

BAY AREA CHEMICAL CONSORTIUM

REQUEST FOR BIDS

BID NO. 03-2023

FOR SUPPLY AND DELIVERY OF AQUEOUS AMMONIA

BID DUE DATE: 4:00 P.M. PT, Thursday, February 23, 2023

BID OPENING DATE: 4:00 P.M. PT, Thursday, February 23, 2023

**Coordinating Agency:
Bay Area Clean Water Agencies**

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**NOTICE INVITING SEALED BIDS
FOR SUPPLY AND DELIVERY OF AQUEOUS AMMONIA
BAY AREA CHEMICAL CONSORTIUM (BACC)
BID NO. 03-2023**

The Bay Area Chemical Consortium (BACC), a cooperative group of public agencies, is seeking competitive sealed bids for the supply and delivery of AQUEOUS AMMONIA. All sealed bids to be considered for this solicitation must be received via our electronic bid platform <https://bacwa.org/bacc/> by **4:00 P.M. PT, Thursday, February 23, 2023**. Bids received after said date and time will not be considered under any circumstances. Bids submitted by mail or by facsimile will not be accepted. BACC and its member agencies reserves the right to reject any and all bids and to waive informalities and immaterial irregularities or technical defects in the bids received.

For additional information or any questions concerning this bid, use the public Q&A Forum in our electronic bid system.

SECTION I

BAY AREA CHEMICAL CONSORTIUM

GENERAL

FOR BID NO. 03-2023

AQUEOUS AMMONIA

**BAY AREA CHEMICAL CONSORTIUM
REQUEST FOR BIDS
FOR SUPPLY AND DELIVERY OF AQUEOUS AMMONIA
BID NO. 03-2023**

Sealed bids will only be received electronically via our electronic bid platform <https://bacwa.org/bacc/> no later than **4:00 P.M. PT, Thursday February 23, 2023.**

1. GENERAL PROVISIONS

The Bay Area Chemical Consortium (BACC) is a cooperative group of public agencies each individually established under the laws of the State of California. For this particular bid solicitation, the participating member agencies include those listed in Section III-1, Estimated Annual Quantities. These participating BACC agencies, acting collectively through their authorized agents, are seeking competitive sealed bids for the supply and delivery of Aqueous Ammonia.

Sealed bids will only be received electronically via our electronic bid platform <https://bacwa.org/bacc/> no later than 4:00 P.M. PT, Thursday February 23, 2023. Bids received after said date and time will not be considered under any circumstances.

BACC and its member agencies reserves the right to reject any and all bids and to waive informalities and immaterial irregularities or technical defects in the bids received.

If you have any questions regarding this bid, please contact the BACC Coordinators via the electronic bid platform <https://bacwa.org/bacc/> Q&A forum. Preliminary bid results will be available via our electronic bid platform shortly after the opening date and time.

2. INSTRUCTIONS TO BIDDERS

To receive consideration, bids must be made in accordance with the following instructions:

2.1 Bid Contract Documents

Bids must be submitted only using the forms provided in Section IV, Bid Contract Documents that includes the following: **Bid Form**, **Standard Agreement**, and **Non-Collusion Affidavit**, collectively, the bid contract documents. Bidder must submit bids price per unit of measure as specified via the electronic bid platform <https://bacwa.org/bacc/>. Do not submit the Worksheet. Bid prices submitted on Worksheet will NOT be accepted. All items in the bid contract documents must be filled out completely, signed and dated. The bid contract documents may be rejected if they show any omissions, alterations of form, the addition of

information not requested, a conditional bid, or irregularities of any kind. A complete bid submittal must include all of the following components of the bid contract documents:

- A completed and signed **Bid Form**, including all the attachments requested;
- A fully executed **Standard Agreement**, including references and acknowledgement of receiving any and all addenda, with any deviations duly noted;
- A fully executed **Non-collusion Affidavit**.
- The information required by Section 2.21 as referenced in the Bid Form.
- Name and address of any Third Party Hauler as required by Section 2.5 and the Bid Form, as well as the affidavit referenced in the Bid Form.

Bidder must submit bids price per unit of measure as specified via the electronic bid platform <https://bacwa.org/bacc/> (Line Items section).

2.2 Estimated Quantity

The quantities indicated are estimates of anticipated usage for a 12-month period and are given for informational purposes only. Nothing in these estimated annual quantities must be construed as obligating any participating BACC agency to purchase specific quantities, as these quantities may vary depending on actual operating conditions and demands during the contract term. All participating BACC agencies reserve the right to purchase any volume of the chemical listed, at the contract price, regardless of stated estimates of quantities. No price adjustments will be allowed as a result of an increase or a decrease in the quantity purchased. For this particular bid solicitation, the estimated annual chemical quantity of each participating member agencies is listed in Section III-1, Estimated Annual Quantities.

2.3 Delivery Locations

The participating BACC agencies are grouped according to their location by relative geographic region. The bidder must quote uniform bid prices for deliveries made to each of the distinct geographic regions. For this particular bid solicitation, the distinct geographic regions for each agency are defined in Section III-1, Estimated Annual Quantities, as well as in Section III-2, Delivery Details.

2.4 Bid Pricing

All bids submitted must include a base unit price, FOB destination, for the chemical for each geographic region per paragraph 2.3 Delivery Locations. Bidders shall provide bid prices via the electronic bid platform <https://bacwa.org/bacc/> including all costs associated with providing and delivering the chemical to the agency's facility, including materials, labor, equipment, transportation, insurance, overhead, profit, and all applicable taxes except sales tax in effect at the time of delivery. Bids qualified by additional or conditional charges such CPI, escalators, fuel surcharges, or transportation charges between the supplier and the final delivery points will not be allowed.

BACC agencies that use a chemical for treating water for resale may be exempt from paying sales tax, and it will be the responsibility of each BACC agency to notify the successful bidder if some or all of their purchases will be exempt from sales tax per paragraph 3.6 Taxes.

Bid prices must be based on bulk deliveries amount as specified via the electronic bid platform <https://bacwa.org/bacc/>. Bids that do not include unit prices for bulk deliveries to each geographic region specified on the electronic bid platform will be considered irregular and, at the option of BACC and the participating BACC agencies, may be eliminated from further consideration. For bulk deliveries of less than this specified amount, the bidder may, at their option, assess additional charges for “short loads” unless specific requirements for smaller deliveries are described in paragraph 3.7 Delivery Requirements. Any additional “short load” charges must be shown by the bidder as a specific deviation on the bid contract documents. Bidders and/or third party haulers will not be allowed to refuse to make “short load” deliveries.

Any optional item will be shown as a separate line item in the electronic bid platform <https://bacwa.org/bacc/> and bidders may, at their option, submit unit prices for the optional item. Bids that do not include unit prices for optional item will not be considered irregular and therefore such bids will not be rejected for that reason.

If participating BACC agencies require non-bulk deliveries in containers such as buckets, barrels, or totes, it will be shown as a separate line item in the electronic bid platform <https://bacwa.org/bacc/>. Bidders may, at their option, submit unit prices for deliveries in buckets, barrels, or totes. Bids that do not include unit prices for buckets, barrels, or totes will not be considered irregular and therefore such bids will not be rejected for that reason. If none of the participating BACC agencies require non-bulk deliveries in containers such as buckets, barrels, or totes, the electronic bid platform <https://bacwa.org/bacc/> will not include spaces to enter bid prices for such non-bulk deliveries in containers such as buckets, barrels, or totes, however, if a participating BACC agency later decides that they need deliveries in containers, bidders may, at their option, negotiate with the BACC agency to determine a price for deliveries in containers such as buckets, barrels, or totes.

2.5 Bidder Qualifications

A qualified bidder is one determined by BACC and the participating BACC agencies to meet standards of business competence, reputation, financial ability, and product quality. A responsive bidder is a firm/person who has submitted a bid that conforms in all material respects to the terms and conditions, the specifications of the chemical, and any other requirement of the bid instructions. A responsible bidder is a firm/person who has the capability in all aspects to perform full contract requirements, and who has the integrity and reliability that will assure good faith and specific performance. Bidders that intend to utilize a third-party hauling company for completing some or all of their deliveries must indicate the name and contact information of the third-party hauling company on the Bid Form. Before submitting a bid, the bidder must carefully examine and read all parts of the bid contract documents and be fully informed as to all existing conditions and limitations. It should be noted that, upon selection and approval of the successful bidder, the entire contents of the bid contract documents will become part of the full contract between the participating BACC agency and successful bidder (see paragraph 3.5 Purchase Orders / Contracts).

2.6 Authorized Signatory of Bid Contract Documents

The person signing the submitted bid must be fully authorized to represent and legally bind the bidding company to the terms and conditions described herein. A corporate officer must sign bids by corporations in the corporate name. The State of incorporation must be written in below the corporate name. Bids by partnerships must be signed in the partnership's name and signed by a partner with his/her title shown.

2.7 References

The bidder must submit with the bid a list of a minimum of three references that have purchased similar chemicals and services from the bidder. The bidder must provide the company or agency name, contact name, and telephone number for each reference. Whenever possible, bidders should provide references for customers from the same geographic regions as the participating BACC agencies. Bidders may provide references from BACC agencies. These references must be shown on the Standard Agreement contained herein.

2.8 Bid Submittal

Electronic bids will only be received via the electronic bid platform <https://bacwa.org/bacc/> **by no later than 4:00 P.M. PT, Thursday, February 23, 2023**. Electronic bids shall contain all required attachments and information. Bidders must submit bids price per unit of measure as specified via the electronic bid platform <https://bacwa.org/bacc/> (Line Item section). Bidders are cautioned that failure to comply may result in non-acceptance of the bid. Bids received after said date and time will not be considered under any circumstances. BACC will not be responsible for any delays or transmission errors. Bidder accepts all risks of late delivery of electronic bids. It is the bidder's responsibility to ensure that bid submitted is received by the electronic bid platform <https://bacwa.org/bacc/> prior to scheduled bid opening. Any attachment will remain sealed and will not be opened until the appointed bid opening date and time. Bidders not receiving confirmation receipt should contact the electronic bid platform vendor <https://bacwa.org/bacc/> to make sure that their electronic submittal has gone through.

2.9 Modification, Addenda, and Interpretations

Any explanation desired by the bidders regarding the meaning or interpretation of this particular bid solicitation including the bid contract documents must be requested via the electronic bid platform Q&A Forum at least five (5) business days prior to the time set for the bid opening. Any and all such interpretations or modifications must be in the form of a written request to the BACC Coordinator via the electronic bid platform Q&A Forum. All changes to this particular bid solicitation document including the bid contract documents initiated by the BACC Coordinator will be through written addenda and furnished to all bidders via the electronic bid platform. Addendum will be issued no later than 72 hours before bid opening. Any written addendum issued 72 hours before the date and time of the bid opening will become a part of the bid contract documents and must be acknowledged on the Standard Agreement form that each bidder submits. Failure to acknowledge any and all the addendum(s) on the Standard Agreement form may be cause for rejection of the bid.

2.10 Modification of Bids

A bidder may modify their bid via the electronic bid platform prior to the date and time of the bid opening. Modifications of any bid prices, terms and conditions must be electronically submitted via the electronic bid platform prior to the time of the bid opening. It shall be the responsibility of the respective bidder to determine if their written modification was received in time by electronic bid platform. BACC reserves the right to accept or reject any proposed modifications of the bid terms and conditions.

