COMMUNICATION BETWEEN THE VENDOR AND ANY</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
SIGNATURE	TELEPHONE	DATE
FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
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7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
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10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
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12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

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*709052026 304-343-4763
**ARTESIAN LABORATORIES INC
 PO BOX 3718
 CHARLESTON WV 25337**

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DATE PRINTED 12/29/2010	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
BID OPENING DATE: 01/27/2011		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>STATE PERSONNEL IS NOT BINDING, INCLUDING THAT MADE DURING SITE VISITS. TECHNICAL QUESTIONS RESULTING FROM SITE VISITS MUST BE SUBMITTED IN ACCORDANCE WITH THE ABOVE PROVISIONS. ONLY INFORMATION ISSUED IN WRITING AND ADDED TO THE RFQ SPECIFICATIONS BY AN OFFICIAL WRITTEN ADDENDUM BY PURCHASING IS BINDING.</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.:</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1 <i>✓ C/M - see attached</i></p> <p>NO. 2</p> <p>NO. 3</p> <p>NO. 4</p> <p>NO. 5</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE</p>						

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NATURE _____ TELEPHONE _____ DATE _____

FEIN _____ ADDRESS CHANGES TO BE NOTED ABOVE

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 BY ORDER

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BID OPENING DATE: 01/27/2011		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
THIS ADDENDUM IS ISSUED TO PROVIDE CLARIFICATION TO THE SPECIFICATIONS PER THE ATTACHED.						
BID OPENING DATE REMAINS: 01/27/2011						
BID OPENING TIME REMAINS: 1:30 PM						
***** END ADDENDUM NO. 1 *****						
01	1	MN	962-23	MONTHLY WATER TREATMENT SERVICES		
***** THIS IS THE END OF RFQ GSD116661 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Catherine Ferguson* TELEPHONE: 304-343-4763 DATE: 01/24/11

SECRETARY/TREASURER: FERN 55-0625140 ADDRESS CHANGES TO BE NOTED ABOVE

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RFQ#GSD116661- Addendum 1

ARTESIAN LABORATORIES, INC.
P.O. BOX 3718
CHARLESTON, WV 25337

2

CM

1/24/11

Q1. Does the successful bidder for the water treatment program need to be registered with CCR, ORCA and State of WV?

A1. The Contractor only needs to be registered with the State of West Virginia.



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3

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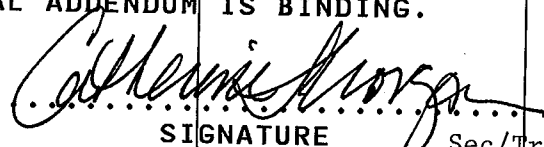
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<p>INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: center;">  SIGNATURE Sec/Treasurer Artesian Laboratories, Inc. COMPANY 01/24/2011 DATE </p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p> <p>EXHIBIT 1</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE UPON AWARD AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS, AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p>						

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BID OPENING DATE: **01/27/2011** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) SUCCESSIVE ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK).</p> <p>INSURANCE: SUCCESSFUL VENDOR SHALL FURNISH PROOF OF COVERAGE OF COMMERCIAL GENERAL LIABILITY INSURANCE PRIOR TO ISSUANCE OF THE CONTRACT. UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS, THE MINIMUM AMOUNT OF INSURANCE COVERAGE REQUIRED IS \$250,000.</p> <p>WORKER'S COMPENSATION: VENDOR IS REQUIRED TO PROVIDE A CERTIFICATE FROM WORKER'S COMPENSATION IF SUCCESSFUL.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE	TELEPHONE	DATE	
FILE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

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1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
GSD116661

PAGE
5

ADDRESS CORRESPONDENCE TO ATTENTION OF:
KRISTA FERRELL 304-558-2596

VENDOR

*709052026 304-343-4763
 ARTESIAN LABORATORIES INC
 PO BOX 3718
 CHARLESTON WV 25337

SHIP TO

DEPARTMENT OF ADMINISTRATION
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/29/2010				
BID OPENING DATE: 01/27/2011		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>REV. 9/98</p> <p>PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE AGENCY AS A CONDITION OF AWARD.</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: KRISTA FERRELL-FILE 21</p> <p>RFQ. NO.: GSD116661</p> <p>BID OPENING DATE: 01/27/2011</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
NATURE	TELEPHONE	DATE
FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

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- I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

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 Department of Administration
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DEPARTMENT OF ADMINISTRATION
 VARIOUS LOCALES AS INDICATED
 BY ORDER

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BID OPENING DATE: 01/27/2011		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
BID OPENING TIME: 1:30 PM PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: ----- 304 - 343-4767 ----- CONTACT PERSON (PLEASE PRINT CLEARLY): ----- Bill Bradford or Kitty Morgan ----- ***** THIS IS THE END OF RFQ GSD116661 ***** TOTAL: _____						

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FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

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**REQUEST FOR QUOTATIONS #GSD116661
WATER TREATMENT SERVICES
DEPARTMENT OF ADMINISTRATION-OWNED FACILITIES
GENERAL SERVICES DIVISION
1900 Kanawha Boulevard, East
Charleston, WV**

Location: West Virginia Department of Administration
Buildings Listed Herein

For: State of West Virginia
General Services Division
1900 Kanawha Boulevard, East
Charleston, West Virginia 25305

This Request for Quotation also includes the following documents:

1. Attachment A: GSD116661 Bid Form
2. Attachment B: GSD116661 Location Schedule

Bidders can arrange site visits prior to the bid opening date by contacting Dave Parsons, Operations & Maintenance Manager, GSD, at (304)558-0689 or email David.K.Parsons@wv.gov.

SECTION 1: DEFINITIONS

- A. The Department of Administration, General Services Division, State Capitol Complex, Building 1, Room MB-60, Charleston, West Virginia 25305, shall be referred to as "the Agency."
- B. The successful bidder or vendor shall be called the "Contractor."
- C. The "Contract" shall refer to the binding agreement that is entered into between the State of West Virginia and the Contractor to provide the services as herein specified.
- D. "Agency Representative" shall be defined as the person designated by the Director of the General Services Division as having authority to act on behalf of the General Services Division.
- E. Days designated by W.Va. Code §2-2-1 as legal holidays (i.e. new Year's Day, Martin Luther King's Birthday, President's Day, Memorial Day, West Virginia Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, Lincoln's Day, and Christmas Day).

- F. "Testing" means the Contractor shall perform a water quality test upon the completion of an ordered treatment to ensure water quality meets the technical specifications required in Section 3.

SECTION 2: SCOPE OF WORK

The Contractor shall provide monthly water treatment, testing, and quarterly Legionella testing service as set forth and in accordance with all applicable federal, state, and local regulations in buildings owned and operated by the West Virginia Department of Administration. The water treatment program is to include all boiler systems, cooling towers, chillers, water loops, condensate lines and tanks or other systems identified by General Services.

2.1 Regular Maintenance Services:

The Vendor shall establish a monthly preventative program to eliminate or minimize corrosion and the formation of adherent mineral deposits in the boilers, steam lines, valves, heat exchangers, traps, condensate systems and heat transfer surfaces of related equipment.

The Vendor shall also establish a monthly preventative program to eliminate or minimize corrosion, the formation of adherent mineral deposits, algae and slime formation and bacterial growth on heat transfer surfaces in re-circulating water line circuits including cooling towers, closed chilled water and hot water systems and closed –loop heat pump systems.

The Vendor shall provide on-site scientific expertise to analyze problems relating to water treatment discovered during maintenance activities.

2.2 Quarterly Legionella Testing:

The Vendor will perform monthly testing on all specifications (section G) with the exception of Legionella which will be performed quarterly in accordance with AIHA and ASTM guidelines. Legionella will be tested at all closed loops, towers and all other sites in which towers are present. Test results will be provided to GSD at no additional cost. All testing cost associated with this contract should be incorporated into the bid form.

2.3 Equipment and Chemicals:

All equipment and chemicals used for water treatment must be in conformance with all applicable federal, state, and local regulations. Vendors shall utilize a water-usage based program utilizing meters and post-bleed controllers.

All chemical feed equipment is to be installed by the vendor at no additional charge to The State of West Virginia and maintained by the vendor during the duration of the service contract. Equipment is to be installed within **45** days from the effective date of the contract. The Contractor shall provide staff and materials to maintain proper systems treatment by manual means until such time equipment is installed.

The Contractor shall furnish the following information prior to award of the contract:

- Detailed list of the equipment to be used and method of delivery into the various systems
- Copies of all MSDS of chemicals/products to be utilized shall be furnished to the safety department prior to introduction of product onto the premises.

All discharges into the sewage system from cooling tower bleed-off, boiler blow down or system draining must meet all federal, state and local regulations. The use of molybdates is prohibited.

2.4 Costs

Treatment and Testing Services: The Contractor shall provide an all inclusive flat monthly rate for all services to be included under this Contract. This monthly rate shall include all Treatment and Testing Services. The Contractor shall be responsible for all treatment chemicals associated with the performance and specifications, located in of this Contract. The Contractor shall be responsible for all mileage and travel costs, including travel time, associated with the performance of this Contract.

All travel costs must be incorporated into the monthly cost bid.

2.5 Facility Access:

The Agency will permit access to the facilities and will allow the Contractor to utilize shop facilities. Access keys will be provided to the Contractor and inventoried by the Agency. The Contractor must sign for all access keys and return them upon expiration of this Contract.

Work will be performed during normal business hours, 8:00am to 5:00 pm. Monday through Friday excluding State recognized holidays.

2.6 Facilities

The Agency maintains buildings throughout the State, with the majority located in the Charleston metro area. A listing of facilities for which service may be requested is located in Attachment B. The Agency reserves the right to not request service in any of the buildings covered by this Contract. Statewide buildings may be added to this list during the life of the Contract only by mutual agreement of both the Agency and the Contractor, through formal change order. The Contractor shall service added buildings under the same terms and conditions contained herein.

SECTION 3: WATER QUALITY TECHNICAL SPECIFICATIONS

3.1 Closed hydronic systems, including hot-water heating and chilled water, shall have the following water qualities:

- A. pH: Maintain a value within 9.0 to 10.5
- B. "P" Alkalinity: Maintain a value within 100 to 500 ppm.
- C. Boron: Maintain a value within 100 to 200 ppm.
- D. Chemical Oxygen Demand: Maintain a maximum value of 100 ppm.
- E. Soluble Copper: Maintain a maximum value of 0.20 ppm.
- F. TDS: Maintain at 3000 ppm with a maximum of 5000 ppm.
- G. Ammonia: maintain a maximum value of 20 ppm.
- H. Free caustic alkalinity: Maintain a maximum value of 20 ppm.
- I. Microbiological Limits:
 - 1) Total Aerobic Plate Count: Maintain a maximum value of 1000 organisms/ml.
 - 2) Total Anaerobic Plate Count: Maintain a maximum value of 100 organisms per ml.
 - 3) Nitrate Reducers: Maintain a maximum value of 100 organisms per ml.
 - 4) Sulfate Reducers: Maintain a maximum value of 0 organisms per ml.
 - 5) Iron Bacteria: Maintain a maximum value of 0 organisms per ml.

3.2 Steam boiler systems and steam condensate systems shall have the following water qualities:

- A. Steam Condensate:
 - 1) pH: Maintain a value within 7.8 to 8.4



- 2) Total Alkalinity: Maintain a value within 5 to 50 ppm.
- 3) Chemical Oxygen Demand: Maintain a maximum value of 15ppm.
- 4) Soluble Copper: Maintain a maximum value of 0.20 ppm.
- 5) TDS: Maintain a maximum value of 100 ppm.
- 6) Ammonia: Maintain a maximum value of 20 ppm.
- 7) Total Hardness: Maintain a maximum value of 2 ppm.

B. Steam boilers operating at 15 psig and less shall have the following water qualities:

- 1) "OH" Alkalinity: maintain a value within 200 to 400 ppm.
- 2) TDS: Maintain a value within 600 to 3000 ppm.

C. Steam boilers operating at more than 15 psig shall have the following water qualities:

- 1) "OH" Alkalinity: 200 to 400 ppm.
- 2) TDS: Maintain a value within 600 to 1200 ppm to a maximum 30 times return water TDS.

3.3 Passivation for galvanized steel for the first 60 days of operation.

- A. pH: Maintain a value within 7 to 8.
- B. Calcium Carbonate Hardness: Maintain a value within 100 to 300 ppm.
- C. Calcium Carbonate Alkalinity: Maintain a value within 100 to 300 ppm.

SECTION 4: RELEASE ORDERS AND INVOICING

4.1 Release Orders

Prior to beginning any work the Agency will issue a written release order to the Contractor. This release order shall have a unique number and reference the master contract number for the master contract. Issuance of the release order to the Contractor shall be considered authorization to perform said service. No work other than that specified on the individual release order shall be undertaken by the Contractor.

The Contractor shall provide the Agency with valid email addresses and fax numbers to which release orders may be communicated.

4.2 Invoices

Invoices shall be submitted to the Agency for payment monthly (in arrears) and must include the following information:

1. Copies of all service orders or inspection reports signed and dated by the Agency Representative (prior to their submittal with invoices for payment).
2. FEIN number, complete address of vendor, Agency release order number, and master contract number.

Invoices shall be mailed to the following address:

Department of Administration
General Services Division
State Capitol Complex
Building 1, Room MB-68
1900 Kanawha Blvd. E.
Charleston, West Virginia 25305

Should the Contractor be requested by the Agency or volunteer to submit invoices electronically, invoices must meet the digital requirements of the WV State Auditor's Office.

SECTION 5: ADDITIONAL TERMS AND CONDITIONS

5.1: The relationship of the Contractor to the State of West Virginia shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by the parties to this Contract. The Contractor, as an independent contractor, is solely liable for the acts and omissions of its employees and agents. The Contractor will be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Contract. Neither the Contractor nor any employees or sub-contractors of the Contractor shall be deemed to be employees of the State for any purposes whatsoever. The wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension or other deferred obligations, and licensing fees, etc., and the filing of all necessary documents, forms and returns pertinent to all of the foregoing are the Contractor's responsibility. The Contractor shall hold harmless the State of West Virginia and the Agency and shall provide the State of West Virginia and

the Agency with a defense against any and all claims including but not limited to, the foregoing payments, withholdings, contributions, taxes, social security taxes and employer income tax returns. The Contractor shall not assign, convey, transfer, sub-contract, or delegate any of its responsibilities and obligations under this Contract to any person, corporation, partnership, association, or entity without express written consent of the Agency.

5.2: Indemnification: The Contractor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against (1) any claims or losses for services rendered by any subcontractor, person or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) any claims or losses resulting to any person or entity injured or damaged by the Contractor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by federal or state statutes or regulations; and (3) any failure of the Contractor, its officers, employees or sub-contractors to observe state and federal laws, including but not limited to labor and wage laws.

5.3: The Contractor further agrees to comply with the Civil Rights Act of 1964 and all other applicable federal, state, and local government regulations.

5.4: All work, materials, and equipment shall comply with the rules and safety regulations of all codes and ordinances of local, state and federal authorities. At a minimum, the services and repairs shall comply with the current editions in effect 30 days prior to receipt of bids of the following codes:

5.5: The Contractor shall procure all necessary permits and licenses to comply with all applicable laws, federal, state, or municipal, along with all regulations, and ordinances of any regulating body.

5.6: The Contractor shall pay any applicable sales, use, or personal property taxes arising out of this Contract and the transactions contemplated thereby. Any other taxes levied upon this Contract, the transaction, or the equipment, or services delivered pursuant hereto shall be borne by the Contractor. It is clearly understood that the State of West Virginia is exempt from any taxes regarding performance of the scope of work of this Contract.

SECTION 6: AWARD CRITERIA

The State of West Virginia shall award this Contract according to the following award criteria. Failure to bid any of the factors in the formulation of the total bid will result in the disqualification of the entire quote (however, bids of "\$0.00" will be acceptable as indication that the vendor intends to not charge for the listed services).