2.11 Withdrawal of Bids

Any bid may be withdrawn any time prior to the stated bid opening date and time (closing time) only via the electronic bid platform. The withdrawal request must be executed by the bidder or a duly authorized representative. The withdrawal of the bid does not prejudice the right of the bidder to file a new bid prior to the bid closing time. No bids may be withdrawn after the bid opening date and time.

2.12 Proposed Deviations from the Specifications by the Bidder

Any deviation from the specifications described herein or in a written addendum that is proposed by a bidder must be noted in detail on the Standard Agreement form, and a copy of the proposed specification must be attached to the Standard Agreement form at the time of submission. The absence of a proposed change in the specifications will hold the bidder strictly accountable to the specifications as described herein. If proposed deviations from the specifications are submitted, the bidder's name should be clearly shown on each document. Each BACC agency will be responsible for individually accepting or rejecting any proposed deviations from the described specifications.

2.13 Competency of Bidders

Before any contract is awarded, the bidder may be required to furnish a complete statement of financial ability and experience in performing the proposed services. In accordance with the provisions of the California Business and Professions Code and other regulations, the bidder must have and maintain current any and all necessary licenses or certificates.

2.14 Rejection of Bids

The BACC and/or its individual agencies reserves the right to reject any and all bids and reserves the right to waive a bid deficiency or reject a bid for any reason, including but not limited to the following: informalities, nonconforming, non-responsive or conditional bids, bids showing any alterations of form or erasures or irregularities of any kind, additional information not requested, incomplete bids, or bids not conforming with the instructions in any way. Bidders that plan to utilize a third-party hauling company that refused to deliver to one or more of the participating agencies in the past three (3) years will be rejected as non-responsive.

2.15 Opening Bids

A preliminary bid results showing apparent lowest bid will be available on the electronic bid platform shortly after the bid opening date / time.

2.16 Method of Award

Bids may be awarded to the lowest responsive and responsible bidder for each listed region meeting the specifications for bulk loads for the chemical. The lowest responsive bidder for this chemical will be determined for each region listed on the Bid Form. The bidder that meets the specifications and submits the lowest overall bid price for a particular region may be awarded the bid by the participating agencies in that region, assuming the bid is determined by BACC to be complete and in compliance with the bid requirements. The lowest overall bid price for each region will be determined by multiplying the estimated annual quantity for each participating agency within the particular region by the bid prices for the region, and adding up the aggregate cost. BACC has the right to delete terms or options from the bid contract documents, and reserves the right to reject any and all bids and to waive irregularities in said bids. The following is a non-inclusive list of criteria that must be used in award of the bid:

- a. Unit cost of the chemical
- b. Product specifications
- c. Warranties or standards of quality
- d. Capabilities to deliver product throughout the contract term
- e. Bidder's reputation, competency, and previous customer service record
- f. Third party hauling company's reputation, competency, and previous customer service record (if applicable)
- g. Fully executed non-collusion affidavit

2.17 Disqualification of Duplicate or Collusive Bidders

More than one bid proposal from an individual, a firm or partnership, a corporation or an association under the same or different names will not be considered. Reasonable grounds for believing that any bidder is interested in more than one bid for the bid contemplated will cause rejection of all bids in which such bidder is interested. If there is reason for believing that collusion exists among the bidders, any and all bids may be rejected. Bidders must execute and submit with their bid the Non-Collusion Affidavit included in the bid document.

2.18 Identical Bids

In the case of tied or identical bids corresponding to the proposed unit costs, BACC reserves the right to award the bid based on additional criteria. If a tied bid is not rejected for any reason as described in paragraph 2.16 Method of Award, then any additional costs described in the "Specific Deviations" such as short load adders, will be used to determine the lowest responsive bidder. If considering additional costs as described in the "Specific Deviations" still doesn't produce a winning bidder (i.e. if the tied bidders quote identical short load adder prices), then any exceptions or conditions described in the "Specific Deviations" will be considered in an effort to determine the lowest responsive bidder. If the latter still fails to produce a winning bidder, then BACC will draw lots by placing the names of the tied bidders in a hat and drawing a name. If drawing lots is deemed necessary, BACC will schedule a time to draw lots and the tied bidders will be invited to attend and witness the drawing.

2.19 Material Warranty

Before the bid is awarded and, if applicable, the bidder may be required to furnish a complete statement of the origin, composition and manufacture of any or all chemicals to be supplied, together with samples. The samples may be subjected to tests to determine their quality and fitness for the intended uses.

2.20 Bid Summary

Bid proposals will be summarized and reviewed with the BACC agencies following the bid opening. Bid summaries or tabulations will also be provided to the responsive bidders within ten (10) business days following the bid opening. After a careful review of the bids by each of the participating BACC agencies, bids may be awarded based on the criteria outlined in paragraph 2.16 Method of Award.

2.21 Manufacturer's Information

Bidders must submit with their bid contract documents the following:

- a. In accordance with Section 64590, Title 22 of the California Code of Regulations (CCR), no chemical or product shall be added to drinking water by a water supplier unless the chemical or product is certified as meeting the specifications of NSF International/American National Standard Institute (NSF/ANSI) 60-2005 (Drinking Water Treatment Chemicals—Health Effects). Certification shall be from an ANSI accredited product certification organization whose certification system includes the criteria for ensuring the chemical or product meets NSF/ANSI Standard 60 per Section 64590 of the CCR. Bidders must submit an affidavit of compliance from the ANSI accredited product certification organization. Bidders must include a statement by the chemical manufacturer, signed by an authorized representative on letterhead stationery, attesting to the affidavit's validity. In lieu of submitting an affidavit of compliance and a letter attesting to the affidavit's validity, a current printout from the ANSI accredited product certification organization is acceptable.
- b. A representative analysis of the chemical to be supplied, as prepared by a reputable outside laboratory or bidder's in-house laboratory if ISO certified.
- c. Name and address of the chemical manufacturer.
- d. Product Bulletin and Typical Properties.
- e. Safety Data Sheet (SDS).

3. SPECIAL INSTRUCTIONS TO BIDDERS

3.1 Chemical Requirements

The chemical to be provided under the terms and conditions of this bid must meet the bid specifications described in the pages that follow.

3.2 Safety Requirements

The bidder, their employees, subcontractors, and/or agents must conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety, and they must adhere to all State, Federal and Occupational Safety and Health Act (OSHA) safety standards, including compliance with any applicable State or local health order related to COVID-19 while they are on the premises of any BACC

agency. Furnished equipment, materials, and/or services must comply with all OSHA standards and regulations, and all applicable governmental laws and orders. The BACC agencies reserve the right to individually refuse any shipment, at their sole discretion, which cannot be unloaded using safe and proper techniques. Any such refusal must result in the return of the chemical at the successful bidder's sole expense. If requested by a participating BACC agency, the successful bidder and/or the firm providing transportation of the chemical shall submit to a safety briefing at the BACC agency's site before commencing deliveries to the respective BACC agency. The successful bidder and/or the firm providing transportation of the chemical are required to comply with the site specific safety requirements of each participating BACC agency. Bidders should be aware that some BACC agencies do not allow smoking on site. Site safety requirements will be available for review during the bid period upon request to the BACC Coordinator. In addition, if requested by a participating BACC agency, the successful bidder and/or the firm providing transportation of the chemical may be asked to review site safety materials and provide a signed acknowledgement of their receipt of the site safety materials.

3.3 Spillage

The successful bidder must be prepared to provide safety training on the safe handling and use of the chemical and emergency procedures in the event of a leak or spill. Should a chemical spill or leak result due to negligence, faulty equipment, or inferior packaging on the part of the bidder or their agents, the bidder and their agents must be responsible for cleaning the spill or leakage and for bearing any cost incurred due to spill or leakage clean-up. It must be the successful bidder's responsibility to effect immediate containment, clean-up, disposal, and restoration activities in accordance with the individual facility's requirements and any and all applicable laws and regulations. All material associated with such clean-up operations must be hauled away and lawfully disposed of at no charge to the agency where the delivery is being made. The property of the agency where the delivery is being made must not be used for such disposal. If the spill is NOT cleaned up, the agency will hire a certified hazardous material handling company to clean up the spill, and the costs incurred, including any fines or penalties which may be imposed by regulating authorities, will be charged to the bidder or deducted from amounts owed. Chemicals must stay in the possession of the bidder and must not be unloaded until accepted by the participating BACC agency. All chemicals must be delivered in accordance with Department of Transportation regulations.

3.4 Chemical Orders

All orders placed throughout the contract period, as defined in paragraph 4.11 Term of Contract, will be initiated separately by each participating BACC agency, and each BACC agency will be responsible for the coordination of all aspects of those orders with the successful bidder. Inquiries in reference to individual orders during the contract period must be directed to the appropriate BACC agency.

3.5 Purchase Orders / Contracts

Individual purchase orders, purchase agreements, and / or contracts will be issued to the successful bidder by each participating BACC agency, and all chemical sales must be invoiced separately to the respective BACC agency. Each BACC agency may require additional contract requirements specific to the agency which are not included in this bid document and bidders need to contact the agencies for specific details

and perform due diligence prior to submitting a bid. The contracted unit cost of the chemical is the awarded bid price. The successful bidder may seek a price increase for any nontrivial change requested by the participating BACC agency in the terms and conditions of the participating BACC agency's purchase order, purchase agreements, and / or contracts. The successful bidder may not change the price throughout the term of the contract unless by mutual written agreement between BACC agency and successful bidder per Section 4.4 Modification of Contract.

3.6 Taxes

Pursuant to the Sales and Use Tax Law, water treatment facilities are entitled to submit *Resale Certificates* to the California State Board of Equalization which exempt that utility from paying sales tax on any chemical purchased for the expressed use of producing a consumable water product. The participating BACC agencies that provide potable and/or recycled water to customers will be responsible for providing the successful bidder with these certificates or letter documenting their determination if the chemical they seek to purchase is exempt from sales tax. BACC agencies that do not notify the successful bidder that their agency is exempt from paying sales tax shall be invoiced with sales tax shown as a separate, itemized cost on the invoice. Chemicals purchased solely for the use in wastewater treatment and disposal facilities are subject to sales tax.

3.7 Delivery Requirements

Bidders are responsible for reviewing each of the listed delivery locations or geographic regions for each participating BACC agency and ensuring that their product can be delivered to each location prior to submitting a bid. Bidders that intend to utilize the services of a third party hauling company for some or all of their deliveries are responsible for ensuring that the hauler they have selected can and will deliver their product to each location listed in Section III-2, Delivery Details, and for submitting an affidavit pertaining to assurance with their bid. Failure to provide this assurance and submit an affidavit may be cause for rejecting their bid. Delivery bills of lading must be provided for each shipment. All bulk shipments must include a weight ticket from a certified weigh station in addition to a shipping manifest. Delivery times and dates must be coordinated between the successful bidder and each participating BACC agency on a schedule that meets the needs of the BACC agency, but at no time can a delivery occur more than seven (7) days after the order is placed unless the respective BACC agency requests a later delivery. No delivery can be made when a BACC agency representative is not on site. The successful bidder must notify the BACC agency of any anticipated late deliveries at least 24 hours in advance of the scheduled delivery time and date, unless delivery delays are the result of in-route transportation delays, then notification must be provided as soon as possible to inform the BACC agency of the anticipated delivery date and time. Persistently late or cancelled deliveries (defined as three or more over the contract period) may be used as a basis for contract termination. Failure to provide notice of late delivery as required by this section may also be a basis for contract termination. Any deliveries not meeting chemical quality, regulatory, safety, or delivery requirements will be returned to the successful bidder at no cost to the BACC agency, and must be re-delivered by the bidder within 48 hours of the unacceptable delivery.

3.8 Force Majeure

Any bidder that anticipates a workforce interruption, including due to COVID-19 restrictions, or a production shutdown that could affect delivery of the chemical must fax or e-mail notifications to all participating BACC agencies to notify them of the potential interruption in deliveries. A telephone call must also be made to each BACC agency as a follow-up notification.

3.9 Safety Data Sheet (SDS)

Bidders must submit a Safety Data Sheet (SDS) for the product offered with the bid. The successful bidder must provide a new SDS for the chemical with the first delivery or if the SDS is modified during the contract term.

3.10 Payments

Payments for all chemicals will be made individually by each participating BACC agency thirty (30) days after receipt of a complete and accurate invoice. BACC itself does not have any legal authority to conduct business and therefore cannot be held responsible for the financial arrangements made between each individual BACC agency and the successful bidder. Cash discounts for early remittance of payment must be stated on the invoice, if applicable. The bidder is responsible for submitting accurate invoices to each BACC agency. The BACC agencies are not responsible for late payments resulting from the submission of inaccurate invoices. If bidder continues to submit inaccurate invoices after being put on notice by the BACC agency, the contract between the bidder and the BACC agency may be terminated.

3.11 Legislative Impacts

In the event the legislative body of any BACC agency fails to appropriate funds for the purchase of the chemical, the respective BACC agency may terminate such contract without penalty and thereupon be released of further obligation.

3.12 Subcontracting

No portion of the bid award may be subcontracted to another chemical manufacturer or supplier without the prior written approval of all of the participating BACC agencies.

3.13 Laws and Regulations

All applicable State of California and Federal laws, City, County, and Special District ordinances, licenses, and regulations of all participating BACC agencies having jurisdiction must apply during the contract period, including any applicable State or local health order related to COVID-19.

3.14 Insurance

For services requiring the supplier's or their subcontractor's presence on any BACC agency property, the successful bidder must acquire and maintain at their expense for the duration of the term of the contract the following insurance policies: Workers' Compensation, Employer's Liability, Commercial General Liability, Business Vehicle and Automobile Liability, and Contractor's Pollution Liability Insurance coverage from insurers either (i) admitted by the California Insurance Commissioner to do business in the State of California and rated no less than A.M. Best's rating of no less than A:VII, or (ii) authorized by the BACC

agency's risk manager(s) or his/her designee at any time in his/her sole discretion, all relating to the supplier's services to be performed hereunder covering the BACC agency's risks. The minimum amounts of coverage, and the breadth of coverage, corresponding to the aforesaid categories of insurance per insurable event, must be as follows, however, the insurance limits available to each participating BACC agency, their officers, officials, employees, agents and volunteers as additional insured parties, shall be the greater of the minimum limits specified herein or the full limit of any insurance proceeds available to the named insured:

INSURANCE CATEGORY	MINIMUM LIMITS
Workers' Compensation Insurance	California Statutory Minimum
Employer's Liability Insurance	\$2,000,000 per accident, and \$1,000,000 per employee for bodily injury or disease.
Commercial General Liability Insurance	\$5,000,000 per occurrence for bodily injury, personal injury, and property damage.
Business Vehicle and Automobile Liability Insurance	\$2,000,000 per accident for bodily injury and property damage.
Contractor's Pollution Liability	\$1,000,000 per occurrence, \$2,000,000 policy aggregate.

Prior to commencement of any performance under the contract, the successful bidder must furnish to each participating BACC agency an original Certificate of Insurance, and copies of information or declaration pages for the insurance required with respect to evidence of all policies of insurance required as noted above. All policies of insurance must be endorsed to name the respective BACC agency, their officials, officers, employees, agents, and volunteers as additional insured parties. For any claims related to the contract, bidder's insurance coverage shall be primary insurance with respect to each participating BACC agency, their officials, officers, employees, agents and volunteers. Any insurance or self-insurance maintained by any BACC agency party, their officials, officers, employees, agents and volunteers shall be excess of the bidder's insurance and shall not contribute with it. The successful bidder will be responsible for contacting each participating BACC agency to ascertain the proper name or names of the agency specific entities to be included in the endorsements.

The successful bidder must also provide each participating BACC agency with a MSC-90 endorsement, required for transporters of hazardous materials and/or wastes.

The successful bidder hereby agrees to waive subrogation which any insurer of the bidder may acquire from vendor by virtue of the payment of any loss. Bidder agrees to obtain and provide to each BACC agency any endorsement that may be necessary to affect this waiver of subrogation. The Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of each participating BACC agency for all work performed by the bidder, its employees, agents and subcontractors.

The successful bidder must maintain the required insurance at all times while the contract is in effect, and must replace any certificate, policy or endorsement which will expire prior to that date. All policies of

insurance must be endorsed to provide the required insurance and must not be suspended, voided, reduced, canceled, or allowed to expire except on thirty (30) days prior written notice to each participating BACC agency. The Certificate of Insurance must have a cancellation statement worded as follows: *“Should any of the above described policies be cancelled before the expiration date thereof, the issuing company must mail thirty calendar (30) written notice to the Certificate holder named to the left.”*

4. TERMS AND CONDITIONS

4.1 Indemnification

To the fullest extent allowed by law, the successful bidder and its employees, subcontractors, and agents shall defend, indemnify, and save and hold harmless each participating BACC agency, its officers, agents, employees and volunteers from any claims, suits or actions of every name, kind and description brought forth, or on account of, injuries to or death of any person (including but not limited to workers and the public), or damage to property, resulting from or arising out of the successful bidder's or its personnel, employees, agents, or subcontractors' willful misconduct or negligent act or omission while engaged in the performance of services described in this bid document, except those matters arising from the participating BACC agency's sole negligence or willful misconduct. The parties intend that this provision shall be broadly construed.

This indemnification includes, without limitation, the payment of all penalties, fines, forfeitures, judgments, awards, decrees, attorney's fees, and related costs or expenses, and the reimbursement of any BACC agency, its officials, officers, employees, agents, and volunteers for all legal expenses and costs incurred by each of them.

The successful bidder's responsibility for such defense and indemnity obligations shall survive the termination or completion of the contract for the full period of time allowed by law. The defense and indemnity obligations of the contract are undertaken in addition to, and shall not in any way be limited by, the insurance obligations contained in the contract.

If the successful bidder should subcontract all or any portion of the work to be performed under the contract, the successful bidder shall require each subcontractor to indemnify, hold harmless and defend each participating BACC agency and each of its officials, officers, employees, agents and volunteers in accordance with the terms of the preceding paragraphs.

4.2 Bid Protests

Any bid protest must be submitted electronically via email to the BACC Coordinator before 3:30 p.m. on the fifth (5th) business day following bid opening (jdyment@bacwa.org).

- a. The protest document must be provided as one PDF and must contain a complete statement of the basis for the protest and all supporting documentation and evidence.
- b. The party filing the protest must have actually submitted a bid for the chemical. A subcontractor of a party submitting a bid for the chemical may not submit a bid protest. A party may not rely on the bid protest submitted by another bidder, but must timely pursue its own protest.

- c. The protest must refer to the specific portion of the bid document which forms the basis for the protest.
- d. The protest must include the name, address and telephone number of the person representing the protesting party.
- e. The party filing the protest must concurrently transmit a copy of the protest document and any attached documentation to all other parties with a direct financial interest which may be adversely affected by the outcome of the protest. Such parties shall include all other bidders who appear to have a reasonable prospect of receiving an award depending upon the outcome of the protest.
- f. BACC will give the bidder that is the subject of the protest five (5) business days after the receipt of the protest to submit a written response. The responding bidder shall submit the response to the protesting bidder concurrent with delivery to BACC.
- g. The procedure and time limits set forth in this paragraph are mandatory and are the bidder's sole and exclusive remedy in the event of bid protest. All protests and responses received after the time set forth herein will be rejected. The bidder's failure to comply with these procedures shall constitute a waiver of any right to further pursue the bid protest.
- h. BACC will not be responsible for any delays or transmission errors. The protesting bidder accepts all risk of late delivery of electronic protests. It is the protesting bidder's responsibility to ensure that a submittal protest is received by the bid coordinator listed in this solicitation by the due date and time. Protesting bidders should contact the bid coordinator to make sure that their electronic submittal has gone through.
- i. If BACC determines that a protest is frivolous, the protesting bidder may be determined to be non-responsible and that bidder may be determined to be ineligible for future contract awards.

4.3 Equal Opportunity

The successful bidder must agree not to refuse the hire, discharge, promote, or to otherwise discriminate in the matters of compensation against any person otherwise qualified solely because of race, creed, sex, national origin, ancestry, or physical handicap. It must be a condition that any company firm or corporation supplying goods or services, must be in compliance with the Americans with Disabilities (ADA) Act of 1990. A certificate stating compliance with the ADA may be required, upon request, by any BACC agency.

4.4 Modification of Contract

This bid solicitation document including the bid contract documents, in conjunction with each BACC agency's purchase order, purchase agreement and / or contract, will constitute the entire contract between each BACC agency and the successful bidder. The contract may not be modified, altered, or amended except by the mutual written agreement of the respective BACC agency and the successful bidder.

4.5 Common Language

Unless otherwise specified in this document, all words must be given their plain, common and ordinary meaning unless the context in which they are used clearly requires a different meaning. Words in the singular number include the plural, and in the plural include the singular. Additionally, words in the masculine gender include the feminine and the neuter, and when the sense so indicates, words of the neuter gender may refer to any gender.

4.6 Proprietary Information

All information included in any bid proposal that is of a propriety nature must be **clearly** marked as such. Each BACC agency must be held harmless from any claims arising from the release of proprietary information not clearly designated as such by the Bidder.

4.7 Patent Guarantee

The bidder must, with respect to any bidder's standard products, indemnify, defend and hold harmless each participating BACC agency, its employees and agents, from any and all costs and damages because of claims or litigation on account of infringement or alleged infringement of any letters patent or patent rights by reason of the sale or normal use of such products, provided that the bidder is promptly notified of all such actual or potential infringement suits, and is given an opportunity to participate in the defense of the participating BACC agencies.

4.8 Quality Control

The bidder's chemical may be inspected and/or sampled before, during, or after any delivery and tested to confirm compliance with all of the specifications. Persistent clogging, deliveries containing significant amounts of debris, and/or chemical not meeting the technical specifications will be considered to be deficiencies. If deficiencies are detected, the chemical will be rejected and the bidder will be required to remove and replace any and all of the chemical and clean the associated tanks and piping that are contaminated by a delivery that is determined to be deficient, at no cost to the participating BACC agency. If the bidder fails to remove and replace the deficient chemical in a timely manner after being notified of the problem by the participating agency, the participating agency may remove and dispose of the contaminated chemical and clean the chemical storage tank or tanks and the associated piping all at the bidder's expense. Payment for the delivered chemical will not be made until the defects are corrected and the chemical is properly replaced and accepted. Repeat failures to comply with the specifications must constitute grounds for termination of the contract.

4.9 Term of Contract

The term of the contract between the respective BACC agency and the successful bidder will be twelve (12) months commencing July 1, 2023, and expiring June 30, 2024, with an option to extend the contract on a year-to-year basis, not to exceed three (3) yearly renewals if conditions and service are satisfactory to both the respective BACC agency and the successful bidder. The price for any succeeding periods of service shall be determined by negotiation between the respective BACC agency and the successful bidder.

4.10 Good Faith Bidding and Contracting

The participating BACC agencies listed on this bid solicitation are bidding in good faith and have agreed not to extend an existing bid in lieu of contracting with the lowest responsive bidder. However, nothing in this bid solicitation shall prevent a BACC agency from rejecting all bids and separately procuring the services they require, if deemed in the best interest of their respective agency.