The following formula shall be used to award the Contract:

A + B = C (Your Bid, Annual Cost of Services)

The following is a **sample** bid tabulation, only for reference:

Standard Testing and Treatment

LOCATION	Monthly Cost	Qty	Yearly Cost
<u>Capitol Complex Campus</u>			
Bldg. 1 Main Capitol Bldg	\$100.00	12	\$1,200.00
3 → Bldg. 2 DMV Bldg	\$50.00	12	\$600.00
Bldg 4 112 California Avenue	\$200.00	12	\$2,400.00
Bldg. 5 Highways	\$2,000.00	12	\$24,000.00
Bldg. 6 Education	\$100.00	12	\$1,200.00
Bldg. 8 Governor's Mansion	\$50.00	12	\$600.00
Bldg. 11 Chilled Water Plant	\$300.00	12	\$3,600.00
Bldg. 17 Finance(2101 Wash St.)	\$250.00	12	\$3,000.00
<u>Off Campus</u>			
Bldg. 22 Tax & Revenue	\$200.00	12	\$2,400.00
Bldg. 23 Beckley (407 Nevill St)	\$300.00	12	\$3,600.00
Bldg. 25 Parkersburg (5th & Avery)	\$250.00	12	\$3,000.00
Bldg. 36 One Davis Square	\$300.00	12	\$3,600.00
Bldg. 37 DEP (Kanawha City)	\$1,500.00	12	\$18,000.00
Bldg. 86 Greenbrooke (Smith St)	\$500.00	12	\$6,000.00
Rehab Center (Institute, WV)	\$1,000.00	12	\$12,000.00
TOTAL ANNUAL STANDARD			<u>\$85,200.00 (A)</u>

Legionella Testing

LOCATION	# of Tests	Price per Test Per Facility	Quarterly Cost	Qty.	Yearly Cost
<u>Capitol Complex Campus</u>					
Bldg. 4 (112 California Avenue)	1	\$120.00	\$120.00	4	\$480.00
Bldg. 5 Highways	1	\$120.00	\$120.00	4	\$480.00
Bldg. 6 Education	1	\$120.00	\$120.00	4	\$480.00
Bldg. 11 Chilled Water Plant	6	\$120.00	\$720.00	4	\$2,880.00
Bldg. 17 Finance(2101 Wash St.)	2	\$120.00	\$240.00	4	\$960.00
<u>Off Campus</u>					
Bldg. 22 Tax & Revenue	2	\$120.00	\$240.00	4	\$960.00
Bldg. 23 Beckley (407 Nevill St)	1	\$120.00	\$120.00	4	\$480.00
Bldg. 25 Parkersburg (5th & Avery)	2	\$120.00	\$240.00	4	\$960.00
Bldg. 36 One Davis Square	3	\$120.00	\$360.00	4	\$1,440.00
Bldg. 37 DEP (Kanawha City)	3	\$120.00	\$360.00	4	\$1,440.00
Bldg. 86 Greenbrooke (Smith St)	1	\$120.00	\$120.00	4	\$480.00
Rehab Center (Institute, WV)	4	\$120.00	\$480.00	4	\$1,920.00
TOTAL ANNUAL LEGIONELLA					<u>\$12,960.00</u> (B)
TOTAL BID (A + B) = C					<u>\$98,160.00</u> (C)

GSD116661-Attachment A-Bid Form

Standard Testing and Treatment

LOCATION	Monthly Cost	Qty	Yearly Cost
Capitol Complex Campus			
Bldg. 1 Main Capitol Bldg	\$ 52.00	12	\$ 624.00
Bldg. 2 DMV Bldg	\$ 52.00	12	\$ 624.00
Bldg 4 112 California Avenue	\$ 156.00	12	\$ 1,872.00
Bldg. 5 Highways	\$ 2,071.00	12	\$ 24,852.00
Bldg. 6 Education	\$ 104.00	12	\$ 1,248.00
Bldg. 8 Governor's Mansion	\$ 0.00	12	\$ 0.00
Bldg. 11 Chilled Water Plant	\$ 338.00	12	\$ 4,056.00
Bldg. 17 Finance(2101 Wash St.)	\$ 260.00	12	\$ 3,120.00
Off Campus			
Bldg. 22 Tax & Revenue	\$ 208.00	12	\$ 2,496.00
Bldg. 23 Beckley (407 Nevill St)	\$ 312.00	12	\$ 3,744.00
Bldg. 25 Parkersburg (5th & Avery)	\$ 260.00	12	\$ 3,120.00
Bldg. 36 One Davis Square	\$ 312.00	12	\$ 3,744.00
Bldg. 37 DEP (Kanawha City)	\$ 1,885.00	12	\$ 22,620.00
Bldg. 86 Greenbrooke (Smith St)	\$ 260.00	12	\$ 3,120.00
Rehab Center (Institute, WV)	\$ 1,300.00	12	\$ 15,600.00
+*one time cost of installation for shot feeders		1,229.17*(max)	14,750.00*(maximum)
TOTAL ANNUAL STANDARD	(10 max @ \$1,475.00ea)		\$105,590.00 (A)

Legionella Testing

LOCATION	# of Tests	Price per Test Per Facility	Quarterly Cost	Qty.	Yearly Cost
Capitol Complex Campus					
Bldg. 4 (112 California Avenue)	1	\$ 125.00	\$ 125.00	4	\$ 500.00
Bldg. 5 Highways	1	\$ 125.00	\$ 125.00	4	\$ 500.00
Bldg. 6 Education	1	\$ 125.00	\$ 125.00	4	\$ 500.00
Bldg. 11 Chilled Water Plant	6	\$ 125.00	\$ 750.00	4	\$ 3,000.00
Bldg. 17 Finance(2101 Wash St.)	2	\$ 125.00	\$ 250.00	4	\$ 1,000.00
Off Campus					
Bldg. 22 Tax & Revenue	2	\$ 125.00	\$ 250.00	4	\$ 1,000.00
Bldg. 23 Beckley (407 Nevill St)	1	\$ 125.00	\$ 125.00	4	\$ 500.00
Bldg. 25 Parkersburg (5th & Avery)	2	\$ 125.00	\$ 250.00	4	\$ 500.00
Bldg. 36 One Davis Square	3	\$ 125.00	\$ 375.00	4	\$ 1,500.00
Bldg. 37 DEP (Kanawha City)	3	\$ 125.00	\$ 375.00	4	\$ 1,500.00
Bldg. 86 Greenbrooke (Smith St)	1	\$ 125.00	\$ 125.00	4	\$ 500.00
Rehab Center (Institute, WV)	4	\$ 125.00	\$ 500.00	4	\$ 2,000.00
TOTAL ANNUAL LEGIONELLA	\$ 13,500.00 (B)				

TOTAL BID (A + B) = C

First Year Total= **\$119,090.00 (C)**

(two(2) renewal years = \$104,340.00 per year)

**LOCATION SCHEDULE
ATTACHMENT C**

GSD 116661 Attachment B

Location Schedule

Building Location	System
Capitol Complex	
1. Building 1, Main Capitol, Basement	Loop Ch water/ steam reduce. Sta
3. Building 3, DMV, Basement	Loop Ch water/ steam reduce. Sta
4. 112 California Avenue	Loop Ch water/ steam reduce. Sta
5. Building 5, Highways,	3 Bryan boilers, chill loop, water softening station
6. Building 6, Education	10 n900 boilers/chill loop
8. Building 8, Governor's Mansion	Loop Ch water/ steam reduce. Sta
11. Chilled Water Plant	Chill loop/ Towers (Dolphin) treated, test ONLY & Legionella
17. Finance (2101 Washington Street)	21 water loop heat pumps
22. Tax and Revenue (1001 Lee St.)	Closed chill water loop- 2 boilers
23. Beckley (407 Neville St.)	Hydronic heat pumps- 1 boiler- tower
25. Parkersburg (5th and Avery St.)	Hydronic heat pums- 2 boilers- tower
36. One Davis Square (Charleston)	Loop chilled water-tower-boiler
37. DEP (Kanawha City)	Kinetco water units-2 mammoth boilers (test mammoth unit)
86. Greenbrooke (1124 Smith St, Chas.)	1 boiler, 25 water source heat pump, 4 towers, 1 cooling loop
Rehab Center (Institute, WV)	
A, C, E, F, K Building	1 cooling tower, 10 closed loops, 2 cold, 8 hot.



January 27, 2011

Department of Administration
Purchasing Division
Building 15
2019 Washington Street, East
Charleston, WV 25305-0130

SUBJECT: RFQ #GSD116661
Monthly Water Treatment Services
Bid Opening Time 1:30PM 01/27/2011

Artesian Laboratories, Inc. is the current vendor for this water treatment contract. We are pleased the water treatment systems at all the various General Services Division state locations have been treated with successful results over the course of the current contract and the two (1) one year extensions. Artesian has always met the service frequency expected and always submitted all the State paperwork and service reports as required on a timely basis to all personnel. We have submitted a more complete description of the water treatment systems and scope of the work at each location in our Cost Proposal page. The list as presented in the bid is very simplistic. The work required to treat all these systems is much more complicated to do a proper job.

We would like to point out that as any unforeseen problem may arise Artesian is able to respond immediately to the situation. The advantage Artesian has is that service personnel are local and chemical inventories are maintained in Charleston. This makes emergency on site visits and the ability to replenish any one of the chemicals the Statehouse may need only ten minutes away guaranteeing superior response and delivery time. It may be noted that Artesian has successfully maintained inventories over the past three years so that emergency deliveries have been avoided.

Artesian is once again pleased to quote the water treatment bid package to the State of West Virginia that includes the Statehouse Complex and other outlying associated locations. In an effort to be as thorough as possible we have included pertinent information about our company, our capabilities and experience. See the tabbed sections.

Below find the following explanations that more thoroughly address several sections of the bid package.

2.3. Equipment and Chemicals:

The Contractor shall furnish the following information prior to award of the contract:

- **Detailed list of equipment to be used and method of the delivery into the various systems:**

The Artesian chemical programs will continue with the same methods currently in place. For cooling water systems we use LMI chemical feed pumps. We use Advantage MicroTron MCFB cooling tower controllers for automatic addition of the scale/inhibitor chemical. This controller also includes an automatic blowdown feature.

The heating and cooling closed loops have/will have chemicals added through a shot feed system. The WV Rehab Center (Institute) will need new equipment for their many systems. As a cost savings measure for the State we have quoted this new equipment separately instead of building it into the cost of the water treatment program. It would have been much more expensive over the course of the initial year and the two (2) one year extensions to build in the cost. The chemicals will be applied by the Artesian representatives.

Boiler systems are controlled through manual blowdowns through the use of skimmers and bottom blowdown. The chemicals will be fed as they are now, through the use of a feed and bleed procedure. This automatically feeds the chemicals into the boiler systems. No handling of the chemicals is necessary or required of the state employees. The newer boilers in Building 5 have automated blow down controls.

Please see the Equipment tab for additional information.

- **Copies of all MSDS of chemicals/products to be utilized shall be furnished to the safety department prior to introduction of product onto the premises.**

For your reference, all Artesian MSDS sheets are included with this bid package in the MSDS tab. The safety department and all locations on the current bid have copies already. MSDS sheets for the new WV Rehab Center (Institute) location, personnel there will be supplied with this information before chemicals are delivered.

All discharges into the sewage system from cooling tower bleed-off, boiler blow down or system draining must meet all federal, state and local regulations. The use of molybdates is prohibited.

The Artesian products being used at all WV General Services Division locations do not have molybdate in their formulations. All system discharges meet federal, state and local regulations.

2.4 Costs

see the Cost Proposal tab

EXHIBIT 1:

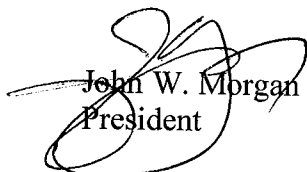
PURCHASING CARD ACCEPTANCE: The State of West Virginia currently utilizes a Visa purchasing card program which is issued through a bank. The successful vendor must accept the State of West Virginia Visa purchasing card for payment of all orders placed by any state agency as a condition of award.

Artesian Laboratories accepts all bank issued Visa cards.

It is important to note that Artesian Laboratories' background is impressive in that we have been incorporated in West Virginia for twenty-eight years. The company is a charter member of The Association of Water Technologies. We have provided services to major corporations, university and institutional accounts throughout the United States as well within the state. We are not a one-dimensional operation. Artesian Laboratories, Inc. has a depth of water treatment experience that is hard to match. The professionals who work in your facilities have an average of twenty-five years experience in the industry. These individuals have worked in West Virginia and the region in the water treatment industry their entire careers. We can guarantee the State both consistent service personnel and unmatched years of experience that no other company bidding will be able to offer.

Artesian Laboratories appreciates the opportunity to present this proposal in order to continue to do business with the State of West Virginia. We look forward to favorable consideration and hope that you will contact us if there is additional information necessary or questions that need to be answered.

Very truly yours,



John W. Morgan
President

enclosures

COST PROPOSAL

General Services
State of West Virginia

RFQ#GSD116661 for Monthly Water Treatment Services

Location	System Descriptions & Artesian's Recommended Testing Program & Scope of Work	Cost per month includes testing, chemicals & all freight charges
Building 1 Main Capitol Bldg.	Steam Reduc. Sta /Condensate -conductivity, pH, alkalinity and hardness	\$ 52.00
Building 3 DMV Bldg.	Steam Reduc. Sta /Condensate -conductivity, pH, alkalinity and hardness	\$ 52.00
Building 4 112 California Ave	Steam Reduc. Sta /Condensate -conductivity, pH, alkalinity and hardness	\$ 156.00
Building 5 Capitol Complex/Highways	Closed Loop -conductivity, pH, p alkalinity and nitrite 4)Bryan Steam Boilers -sulfite, phosphate, conductivity, p&m alkalinity Feedwater -conductivity, hardness, temperature Kinetco Softeners #1, #2, #3, #4 Water Softener Testing-conductivity and hardness. Perform general preventative maintenance on softeners Condensate -conductivity, pH, alkalinity, psi and hardness	\$ 2,071.00
Building 6 Capitol Complex/Education	Hot water Closed Loop -conductivity, pH, nitrite, p alkalinity	\$ 104.00
Building 8 Governor's Mansion	<i>No tests required on this contract – this building is part of the Cultural Center contract & is tested under that scope of work</i>	\$ 0.00
Building 11 Chilled Water Plant	Chilled Water Loop -conductivity, pH, nitrite, p alkalinity Dolphin Units treat cooling towers – off contract Testing on Towers -conductivity, p & m alkalinity, hardness, pH and bio dip-slide.	\$ 338.00
Building 17 Finance Bldg 2101 Wash St.	Cooling Tower -phosphate, conductivity, p & m alkalinity, hardness, pH and bio dip-slide. Closed Loop -conductivity, pH, p alkalinity, nitrite & %glycol	\$ 260.00

Location	System Descriptions & Artesian's Recommended Testing Program & Scope of Work	Cost per month includes testing, chemicals & all freight charges
Building 22 Tax and Revenue	Hot Water Closed Loop & Cold Water Closed Loop- conductivity, pH, p alkalinity and nitrite	\$ 208.00
Building 23 Beckley (407 Neville St)	Steam Boiler- conductivity, alkalinity, sulfite, phosphate Cooling Tower- conductivity, p & m alkalinity, hardness, pH, phosphate and bio-dipslide.	\$ 312.00
Building 25 Parkersburg (5 th & Avery)	Cooling Tower- conductivity, p & m alkalinity, hardness, pH, phosphate and bio-dip slide Closed Loop- conductivity, pH, p alkalinity, and nitrite	\$ 260.00
Building 36 One Davis Square	Cooling Tower Testing- conductivity p & m alkalinity, hardness, pH, phosphate, bio-dip slide. Dolphin Units treat cooling – off contract Hot Closed Loop & Cold Closed Loop- conductivity, pH, p alkalinity, and nitrite	\$ 312.00
Building 37 DEP (Kanawha City)	<p>2) Cooling Towers on roof- Testing Only-conductivity p & m alkalinity, hardness, pH, phosphate, bio-dip slide. Dolphin Units treat the cooling towers– off contract</p> <p>2) Mammoth Boilers on roof (humidification system) Testing Only</p> <p>Closed Loop in basement -conductivity, pH, p alkalinity, and nitrite</p> <p>Kinetco #1 & #2 Water Units <u>Scope of Work at Building 37 DEP:</u> Sample & test hot water boiler loop & maintain purification HP skids feeding humidification systems. Monthly replacement of filters, servicing water softener monthly, cleaning softener resin bed quarterly, delivering salt for water softener, maintaining reverse osmosis unit, which includes pump maintenance & membrane replacement & sanitization of system and storage tank. Maintain ultraviolet light & test unit to make sure lamps are working properly. Maintain bacteriostatic media to ensure no micro-biologicals get into humidification system. This media requires monitoring and change out at a minimum of once a year. Complete sanitization of skids is required annually to maintain integrity of the system-it is necessary to be in communication with staff to monitor proper water flow is being delivered to the building humidification system.</p>	\$1,885.00

Location	System Descriptions & Artesian's Recommended Testing Program & Scope of Work	Cost per month includes testing, chemicals & all freight charges
Building 86 Greenbrooke (Smith St)	Cooling Tower -conductivity, p & m alkalinity, hardness, pH, phosphate and bio-dip slide Closed Loop -conductivity, pH, p alkalinity, and nitrite	\$ 260.00
Rehab Center Institute, WV	(1) Cooling Tower - conductivity, p & m alkalinity, hardness, pH, phosphate and bio-dip slide (2) Cold loops & (8) Hot loops in buildings A, C, E, F, & K - conductivity, pH, p alkalinity, and nitrite <i>*As a cost saving measure for the State of WV the purchase & installation of required shot feeders for the (10) closed loops are quoted separately instead of incorporating it into this flat charge for this location- see separate quotation below</i>	\$1,300.00*
Water Treatment Services Total Per Month		\$ 7,570.00
Water Treatment Services Total Annual Cost		\$ 90,840.00

Location	Equipment Purchase* for WV Rehab Center (Institute)	Cost Each includes installation & all freight charges
Rehab Center Institute, WV	Neptune Model #VTF-2HP By-Pass Feeders for closed loops Verticle style – Dish bottom in 300 PSI max. at 200°F Tank Shell: 11 guage steel Tank Head: 11 guage steel Cap: cast iron w/Buna N “□”ring-wide mouth 23 lbs. Maximum units needed = 10 (ten)	\$1,475.00
	Chemical Feed Pump for Cooling Tower – provided under contract	\$0.00
	Conductivity Controller for Cooling Tower – provided under contract	\$0.00
Total one time cost (maximum)		\$ 14,750.00