4.11 Termination of Contract

Any BACC agency may terminate their contract with the successful bidder for any reason by providing the successful bidder written notice of termination, and specifying the effective date thereof, at least thirty (30) days before the effective date. Termination of the contract by one BACC agency does not affect the contractual relationship between the successful bidder and any other BACC agency.

4.12 Termination for Cause

In the event of a breach of any term or provision of the contract by the successful bidder, a BACC agency may terminate the contract with respect to supply of chemicals for that agency by providing the successful bidder with written notice of such termination, and specifying the effective date thereof, at least ten (10) days before the effective date. Termination of the contract by one BACC agency does not affect the contractual relationship between the successful bidder and any other BACC agency.

4.13 Effect of Termination

Any termination by a BACC agency, with or without cause, must not affect the validity of the contract between the successful bidder and any other BACC agency, nor must such action affect any rights, remedies, or obligations of the successful bidder or any other BACC agency.

4.14 Assignment

The successful bidder must under no circumstances assign the contract without the prior written consent of each participating BACC agency. Any assignment, or attempt at assignment, made without such consent of each participating BACC agency may be considered a breach of contract.

4.15 Competitiveness and Integrity

The participating BACC agencies have assigned control of the acquisition process to the BACC coordinating agency identified in the *Notice Inviting Sealed Bids* of this document, to prevent biased evaluations and to preserve the competitiveness and integrity of such acquisition efforts. Bidders are to direct all communications regarding this bid to the designated BACC Coordinator, unless otherwise specifically noted, or unless approved in writing by the BACC Coordinator. Attempts by bidders to circumvent this requirement will be viewed negatively and may result in rejection of the offending bidder's offer. The BACC Coordinator may refer communications to other participating BACC agencies for clarification.

-END OF SECTION-

SECTION II

**BAY AREA CHEMICAL CONSORTIUM
PRODUCT TECHNICAL SPECIFICATIONS
FOR BID NO. 03-2023
AQUEOUS AMMONIA**

**PRODUCT TECHNICAL SPECIFICATIONS
AQUEOUS AMMONIA – 19% SOLUTION**

Product:

- a. Aqua Ammonia shall conform to the current version of the American Water Works Association's Standard for Aqua Ammonia, B306-15, except as modified or supplemented herein.
- b. Aqua Ammonia supplied shall be tested and certified as meeting the specifications of the American National Standards Institute/National Sanitation Foundation Standard 60 (ANSI/NSF Standard 60) Drinking Water Treatment Chemicals - Health Effects. The NSF certification for the products bid must be current on the date of bid submittal.
- c. It is the responsibility of the vendor to inform each of the participating BACC Agencies (within 24 hours, from the time of verbal or written notification) that NSF certification has been revoked or lapsed. Loss of NSF certification shall constitute sufficient grounds for immediate termination of the contract.

Quality:

- a. Aqua ammonia shall be colorless, transparent, food grade (Premium Grade) aqueous solution of ammonia that is free from suspended matter or sediment.
- b. Aqua ammonia shall contain no substances that produce deleterious or injurious effects upon the health of those consuming water, which has been properly treated with the chemical.
- c. Aqua ammonia shall conform to the following standards:
 - i. It will be of premium grade;
 - ii. Concentration of ammonia within the range of 18.5% to 19.5%;
 - iii. A specific gravity at 60° F. of 0.9302. The specific weight of solution at 60° F. shall be 7.758 lbs. /gal.
 - iv. Aqua ammonia shall be free from contaminating substances which could interfere with normal operation of District facilities by causing clogging or blockage of feed lines, valves, strainers, or measuring devices.

Certificate of Analysis:

- a. A certificate of analysis prepared by an ISO certified laboratory shall be submitted for each aqua ammonia delivery. The certificate of analysis shall be based on a representative sample of the specific batch or lot of chemical currently being used to make deliveries. This report shall contain the following:
 - Date of manufacture
 - Date of delivery
 - Shipper ID
 - Specific gravity at 60 degrees F
 - Percent (%) of ammonia
 - Appearance

No deliveries will be accepted unless accompanied by said certificate of analysis for the specific batch or lot of chemical delivered and the quality specifications listed in the bid contract documents are met.

- b. Charges for certificate of analysis prepared by an ISO certified laboratory shall be included in the bid price.
- c. Failure to supply the required certificate of analysis shall be sufficient cause to reject the load.

PRODUCT TECHNICAL SPECIFICATIONS
AQUEOUS AMMONIA – 30% SOLUTION

Product:

- a. Aqua Ammonia shall conform to the current version of the American Water Works Association's Standard for Aqua Ammonia, B306, except as modified or supplemented herein.
- b. Aqua Ammonia supplied shall be tested and certified as meeting the specifications of the American National Standards Institute/National Sanitation Foundation Standard 60 (ANSI/NSF Standard 60) Drinking Water Treatment Chemicals - Health Effects. The NSF certification for the products bid must be current on the date of bid submittal.
- c. It is the responsibility of the vendor to inform each of the participating BACC Agencies (within 24 hours, from the time of verbal or written notification) that NSF certification has been revoked or lapsed. Loss of NSF certification shall constitute sufficient grounds for immediate termination of the contract.

Quality:

- a. **Aqua ammonia shall be colorless, transparent, food grade (Premium Grade) aqueous solution of ammonia that is free from suspended matter or sediment.**
- b. Aqua ammonia shall contain no substances that produce deleterious or injurious effects upon the health of those consuming water, which has been properly treated with the chemical.
- c. Aqua ammonia shall conform to the following standards:
 - v. It will be of premium grade;
 - vi. Concentration of ammonia at 29% - 30%;
 - vii. A specific gravity at 60° F. of 0.893 – 0.897. The specific weight of solution at 60° F. shall be $7.47 \pm .04$ lbs. /gal.
 - viii. Aqua ammonia shall be free from contaminating substances which could interfere with normal operation of District facilities by causing clogging or blockage of feed lines, valves, strainers, or measuring devices.

Certificate of Analysis:

- a. A certificate of analysis prepared by an ISO certified laboratory shall be submitted for each aqua ammonia delivery. The certificate of analysis shall be based on a representative sample of the specific batch or lot of chemical currently being used to make deliveries. This report shall contain the following:
 - Date of manufacture
 - Date of delivery
 - Shipper ID
 - Specific gravity at 60 degrees F
 - Percent (%) of ammonia
 - Appearance

No deliveries will be accepted unless accompanied by said certificate of analysis for the specific batch or lot of chemical delivered and the quality specifications listed in the bid contract documents are met.

- b. Charges for certificate of analysis prepared by an ISO certified laboratory shall be included in the bid price.
- c. Failure to supply the required certificate of analysis shall be sufficient cause to reject the load.

SECTION III – 1

**BAY AREA CHEMICAL CONSORTIUM
ESTIMATED ANNUAL QUANTITIES
FOR BID NO. 03-2023
AQUEOUS AMMONIA**

BAY AREA CHEMICAL CONSORTIUM
ESTIMATED ANNUAL QUANTITIES FOR FISCAL YEAR 2023/2024
BID NO. 03-2023

	Unit of Measure	Estimated Annual Qty for Treatment Applications:	
		Water	Wastewater
Aqueous Ammonia 19% Solution	gal	527,271	160,000
<u>Central Valley</u>			
City of Stockton	gal	110,000	45,000
		110,000	45,000
<u>East Bay</u>			
Alameda County Water District	gal	56,000	0
		56,000	0
<u>North Bay</u>			
Contra Costa Water District	gal	38,571	0
		38,571	0
<u>South Bay</u>			
City of Santa Clara	gal	300,000	0
San Jose - Santa Clara Regional Wastewater Facility	gal	0	115,000
		300,000	115,000
<u>Tri Valley</u>			
Dublin San Ramon Services District	gal	1,700	0
Zone 7 Water Agency	gal	21,000	0
		22,700	0
Aqueous Ammonia 29% Solution	gal	0	40,000
<u>Sacramento</u>			
City of Roseville	gal	0	40,000
		0	40,000
Aqueous Ammonia 30% Solution	gal	20,000	
<u>Marin Sonoma</u>			
Marin Municipal Water District	gal	20,000	
		20,000	

SECTION III – 2

**BAY AREA CHEMICAL CONSORTIUM
DELIVERY DETAILS
FOR BID NO. 03-2023
AQUEOUS AMMONIA**

**BAY AREA CHEMICAL CONSORTIUM
DELIVERY DETAILS
BID NO. 03-2023
AQUEOUS AMMONIA**

The frequency of deliveries and typical delivery size are estimates of anticipated usage for a 12-month period and are given for informational purposes only and are not used in any calculations to determine the lowest overall bid (Section I, Paragraph 2.16 Method of Award).

<u>Per Region, Agency and Delivery Facility Name and Location</u>			<u>Frequency of Deliveries</u>	<u>Typical Delivery Size</u>
<u>CENTRAL VALLEY</u>				
City of Stockton				
Delta Water Supply Plant	11373 N. Lower Sacramento Road	Lodi	2-3x per month	> 2000 gal
NSPAF	4502 White Forge Drive	Stockton	3x per month	1300 gallons
Stockton Regional Wastewater Control Facility	2500 Navy Drive	Stockton	1-2x per month (minimum winter use)	3,000 gallons
Well #10R	2418 Arden Way	Stockton	3x per month	60 gallons
Well #27	1696 Bonaire Cir	Stockton	3x per month	60 gallons
Well #29	10442 Muir Woods Ave	Stockton	3x per month	60 gallons
Well #30	6373 Brook Hollow Circle	Stockton	3x per month	60 gallons
Well #31	3871 Ivano Lane	Stockton	3x per month	60 gallons
Well #32	9151 S. 99 Frontage Road	Stockton	3x per month	60 gallons
Well #3R	7400 N. West Lane	Stockton	3x per month	60 gallons
Well SSS8	4151 Logan Ln,	Stockton	5x per month	60 gallons
<u>EAST BAY</u>				
Alameda County Water District				
Alameda Reservoir	585 Shoshone Ct	Fremont	11x per year	45 gallons
Blending Facility	1111 Mowry Ave	Fremont	4x per year	2,000 gallons
Newark Desalination Facility	6833 Redeker Place	Newark	6x per year	1,500 gallons
Water Treatment Plant No. 2	42436 Mission Blvd.	Fremont	1-2x per month	2,000 gallons
<u>MARIN SONOMA NAPA</u>				
Marin Municipal Water District				
MMWD Bon Tempe	Filter Plant Road	Fairfax	6x per year	not less than 800 gallons
MMWD Ignacio Pump Station	13 Hamilton Drive	Novato	8x per year	not less than 500 gallons
MMWD San Geronimo	330 San Geronimo Valley Road	Woodacre	6x per year	not less than 1,100 gallons

**BAY AREA CHEMICAL CONSORTIUM
DELIVERY DETAILS
BID NO. 03-2023
AQUEOUS AMMONIA**

The frequency of deliveries and typical delivery size are estimates of anticipated usage for a 12-month period and are given for informational purposes only and are not used in any calculations to determine the lowest overall bid (Section I, Paragraph 2.16 Method of Award).

<u>Per Region, Agency and Delivery Facility Name and Location</u>	<u>Frequency of Deliveries</u>	<u>Typical Delivery Size</u>
<u>NORTH BAY</u>		
Contra Costa Water District		
Bollman Water Treatment Plant 2015 Bates Ave Concord	+/- 8 loads yearly	7,000 gallon Tank
City of Brentwood Water Treatment Plant 3760 Neroly Road Oakley	+/- 6 loads yearly	1,500 gallon Tank
Randall Bold Water Treatment Water Treatment Plant 3760 Neroly Road Oakley	+/- 12 loads yearly	6,000 gallon Tank
<u>SACRAMENTO</u>		
City of Roseville		
Roseville Energy Park 5120 Phillip Road Roseville 95747	Every 1.5 months	5,000 gallons
<u>SOUTH BAY</u>		
City of Santa Clara		
DVR Power Plant 850 Duane Ave Santa Clara, CA 95054	Every 7-10 days	4500-4600
San Jose - Santa Clara Regional Wastewater Facility		
San Jose Regional Wastewater Facility 700 Los Esteros Rd San Jose	2 per month/ 1 Every 18 days	6,000 gallons (full tanker)
<u>TRI VALLEY</u>		
Dublin San Ramon Services District		
FOD Reservoir 1A 8212 Rhoda Avenue Dublin	4x per year	mini bulk 100-150 gallons
FOD Reservoir 3B 7541 Brigadoon Way Dublin	4X per year	mini bulk 100-150 gallons
Zone 7 Water Agency		
Chain of Lakes 1 2655 El Charro Rd Pleasanton	Every 2 weeks	200 gallons
Hop 6 5997 Parkside Dr Pleasanton	Every 2 weeks	200 gallons
Mocho 4 5215 Stoneridge Dr Pleasanton	Every 2 weeks	200 gallons
Stoneridge 3750 Stoneridge Dr Pleasanton	Every 2 weeks	200 gallons

SECTION III – 3

**BAY AREA CHEMICAL CONSORTIUM
PARTICIPATING MEMBER AGENCY CONTACT LIST
FOR BID NO. 03-2023
AQUEOUS AMMONIA**

**BAY AREA CHEMICAL CONSORTIUM
PARTICIPATING MEMBER AGENCY CONTACT LIST
BID NO. 03-2023
AQUEOUS AMMONIA**

Central Valley

CITY OF STOCKTON

Municipal Utilities Department 2500 Navy Drive Stockton, CA 95206

Kathryn Garcia	Program Manager III - Wastewater	Kathryn.Garcia@stocktonca.gov	209-937-8232
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East Bay

ALAMEDA COUNTY WATER DISTRICT

43885 South Grimmer Blvd Fremont, CA 94538

Mike Wickham	Water Production Manager	mike.wickham@acwd.com	510-552-1459
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Cris Pena	Engineering Supervisor	Cris.Pena@acwd.com	510-668-6516
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Renee Gonzalez	Buyer	renee.gonzalez@acwd.com	510-668-4294
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Thomas Spankowski	Environmental Compliance Engineer	thomas.spankowski@acwd.com	510-668-6533
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Marin Sonoma Napa

MARIN MUNICIPAL WATER DISTRICT

220 Nellen Avenue Corte Madera, CA 94925

Jim Kenney	Superintendent of Operations, Water Treatment	jkenney@marinwater.org	415-945-1501
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Lucy Croy	Water Quality Manager	lcroy@marinwater.org	415-945 1590
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Danelle Graham	Senior Buyer	dgraham@marinwater.org	415-945-1402
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North Bay

CONTRA COSTA WATER DISTRICT

1331 Concord Ave Concord, CA 94520-4907

Nicole Quesada	Administrative Analyst	nquesada@ccwater.com	925-625-6602
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John Parsons	Water Operations Superintendent	jparsons@ccwater.com	925-625-6603
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Brian Jackson	Purchasing Officer	bjackson@ccwater.com	925-688-8011
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Sacramento

CITY OF ROSEVILLE

311 Vernon Street Roseville, CA 95678

Becky Philipp	Buyer II	bphilipp@roseville.ca.us	916-746-1110
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Shannon Wiest		swiest@roseville.ca.us	916-746-1112
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**BAY AREA CHEMICAL CONSORTIUM
PARTICIPATING MEMBER AGENCY CONTACT LIST
BID NO. 03-2023
AQUEOUS AMMONIA**

South Bay

CITY OF SANTA CLARA

Purchasing Division 1500 Warburton Avenue Santa Clara, CA 95050

Nick van Haeften	Division Manager	nvanhaefte@santaclaraca.gov	408-615-2717
Alex Price	Senior Engineer	aprice@santaclaraca.gov	408-615-6051

SAN JOSE - SANTA CLARA REGIONAL WASTEWATER FACILITY

700 Los Esteros Road San Jose, CA 95134

Mark Nicholl		Mark.Nicholl@sanjoseca.gov	408-635-6635
Tim Lewis	Wastewater Facility Operations Manager	tim.lewis@sanjoseca.gov	408-635-2057
Satya Nand		satya.nand@sanjoseca.gov	408-635-2054

Tri Valley

DUBLIN SAN RAMON SERVICES DISTRICT

Regional Wastewater Treatment Facility 7399 Johnson Drive Pleasanton, CA 94588

Erin Steffen	Management Analyst II	steffen@dsrsd.com	925-875-2393
Virgil Sevilla	WWTP Operations Superintendent	sevilla@dsrsd.com	925-875-2300
Dan Pettinichio	Senior Water/Wastewater Systems Operator (Potable Water Distribution)	pettinichio@dsrsd.com	925 404-4524
Diane Griffin	Operations Compliance Manager	griffin@dsrsd.com	925-875-2324
Clint Byrum	Water/Wastewater Systems Superintendent	byrum@dsrsd.com	925-875-2367
Jeff Carson	Operations Manager	carson@dsrsd.com	925-875-2345

ZONE 7 WATER AGENCY

100 North Canyons Parkway Livermore, CA 94551

Zeljka Bozic	Buyer I	zbozic@zone7water.com	925 454 5029
Karen Bartels	Buyer II	kbartels@zone7water.com	925-454-5039

SECTION IV

**BAY AREA CHEMICAL CONSORTIUM
BID CONTRACT DOCUMENTS
FOR BID NO. 03-2023
AQUEOUS AMMONIA**

***** All of the following pages must be properly completed and submitted
for the bid to be considered complete. *****

**BAY AREA CHEMICAL CONSORTIUM
STANDARD AGREEMENT, PAGE 1 OF 2
BID NO. 03-2023
SUPPLY AND DELIVERY OF AQUEOUS AMMONIA**

I hereby agree to furnish AQUEOUS AMMONIA identified in the attached bid forms, as solicited by the Bay Area Chemical Consortium (BACC), to one or more of the participating BACC Agencies.

Company: Hill Brothers Chemical Company
Address: 3000 E Birch St, Suite 108
City, State, ZIP: Brea, CA 92821
Phone: (714) 579-3333
Email: falari@hillbrothers.com
Authorized Representative: Frank Alari
Signature: 
Date: 2/21/2023

WE ACKNOWLEDGE RECEIVING ADDENDUM/ADDENDA NUMBER N/A THROUGH N/A.

SPECIFIC DEVIATIONS:

This box must be checked if bidder has any proposed specific deviations. Per Section 2.12 Proposed Deviations from the Specifications by the Bidder, the absence of a proposed change in the specifications will hold the bidder strictly accountable to the specifications as described in the bid document, including any addendum.

Describe the specific deviations below. A copy of the proposed specifications must be attached to this Standard Agreement at the time of submission, with bidder's name clearly shown on each document.

STANDARD AGREEMENT, PAGE 2 OF 2

BIDDER INFORMATION

1. Legal Name of Bidder:
Hill Brothers Chemical Company

2. Bidder's Street Address:
3000 E Birch St, Suite 108, Brea, CA 92821

3. Mailing Address:
3000 E Birch St, Suite 108, Brea, CA 92821

4. Business Telephone: (714) 579-3333 Fax Number: (714) 579-3399

5. Type of Supplier:
 Sole Proprietor Partnership Corporation LLC
If Corporation, indicate State where incorporated: California

6. Business License Number issued by the City where the Supplier's principal place of business is located.
Number: 08806705 Issuing City: Brea

7. Supplier Federal Tax Identification Number: 95-0830560

8. Emergency Contact: Name: Chemtrec
Phone Number: (800) 424-9300

9. Order Contact: Name: Steven Cosio
Address: 3000 E Birch St, Suite 108, Brea, CA 92821
Phone Number: (800) 322-4119 Fax Number: (714) 579-3399
Email: hborders@hillbrothers.com

10. References:

<u>Company/Agency Name</u>	<u>Contact Name</u>	<u>Phone Number</u>
1) <u>Contra Costa WD</u>	<u>Doug Anderson</u>	<u>(925) 688-8011</u>
2) <u>Alameda County WD</u>	<u>Renee Gonzales</u>	<u>(510) 668-4294</u>
3) <u>City of San Jose</u>	<u>Sandra Bernabe</u>	<u>(408) 635-2048</u>

11. Chemical Manufacturer's name and address (if different from Bidder):
-SAME-

**Non-Collusion Affidavit
To Be Executed By Bidder and Submitted With Bid**

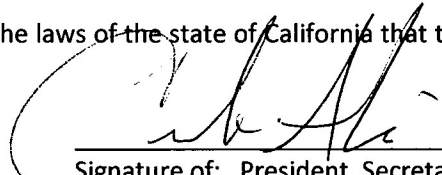
State of California)
) ss.
County of Orange)

Frank Fitzgerald Alari, being first duly sworn, deposes and says that he or she is the
(Bidder's Authorized Representative)

Regional Sales Manager of Hill Brothers Chemical Company the party making the
(Title of Representative) (Legal Name of Bidder)

foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bid, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

I declare under penalty of perjury under the laws of the state of California that the foregoing is true and correct.



Signature of: President, Secretary,
Manager, Owner, or Representative

Subscribed and sworn to before me this, _____ day of _____, 20____

Signature of Notary Public In and For

The County of _____,

State of _____

Please See Attached

All Signatures Must Be Witnessed By Notary

CALIFORNIA JURAT WITH AFFIANT STATEMENT

GOVERNMENT CODE § 8202

- See Attached Document (Notary to cross out lines 1-6 below)
- See Statement Below (Lines 1-6 to be completed only by document signer[s], *not* Notary)

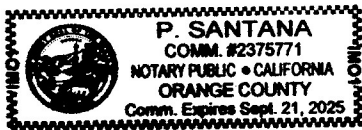
Signature of Document Signer No. 1

Signature of Document Signer No. 2 (if any)

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
 County of Orange

Subscribed and sworn to (or affirmed) before me
 on this 21 day of February, 2023,
 by Date Month Year
 (1) Frank Fitzgerald Alari
 (and (2) _____),
 Name(s) of Signer(s)



proved to me on the basis of satisfactory evidence
 to be the person(s) who appeared before me.

Signature P. Santana
 Signature of Notary Public

Seal
 Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

**BAY AREA CHEMICAL CONSORTIUM
BID FORM FOR BID NO. 03-2023
FOR SUPPLY AND DELIVERY OF AQUEOUS AMMONIA**

Sealed bids must be submitted in a PDF format and bidders must enter bid prices into the electronic bid platform (Line Item page)

<https://bacwa.org/bacc/>

No later than 4:00 PM. PT
Thursday, February 23, 2023

Legal Name of Bidder:

Hill Brothers Chemical Company

Business Address

3000 E Birch St, Suite 108

Brea, CA 92821


Telephone Number: (714) 579-3333

Facsimile Number: (714) 579-3399

Email Address: falari@hillbrothers.com

Authorized Representative (Please Print):

Frank Alari

Signature: 

Date: 2/21/2023

I. All costs except California State sales tax for the purchase of AQUEOUS AMMONIA must be included in the amount shown entered into the electronic bid platform (Line Item page), including any and all mill assessments, fees, excise taxes, transportation charges, etc. Any exceptions to the bid must be noted under Specific Deviations on the Standard Agreement. Bidders shall submit bids per unit of measure as specified in the electronic bid platform (Line Item page).