**As a cost saving measure for the State of WV the purchase & installation of required shot feeders for the (10) closed loops are quoted separately instead of incorporating it into this flat charge for this location*

Legionella Testing

Location	Number of Tests
Bldg. 4 (112 California Ave)	1
Bldg 5 Highways	1
Bldg 6 Education	1
Bldg 11 Chilled Water Plant	6
Bldg 17 Finance (2101 Wash St)	2
Bldg 22 Tax & Revenue	2
Bldg 23 Beckley (407 Nevill St)	1
Bldg 25 Parkersburg (5 th & Avery)	2
Bldg 36 One Davis Square	3
Bldg 37 DEP (Kanawha City)	3
Bldg 86 Greenbrooke (Smith St)	1 specified & quoted (2 recommended)
Rehab Center (Institute, WV)	4 specified & quoted <i>(there are 11 systems-Artesian will provide quarterly testing on all if desired)</i>
TOTAL TESTS	27
27 tests per quarter @ \$125.00/each =	\$ 3,375.00 per quarter
Total Annual Cost =	\$ 13,500.00 per year

ARTESIAN LABORATORIES, INC.
ANNUALIZED
COST PROPOSAL
 RFQ#GSD116661 Monthly Water Treatment Services

Artesian's Recommended Monthly Water Treatment Program For all service, testing, reagents, chemicals, freight & existing chemical feed equipment @ \$7,570.00 per month	\$90,840.00
Quarterly Legionella Testing @ \$3,375.00 per quarter based on 27 tests/qtr.	\$13,500.00
WATER TREATMENT ANNUAL COST TOTAL	\$104,340.00

+

One time equipment cost (maximum)
for Rehab Center
first year expense only

\$ 14,750.00

TOTAL FIRST YEAR ANNUAL COST

\$ 119,090.00

Additional Tests Monthly
per bid page 10 & 11

Artesian does not recommend nor deems necessary

Location	System	Test	Cost per month
Building 1	Condensate	COD, Soluble Copper, Ammonia	\$95.00
Building 3	Condensate	COD, Soluble Copper, Ammonia	\$95.00
Building 4	Condensate	COD, Soluble Copper, Ammonia	\$95.00
	Hot Water Closed Loop	Boron, COD, Soluble Copper, Ammonia, and 5 Microbiological Test	\$405.00
Building 5	Hot Water Closed Loop	Boron, COD, Soluble Copper, Ammonia, and 5 Microbiological Test	\$405.00
	Condensate	COD, Soluble Copper, Ammonia	\$95.00
Building 6	Hot Water Closed Loop	Boron, COD, Soluble Copper, Ammonia, and 5 Microbiological Test	\$405.00
Building 11	Chilled Water Loop	Boron, COD, Soluble Copper, Ammonia, and 5 Microbiological Test	\$405.00
Building 17	Closed Loop	Boron, COD, Soluble Copper, Ammonia, and 5 Microbiological Test	\$405.00
	Cooling Tower	5 Microbiological Test	\$295.00
Building 22	1) Hot Water Loop & 1) Cold Water Loop	Boron, COD, Soluble Copper, Ammonia, and 5 Microbiological Test	\$810.00
Building 23	Cooling Tower	5 Microbiological Test	\$295.00
Building 25	Cooling Tower	5 Microbiological Test	\$295.00
	Closed Loop	Boron, COD, Soluble Copper, Ammonia, and 5 Microbiological Test	\$405.00
Building 36	Cooling Tower	5 Microbiological Test	\$295.00
	2 Closed Loops	Boron, COD, Soluble Copper, Ammonia, and 5 Microbiological Test	\$810.00

Building 37	Closed Loop	Boron, COD, Soluble Copper, Ammonia, and 5 Microbiological Test	\$405.00
Building 86	Closed Loop	Boron, COD, Soluble Copper, Ammonia, and 5 Microbiological Test	\$405.00
	Cooling Tower	5 Microbiological Test	\$295.00
Rehab Center	10) Closed Loops	Boron, COD, Soluble Copper, Ammonia, and 5 Microbiological Test	\$3750.00
	Cooling Tower	5 Microbiological Test	\$295.00

Total Additional Tests per Month: \$10,760.00

Additional Tests Annually: \$129,120.00

Total Contract with Standard Testing, Chemicals, Freight, Service, Legionella Testing, WV Rehab shot feeders *including* above listed Additional Testing per bid specs:

Annualized Monthly: \$ 20,684.17

Annually: \$ 248,210.00



ARTESIAN

PROCESS CHEMICALS GROUP



Water Treatment Solutions

Since 1983, Artesian Laboratories, Inc. has been serving the needs of industry and has grown to be one of the largest regional companies in the field of water treatment and water management. Artesian products and services include a full line of water treatment chemicals and the feeding and control equipment needed to maximize their performance. Our goal is to assist customers in operating an efficient and economical facility. We can help reduce operating costs and achieve environmental objectives through application of our advanced water treatment technology and specialized service.

Boiler Water Treatment

Artesian offers a range of boiler treatment products evolving from chelant, polymer and revolutionary new sequestrant technology. Artesian products and know-how are providing excellent results in many industries, including paper, steel, refineries and utilities. All the benefits of these synthetic materials are offered in Artesian Boiler Treatment Programs.

Using the most modern technology, Artesian provides boiler water treatment programs designed to give maximum heat transfer efficiency throughout the entire boiler system.

An Artesian fuel treatment program utilizing proven chemical additives can improve fuel handling and combustion efficiency while offering protection to the equipment involved. Specialty tank and equipment cleaning formulations are also included in Artesian's fuel treatment product line.

Six-step Program for Total Boiler Water Management

SOURCE WATER ANALYSIS:

By sampling and testing incoming water, Artesian determines its chemistry and content. Seasonal and other influent variables are also noted.

PRE-TREATMENT EQUIPMENT ENGINEERING:

Artesian determines needs for precipitating, clarifying, filtering, softening, ion exchange, reverse osmosis, deaeration and monitoring equipment to treat source water, dissolved minerals and gases.

CHEMICAL CONTROL:

Boiler water balance is controlled by a coordinated chemical program that prevents scale, inhibits corrosion and solubilizes or conditions sludge to facilitate its removal through blowdown.

PREVENTING STEAM CONTAMINANTS:

Boiler water carry-over into steam lines through foaming (oil, detergents, etc.) or priming (sudden steam demand) creates heat loss/equipment damage. Artesian anti-foams facilitate clean, dry steam.

CONDENSATE TREATMENT:

Condensed steam is highly corrosive. Dissolved oxygen and carbon dioxide attack iron and copper, creating impurities which insulate boiler surfaces, cause overheating and tube failure, and interfere with the proper water conditioning process in the boiler. Artesian neutralizing treatments prevent condensate corrosion.

EVALUATING EFFLUENT SOURCES FOR MAKE-UP WATER:

Discharges, including blowdowns and process water, can be analyzed to determine treatment costs in preparing the water for reuse. Waste-water treatment reduces ultimate disposal costs.

William J. Bradford

210 37th Street
Vienna, WV 26105
304-295-0618

P. O. Box 3718
Charleston, WV 25337
304- 343-4763

Mr. Bradford has worked in the water treatment industry for twenty two years. His experience is in the industrial, commercial and institutional applications for boiler and cooling water technology. Mr. Bradford also specializes in heat transfer fluid technology as well as pump and control equipment operation and repair.

2001 - Present	Artesian Laboratories, Inc., Charleston, West Virginia Area Manager
1996 - 2001	Artesian Laboratories, Inc., Charleston, West Virginia Technical Representative
1992 - 1996	Interstate Chemical Company Salesman - Commodity Chemical Market
1989 - 1992	Interstate Chemical Company Customer Service Representative
3/89 - 5/89	Clarion Area School District, Clarion, PA General Science Instructor and tutor 7 th /8 th grades
1/90 - 3/89	Brookville School District, Brookville, PA Biology Instructor and tutor 10 th -12 th grades

PROFESSIONAL TRAINING:

Alamo Water Industrial - Softener/Filter Technical Service Training Seminar
Naperville, Illinois
June 2001

Association of Water Technologies - Regional Training Seminar
Cincinnati, Ohio
April 1999

EDUCATION:

Bachelor of Science
Major: Biology - Secondary Education Dean's List
Clarion University of Pennsylvania, Clarion, PA
May 1989

PROFESSIONAL ORGANIZATIONS & CERTIFICATIONS:

Association of Water Technologies
NFIOA member
Federal GSA Security Clearance

John W. Morgan

5 Bridlewood Road
Charleston, WV 25314
(304) 541-3924 cell

P. O. Box 3718
Charleston, WV 25337
(304) 343-4763

Mr. Morgan has worked in the specialty chemicals aspect of the water treatment industry for thirty five years. His experience is heavily in the industrial sector but is well versed in commercial and institutional applications for boiler and cooling water technology. Mr. Morgan has also been working in municipal and industrial wastewater treatment for many years. He was employed by a national water treatment company for seven years.

2/13/83 - Present

Artesian Laboratories, Inc., Charleston, West Virginia
Owner - President

- Co-founder of this industrial water treatment chemical sales corporation in 1983. Has been the sole owner since 1984 and has developed the business into one with a major market share in the region.
- Responsible for the management and direct sales and service of the companies product lines.
- Develops the speciality chemical formulations for specific customer needs and requirements with industry experts.
- Manages strategic planning, profitability analysis and capital asset expenditures.

1992 - 1999

Atlantic Process Mining Chemicals, Inc., Charleston, WV

- Co-founder of this water treatment chemical sales corporation that markets to the coal mining industry.
- Sold company in 1999

1976 - 1982

Mogul Corporation Division of the Dexter Corporation.
Eastern Regional Sales Manager - Process Chemicals

- Managed sales force and local office.
- Responsible for budgeting, marketing and direct sales.
- Territory was the eastern half of the United States.

PROFESSIONAL EXPERIENCE:

Panelist participant in the Industrial Wastewater Enforcement and Compliance seminar during the Clean River Taiwan conference held on January 12, 1995 in Taipei, Taiwan, R.O.C. Delegation member on the West Virginia Project Harvest trade mission to Japan and Taiwan, January 5 - 15, 1995 led by Senator Jay Rockefeller.

Mr. Morgan received extensive training from Mr. Paul Puckorius, a leading expert in the water treatment field. He has also participated in training for speciality chemical applications by the nations leading companies in their specific fields which include; American Cyanamid, Sybron, International Biochemicals, Purolite, Pulsafeeder, Ecowater and Vinings Chemicals.

Shell SPC 5/19/95, Point Pleasant Chemical Plant, Apple Grove.

EDUCATION:

Bachelor of Science, Business Administration
West Virginia University History, Politics & Public Affairs
1975

Bachelor of Arts, Liberal Arts
University of Miami, Miami FL
1974

PROFESSIONAL ORGANIZATIONS:

The Association of Water Technologies - Charter Member
-Qualified to teach Certified Water Technologist Training Course
National Association of Corrosion Engineers

MATERIAL SAFETY DATA SHEET

ABT 3310-R2

Latest Revision Date...01/06/09

Print Date.....01/06/09

SECTION 1

MANUFACTURER INFORMATION

ARTESIAN PROCESS CHEMICALS GROUP
224 CAPITOL STREET
CHARLESTON, WV 25301
PH. 304-343-4763 800-304-4763

FOR CHEMICAL EMERGENCY
CALL CHEMTREC @ 1-800-424-9300

SECTION 2

PRODUCT IDENTIFICATION

PRODUCT NUMBER..... AL 3310-R2
TRADE NAME OR CHEMICAL NAME... ABT 3310-R2
SYNONYMS..... NA
CHEMICAL FAMILY..... Boiler Condensate Treatment
NFPA - HEALTH HAZARD..... 3
FIRE HAZARD..... 0
REACTIVITY HAZARD..... 1
NFPA SCALE..... 4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant
KEY..... NA= Not Applicable ND= Not Determined

SECTION 3

HAZARDOUS INGREDIENTS

CHEMICAL NAME(S)	CAS NUMBER	% WT	TLV-TWA	PEL	SEC.313	CARCINOGEN?
Cyclohexylamine	108-91-8	<30	10 ppm	10 ppm	No	No
Diethylaminoethanol	100-37-8	<10	10 ppm	10 ppm	No	No
Morpholine	110-91-8	<5	20 ppm	20 ppm	No	No

SECTION 4

SHIPPING DATA

D.O.T. PROPER SHIPPING NAME... Amines, Liquid, Corrosive, N.O.S. (Cyclohexylamine, Diethylaminoethanol)
D.O.T. HAZARD CLASS..... 8
D.O.T. LABELS REQUIRED..... Corrosive
UN/NA I.D. NUMBER..... UN 2735
PACKAGING GROUP..... III
NON-BULK SHIPPING NAME..... Amines, Liquid, Corrosive, N.O.S. (Cyclohexylamine, Diethylaminoethanol), 8, UN 2735, PG III
BULK SHIPPING NAME..... Same

SECTION 5

PHYSICAL DATA

BOILING/FREEZING POINT @760 mmHg... 200°F (93°C) / ND
PH..... 12.1
VAPOR PRESSURE mm Hg @20° C..... ND
VAPOR DENSITY (Air = 1)..... =1
PERCENT VOLATILE BY WEIGHT (%)..... 100
SPECIFIC GRAVITY @20°C..... 0.97
SOLUBILITY IN WATER..... Complete
EVAPORATION RATE..... (Water=1) ~1
APPEARANCE AND ODOR..... Clear to light yellow liquid with strong amine odor.

SECTION 6

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Test Method)..... ND

SECTION 6

FIRE AND EXPLOSION HAZARD DATA

CONT'D

AUTOIGNITION TEMPERATURE..... ND
 FLAMMABILITY LIMITS IN AIR (% V)... ND
 EXTINGUISHING MEDIA..... Water fog or spray, carbon dioxide, alcohol foam
 SPECIAL FIRE FIGHTING PROCEDURES... NA
 UNUSUAL FIRE & EXPLOSION HAZARDS... Closed containers may rupture when exposed to extreme heat.

SECTION 7

REACTIVITY DATA

PRODUCT STABILITY..... Stable
 Conditions to Avoid..... Temperatures above 115°F (46°C), ignition sources
 CHEMICAL INCOMPATIBILITY..... Strong acids and oxidizers
 HAZARDOUS DECOMPOSITION PRODUCTS... Oxides of nitrogen, carbon dioxide, carbon monoxide
 HAZARDOUS POLYMERIZATION..... Will Not Occur

SECTION 8

HEALTH HAZARD DATA

SKIN CONTACT... May cause severe skin irritation and sensitization.
 EYE CONTACT.... May cause chemical burns and irreversible damage.
 INHALATION..... Inhalation of high vapor concentrations may produce irritation of respiratory tract and lungs.
 INGESTION..... Ingestion harmful.

SECTION 9

EMERGENCY AND FIRST AID PROCEDURES

SKIN.....Remove contaminated clothing and flush exposed skin with soap and water. If irritation persists or develops, get medical attention. Launder contaminated clothing before reuse.
 EYES.....Immediately flush eyes with large amounts of water for 15 minutes and get medical attention.
 INGESTION...If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. Never give anything by mouth to an unconscious person.
 INHALATION...Move to fresh air. Aid in breathing, if necessary, and get medical attention.

SECTION 10

ENVIRONMENTAL DATA

SPILL OR LEAK PROCEDURES... Keep upwind and avoid skin contact. Eliminate ignition sources. Neutralize and absorb with sand or inert material. Place in suitable container for disposal.
 WASTE DISPOSAL METHOD..... Corrosive. Dispose of in accordance with all federal, state and local regulations.
 HAZARDOUS WASTE 40CFR261... Yes. Hazardous Waste Numbers: D002
 CONTAINER DISPOSAL..... Empty containers may contain residuals. Thoroughly clean, then offer for recycling, reuse, or disposal in accordance with governmental regulations.

SECTION 11

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION.....NIOSH/MSHA approved can or cartridge respirator for gas and vapor as needed to maintain P.E.L.
 VENTILATION.....Local and/or mechanical exhaust to maintain exposure below P.E.L.
 PROTECTIVE CLOTHING.....Neoprene gloves, full chemical suit, boots - as necessary to prevent skin contact.
 EYE PROTECTION.....Chemical goggles and/or full face shield.
 OTHER PRECAUTIONS.....Safety shower and eyewash fountains should be easily accessible.

SECTION 12

SUPPLIER INFORMATION

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of manufacturer. The data on this sheet relates only to the specific material designated herein. Manufacturer assumes no legal responsibility for use or reliance upon this data.