II. Bidders must submit all of the following, attached to this Bid Form:

- a. All requirements listed in Section 2.21 Manufacturer's Info.
- b. If applicable, the name, address, and contact information for the third party hauling company as well as an affidavit signed by the Bidder that the third party hauler can and will deliver the chemical to each and every participating BACC Agency.

III. Bidder Obligations

By signing this Bid Form and entering into individual purchase orders, purchase agreements and /or contracts with BACC agencies, the bidder expressly agrees to be bound by all the provisions of the bid solicitation, including Sections I-IV.

BAY AREA CHEMICAL CONSORTIUM

Worksheet

BID NO. 03-2023

AQUEOUS AMMONIA

Refer to paragraph 2.4 Bid Pricing for full details.

Bidders shall submit bids in US\$ per unit of measure indicated on this bid form, FOB Destination.

Bid prices shall be based on bulk deliveries of 2,000 gallons or more. Bidders must submit their Bid Prices via electronic bid platform - Line Items section. Do not submit Worksheet.

	Unit of Measure	Bid Price per Unit of Measure
Aqueous Ammonia 19% Solution		
<u>Central Valley</u> City of Stockton	gal	\$
<u>East Bay</u> Alameda County Water District	gal	\$
<u>North Bay</u> Contra Costa Water District	gal	\$
<u>South Bay</u> City of Santa Clara San Jose - Santa Clara Regional Wastewater Facility	gal	\$
<u>Tri Valley</u> Dublin San Ramon Services District Zone 7 Water Agency	gal	\$
Aqueous Ammonia 29% Solution		
<u>Sacramento</u> City of Roseville	gal	\$
Aqueous Ammonia 30% Solution		
<u>Marin Sonoma Napa</u> Marin Municipal Water District	gal	\$

DO NOT SUBMIT WORKSHEET
ENTER BID PRICES VIA ELECTRONIC BID PLATFORM

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

2/21/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

Table with 2 main columns: PRODUCER (Allen Lawrence & Assoc. LLC) and CONTACT NAME (Veronica Sognalian). Includes phone, fax, email, and a table of INSURER(S) AFFORDING COVERAGE with NAIC #.

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT 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. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

Main table listing insurance coverages (A, B, C) with columns for INSR LTR, TYPE OF INSURANCE, POLICY NUMBER, POLICY EFF, POLICY EXP, and LIMITS. Includes details for Commercial General Liability, Automobile Liability, Umbrella Liability, and Workers Compensation.

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) Bay Area Clean Water Agencies (BACWA) are included as Additional Insured under the General Liability/Pollution policy as their interest may appear, as required by written contract.

Table with 2 columns: CERTIFICATE HOLDER (Bay Area Clean Water Agencies) and CANCELLATION (Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions).

DESCRIPTIONS (Continued from Page 1)

Excess Liability policy is "Follow Form" over underlying General Liability/Pollution and Workers Compensation policies.

Named Insured Hill Brothers Chemical Company			Endorsement Number
Policy Symbol	Policy Number G2714598A010	Policy Period 08/01/2022 - 08/01/2023	Effective Date of Endorsement 08/01/2022
Issued By (Name of Insurance Company) Westchester Surplus Lines Insurance Company			

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED ENDORSEMENT - OWNERS, LESSEES OR CONTRACTORS
(PRIMARY AND NON-CONTRIBUTORY)**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE
CONTRACTORS POLLUTION LIABILITY COVERAGE

SCHEDULE:

<p><u>Name of Person or Organization:</u> Where required by written contract.</p>
--

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

SECTION II - WHO IS AN INSURED is amended to include:

A. SECTION II - WHO IS AN INSURED is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of your ongoing operations performed for that insured.

B. With respect to the insurance afforded to these additional insureds, the following exclusion is added:

2. Exclusions

This insurance does not apply to **bodily injury** or **property damage** occurring after:

- (1) All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the site of the covered operations has been completed; or
- (2) That portion of **your work** out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

C. The coverage provided hereunder shall be primary and not contributing with any other insurance available to those designated above under any other third party liability policy.

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Named Insured Hill Brothers Chemical Company			Endorsement Number
Policy Symbol	Policy Number G2714598A010	Policy Period 08/01/2022 08/01/2023	Effective Date of Endorsement 08/01/2022
Issued By (Name of Insurance Company) Westchester Surplus Lines Insurance Company			

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED ENDORSEMENT – PRODUCTS-COMPLETED OPERATIONS HAZARD
PRIMARY & NON-CONTRIBUTORY**

THIS ENDORSEMENT MODIFIES INSURANCE PROVIDED UNDER THE FOLLOWING:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
CONTRACTOR'S POLLUTION LIABILITY COVERAGE PART

SCHEDULE

Where required by written contract.

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for **bodily injury** or **property damage** caused, in whole or in part, by **your work** performed for that additional insured and included in the **products-completed operations hazard**.

Furthermore, the coverage provided hereunder shall be primary and not contributing with any other insurance available to those designated above under any other third party liability policy.

All other terms and conditions remain the same.

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WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

Schedule

Blanket Waiver

Person/Organization:	Blanket Waiver - Any person or organization for whom the Named Insured has agreed by written contract to furnish this waiver.
Job Description	
All Operations	

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.

(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement Effective: 06/01/2022	Policy No.: HIWC320429	Endorsement No.:
Insured: Hill Brothers Chemical Company		Premium \$
Insurance Company: Berkshire Hathaway Homestate Ins Co		

WC 00 03 13

Countersigned by _____

(Ed. 4-84)

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USDOT Number: _

Date Received: _

Please note, the expiration date as stated on this form relates to the process for renewing the Information Collection Request for this form with the Office of Management and Budget. This requirement to collect information as requested on this form does not expire. For questions, please contact the Office of Registration and Safety Information, Registration, Licensing, and Insurance Division.

A Federal Agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is 2126-0008. Public reporting for this collection of information is estimated to be approximately 2 minutes per response, including the time for reviewing instructions, gathering the data needed, and completing and reviewing the collection of information. All responses to this collection of information are mandatory. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: Information Collection Clearance Officer, Federal Motor Carrier Safety Administration, MC-RRA, Washington, D.C. 20590.



United States Department of Transportation
Federal Motor Carrier Safety Administration

Endorsement for Motor Carrier Policies of Insurance for Public Liability
under Sections 29 and 30 of the Motor Carrier Act of 1980

FORM MCS-90

Issued to Hill Brothers Chemical Company
(Motor Carrier name)

of CA
(Motor Carrier state or province)

Dated at Alpharetta, GA on this 1st day of August, 2022.

Amending Policy Number: CAL H08455582 Effective Date: 08/01/2022

Name of Insurance Company: ACE American Insurance Company

Countersigned by: JOHN J. LUPICA, President
(authorized company representative)

The policy to which this endorsement is attached provides primary or excess insurance, as indicated for the limits shown *(check only one)*:

- This insurance is primary and the company shall not be liable for amounts in excess of \$ 5,000,000 for each accident.
- This insurance is excess and the company shall not be liable for amounts in excess of \$ _____ for each accident in excess of the underlying limit of \$ _____ for each accident.

Whenever required by the Federal Motor Carrier Safety Administration (FMCSA), the company agrees to furnish the FMCSA a duplicate of said policy and all its endorsements. The company also agrees, upon telephone request by an authorized representative of the FMCSA, to verify that the policy is in force as of a particular date. The telephone number to call is: 678.795.4000.

Cancellation of this endorsement may be effected by the company or the insured by giving (1) thirty-five (35) days notice in writing to the other party (said 35 days notice to commence from the date the notice is mailed, proof of mailing shall be sufficient proof of notice), and (2) if the insured is subject to the FMCSA's registration requirements under 49 U.S.C. 13901, by providing thirty (30) days notice to the FMCSA (said 30 days notice to commence from the date the notice is received by the FMCSA at its office in Washington, DC).

Filings must be transmitted online via the Internet at <http://www.fmcsa.dot.gov/urs>.

(continued on next page)

DEFINITIONS AS USED IN THIS ENDORSEMENT

Accident includes continuous or repeated exposure to conditions or which results in bodily injury, property damage, or environmental damage which the insured neither expected nor intended.

Motor Vehicle means a land vehicle, machine, truck, tractor, trailer, or semitrailer propelled or drawn by mechanical power and used on a highway for transporting property, or any combination thereof.

Bodily Injury means injury to the body, sickness, or disease to any person, including death resulting from any of these.

Property Damage means damage to or loss of use of tangible property.

Environmental Restoration means restitution for the loss, damage, or destruction of natural resources arising out of the accidental discharge, dispersal, release or escape into or upon the land, atmosphere, watercourse, or body of water, of any commodity transported by a motor carrier. This shall include the cost of removal and the cost of necessary measures taken to minimize or mitigate damage to human health, the natural environment, fish, shellfish, and wildlife.

Public Liability means liability for bodily injury, property damage, and environmental restoration.

The insurance policy to which this endorsement is attached provides automobile liability insurance and is amended to assure compliance by the insured, within the limits stated herein, as a motor carrier of property, with Sections 29 and 30 of the Motor Carrier Act of 1980 and the rules and regulations of the Federal Motor Carrier Safety Administration (FMCSA).

In consideration of the premium stated in the policy to which this endorsement is attached, the insurer (the company) agrees to pay, within the limits of liability described herein, any final judgment recovered against the insured for public liability resulting from negligence in the operation, maintenance or use of motor vehicles subject to the financial responsibility requirements of Sections 29 and 30 of the Motor Carrier Act of 1980 regardless of whether or not each motor vehicle is specifically described in the policy and whether or not such negligence occurs on any route or in any territory authorized to be served by the insured or elsewhere. Such insurance as is afforded, for public liability, does not apply to injury to or death of the insured's employees while engaged in the course of their employment, or property transported by the insured, designated as cargo. It is understood and agreed that no condition, provision, stipulation, or limitation contained in the policy, this endorsement, or any other endorsement thereon,

or violation thereof, shall relieve the company from liability or from the payment of any final judgment, within the limits of liability herein described, irrespective of the financial condition, insolvency or bankruptcy of the insured. However, all terms, conditions, and limitations in the policy to which the endorsement is attached shall remain in full force and effect as binding between the insured and the company. The insured agrees to reimburse the company for any payment made by the company on account of any accident, claim, or suit involving a breach of the terms of the policy, and for any payment that the company would not have been obligated to make under the provisions of the policy except for the agreement contained in this endorsement.

It is further understood and agreed that, upon failure of the company to pay any final judgment recovered against the insured as provided herein, the judgment creditor may maintain an action in any court of competent jurisdiction against the company to compel such payment.

The limits of the company's liability for the amounts prescribed in this endorsement apply separately to each accident and any payment under the policy because of anyone accident shall not operate to reduce the liability of the company for the payment of final judgments resulting from any other accident.