MATERIAL SAFETY DATA SHEET

ABT 3342

Latest Revision Date...12/01/06

Print Date.....05/07/07

SECTION 1

MANUFACTURER INFORMATION

ARTESIAN PROCESS CHEMICALS GROUP
224 CAPITOL STREET
CHARLESTON, WV 25301
PH. 304-343-4763 800-304-4763

FOR CHEMICAL EMERGENCY
CALL CHEMTREC @ 1-800-424-9300

SECTION 2

PRODUCT IDENTIFICATION

PRODUCT NUMBER..... AL 3342
TRADE NAME OR CHEMICAL NAME... ABT 3342
SYNONYMS..... NA
CHEMICAL FAMILY..... NA
NFPA - HEALTH HAZARD..... 2
FIRE HAZARD..... 0
REACTIVITY HAZARD..... 0

NFPA SCALE..... 4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant
KEY..... NA= Not Applicable ND= Not Determined

SECTION 3

HAZARDOUS INGREDIENTS

CHEMICAL NAME(S)

CHEMICAL NAME(S)	CAS NUMBER	% WT	TLV-TWA	PEL	SEC. 313	CARCINOGEN?
Sodium Hydroxide	1310-73-2	<5	2 mg/m3	2 mg/m3	No	No

SECTION 4

SHIPPING DATA

D.O.T. PROPER SHIPPING NAME... Corrosive Liquid, Basic, Inorganic, N.O.S. (Sodium Hydroxide)
D.O.T. HAZARD CLASS..... 8
D.O.T. LABELS REQUIRED..... Corrosive
UN/NA I.D. NUMBER..... UN 3266
PACKAGING GROUP..... II
NON-BULK SHIPPING NAME..... Corrosive Liquid, Basic, Inorganic, N.O.S. (Sodium Hydroxide), 8, UN 3266, PG II
BULK SHIPPING NAME..... Same

SECTION 5

PHYSICAL DATA

BOILING/FREEZING POINT @760 mmHg... 212°F (100°C) / ND
pH..... 12
VAPOR PRESSURE mm Hg @20° C..... ND
VAPOR DENSITY (Air = 1)..... ND
PERCENT VOLATILE BY WEIGHT (%)..... 75
SPECIFIC GRAVITY @20°C..... 1.24
SOLUBILITY IN WATER..... Complete
EVAPORATION RATE..... (Water=1) <1
APPEARANCE AND ODOR..... Light yellow liquid.

SECTION 6

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Test Method)..... NA
AUTOIGNITION TEMPERATURE..... NA
FLAMMABILITY LIMITS IN AIR (% V).... NA

SECTION 6

FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA..... Not Combustible
 SPECIAL FIRE FIGHTING PROCEDURES... NA
 UNUSUAL FIRE & EXPLOSION HAZARDS... Material is alkaline. Beware of exploding drums due to expansion.

SECTION 7

REACTIVITY DATA

PRODUCT STABILITY..... Stable
 Conditions to Avoid..... NA
 CHEMICAL INCOMPATIBILITY..... Strong acids and oxidizers.
 HAZARDOUS DECOMPOSITION PRODUCTS... None Known
 HAZARDOUS POLYMERIZATION..... Will Not Occur

SECTION 8

HEALTH HAZARD DATA

SKIN CONTACT... Alkaline components may cause irritation upon extended contact.
 EYE CONTACT... Immediate irritation upon contact which may result in chemical burns.
 INHALATION.... Unlikely route of exposure with normal handling.
 INGESTION..... Irritation and chemical burns possible upon ingestion.

SECTION 9

EMERGENCY AND FIRST AID PROCEDURES

SKIN.....Remove contaminated clothing and flush exposed skin with soap and water. If irritation persists or develops, get medical attention. Launder contaminated clothing before reuse.
 EYES.....Immediately flush eyes with large amounts of water for 15 minutes and get medical attention.
 INGESTION...If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. Never give anything by mouth to an unconscious person.
 INHALATION...Move to fresh air. Aid in breathing, if necessary, and get medical attention.

SECTION 10

ENVIRONMENTAL DATA

SPILL OR LEAK PROCEDURES... Avoid skin contact. Neutralize with appropriate material and absorb with sand or inert material. Place in suitable container for disposal. Flush neutralized residues with water to sanitary sewer.
 WASTE DISPOSAL METHOD..... Corrosive. Dispose of in accordance with all federal, state and local regulations.
 HAZARDOUS WASTE 40CFR261... Yes. Hazardous Waste Number: D002
 CONTAINER DISPOSAL..... Empty containers may contain residuals. Thoroughly clean, then offer for recycling, reuse, or disposal in accordance with governmental regulations.

SECTION 11

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION.....Respirator not required with most applications.
 VENTILATION.....Local exhaust is generally sufficient to minimize exposure.
 PROTECTIVE CLOTHING.....Neoprene gloves, apron, boots - as necessary to prevent skin contact.
 EYE PROTECTION.....Chemical goggles.
 OTHER PRECAUTIONS.....Safety shower and eyewash fountains should be easily accessible.

SECTION 12

SUPPLIER INFORMATION

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MATERIAL SAFETY DATA SHEET

ABT 3323

Latest Revision Date...10/18/06

Print Date.....05/07/07

SECTION 1 MANUFACTURER INFORMATION

ARTESIAN PROCESS CHEMICALS GROUP
224 CAPITOL STREET
CHARLESTON, WV 25301
PH. 304-343-4763 800-304-4763

FOR CHEMICAL EMERGENCY
CALL CHEMTREC @ 1-800-424-9300

SECTION 2 PRODUCT IDENTIFICATION

PRODUCT NUMBER..... AL 3323
TRADE NAME OR CHEMICAL NAME... ABT 3323
SYNONYMS..... NA
CHEMICAL FAMILY..... Internal Boiler Water Treatment
NFPA - HEALTH HAZARD..... 3
FIRE HAZARD..... 0
REACTIVITY HAZARD..... 0
NFPA SCALE..... 4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant
KEY..... NA= Not Applicable ND= Not Determined

SECTION 3 HAZARDOUS INGREDIENTS

CHEMICAL NAME(S)	CAS NUMBER	% WT	TLV-TWA	PEL	SEC.313	CARCINOGEN?
Sodium Bisulfite	7681-57-4	<35	5 mg/m3	5 mg/m3	No	No

SECTION 4 SHIPPING DATA

D.O.T. PROPER SHIPPING NAME... Bisulfites, Aqueous Solutions, N.O.S. (Sodium Bisulfite)
D.O.T. HAZARD CLASS..... Corrosive Material Class 8
D.O.T. LABELS REQUIRED..... Corrosive Diamond
UN/NA I.D. NUMBER..... UN 2693
PACKAGING GROUP..... III
NON-BULK SHIPPING NAME..... Bisulfites, Aqueous Solutions, N.O.S. (Sodium Bisulfite), 8, UN 2693, PG III
BULK SHIPPING NAME..... Bisulfites, Aqueous Solutions, N.O.S. (Sodium Bisulfite), 8, UN 2693, PG III, RQ (If 14,705 lbs. or more in one package)

SECTION 5 PHYSICAL DATA

BOILING/FREEZING POINT @760 mmHg... 220°F (105°C) / ND
pH..... 5
VAPOR PRESSURE mm Hg @20° C..... ND
VAPOR DENSITY (Air = 1)..... ND
PERCENT VOLATILE BY WEIGHT (%)..... 60
SPECIFIC GRAVITY @20°C..... 1.30
SOLUBILITY IN WATER..... Complete
EVAPORATION RATE..... (Water=1) <1
APPEARANCE AND ODOR..... Faint orange liquid with pungent odor.

SECTION 6 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Test Method)..... NA
AUTOIGNITION TEMPERATURE..... NA

SECTION 6

FIRE AND EXPLOSION HAZARD DATA

CONT'D

FLAMMABILITY LIMITS IN AIR (% V)... NA
 EXTINGUISHING MEDIA..... Not Combustible
 SPECIAL FIRE FIGHTING PROCEDURES... Oxides of sulfur may be liberated in very hot fire. Wear self-contained breathing apparatus.
 UNUSUAL FIRE & EXPLOSION HAZARDS... NA

SECTION 7

REACTIVITY DATA

PRODUCT STABILITY..... Stable
 Conditions to Avoid..... Temperatures above 212°F (100°C)
 CHEMICAL INCOMPATIBILITY..... Strong acids, strong oxidizers
 HAZARDOUS DECOMPOSITION PRODUCTS... Oxides of sulfur
 HAZARDOUS POLYMERIZATION..... Will Not Occur

SECTION 8

HEALTH HAZARD DATA

SKIN CONTACT... May cause irritation. Can be corrosive to the skin upon prolonged contact.
 EYE CONTACT... May cause irritation upon contact. Can be corrosive causing severe burns.
 INHALATION.... May cause breathing difficulties in sensitive individuals particularly asthmatics.
 INGESTION..... May cause irritation.

SECTION 9

EMERGENCY AND FIRST AID PROCEDURES

SKIN.....Remove contaminated clothing and flush exposed skin with soap and water. If irritation persists or develops, get medical attention. Launder contaminated clothing before reuse.
 EYES.....Immediately flush eyes with large amounts of water for 15 minutes and get medical attention.
 INGESTION...If swallowed, INDUCE VOMITING. Get medical attention immediately. Never give anything by mouth to an unconscious person.
 INHALATION...Move to fresh air. Aid in breathing, if necessary, and get medical attention.

SECTION 10

ENVIRONMENTAL DATA

SPILL OR LEAK PROCEDURES... Neutralize with appropriate alkaline material. Absorb onto inert material and place in suitable container for proper disposal. Flush neutralized residues to sanitary sewer.
 WASTE DISPOSAL METHOD..... Dispose of in accordance with all federal, state and local regulations.
 HAZARDOUS WASTE 40CFR261... NA
 CONTAINER DISPOSAL..... Empty containers may contain residuals. Thoroughly clean then offer for recycling, reuse, or dispose of in accordance with regulations.

SECTION 11

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION.....NIOSH/MSHA approved can or cartridge respirator for gas and vapor as needed to maintain P.E.L.
 VENTILATION.....Local and/or mechanical exhaust to maintain exposure below P.E.L.
 PROTECTIVE CLOTHING.....Neoprene gloves, full chemical suit, boots - as necessary to prevent skin contact.
 EYE PROTECTION.....Chemical goggles and/or full face shield.
 OTHER PRECAUTIONS.....Safety shower and eyewash fountains should be easily accessible.

SECTION 12

SUPPLIER INFORMATION

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MATERIAL SAFETY DATA SHEET

ACT 4401

Latest Revision Date...03/19/09

Print Date.....03/19/09

SECTION 1

MANUFACTURER INFORMATION

ARTESIAN PROCESS CHEMICALS GROUP
224 CAPITOL STREET
CHARLESTON, WV 25301
PH. 304-343-4763 800-304-4763

FOR CHEMICAL EMERGENCY
CALL CHEMTREC @ 1-800-424-9300

SECTION 2

PRODUCT IDENTIFICATION

PRODUCT NUMBER..... AL 4401
TRADE NAME OR CHEMICAL NAME... ACT 4401
SYNONYMS..... NA
CHEMICAL FAMILY..... NA
NFPA - HEALTH HAZARD..... 2
FIRE HAZARD..... 0
REACTIVITY HAZARD..... 0
NFPA SCALE..... 4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant
KEY..... NA= Not Applicable ND= Not Determined

SECTION 3

HAZARDOUS INGREDIENTS

CHEMICAL NAME(S)	CAS NUMBER	% WT	TLV-TWA	PEL	SEC. 313	CARCINOGEN?
Sodium Hydroxide	1310-73-2	<5	2 mg/m3	2 mg/m3	No	No

SECTION 4

SHIPPING DATA

D.O.T. PROPER SHIPPING NAME... Sodium Hydroxide, Solution
D.O.T. HAZARD CLASS..... 8
D.O.T. LABELS REQUIRED..... Corrosive
UN/NA I.D. NUMBER..... UN 1824
PACKAGING GROUP..... II
NON-BULK SHIPPING NAME..... Sodium Hydroxide, Solution, 8, UN 1824, PG II, Liquid
BULK SHIPPING NAME..... Same

SECTION 5

PHYSICAL DATA

BOILING/FREEZING POINT @760 mmHg... 212°F (100°C) / ND
pH..... 13
VAPOR PRESSURE mm Hg @20° C..... ND
VAPOR DENSITY (Air = 1)..... >1
PERCENT VOLATILE BY WEIGHT (%)..... 85
SPECIFIC GRAVITY @20°C..... 1.14
SOLUBILITY IN WATER..... Complete
EVAPORATION RATE..... (Water=1) <1
APPEARANCE AND ODOR..... Amber liquid with mild odor.

SECTION 6

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Test Method)..... NA
AUTOIGNITION TEMPERATURE..... NA
FLAMMABILITY LIMITS IN AIR (% V).... NA

SECTION 6**FIRE AND EXPLOSION HAZARD DATA**

CONT'D

EXTINGUISHING MEDIA..... Not combustible
 SPECIAL FIRE FIGHTING PROCEDURES... NA
 UNUSUAL FIRE & EXPLOSION HAZARDS... Cool drums exposed to fire to prevent steam rupture.

SECTION 7**REACTIVITY DATA**

PRODUCT STABILITY..... Stable
 Conditions to Avoid..... NA
 CHEMICAL INCOMPATIBILITY..... Strong acids
 HAZARDOUS DECOMPOSITION PRODUCTS... None Known
 HAZARDOUS POLYMERIZATION..... Will Not Occur

SECTION 8**HEALTH HAZARD DATA**

SKIN CONTACT... May cause severe irritation, burns possible upon prolonged contact.
 EYE CONTACT... May be destructive to eye tissue on contact.
 INHALATION.... Mist may damage upper respiratory tract and lung tissue proper.
 INGESTION..... May cause severe burns and complete tissue perforation of mucous membranes of the mouth, throat, esophagus and stomach.

SECTION 9**EMERGENCY AND FIRST AID PROCEDURES**

SKIN..... Remove contaminated clothing and flush exposed skin with soap and water. If irritation persists or develops, get medical attention. Launder contaminated clothing before reuse.
 EYES..... Immediately flush eyes with large amounts of water for 15 minutes and get medical attention.
 INGESTION... If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. Never give anything by mouth to an unconscious person.
 INHALATION... Move to fresh air. Aid in breathing, if necessary, and get medical attention.

SECTION 10**ENVIRONMENTAL DATA**

SPILL OR LEAK PROCEDURES... Avoid skin contact. Neutralize with appropriate material and flush with large amounts of water to sanitary sewer.
 WASTE DISPOSAL METHOD..... Corrosive. Dispose of in accordance with all federal, state and local regulations.
 HAZARDOUS WASTE 40CFR261... Yes. Hazardous Waste Number: D002
 CONTAINER DISPOSAL..... Empty containers may contain residuals. Thoroughly clean, then offer for recycling, reuse, or disposal in accordance with governmental regulations.

SECTION 11**SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION..... Respirator not required with most applications.
 VENTILATION..... Local exhaust is generally sufficient to minimize exposure.
 PROTECTIVE CLOTHING..... Neoprene gloves, apron, boots - as necessary to prevent skin contact.
 EYE PROTECTION..... Chemical goggles.
 OTHER PRECAUTIONS..... Safety shower and eyewash fountains should be easily accessible.

SECTION 12**SUPPLIER INFORMATION**

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ARTESIAN

PROCESS CHEMICALS GROUP

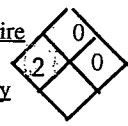
Post Office Box 3718 • Charleston, WV 25337
 Telephone (304) 343-4763

MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTITY OF MATERIAL

Product Name or Number: ASP-6500		
Synonyms: water treatment compound		
Formula: proprietary CAS Number: NA Chemical Family: borate/nitrate/nitrite		
Regulated Identification	DOT Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (Sodium Hydroxide Solution) 8,	
	Shipping ID Number: UN: 1824 EPA Hazardous Waste ID Number: NA UN1824, PGI I	
Hazardous Ingredients		
sodium nitrite (RQ present only in quantities over 55 gallons) DOT regulated only in quantities over 55 gallons		CAS Number: 7632-00-0 %: <15
sodium nitrate		7631-99-4 <1
borax		1303-96-4 <3

SECTION 2. HAZARD SPECIFICATIONS

Known Hazards Under 29 CFR 1910.1200				TLV= NA ppm NA mg/m			
	Yes	No		Yes	No	PEL= NA ppm NA mg/m	
Combustible Liquid		x	Skin Hazard	x			
Flammable Material		x	Eye Hazard	x			NFPA Hazard Signal
Pyrophoric Material		x	Toxic Agent	x			4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant * = Chronic 
Explosive Material		x	Highly Toxic Agent	x			
Unstable Material		x	Sensitizer		x		
Carcinogen		x	Water Reactive Material		x		
Oxidizer		x	Reproductive Toxin		x		
Organic Peroxide		x	Blood Toxin		x		Health Hazard - See Section 6
Corrosive Material		x	Nervous System Toxin		x		DOT Hazard Class: Corrosive
Irritant	x		Liver Toxin		x		EPA Hazardous Waste Class: NA
Compressed Gas		x	Lung Toxin		x		
			Kidney Toxin		x		

SECTION 3. SAFE USAGE DATA

Protective Equipment Types	Eyes: Chemical safety goggles - DO NOT WEAR CONTACT LENSES.
	Respiratory: NIOSH approved respirator.
	Gloves: rubber or other impervious material
	Other: rubber apron splashing is likely
Ventilation	General Mechanical: normal
	Local Exhaust: as required
Precautions	Handling & Storage: Avoid skin and eye contact. DO NOT TAKE INTERNALLY. Keep container closed when not in use. Wash thoroughly after handling.
	Other: For industrial use only.

SECTION 4. EMERGENCY RESPONSE DATA

Fire	Extinguishing Media: N/A (not applicable)
	Special Procedures: Wear self contained breathing apparatus.
	Unusual Hazards: None
Exposure	First Aid Measures: EYES: Flush with water & consult physician. SKIN: Flush with water wash with soap & water. INHALATION: Remove to fresh air, consult physician if irritation develops. INGESTION: Administor water and induce vomiting, continue until vomit is clear & get medical attention immediately.
Spills	Steps To Be Taken: Contain spill if without risk. Use absorbent material & shovel into clean drums. Complete clean-up with water.
In quantities over 55G: RQ=for sodium nitrite 100#	Waste Disposal Method: Dispose of in accordance with all federal, state and local regulations.

SECTION 5. PHYSICAL HAZARD DATA

Flammability	LFL= NA %	Flash Point: none F C
	UFL= NA %	Method Used: NA
Stability	Stable <input checked="" type="checkbox"/>	Conditions to Avoid: none
	Unstable <input type="checkbox"/>	Hazardous Decomp PDTS: nitrogen oxides
Hazardous Polymerization	May Occur <input type="checkbox"/>	Conditions to Avoid: none
	May Not Occur <input checked="" type="checkbox"/>	
Incompatibility	Materials To Avoid: none	


SECTION 6. HEALTH HAZARD DATA

Effects of Exposure: Causes irritation to skin, eyes and respiratory tract. This material is considered highly toxic. INGESTION MAY BE FATAL.
Entry Route: Inhale <input checked="" type="checkbox"/> Ingest <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Eye <input checked="" type="checkbox"/>
Emergency Treatment: See Section 4 above.

SECTION 7. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Pt= NA F C	Vapor Density: NA	Volatile Components: None
Vapor Press = NA mmHg psi	pH: @ 10	
Solubility in H2O: soluble	Will Dissolve In: water	Evaporation Rate: NA
Appearance: clear liquid	Material Is: Liquid	
Odor: negligible odor		

SECTION 8. MANUFACTURER OR SUPPLIER DATA

 ARTESIAN PROCESS CHEMICALS GROUP Post Office Box 3718 • Charleston, WV 25337 Telephone (304) 343-4763	Name: J. W. Morgan	Title: President	Date: revised 4/10
	Signature: <i>J. W. Morgan</i>		
	EMERGENCY TELEPHONE NO.: 1-800-424-9300		
	ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS.		

MATERIAL SAFETY DATA SHEET

BIOTROL 306

Revision Date: 06/04/2009

** FOR CHEMICAL EMERGENCY CALL CHEMTREC: 800-424-9300 **

Manufactured for: Artesian Laboratories, Inc
Address: 224 Capitol Street, Charleston, WV 25301

HMIS RATINGS | HEALTH: 3 | FLAMMABILITY: 0 | REACTIVITY: 0 | PP: C |

SECTION I-PRODUCT INFORMATION

Chemical Name: Mixture*
Chemical Family: Microbiocide/Slimicide
Formula: Mixture
CAS Number: None
DOT Hazard Class: Class 8 (Corrosive)
DOT Proper Shipping Name: Corrosive Liquid, Acidic, Organic, NOS,
Contains 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-
isothiazolin-3-one), Class 8, UN3265, PG II.

SECTION II-PHYSICAL DATA

Boiling Point: 212 degrees F. Specific Gravity (H₂O=1): 1.03
Vapor Pressure (mmHg): 17 mm Hg Vapor Density (air=1): 0.62
Water Solubility: Soluble pH (as is): 3.0 (approx)
Evaporation Rate (n-butyl acetate=1): < 1
Volatiles: 95-96% (water)
Appearance and Odor: Pale yellow liquid with a mild odor.

SECTION III-COMPOSITION/INFORMATION ON INGREDIENTS

Material	Percent	TLV (Units)
5-chloro-2-methyl-4-isothiazolin-3-one ASRN 26172-55-4	1.11	None established
2-methyl-4-isothiazolin-3-one ASRN 2682-20-4	0.37	MEL-0.05 mg/m3

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SECTION III-HAZARDOUS INGREDIENTS (Continued)

Inert Ingredients 98.52 None

* Additional information will be provided in a medical emergency to qualified medical personnel.

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

Flash Point: None

Flammable Limits: Not applicable Lower: N/A Upper: N/A

Extinguishing Media: Water, foam, CO2, or dry chemical.

Special Fire Fighting Procedures: Wear a MSHA/NIOSH-approved, pressure-demand, self-contained breathing apparatus and full protective clothing. Use water spray to cool fire-exposed containers.

Fire and Explosion Hazards: Avoid exposure to fumes & vapors from a fire as they can possibly include sulfur dioxide, hydrogen chloride and oxides of nitrogen.

SECTION V-HEALTH HAZARD DATA

Threshold Limit Value (TLV) for the Product: Not determined for mixture.

Does Product Contain OSHA, NTP or IARC Carcinogens above 0.1%? No.

FIRST AID

EYES: Immediately flush eyes with running water for at least 15 minutes, lifting the upper and lower eyelids occasionally. Get prompt medical attention.

SKIN: Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation or rash develops.

INHALATION: Move to fresh air. See a doctor if breathing is difficult.

INGESTION: Since product is corrosive, **DO NOT INDUCE VOMITING!** If victim is conscious, give 2 glasses of water to drink and call a physician.

NEVER give anything by mouth to an unconscious person.

NATURE OF HAZARD (PHYSICAL EFFECTS):

BIOTROL 306

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Artesian Laboratories, Inc.

EYES: Severe eye irritant. Corrosive, can cause corneal injury.

SKIN: Can cause irritation or burns. Even at low concentrations, the material is a skin sensitizer (can cause allergic dermatitis reaction).

INHALATION: Irritating to the nose, throat and lungs. Inhalation of mists can cause severe irritation to the respiratory system.

INGESTION: Can be harmful or fatal if swallowed.

ACUTE OVEREXPOSURE: Irritating to the exposed areas.

CHRONIC OVEREXPOSURE: No data available for chronic effects.

TOXICITY DATA

EYE CONTACT: A PRIMARY ROUTE OF ENTRY.

Eye (rabbit): Corrosive to eyes.

SKIN CONTACT: A PRIMARY ROUTE OF ENTRY.

Acute Dermal Toxicity (rat): LD50 = 0.2000 mg/kg.

Primary Skin Irritation (rabbit): Persistent, well-defined to moderate dermal irritation.

Sensitization: Can cause allergic skin reaction.

INHALATION:

Acute Inhalation (rat): LC50 (mist) approximately 12.3 mg/l/(4 hr).

INGESTION:

Acute oral toxicity (rat): LD50 is approximately 5500 mg/kg.

Special Precautions: Individuals with diseases of the skin or respiratory system should not be exposed to this product unless fully protected.

TOXICITY DATA (Continued)

REFERENCES

Artesian Laboratories, Inc.

ACGIH: THRESHOLD LIMIT VALUES (2005-06).

SAX'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, Ninth Edition,
Richard J. Lewis Sr., Van Nostrand Reinhold Co. (1996).

MATERIAL SAFETY DATA SHEETS from raw material suppliers.

SECTION VI-REACTIVITY DATA

Stability: Stable XX Unstable _____

Conditions to avoid: None known.

Incompatibility (Materials to Avoid): None known.

Hazardous Decomposition Products: Hydrogen chloride and oxides of sulfur.

Hazardous Polymerization: May occur _____ Will Not Occur XX

SECTION VII-SPILL OR LEAK PROCEDURES

ACTION TO TAKE FOR SPILLS: Personnel cleaning up spills should wear impervious overshoes in addition to the usual protective clothing. The spilled material should be diked and absorbed with an inert solid such as clay or vermiculite. The absorbent (and surface soil to a depth sufficient to remove all microbiocide) is then shoveled into a pail or a drum and treated with enough decontaminant solution to wet the solids thoroughly. Let these containers stand open for 48 hours to avoid pressure build-up, then seal and dispose of by burying as landfill. The decontaminant area is washed with additional decontaminant solution and flushed into a chemical or municipal sewer. Do not discharge spills or cleaning run-offs into open bodies of water. Remove contaminated clothing promptly and launder before re-use. Wash skin with soap and water.

SECTION VII-SPILL OR LEAK PROCEDURES (Continued)

DISPOSAL METHOD: Dispose of in accordance with all local, state and

Artesian Laboratories, Inc.

federal regulatory agencies. For discard, this is a hazardous waste: RCRA NUMBER D002; reportable quantity: 1 pound (CERCLA (Superfund) Section 103). In accordance with local, state and federal regulations, landfill contaminated solids in sealed drums. Puncture or otherwise damage empty plastic containers to prevent reuse.

SECTION VIII-SPECIAL PROTECTION INFORMATION

AIR EXPOSURE RECOMMENDATIONS	NORMAL USE	GAS, FUMES, MISTS EXCEED TLV	SPECIAL THERMAL, SPRAY APPLICATIONS
General ventilation	OK	Not recommended---	Not recommended
Local Exhaust	OK	Not recommended---	Not recommended
Respiratory Protection (Code 1-4)	1	4	4

Codes for Respiratory Protection:

- 1. None Needed
- 2. Particle-removing, air purifying respirator (dust mask)
- 3. Gas and vapor-removing, air purifying respirator (Canister)
- 4. Full face, positive pressure-demand type (air supplied)

EYE PROTECTION: OSHA-approved chemical splash goggles and face shield.

PROTECTIVE GLOVES: Butyl rubber/nitrile.

OTHER PROTECTIVE EQUIPMENT: Impervious apron, eyewash, safety shower.

SECTION IX-SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Wear eye and skin protection. Use in a well-ventilated area. Do not freeze. Keep away from children and other unauthorized personnel. Material is corrosive and is a skin sensitizer. Wash thoroughly after handling, and shower after the work period. Empty drums can still contain hazardous residues; dispose of drums properly when empty. Keep lids on containers when not in use.

SECTION IX-SPECIAL PRECAUTIONS (Continued)

Contaminant Solution: Sodium bisulfite solutions (about 11% solids content) rapidly decomposes the product. Laboratory tests from the supplier

Artesian Laboratories, Inc.

indicate indicate that the microbiocide is almost completely deactivated within 30 minutes when treated with at least 4 equivalents of decontaminating solution. A volume of 20/1 decontaminant/active microbiocide is recommended. The following solutions are acceptable decontaminants:

INGREDIENTS

	<u>WEIGHT (pounds)</u>
Sodium Metabisulfite (Na ₂ S ₂ O ₅)	1.0
Water	8.0
Total	9.0
Solids Content: 11.1%	
pH = 4.2	

INGREDIENTS

	<u>WEIGHT (pounds)</u>
Sodium Bisulfite (NaHSO ₃)	1.0
Water	8.3
Total	9.3
Solids Content: 10.7%	
pH = 4.2	

INGREDIENTS

	<u>WEIGHT (pounds)</u>
Sodium Sulfite (Na ₂ SO ₃)	1.00
Water	7.00
Hydrochloric Acid (37%)	0.67
Total	8.67
Solids Content: 9.5%	
pH = 5.0-5.5	

SECTION X-MISCELLANEOUS

Is product RCRA regulated? Yes, Corrosive Hazardous Waste, D002.

Are all ingredients listed in the TSCA inventory? Yes.

ENVIRONMENTAL EFFECTS: Toxic to fish and wildlife.

RCRA Classification for product: Acute Hazard, chronic hazard

SECTION X-MISCELLANEOUS (Continued)

: SARA TITLE III, SECTION 313 CHEMICALS: :
: : :
: 5-chloro-2-methyl-4-isothiazolin-3-one 1.11% :
: : :

Artesian Laboratories, Inc.

:	CASRN 26172-55-4	:
:		:
:	2-methyl-4-isothiazolin-3-one	:
:	CASRN 2682-20-4	0.37%
:		:
:		:

COMMENTS: This product is for industrial use only!

ISSUE DATE: 02/18/2008
 REVISION:
 SUPERCEDES:
 REASON FOR REVISION:
 PRODUCT NUMBER: 300005
 MSDS #: 08-0018

COMPANY CONTACTS: Heather Casdorff 304-343-4763

 The information given and the recommendations made herein apply to our product(s) alone and not in combination with any other products. Such information and recommendations are based on **ARTESIAN LABORATORIES** research and on data from other reliable sources and are believed to be accurate, but no guaranty of their accuracy is made. In every case we urge and recommend that purchasers, before using any product, make their own tests to verify this data under their own operating conditions and determine to their own satisfaction whether the product is suitable for their particular purposes. **THE PRODUCT IS DISCUSSED HEREIN AND SOLD WITHOUT ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED.**

This form meets the requirements of OSHA 29CFR 1910.1200

MATERIAL SAFETY DATA SHEET

Product Name **CDB 90**
Product id 9716
Revision date 20/01/2010
Supersedes 23/07/2006

Revision: 4

1. Identification of the substance & the company

Chemical name Trichloro-s-triazinetrione

Synonym(s) Trichloroisocyanuric Acid; TCCA; Trichlor; Trichloro-s-triazinetrione; Symclosene

Chemical formula $C_3Cl_3N_3O_3$

Chemical family Chloroisocyanurate

Molecular weight 232.41

Type of product and use For formulation into end-use products intended for disinfectants, sanitizers, fungicides, bactericides and algacides for pools, spas, hot tubs, industrial recirculating water cooling towers, air washers and evaporative condensers, sewage treatment, food contact surfaces, laundry and egg sanitizing

Supplier Clearon Corp.
95 MacCorkle Ave. SW, South Charleston, WV 25303,
USA
Tel: (304) 746-3000

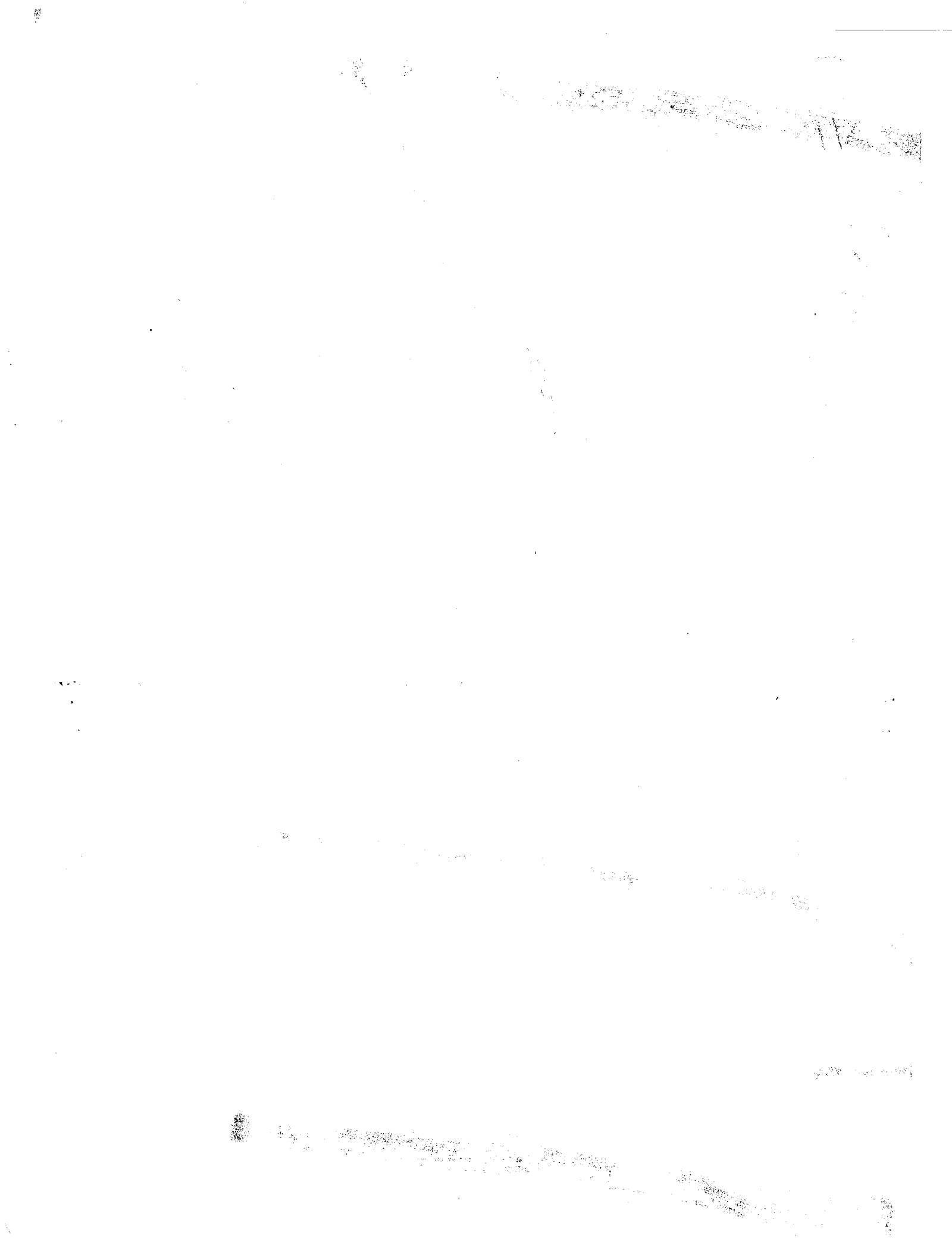
Emergency Telephone Chemtrec (800)424-9300

2. Hazards identification

Emergency overview *White granuls or tablet-form product*
Oxidizer
Causes irreversible eye damage and skin burns
May be fatal if inhaled
May be fatal if absorbed through skin

Potential Health Effects:
- Eye Contact

Severe irritation and/or burns can occur following eye exposure. Contact may cause impairment of vision and corneal damage.