(continued on next page)

SCHEDULE OF LIMITS — PUBLIC LIABILITY
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Type of carriage	Commodity transported	January 1, 1985
(1) For-hire (in interstate or foreign commerce, with a gross vehicle weight rating of 10,001 or more pounds).	Property (nonhazardous)	\$750,000
(2) For-hire and Private (in interstate, foreign, or intrastate commerce, with a gross vehicle weight rating of 10,001 or more pounds).	Hazardous substances, as defined in 49 CFR 171.8 , transported in cargo tanks, portable tanks, or hopper-type vehicles with capacities in excess of 3,500 water gallons; or in bulk Division 1.1, 1.2, and 1.3 materials, Division 2.3, Hazard Zone A, or Division 6.1, Packing Group I, Hazard Zone A material; in bulk Division 2.1 or 2.2; or highway route controlled quantities of a Class 7 material, as defined in 49 CFR 173.403 .	\$5,000,000
(3) For-hire and Private (in interstate or foreign commerce, in any quantity; or in intrastate commerce, in bulk only; with a gross vehicle weight rating of 10,001 or more pounds).	Oil listed in 49 CFR 172.101 ; hazardous waste, hazardous materials, and hazardous substances defined in 49 CFR 171.8 and listed in 49 CFR 172.101 , but not mentioned in (2) above or (4) below.	\$1,000,000
(4) For-hire and Private (In interstate or foreign commerce, with a gross vehicle weight rating of less than 10,001 pounds).	Any quantity of Division 1.1, 1.2, or 1.3 material; any quantity of a Division 2.3, Hazard Zone A, or Division 6.1, Packing Group I, Hazard Zone A material; or highway route controlled quantities of a Class 7 material as defined in 49 CFR 173.403 .	\$5,000,000

*The schedule of limits shown does not provide coverage. The limits shown in the schedule are for information purposes only.



Safety Data Sheet

1. Product Identifier and Company Identification

Product name : **Aqua Ammonia Solutions**
HBCC SDS number : CA13226
Synonym : Ammonium Hydroxide; Aqueous Ammonia; Water Ammonia; Aqua Ammonia; Ammonia Solutions
Product use and Restrictions : Refer to label or call
Manufacturer : Corporate Headquarters Corporate Safety & Compliance
Contact Address Hill Brothers Chemical Company Hill Brothers Chemical Company
3000 E. Birch St, Suite 108 7121 West Bell Road, Suite 250
Brea, California 92821 Glendale, Arizona 85308
714-998-8800 – Office 623-535-9955 - Office
800-821-7234 – Office 623-535-9944 – Fax
Emergency telephone Number (Chemtrec) : 800-424-9300
Website : <https://hillbrothers.com>

2. Hazard Identification

Classification : Acute Toxicity, Inhalation; Category 4
Skin Corrosion; Category 1B
Serious Eye Damage/Eye Irritation; Category 1
Specific Target Organ Toxicity (SINGLE EXPOSURE)[Respiratory tract irritation]; Category 3
Aquatic Toxicity (ACUTE); Category 2
Aquatic Toxicity (CHRONIC); Category 2

Signal Word : Danger



Hazard Statements : H332 Harmful if inhaled.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : P280 Wear protective gloves. Wear protective clothing. Wear eye/face protection.
P271 Use only outdoors or in a well-ventilated area.
P264 Wash hands thoroughly after handling.
P391 Collect Spillage.

Response : P304+P340+P312 IF INHALED: Remove victim to fresh air and keep

comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

P303+P361+P353+P363 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash all contaminated clothing before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Prevention : P273 Avoid release to the environment.
P261 Avoid breathing fumes, mists, vapors or spray.

Storage : P405 Store locked up.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal : P501 Dispose of contents and container in accordance with specified local, regional, national, and international regulations.

3. Composition/Information on Ingredients

For Ammonia Solutions 10-30%		
CAS Number	Ingredient Name	Weight %
7664-41-7	Anhydrous Ammonia	10-30
7732-18-5	Water	70-90

4. First Aid Measures

Summary of First Aid Measures

Ingestion : **Do Not Induce Vomiting.** If person is conscious, give large quantities of water and, if possible, diluted vinegar, lemon juice, orange juice, or other citric juices to neutralize the ammonia. Delay may cause perforation of esophagus or stomach. OBTAIN MEDICAL ATTENTION.

Inhalation : Remove victim to fresh air. Give oxygen if breathing is difficult. If breathing has stopped, start artificial respiration. Keep victim calm and resting. OBTAIN MEDICAL ATTENTION.

Skin : Apply water immediately to exposed areas of skin and continue for at least 30 minutes. Remove contaminated clothing while continuing to apply water. Do not apply salves or ointments to affected areas. OBTAIN MEDICAL ATTENTION.

Eyes : Immediately flush with flowing water for at least 30 minutes with the eyelids held apart. OBTAIN MEDICAL ATTENTION.

Medical Conditions : Ammonia is a respiratory irritant. Persons with impaired pulmonary function may be at increased risk from exposure.

Effects of Overexposure : Irritation and possible burns of the skin and mucous membranes.

Headache, salivation, nausea, and vomiting. Difficult or labored breathing and cough with bloody mucous discharge. Bronchitis, laryngitis, hemoptysis, and pulmonary edema or pneumonitis. Ulceration of the conjunctiva and cornea, and corneal and lenticular opacities. Damage to the eyes may be permanent.

Summary of Acute Health Hazards

- Ingestion** : May cause corrosion to the esophagus and stomach with perforation and peritonitis. Ingestion causes burning pain in mouth, throat, stomach, and thorax, constriction of throat, and coughing. This is soon followed by vomiting of blood or by passage of loose stools containing blood. Ingestion of 3-4 ml may be fatal.
- Inhalation** : If inhaled, will cause nausea, vomiting, breathing difficulty, and convulsions. Shock or loss of consciousness may result. Brief exposure to 5000 ppm may be fatal.
- Skin** : **Absorption**: Ammonia, because of its alkalinity and water solubility, tends to break down and disrupt the outer cell layers, permitting rapid penetration. Even so, ammonia is not a systemic poison and the effects will be limited to local effects.
Contact: Causes smarting of the skin and first-degree burns on short exposure. May cause second-degree burns on long exposure.
- Eyes** : Vapor is irritating to the eyes. Liquid will cause burns.
- Note to Physicians** : N/A
- Summary of Chronic Health** : N/A

5. Fire Fighting Measures

- Extinguishing** : Water spray or fog type streams. Chemical or CO₂ should be used on small fires only. Use water to keep fire exposed containers cool and to protect men affecting the shut off.
- Special Exposure** : The presence of oil or other combustible materials will increase the fire hazard. The explosive (flammable) range of ammonia is broadened by a mixture of oxygen replacing air, and by temperature and pressure higher than atmospheric. Stop the flow of liquid. Approach fire upwind and evacuate area downwind if needed.
- Hazards**
- Special Protective Equipment for Firefighters** : Wear self-contained breathing apparatus and full protective clothing.
- Fire Fighting Procedures** : N/A
- NFPA Rating** : Health - 3

Flammability - 1
Instability - 0



0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

NFPA Rating is for Ammonia, Anhydrous, Liquefied Gas only. Ammonia Solutions are not rated by the NFPA (National Fire Protection Association).

Uniform Fire Code Rating

: N/A

6. Accidental Release Measures

Personal Precautions

: Approach spill from upwind and evacuate area downwind.

Emergency Procedures

: Stop the flow.

Methods of Containment And Clean-Up

: Dike to contain spill. Dilute with water, if necessary to reduce ammonia vaporization. Can be neutralized with dilute phosphoric or sulfuric acids. Vinegar will effectively neutralize small spills of aqua ammonia. Prevent runoff from entering streams, drinking water supply or sewers.

7. Handling and Storage

Safe Handling

: Avoid heating containers of aqua ammonia. Avoid contact with skin and eyes. Avoid inhalation of vapors.

Storage

: Avoid storing in close proximity to strong acids.

Work/Hygienic

: Avoid contact with skin and avoid breathing vapors. Do not eat, drink, or smoke in work area. Wash hands before eating, drinking, or using restroom. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible.

Practices

Ventilation

: Local exhaust is essential. Spark-proof fans desirable with mechanical ventilation. Ducts should be located at ceiling level and lead upwards to the outside. Local exhaust must be adequate to reduce ammonia concentration below 25 ppm.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Chemical Name: Anhydrous Ammonia				
Exposure Limits (TWAs) in Air				
CAS Number	IDLH	ACGIH TLV	OSHA PEL	STEL
7664-41-7	300	25 ppm	50 ppm	35 ppm

Protective Equipment

: Eyewash fountain and safety shower should be available in the work area. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Neoprene and nitrile rubber are recommended materials. Polyvinyl alcohol is not recommended.

Eye Protection

: Tight fitting chemical safety and splash-proof goggles and/or a splash-proof face shield must be worn if there is a likelihood of exposure. Persons subject to ammonia exposure must not wear contact lenses.

Respiratory Protection

: Unless ventilation is adequate to keep airborne concentrations below the exposure standard, wear approved respiratory protection such as an ammonia canister mask or an approved air supplied respirator. Canister or cartridge type masks must not be used above their exposure limits. From 0 -199 ppm, a cartridge type ½ mask respirator is needed. From 200-299 ppm a type "N" gas mask with full face piece is needed. Over 300 ppm a self-contained breathing apparatus (SCBA) is required.

9. Physical and Chemical Properties

Physical State	Liquid	Molecular Weight	
Colour	Clear; Transparent	Weight %	10-30% NH ₃
Odour	Pungent	Odour Threshold	5 ppm
pH	12-14	Vapor Pressure	3-10 PSI @ 16 °C
Relative Density (water =1)	0.9590 -0.8950 @ 16 C (60°F)	Vapor Density (air=1)	0.60 @ 0°C
Viscosity	<1.7 centipoise @ 16 C (60°F)	VOC(g/ml)	100%
Boiling Point/Range (°C)	28°C	Auto-ignition Temperature(°C)	650°C
Melting Point/Range(°C)	-72°C	Evaporation Rate	
Flash Point	NA	Explosive Limits (% , v/v)	NA
Explosive Properties	NA	Oxidizing Properties	NA
Water Solubility	Complete	Partition Coefficient (log Pow)	NA

10. Stability and Reactivity

Reactivity

: Ammonia is lightly reactive, easily undergoing oxidation, substitution and addition reactions.

Chemical Stability

: Material generally considered stable. Heating over ambient temperatures

causes vapor pressure of ammonia to increase rapidly. Stable

Possibility of Hazardous Reactions or Polymerizations : Hazardous polymerization will not occur

Conditions to Avoid : Heat, open flames, and electrical equipment and fixtures which are not vapor-proof or grounded.

Incompatible Materials : Avoid strong acids. Ammonia will react with bromine, chlorine, mercury, silver, and bleach to form explosive compounds. Avoid use of metals containing copper, zinc, and brass.

Hazardous Decomposition Products : Combustion of ammonia will yield small amounts of nitrogen and water.

11. Toxicological Information

Acute and Chronic Effects : See Section 4

Routes of Exposure

Ingestion : Yes
Inhalation : Yes
Skin : Yes
Eyes : Yes

Symptoms related to Physical, Chemical & Toxicological Characteristics : Burning of the eyes, conjunctivitis, skin irritation, swelling of the eyelids and lips, dry red mouth and tongue, burning in the throat, and coughing. In more severe cases of exposure, difficulty in breathing, signs and symptoms of lung congestion, and, ultimately, death from respiratory failure due to pulmonary edema may occur.

Numerical Measures of Toxicity : Toxicity by Ingestion: Oral rat, LD50: 350 mg/kg

Chronic Toxicity : N/A

Carcinogenicity : N/A

Product Name: Aqua Ammonia Solutions					
ACGIH	IARC	EPA	NIOSH	NTP	OSHA
No	No	No	No	No	No

Target Organs : N/A

12. Ecological Information

Ecotoxicity : Harmful to aquatic life in very low concentrations. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Do not contaminate any body of water by direct application, cleaning of equipment or disposal.