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- Skin contact Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling and scab formation. Repeated skin exposure may cause tissue destruction due to the corrosive nature of the product.

- Inhalation Irritating to the nose, mouth, throat and lungs. It may also cause burns to the respiratory tract with the production of lung edema that can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. Inhalation of high concentrations can result in permanent lung damage from the corrosive action of the lung.

- Ingestion Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration. Ingestion causes severe damage to the gastrointestinal tract with the potential to cause perforation.

Potential environmental effects Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

NFPA Ratings (Scale 0-4) Health = 3, Fire = 0, Reactivity = 2.
Special Hazard Warning: OXIDIZER

HMIS Ratings (Scale 0-4) Health = 3, Fire = 0, Reactivity = 2

3. Composition / information on ingredients

Components	CAS No.	Weight %
Trichloroisocyanuric Acid	87-90-1	98-100

4. First-aid measures

Eye contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advise.

Skin contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advise.

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Inhalation
Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advise.

Ingestion
Call poison control center, or doctor immediately for treatment advise.
Have person sip a glass of water if able to swallow.
Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Note to physician
Probable mucosal damage may contraindicate the use of gastric lavage.

5. Fire-fighting measures

Suitable extinguishing media
Extinguishing media not to be used
Fire fighting procedure

Water

Do not use dry chemical extinguisher containing ammonia compounds.
Cool containers with water spray. Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) in positive pressure mode. On small fires, use water spray or fog.
On large fires, use heavy deluge or fog streams. Flooding amounts of water may be required before extinguishment can be accomplished.

Unusual fire and explosion hazards

When heated to decomposition, may release poisonous and corrosive fumes of nitrogen trichloride, chlorine, nitrous oxides, cyanates, carbon monoxide and carbon dioxide.

MATERIAL SAFETY DATA SHEET

Product Name **CDB 90**
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Supersedes 23/07/2006

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6. Accidental release measures

Personal precautions

For small spills in a well-ventilated areas, wear a NIOSH approved half-face or full face tight fitting respirator or a loose fitting powered air purifying respirator equipped with chlorine cartridges. Chemical goggles should be worn when using a half-face respirator. In addition to respiratory protection, wear coveralls, chemical resistant gloves, chemical resistant footwear, and chemical resistant headgear for overhead exposure.

For clean-up of large spills, or small dry spills in confined areas, wear full-face respirator with chlorine cartridges or a positive pressure supplied air respirator. Additionally, body protection should be impervious clothing covering entire body to prevent personal contact with material.

CAUTION - Protection concerns must also address the following: If this material becomes damp/wet or contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive condition may exist.

Methods for cleaning up

Hazardous concentrations in air may be found in local spill area and immediately downwind. If spill material is still dry, do not put water directly on this product as a gas evolution may occur.

- Soil

Do not contaminate spill material with any organic materials, ammonia, ammonium salts or urea.

Clean up all spill material with clean, dry dedicated equipment and place in a clean dry container.

- Water

This material is heavier than and soluble in water. Stop flow of material into water as soon as possible. Begin monitoring for available chlorine and pH immediately.

- In air

Vapors may be suppressed by the use of water fog.

7. Handling and storage

Handling

Avoid bodily contact.

Do not take internally.

Upon contact with skin or eyes, wash off with water.

Storage

Store in a dry, cool, well-ventilated area away from incompatible materials (see "materials to avoid").

Product has an indefinite shelf-life limitation. Do not store at temperatures above 60°C/140°F.

Available chlorine loss can be as little as 0.1% per year at ambient temperatures.

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 Supersedes 23/07/2006

Revision: 4

8 Exposure controls / personal protection

Exposure Limits :

Components	ACGIH-TLV Data	OSHA (PEL) Data
Trichloroisocyanuric Acid 87-90-1	Not determined	Not determined

Ventilation requirements

Use local exhaust ventilation to minimize dust and chlorine levels where industrial use occurs.
 Otherwise, ensure good general ventilation.

Personal protective equipment:

- Respiratory protection

When dusty conditions are encountered, wear a NIOSH/OSHA full-face respirator with chlorine cartridges for protection against chlorine gas and dust/mist pre-filter.

- Hand protection

Neoprene gloves

- Eye protection

Use chemical safety glasses to avoid eye contact.

- Skin and body protection

Where industrial use occurs, chemical goggles may be required.
 Body covering clothes and boots

Hygiene measures

Avoid contact with skin, eyes and clothing.

9 Physical and chemical properties

Appearance

White granules or tablet-form product

Odor

Sharp, chlorine-like bleach odor

Boiling point/range

Not applicable (decomposes)

Melting point/range

225-230°C (decomposes)

Flash point

Not applicable

Auto-ignition temperature

Not applicable

Vapour pressure

Not applicable under standard conditions

Evaporation rate (ether=1)

Not applicable under standard conditions

Vapor density

Not applicable under standard conditions

Solubility:

- Solubility in water

1.2 g/100ml at 25°C

Bulk density

Granular - 0.89-1.1 g/cc

Specific gravity

Tablet - 1.16-1.9 g/cc

pH

>1

Decomposition temperature

2.7-2.9 (1% solution)

225 °C (437°F)

MATERIAL SAFETY DATA SHEET

Product Name **CDB 90**
Product id 9716
Revision date 20/01/2010
Supersedes 23/07/2006

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10. Stability and reactivity

Stability Stable under normal conditions. Do not package in paper or cardboard.
NOTE: Contact with small amounts of water may result in an exothermic reaction with the liberation of toxic fumes.

Materials to avoid Organic materials, reducing agents, nitrogen containing materials, other oxidizers, acids, bases, oils, grease, sawdust, dry fire extinguishers containing monoammonium compounds.

Conditions to avoid Heating above decomposition temperature
Hazardous decomposition products Nitrogen trichloride, chlorine, nitrous oxides, cyanates, carbon monoxide, carbon dioxide.

Hazardous polymerization Will not occur

11. Toxicological information

Acute toxicity:
- Rat oral LD50 490 mg/kg
- Rabbit dermal LD50 >2000 mg/kg
- Eye irritation (rabbit) Corrosive
- Dermal irritation (rabbit) Corrosive

Dermal sensitization Not a sensitizer

Chronic toxicity Prolonged exposure may cause damage to the respiratory system.
Chronic inhalation exposure may cause impairment of lung function and permanent lung damage.

Mutagenicity Not mutagenic in five Salmonella strains and one E.coli strain with or without mammalian microsomal activation.

Carcinogenicity Not classified by IARC, OSHA, EPA.
Not included in NTP 11th Report on Carcinogens

Reproductive toxicity There are no known or reported effects on reproductive function or fetal development.
Toxicological investigation indicates it does not affect reproductive function of fetal development.

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Product Name **CDB 90**
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12. Ecological information

Aquatic toxicity :

- 96 Hour-LC50, Fish 0.32 mg/l (Rainbow trout)
0.30 mg/l (bluegill sunfish)
- 48 Hour-LC50, Daphnia magna 0.21 mg/l

Avian toxicity:

- Oral LD50, Mallard duck 1600 mg/kg
- Dietary LC50, Mallard duck >10,000 ppm
- Dietary LC50, Bobwhite quail 7422 ppm

Germany, water endangering classes (WGK) 3

13. Disposal considerations

Waste disposal

Observe all federal, state and local environmental regulations when disposing of this material. If this product becomes waste, it will be a hazardous waste that is subject to the Land Disposal Restrictions under 40 CFR 268 and must be managed accordingly.
Care must be taken to prevent environmental contamination from the use of this material.

14. Transportation information

UN No. 2468

DOT Proper shipping name: Trichloroisocyanuric Acid Dry
Class: 5.1 - Oxidizing substances
Label: Oxidizing substances (5.1)
Packing Group: II
Emergency Guide No. 140

IMO Proper shipping name: Trichloroisocyanuric Acid Dry
Class: 5.1 - Oxidizing substances
Label: Oxidizing substances (5.1)
Packing Group: II
Mark: MARINE POLLUTANT

MATERIAL SAFETY DATA SHEET

Product Name **CDB 90**
 Product id 9716
 Revision date 20/01/2010
 Supersedes 23/07/2006

Revision: 4

ICAO/IATA
 Proper shipping name: Trichloroisocyanuric Acid Dry
 Label: Oxidizing substances (5.1)
 Class: 5.1
 Packing group: II
 Marking: Environmentally hazardous substance

5. Regulatory information

- USA**
 Reported in the EPA TSCA Inventory This product is registered under FIFRA.
- SARA (311, 312) This product is categorized as an immediate health hazard, and fire and reactivity physical hazard This product does not contain a chemical listed at or above de minimis concentrations.
 - Massachusetts right-to-know list Listed
 - New Jersey right-to-know list Listed
 - Pennsylvania right to know list Listed
 - Waste Classifications If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D001.
 - Workplace Classification This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).
- Canada**
 Listed in DSL
- WHMIS hazard class
 C oxidizing materials
 D1B toxic materials
 D2B toxic materials
- Reported in EINECS**
- Japan ENCS No. 5-1044, 5-1041
 - Australia Listed in AICS
 - New Zealand Inventory Listed in NZIoC
 - China inventory Listed
 - Korea KE-34101

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Product Name **CDB 90**
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Supersedes 23/07/2006

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Philippines Listed in PICCS

16. Other information

This data sheet contains changes from the previous version in section(s)
3, 14, 15

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. Additionally, if this Material Safety Data Sheet is more than three years old, you should contact Clearon at the phone number listed below to make certain that this sheet is current.

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, Clearon Corp. makes no representations as to the completeness or accuracy thereof.

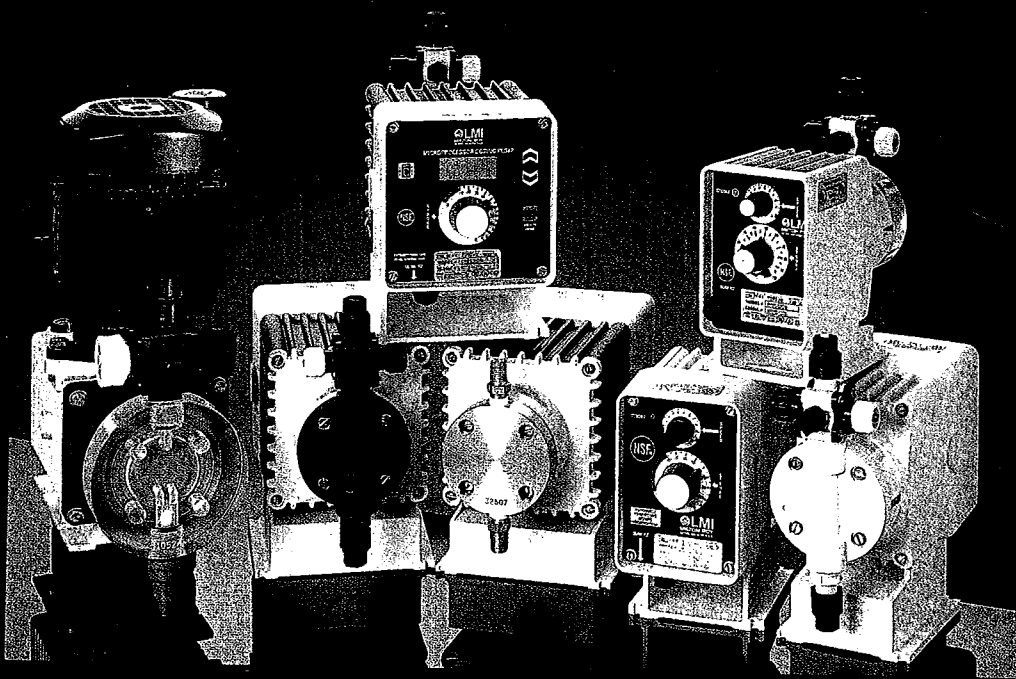
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In an event of discrepancy between the contents of this MSDS and the English version of it, the English version shall prevail.

Prepared by HEALTH, SAFETY & ENVIRONMENT DEPARTMENT
CLEARON CORPORATION
95 MacCorkle Ave., S.W.
South Charleston, WV 25303
USA
Phone number: (304) 746-3000

End of safety data sheet



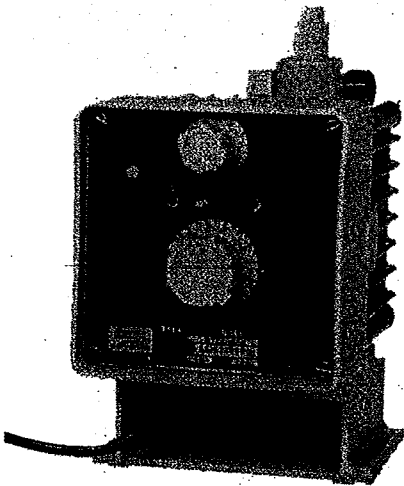
 **LMI**
MILTON ROY

Metering Pumps

Information Sheet

Advantages of LMI Electronic Pumps

- **PRESSURE LIMITED** - No mechanical linkage. When the back pressure exceeds the strength of the magnetic force developed by the power coil, the pump stops stroking. No damage will occur to the pump.
- **CONSTANT DISCHARGE VELOCITY / BETTER VALVE ACTION** - Actual speed of each discharge stroke remains the same, no matter how low the stroke frequency is set. Sharp valve action is not sacrificed when pump speed is reduced.
- **WIDE RANGE ABILITY** - Both stroke length and stroke frequency are adjustable and have a multiplying effect. A practical adjustability range of 200 to 1 is common.
- **EASY ADAPTABILITY TO AUTOMATIC CONTROL** - Standard Series A7, B7, and C7 pumps are equipped to respond to an external switch closure such as that delivered by the LMI Flowmeter - Pulsar. They can also respond to standard analog 4-20mA signal by means of the LMI Micropace MP-100 or DPC-40 controller.
- **SIMPLICITY OF MOVING UNIT** - Only one moving unit, the armature-diaphragm assembly. Requires no lubrication in service. No rotating masses such as motor or reduction gears.
- **MODULAR CONSTRUCTION** - Components and major assemblies are easily replaced. No soldering is required to replace any part of the LMI pump.
- **TOTALLY ENCLOSED** - Corrosion proof glass fiber reinforced polypropylene housings keep pump protected from chemicals and atmosphere.
- **LOW CONSUMPTION OF ELECTRICAL ENERGY** - LMI pumps use power only during the discharge portion of each stroke, thus causing minimum electrical consumption and low heat generation. No ventilation is required.
- **INDEPENDENT OF POWER LINE FREQUENCY** - LMI pumps can operate with any line frequency from 25 to 66 Hz without change in output or damage to the pump.



 **LMI**
LIQUID METRONICS DIVISION
MILTON ROY
A unit of Sundstrand Corporation

ARTESIAN LABORATORIES, INC.
P.O. BOX 3718
CHARLESTON, WV 25337

8 Post Office Square
Acton, MA 01720 USA
TEL: (978) 263-9800
FAX: (978) 264-9172
<http://www.lmipumps.com>



Replaces same of Rev. B 5/97
1120. B 3/98

ANOTHER IMPORTANT LMI ADVANTAGE

The unique, built-in Four Function Valve for Liquid Ends in Series 60, 70, 80, 90, 150 and 190

1. **Positive Anti-Syphon**
2. **Back Pressure**
3. **Priming Aid - Line Pressure Release**
4. **Pressure Relief**

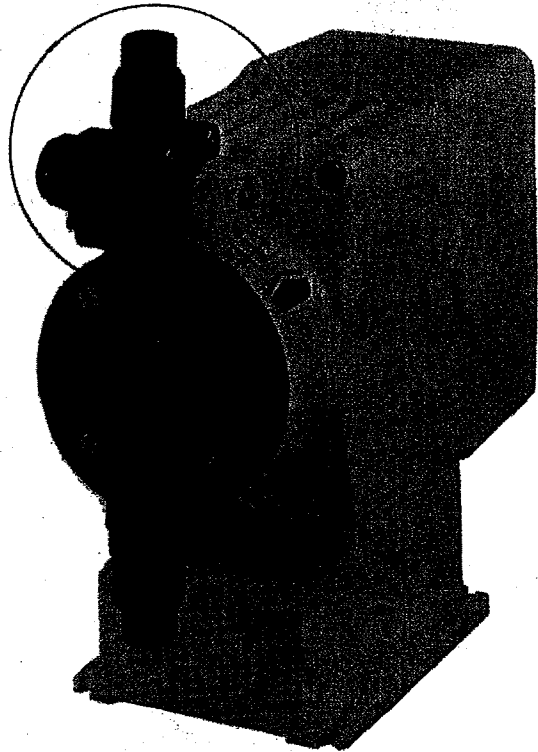
Valve components are of corrosion resistant CFR PVDF, PVC/Polypropylene, or all Polypropylene. Diaphragms are molded Teflon® - Faced with Viton® backing, or PFA.

A positive diaphragm-type **ANTI-SYPHON** function makes it possible to meter liquids "down hill"; even into the suction side of a pump.

The **BACK PRESSURE** function permits metering into atmospheric discharge (open tank) without over pumping due to discharge velocity.

The **PRIMING - LINE PRESSURE RELEASE** function makes it easy to de-pressurize the discharge line without loosening tubing or fittings. You can **prime** your LMI pump while it is connected to a pressurized line.

The **PRESSURE RELIEF** function is not required on electronic pumps, but is important on any mechanical, motor driven pump. It is designed to open at approximately 175 psi.



FOUR FUNCTION VALVE MOLELS - add an "S" as a suffix to the end of the pump model number for any Series 60, 70, 80, 90, 150 or 190 pump equipped with a Liquid End, and your pump will come equipped with a built-in Four Function Valve.

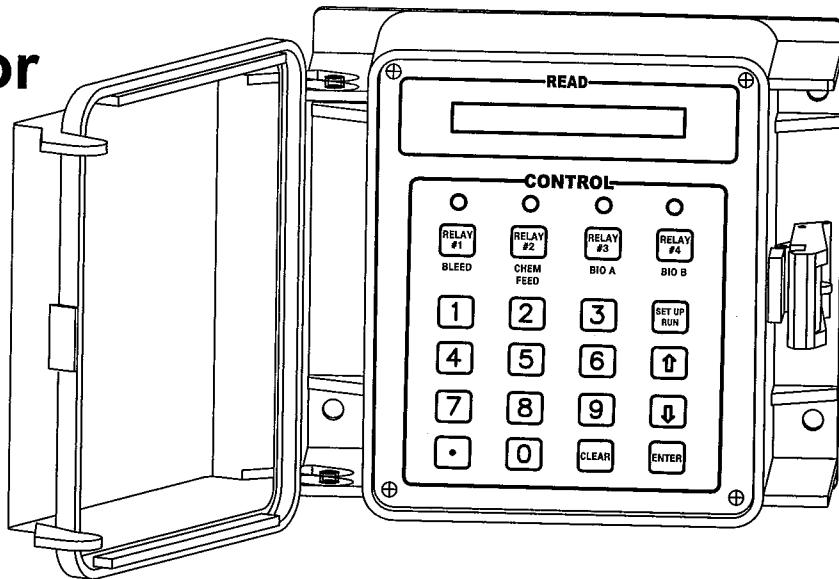
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ARTESIAN LABORATORIES, INC.
P.O. BOX 3718
CHARLESTON, WV 25337

MicroTron Tower Controller

Microprocessor Control of:

- Conductivity
- pH
- ORP
- Chemical Feed
- Biocide Control



Key Features

- 12 Bit Input Resolution
- Simple Step Through Menu
- One Point Calibration
- Raised Dome Keypads
- Relay Test Keys
- Non-Volatile Memory
- No Battery Required
- User Defined Security Code
- 2 Year Warranty
- Remote Communication Option
- Expanded Set Up Parameters
- Prewired Configuration

Application

The MicroTron series of controllers provide a wide range of options and features for a custom tailored unit to meet your unique systems needs.

MicroTron controllers can be configured with conductivity control of bleed, pH and/or ORP control. Selectable chemical feed timers and biocide timers are also available plus many more options and features (see reverse side).

The MicroTron series of controllers for recirculating water systems, such as cooling towers, offer the most flexibility in features and functions for the price.

Base Functions

All MicroTron controller model numbers can be broken down as follows and will always start with an M or L.

- M** MicroTron controller with VFD display
- L** MicroTron controller with LCD display
- C** Conductivity control with temperature
- C-2** Adds make-up conductivity function
- F** Single programmable feed timer
- F-2** Dual programmable feed timers
- F-3** Triple programmable feed timers
- B** Single 28 day timer
- B-2** Dual 28 day timer
- B-3** Triple 28 day timer
- P** pH control
- P-2** pH control with dual set points
- R** ORP control

MicroTron controls have a maximum of 5 relay outputs. Each letter designation above (except M and L) uses one relay. Letters with a -2 or -3 indicate the use of more relays. (C-2 uses only one relay)

Example Model Number: MCFB-2

Options

Your unit may be supplied with one or more options listed at the end of the model number, for example MCFB-2EHJ. This list represents our most popular options. For a complete list of options, consult the factory.

- A** Conduit Connections
- A-6** On/Off Power Switch (Adds Lower Enclosure)
- A-7** Lower Enclosure
- C-1** 0-5V Non-Isolated Output
- C-4** Single 4-20 mA Non-Isolated Output
- C-6** Single Isolated 4-20 mA Output
- D** 220 V Service (Must be conduit unit)
- E** Mounted Flow Switch Assembly 150 psi
- G** Serial Line Connection
- H** Serial Line Connection With Modem
- J** Windows Software
- L** Additional Output Cord
- M** Alarm Relay
- M-1S** Sonic Alarm Buzzer with Silence Switch
- N** Non Standard Conductivity Scales
- Q** Alternate electrodes
- R** Molex Connector on Conductivity Electrode
- V** Digital input for Bleed-Off Water Meter
- W** Power Relay 1.5 HP Maximum, 25 Amps
- X** Tank Low Level Alarm with Level Wand(s)
- Y** Bleed Flow Alarm (requires a Flow Switch)
- Z-6** Accepts 2 Water Meter Inputs
- Z-11** Lockout Chem Feed with Low Cond. Alarm

Specifications

Electrical

- **Input:** 115 VAC, 50/60 Hz
 - **Control:** 115 VAC, 15 Amp Total Capacity
- Prewired units are supplied with an eight foot power cord and 11" output receptacles.

Operational

- **Display:** VFD 1 x 16 florescent alphanumeric
LCD 1 x 16 backlit alphanumeric
- **Conductivity Control:** 0-5000 μ S/cm scale
- **pH:** 0-14 scale
- **ORP:** +/- 1000 millivolts scale
- **Accuracy:** +/- 1%
- **Feed Timers (Selectable):**
Pulse: 99 min, 59 sec run time, 1-99 counts
% of Time: 1-99 minute cycle, 1-99% on time
Feed with Bleed: Limit timer 0-99 minutes
Post Feed Bleed: 1-99% of bleed cycle with 0-99.59 minute limit timer
- **Biocide Timer:** 28 day programmable

Enclosure

Heavy duty NEMA 4X type high impact thermoplastic with padlockable gasketed Lexan viewing door.

Environment

Ambient temperature: 0° to 125°F (-17 to 52°C)
Relative humidity: 0 to 100%

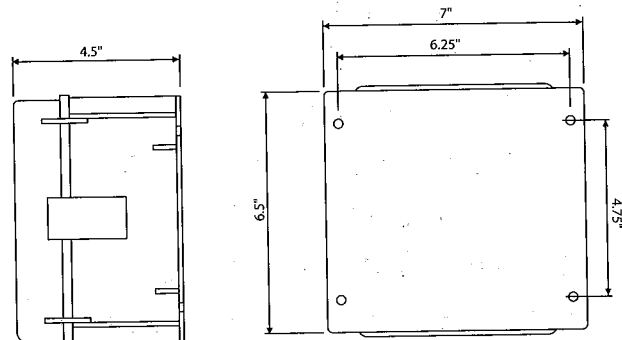
Electrodes

Standard electrodes are supplied in 3/4" SCH 80 PVC female slip tees with quick release nut.

- **Conductivity:** TE-4A 150 psi / 140°F(58°C) Max
- **pH:** TPE-2 100 psi / 140°F(58°C) Max
- **ORP:** TOE-2 100 psi / 140°F(58°C) Max

Shipping Weight: Approximately 6 lbs.

Dimensions: W 7" x H 6.5" x D 4.5"



Get the Advantage

Advantage
Controls Inc.

By-Pass & Filter Feeders



By-Pass Feeders

Neptune By-Pass Feeders are a convenient method of introducing treatment chemicals into closed circulating water systems.

Neptune By-Pass Feeders are ideal for use with chilled water treatment such as air conditioning systems or hot water treatment in heating systems or large engine water jackets.

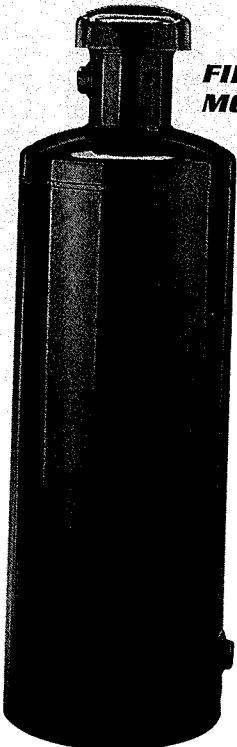
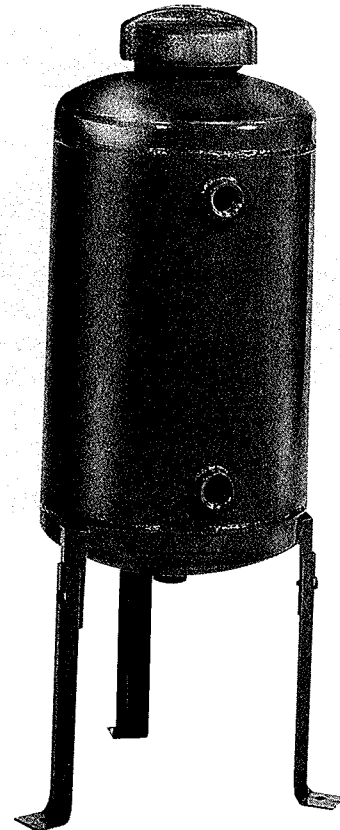
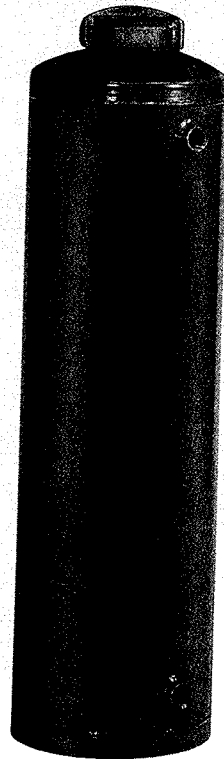
Neptune offers two styles of By-Pass Feeders: A vertical style with dish bottom in and a vertical style with dish bottom out.

A new high pressure cap rated to 300 psi is now available. The first closure improvement in over a decade.

BY-PASS FEEDERS - VERTICAL STYLE

**DISH BOTTOM IN
MODEL VTF-10HP**

**DISH BOTTOM OUT
MODEL DBF-5HP**



**FILTER FEEDER
MODEL FTF-5HP**

Filter Feeders

The Neptune Filter Feeder combines chemical addition and filtering in one piece of equipment. It is a convenient way to introduce powders or liquid chemicals into hot or cold water closed circulating systems.

- Eliminates need for separate By-Pass Feeder and filter.
- Filtration can be achieved at the same time as chemical addition.
- Extended neck with top inlet allows simple installation of filter or dissolving basket.
- Filter bags are available in coarse and fine grades. (Order separately.)
- Filter bags are quickly and easily replaced.

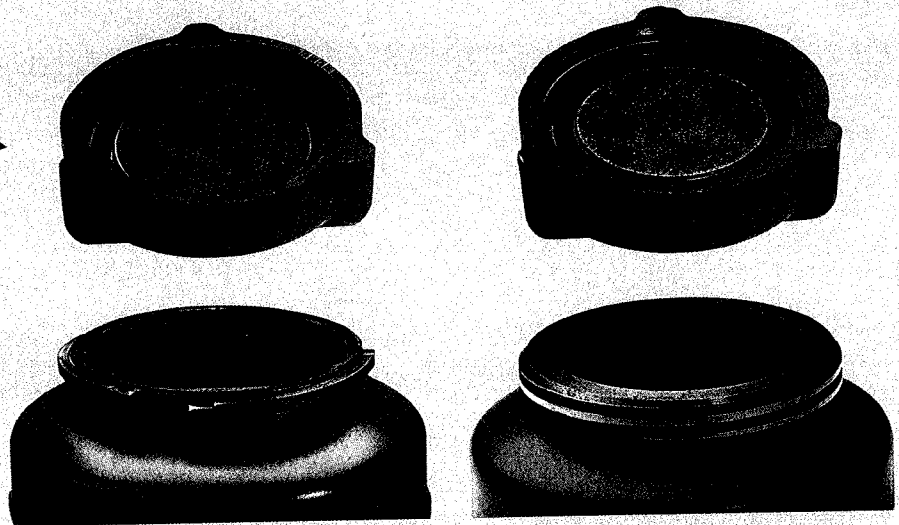
By-Pass Feeders

Caps

NEW!
The first closure
improvement in
over a decade!

Neptune offers two styles of quick opening, wide-mouth caps.

Both caps offer better sealing with less force and eliminate the need for tools. Cap design binds cap tightly when under pressure, making it impossible to remove the cap by hand until pressure is bled from the tank.



STANDARD CAP

Three lug, 1/2 turn design
rated to 200 psi.

HIGH PRESSURE CAP

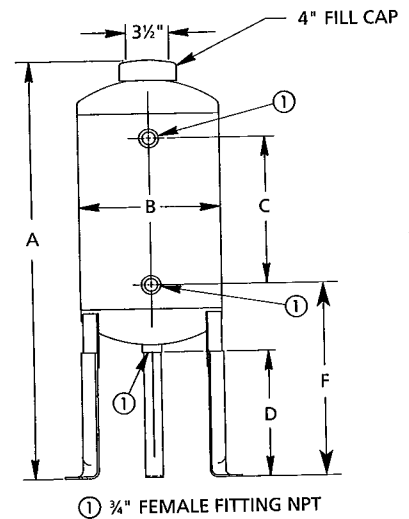
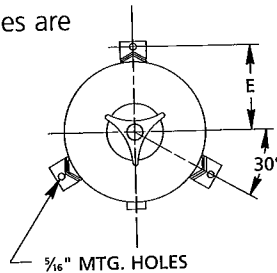
Coarse thread, 2 1/2 turn design
rated to 300 psi.

Vertical Style - Dish Bottom Out

The "DBF" series features wide-mouth caps manufactured by Neptune. These caps utilize a square section "O" ring seal and will **close easily by hand**. Advantages of this series are demountable leg extensions and a **full bottom drain**.

Specifications

- Working pressure: to 300 PSI max. at 200°F
- Tank shell:
2 gallon unit – 11 gauge steel
5 gallon unit – 10 gauge steel
- Tank heads:
2 gallon unit – 11 gauge steel
5 gallon unit – 9 gauge steel
- Cap: cast iron with Buna N "□" ring.
Wide mouth,
easy open/easy close.



MODEL NUMBER	APPROX. CAPACITY	MAX. PRESSURE*	A	B	C	D	E	F	SHIP WEIGHT
DBF-2	2 Gallons	200 psi	31 1/4"	6"	12 3/4"	8 5/8"	4 7/8"	13 1/4"	23 lbs.
DBF-2HP	2 Gallons	300 psi	31 1/4"	6"	12 3/4"	8 5/8"	4 7/8"	13 1/4"	23 lbs.
DBF-5	5 Gallons	200 psi	29 3/4"	10"	10 1/2"	8"	6 7/8"	13"	38 lbs.
DBF-5HP	5 Gallons	300 psi	29 3/4"	10"	10 1/2"	8"	6 7/8"	13"	38 lbs.

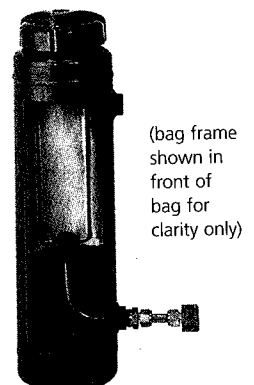
*At 200°F Max.

Filter Bag Kits

Available for all "VTF" and "DBF" models. Kit includes bag, bag frame, tubing and connectors. The addition of a filter bag allows the By-Pass Feeder to function simultaneously as a side stream filter. (A clean bag is rated at approximately 30 microns.)

VTF-2 with filter bag kit installed

MODEL	FOR USE ON
FBK-2	VTF-2, VTF-2HP, DBF-2, DBF-2HP
FBK-5	VTF-5, VTF-5HP, DBF-5, DBF-5HP
FBK-10	VTF-10HP only



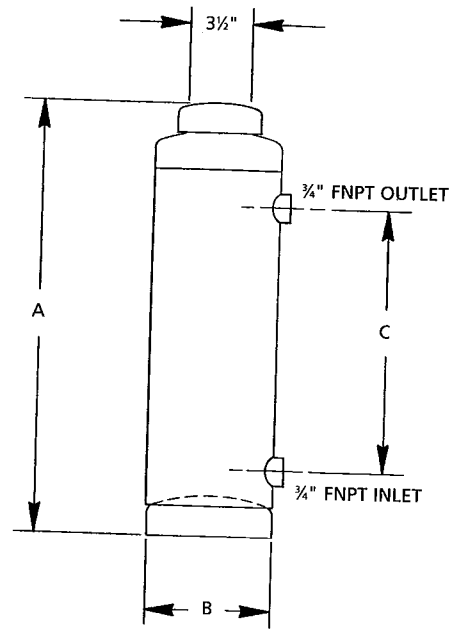
(bag frame shown in front of bag for clarity only)

Vertical Style - Dish Bottom In

The "VTF" series is the most popular and economical of the by-pass feeders available from Neptune. The series uses the same **easy close** caps described in the "Dish Bottom Out" style.

Specifications

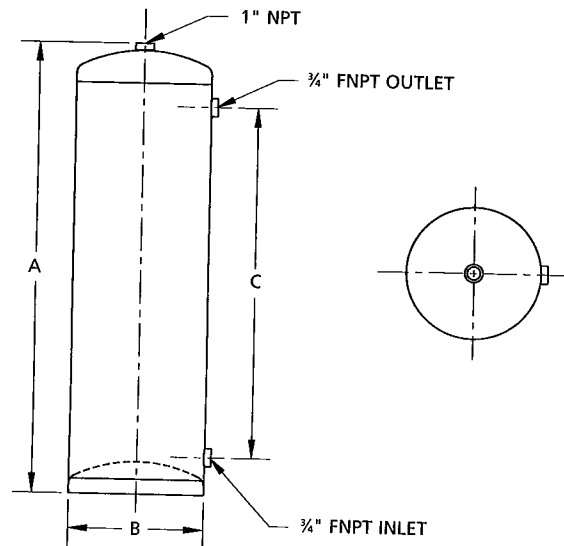
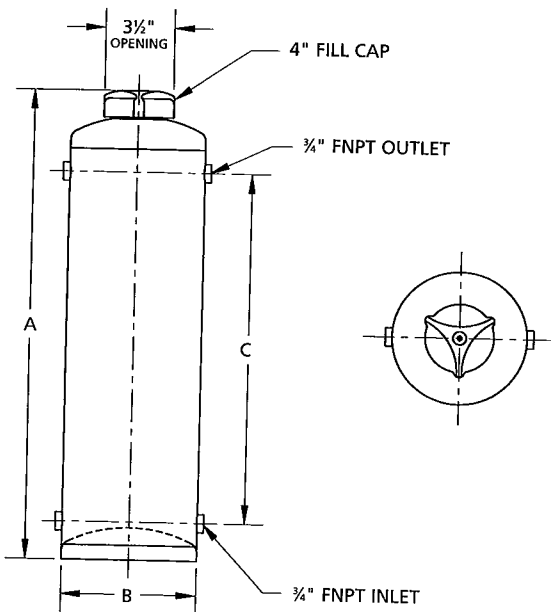
- Working pressure: to 300 PSI max. at 200°F
- Tank shell:
2 gallon unit – 11 gauge steel
5, 10 & 12 gallon units – 10 gauge steel
- Tank heads:
2 gallon unit – 11 gauge steel
5, 10 & 12 gallon units – 9 gauge steel
- Cap: cast iron with Buna N "□" ring.
Wide mouth, easy open/easy close.



Standard Models

MODEL NUMBER	APPROX. CAPACITY	MAX. PRESSURE*	A	B	C	SHIP WEIGHT
VTF-2	2 Gallons	200 psi	21 1/4"	6"	12 3/4"	23 lbs.
VTF-2HP	2 Gallons	300 psi	21 1/4"	6"	12 3/4"	23 lbs.
VTF-5	5 Gallons	200 psi	19 3/4"	10"	10 1/2"	37 lbs.
VTF-5HP	5 Gallons	300 psi	19 3/4"	10"	10 1/2"	37 lbs.
VTF-10HP	10 Gallons	300 psi	35 3/4"	10"	26 1/2"	60 lbs.
VTF-12HP	12 Gallons	300 psi	42"	10"	32 3/4"	68 lbs.

*At 200°F Max.



Four Fitting Models

MODEL NUMBER	APPROX. CAPACITY	MAX. PRESSURE*	A	B	C	SHIP WEIGHT
VTF-2X4HP	2 Gallons	300 psi	21 1/4"	6"	12 3/4"	23 lbs.
VTF-5X4HP	5 Gallons	300 psi	19 3/4"	10"	10 1/2"	37 lbs.

*At 200°F Max.

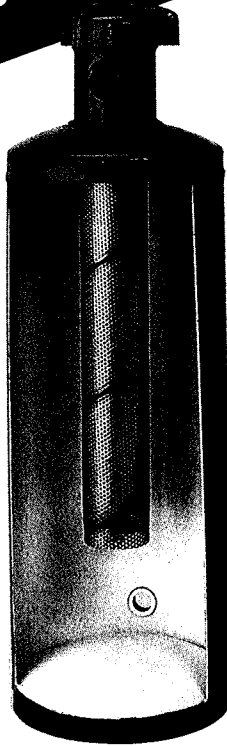
Feeder Bodies

MODEL NUMBER	APPROX. CAPACITY	MAX. PRESSURE*	A	B	C	SHIP WEIGHT
VTF-2-1	2 Gallons	300 psi	20"	6"	12 3/4"	23 lbs.
VTF-5-1	5 Gallons	300 psi	18"	10"	10 1/2"	37 lbs.

*At 200°F Max.

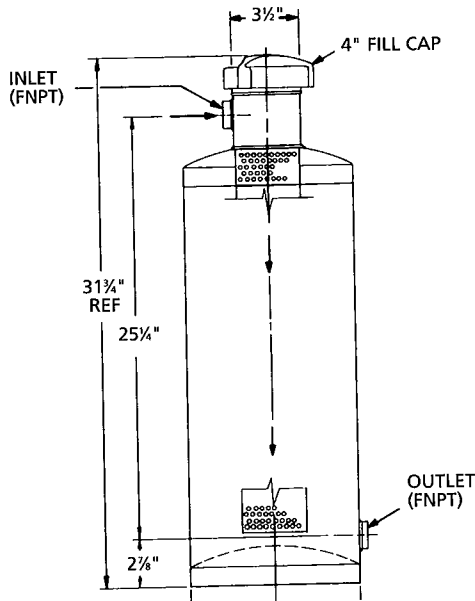
Filter Feeders

**MODEL
FTF-5HP**



Features

- Stainless steel dissolving basket holds and fully supports the filter bag inside.
- Standard connections are 3/4". Larger 1 1/2" connections are available for high flow applications where reduced nozzle velocity is desirable.



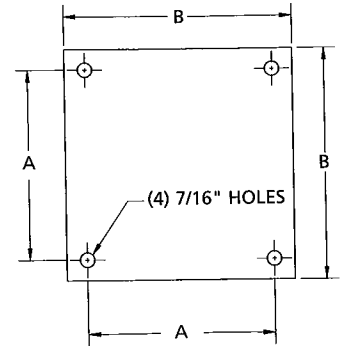
ALL MODELS

MODEL NUMBER	APPROX. CAPACITY	MAX. PRESSURE*	DIAM.	CONN. SIZE	ANCHOR BOLT PLATE	
					A	B
FTF-2HP	2 1/2 gals.	300 psi	6"	3/4" FNPT	— N/A	—
FTF-2CL	2 1/2 gals.	300 psi	6"	3/4" FNPT	5 3/4"	7"
FTF-5HP	7 1/2 gals.	300 psi	10"	3/4" FNPT	— N/A	—
FTF-5CL	7 1/2 gals.	300 psi	10"	3/4" FNPT	10 3/4"	12"
FTF-5150HP	7 1/2 gals.	300 psi	10"	1 1/2" FNPT	— N/A	—
FTF-5150CL	7 1/2 gals.	300 psi	10"	1 1/2" FNPT	10 3/4"	12"

*At 200°F Max.

Optional Leg Set with anchor bolts fits Models FTF-5HP and FTF-5150HP. Elevates feeder 9". Order "FTF-LEGS".

- Model FTF-5150HP features oversize 1 1/2" inlet and outlet connections. Can be used for system clean-up with high volume pumps where high flow rates are desired for fast clean-up or flush-out prior to start-up.
- Working pressure: 300 PSI max. at 200°F
- Tank shell: 10 gauge steel
Tank heads: 9 gauge steel
Cap: cast iron with Buna N "□" ring
- "CL" Models feature a welded base to allow bolting to the floor or other mounting surface. Four holes for 3/8" bolts are provided on each Anchor Bolt Plate.

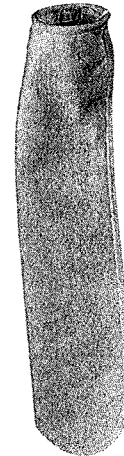


**ANCHOR BOLT PLATE
FOR "CL" MODELS**

MODEL FTF-2CL



**STAINLESS
STEEL BASKET**



**FILTER
BAG**

Filter Bags

(Not included with basic unit. Both bag types fit all "FTF" models.)

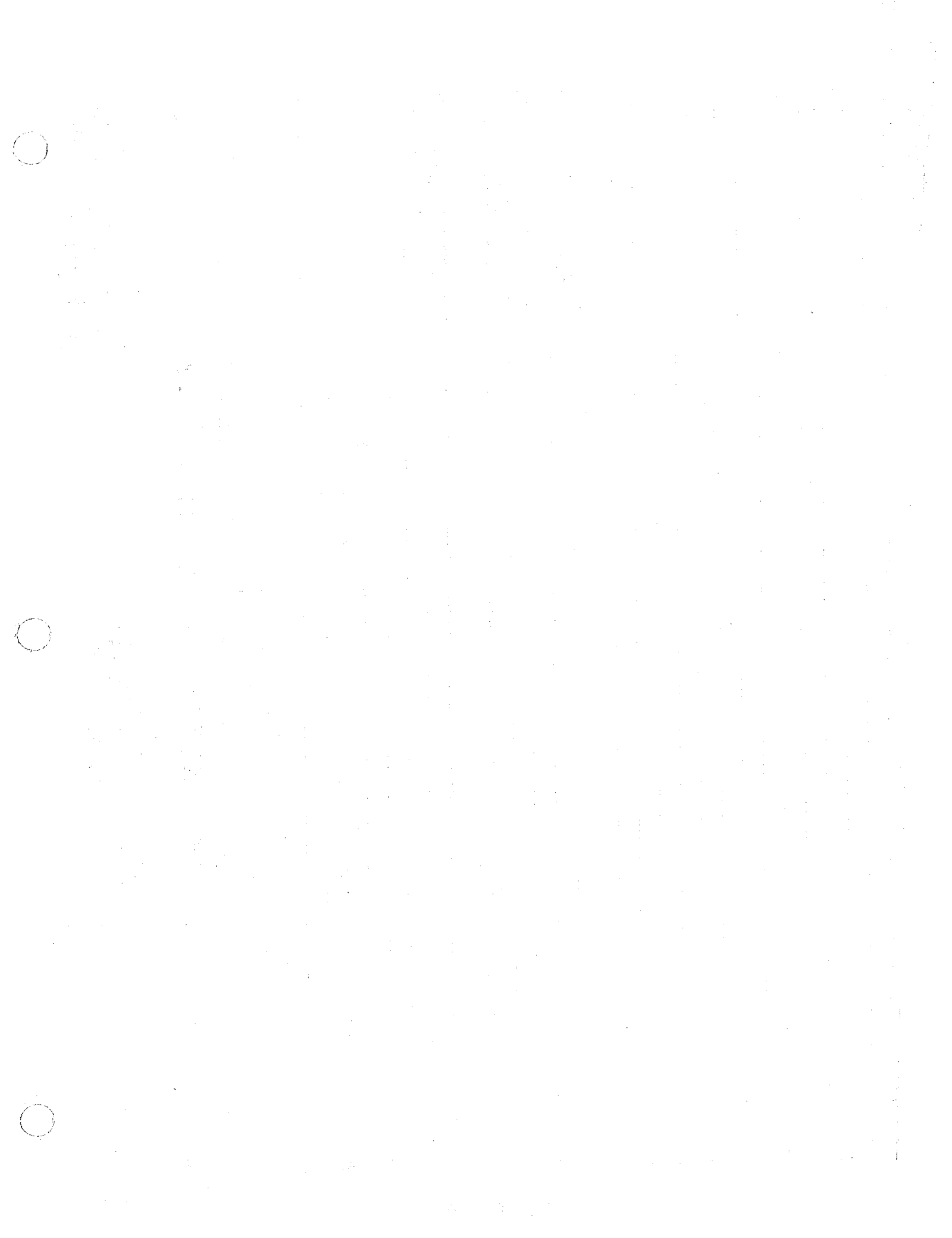
PART NO.	TYPE	QUANTITY	DESCRIPTION
106453	Fine	Pkg. of 1	5-micron ringtop bag
106462	Coarse	Pkg. of 1	20-micron elastic cuff bag

Neptune
CHEMICAL PUMP CO., INC.

P.O. Box 247 • Lansdale, PA 19446-0247
Tel: 215-699-8700 • Fax: 215-699-0370
Toll-Free Fax: 1-800-255-4017
Web Site: <http://www.neptune1.com>
E-mail: pump@neptune1.com

SOLD BY:

ARTESIAN LABORATORIES, INC.
P.O. BOX 3718
CHARLESTON, WV 25307



ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
05/27/2010

PRODUCER
Silverstein & Maddox Insurance Inc. (304)343-9518
821 Smith St
Charleston WV 25301

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
Artesian Laboratories Inc.
P O Box 3718
Charleston, WV 25357

INSURERS AFFORDING COVERAGE	NAIC #
INSURER A:	
INSURER B: ERIE INS PROP & CAS CO	
INSURER C:	
INSURER D:	
INSURER E: Flashin City Insurance Co	

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR ADD'L LTR. INSD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC				EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	0045230003	4/8/2010	4/8/2011	COMBINED SINGLE LIMIT (Ea accident) \$ 300,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ AUTO ONLY - EA ACCIDENT \$ OTHER THAN AUTO ONLY: EA ACC \$ AGG \$
	GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				EACH OCCURRENCE \$ AGGREGATE \$ \$ \$
	EXCESS/UMBRELLA LIABILITY <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> DEDUCTIBLE RETENTION \$				EACH OCCURRENCE \$ AGGREGATE \$ \$ \$
E	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	Q897308131	5/23/2010	5/23/2011	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 100,000 E.L. DISEASE - EA EMPLOYEE \$ 100,000 E.L. DISEASE - POLICY LIMIT \$ 500,000
	OTHER				

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS
 Evidence of Insurance

CERTIFICATE HOLDER
 State of West Virginia
 General Services Division Bldg.1
 Attn: Dave Parsons
 1900 Kanawha Blvd. East Room MB-60
 Charleston, WV 25305

CANCELLATION
 SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.
 AUTHORIZED REPRESENTATIVE
Jim D. Duvall

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
05/27/2010

PRODUCER
Silverstein & Maddox Insurance Inc. (304)343-9518
821 Smith St
Charleston WV 25301

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INSURED
Artesian Laboratories Inc.
P O Box 3718
Charleston, WV 25337

INSURERS AFFORDING COVERAGE

NAIC #

INSURER A:
INSURER B: ERIE INS PROP & CAS CO
INSURER C:
INSURER D:
INSURER E: Flagship City Insurance Co

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR ADD'L LTR. INSD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC				EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COM/PROP AGG \$
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	0045530003	4/8/2010	4/8/2011	COMBINED SINGLE LIMIT (Ea accident) \$ 300,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN EA ACC \$ AUTO ONLY: AGG \$
	EXCESS/UMBRELLA LIABILITY <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> DEDUCTIBLE <input type="checkbox"/> RETENTION \$				EACH OCCURRENCE \$ AGGREGATE \$ \$ \$
E	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below OTHER	Q897300131	5/23/2010	5/23/2011	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> 10TH ER E.L. EACH ACCIDENT \$ 100,000 E.L. DISEASE - EA EMPLOYEE \$ 100,000 E.L. DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

Evidence of Insurance

CERTIFICATE HOLDER

CANCELLATION

State of West Virginia
General Services Division Bldg.1
Attn: Dave Parsons
1900 Kanawha Blvd. East Room MB-60
Charleston, WV 25305

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE
Jim D. Howard

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with West Virginia Code, §5A-3-37. (Does not apply to construction contracts). West Virginia Code, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the West Virginia Code. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

- 1. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,

- 2. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

- 3. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

- 4. Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,

- 5. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,

- 6. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: Artesian Laboratories, Inc, Signed: [Signature] Title: Secretary/Treasurer Date: 1/24/11

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Artesian Laboratories, Inc.

Authorized Signature: *Catherine Morgan* Date: 1/24/11

State of WEST VIRGINIA

County of KANAWHA, to-wit:

Taken, subscribed, and sworn to before me this 24th day of JANUARY, 2011.

My Commission expires DECEMBER 20, 2012, 2012.

AFFIX SEAL HERE

NOTARY PUBLIC *Shirley A Jones*