Persistence and Degradability : N/A

Bioaccumulative Potential :

Product/Ingredient	Log _{Pow}	BCF	Potential
N/A	N/A	N/A	N/A

Mobility in Soil : N/A

13. Disposal Considerations

Disposal of Container : Consult federal, state, or local authorities for proper disposal procedures.

14. Transport Information

UN# : UN2672
Proper Shipping Name : Ammonia Solutions
Hazard Class/Division : 8
Packing Group : III
Marine Pollutant : Yes
Special Precautions : N/A
Emergency Response Guidebook : N/A
Placard Advisory : 2012 ERG, Guide 154, pages 246-247



15. Regulatory Information

Section 302 Extremely Hazardous Substance (EHS) : N/A

Section 304 Extremely Hazardous Substance (EHS) : N/A


CERCLA Hazardous Substance : N/A

Section 313 Supplier : This product contains the following toxic chemical(s) subject to the reporting requirements of SARA TITLE III Section 313 of the Emergency Planning and Community Right-To Know Act of 1986 and of 40 CFR 372:

<u>CAS #</u>	<u>Chemical Name</u>	<u>% By Weight</u>
1336-21-6	Ammonium Hydroxide	10-30%

Clean Air Act (CAA) : N/A
California Prop 65 : N/A

- TSCA** : All substances in this product are listed in the Chemical Substance Inventory of the Toxic Substances Control Act.
- Label Warning** : Corrosive
- EPA Registration** : N/A
- Toxicity by Ingestion** : Oral rat, LD50: 350 mg/kg
- IDLH Value** : 300 ppm (The Immediately Dangerous to Life and Health Value)
- Reportable Quantity** : 1000 Pounds (454 Kilograms)

	Maximum use level for Ammonium Hydroxide under NSF/ANSI Standard 60		
	Ammonium Hydroxide 19%	Maximum use	26 mg/L
	Ammonium Hydroxide 20%	Maximum use	25 mg/L
	Ammonium Hydroxide 29.45%	Maximum use	17 mg/L
	Ammonium Hydroxide 26° be	Maximum use	17 mg/L
	Ammonium Hydroxide 24.5%*	Maximum use	20 mg/L
*NSF certification for 24.5% applies to Aqua Ammonia produced at the San Jose facility only.			

16. Other Information

- Revision date** : 07/16/2021
- Supersedes** : 03/31/2021
- First Issue** : 01/02/1986
- Chemical Family/Type** : Inorganic Bases
- Section(s) changed since last revision** : Section 9

IMPORTANT! Read this SDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This SDS has been prepared in accordance with the Globally Harmonized System of Chemical and Labeling of Chemicals (GHS) Fifth Edition and the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The SDS information is based on sources believed to be reliable. Available data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control; **Hill Brothers Chemical Company** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks and exercise appropriate precautions for protection of employees and others prior to use.

PRODUCT PROFILE

AMMONIUM HYDROXIDE AQUA AMMONIA

Food Chemical Codex, ACS, and NSF Standards Specification

STANDARDS

Hill Brothers Chemical Company produces ammonium hydroxide at San Jose, CA and City of Industry, CA in compliance with current Good Manufacturing Practices (cGMP) and meets or exceeds, by typical periodic analysis, the current Food Chemical Codex (FCC) standards as listed in the FCC monograph.

In accordance with the FDA Title 21 CFR 184.1139 ammonium hydroxide is listed as Generally Recognized as Safe (GRAS) with no limitations other than cGMP for the following uses:

Leavening agent	21 CFR 170.3 (o) (17)
pH Control agent	21 CFR 170.3 (o) (23)
Surface-finishing agent	21 CFR 170.3 (o) (30)
Boiler water additive	21 CFR 170.310
Feed additive	21 CFR 582.1139

Hill Brothers' ammonium hydroxide also meets the current specifications for reagent grade ammonium hydroxide, established by the American Chemical Society (ACS), and has been tested and certified by NSF International for drinking water treatment.

QUALITY CONTROL

Each manufactured batch is quality control tested to meet basic physical properties including assay, specific gravity, temperature, and turbidity. Hill Brothers' will, by way of a third party laboratory, periodically commission a chemical analysis of randomly manufactured ammonium hydroxide at each facility to assure compliance to so stated standards and specifications.

HAZARDOUS MATERIAL WARNING

Ammonium Hydroxide is classified as a hazardous material. Hill Brothers, as a basic manufacturer of ammonium hydroxide, attests that the product meets all pertinent specifications, but accepts no responsibility for its end use. Ingestion of this or any hazardous material may result in serious injury or fatality. Although this product meets FDA Title 21 CFR 184.1139 specifications, this in no way mitigates the hazards inherent in this product. Appropriate precautions must be observed whenever using this product. Please refer to Hill Brothers' MSDS for more detailed safe handling and hazardous information.

Prepared by: Tony Garcia, Director of R&D for Hill Brothers Chemical Co.

Rev. 8/06

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Southern Calif. • San Jose, CA • San Diego, CA • Salt Lake City, UT
Phoenix, AZ • Tucson, AZ • Pacific Northwest • International Sales



Hill Brothers Chemical Co.
Corporate Office
1675 North Main St.
Orange, CA 92867-3499
(714) 998-8800
www.hillbrothers.com

PRODUCT PROFILE

Aqua Ammonia Properties

Wt.% Ammonia, NH ₃	Wt.% Nitrogen, % N	Sp. Grav. @ 60°F Comp'd w/ H ₂ O @ 60°F	Baumé @ 60°F	Wt. Per Gallon (lbs.)	Lbs. NH ₃ Per Gallon @ 60°F	Lbs. N Per Gallon @ 60°F	Boiling Point @ 14.7 psia (°F)
13	10.7	0.9493	17.49	7.91	1.03	0.85	144.4
13.37	11	0.9479	17.69	7.89	1.05	0.86	142.9
14	11.5	0.9459	18.02	7.88	1.1	0.91	140.4
14.58	12	0.9439	18.33	7.86	1.15	0.95	138.1
15	12.3	0.9425	18.55	7.85	1.18	0.97	136.4
15.8	13	0.9398	18.98	7.83	1.24	1.02	133.2
16	13.2	0.9392	19.08	7.82	1.25	1.03	132.4
17	14	0.9359	19.6	7.79	1.32	1.09	128.4
18	14.8	0.9326	20.13	7.77	1.4	1.15	124.5
18.23	15	0.9318	20.25	7.76	1.41	1.16	123.6
19	15.6	0.9293	20.65	7.74	1.47	1.21	120.6
19.44	16	0.9280	20.88	7.73	1.50	1.23	118.9
20	16.4	0.9261	21.17	7.71	1.54	1.27	116.7
20.66	17	0.9240	21.15	7.70	1.59	1.31	114.3
21	17.3	0.9230	21.69	7.69	1.62	1.33	113.0
21.87	18	0.9203	22.14	7.66	1.68	1.38	109.9
22	18.1	0.9198	22.21	7.66	1.69	1.39	109.4
23	18.9	0.9166	22.73	7.63	1.75	1.44	106.0
23.09	19	0.9163	22.78	7.63	1.76	1.45	105.7
24	19.7	0.9135	23.24	7.61	1.83	1.51	102.6
24.3	20	0.9126	23.4	7.60	1.85	1.52	101.6
25	20.6	0.9105	23.76	7.58	1.90	1.56	99.3
25.52	21	0.9090	24.02	7.57	1.93	1.59	97.6
26	21.4	0.9075	24.27	7.56	1.97	1.62	96
26.73	22	0.9053	24.54	7.54	2.02	1.66	93.6
27	22.2	0.9045	24.78	7.53	2.03	1.67	92.7
28	23	0.9016	25.29	7.51	2.10	1.73	89.4
29	23.9	0.8986	25.8	7.48	2.17	1.79	86.1
29.16	24	0.8983	25.88	7.48	2.18	1.80	85.6
30	24.7	0.8957	26.31	7.46	2.24	1.85	82.8
30.38	25	0.8946	26.5	7.45	2.26	1.86	81.6

Rev. 3/2021

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Southern California (800) 438-8515 Northern California (800) 438-8515 Phoenix, Arizona (888) 866-2210 Tucson, Arizona (888) 866-2210 Utah/Pacific Northwest (800) 336-3911



Hill Brothers Chemical Co.
(714) 998-8800
www.hillbrothers.com

PRODUCT PROFILE

Aqua Ammonia

BAUMÉ/ SPECIFIC GRAVITY/ AMMONIA CONTENT @ 60°F

BAUMÉ	SP. GRAVITY	%NH ₃	BAUMÉ	SP. GRAVITY	%NH ₃
10.00	1.0000	0	19.50	0.9365	16.80
10.25	0.9982	0.4	19.75	0.9349	17.28
10.50	0.9964	0.8	20.00	0.9333	17.76
10.75	0.9947	1.21	20.25	0.9318	18.24
11.00	0.9929	1.62	20.50	0.9302	18.72
11.25	0.9912	2.04	20.75	0.9287	19.20
11.50	0.9894	2.46	21.00	0.9272	19.68
11.75	0.9876	2.88	21.25	0.9256	20.16
12.00	0.9859	3.3	21.50	0.9241	20.64
12.25	0.9842	3.73	21.75	0.9226	21.12
12.50	0.9825	4.16	22.00	0.9211	21.60
12.75	0.9807	4.59	22.25	0.9195	22.08
13.00	0.9790	5.02	22.50	0.9180	22.56
13.25	0.9773	5.45	22.75	0.9165	23.04
13.50	0.9756	5.88	23.00	0.9150	23.52
13.75	0.9739	6.31	23.25	0.9135	24.01
14.00	0.9722	6.74	23.50	0.9121	24.50
14.25	0.9705	7.17	23.75	0.9106	24.99
14.50	0.9689	7.61	24.00	0.9091	25.48
14.75	0.9672	8.05	24.25	0.9076	25.97
15.00	0.9655	8.49	24.50	0.9061	26.46
15.25	0.9639	8.93	24.75	0.9047	26.95
15.50	0.9622	9.38	25.00	0.9032	27.44
15.75	0.9605	9.83	25.25	0.9018	27.93
16.00	0.9589	10.28	25.50	0.9003	28.42
16.25	0.9573	10.73	25.75	0.8989	28.91
16.50	0.9556	11.18	26.00	0.8974	29.40
16.75	0.9540	11.64	26.25	0.8960	29.89
17.00	0.9524	12.10	26.50	0.8946	30.38
17.25	0.9508	12.56	26.75	0.8931	30.87
17.50	0.9492	13.02	27.00	0.8917	31.36
17.75	0.9475	13.49	27.25	0.8903	31.85
18.00	0.9459	13.96	27.50	0.8889	32.34
18.25	0.9444	14.43	27.75	0.8875	32.83
18.50	0.9428	14.90	28.00	0.8861	33.32
18.75	0.9412	15.37	28.25	0.8847	33.81
19.00	0.9396	15.84	28.50	0.8833	34.30
19.25	0.9380	16.32	28.75	0.8819	34.79

Rev. 3/2021

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PRODUCT SPECIFICATIONS

Aqua Ammonia Industrial Grade Ammonium Hydroxide



PRODUCT DESCRIPTION

Aqua Ammonia (NH₃) is a clear and colorless, low vapor pressure liquid product manufactured to the following reagent grade specifications:

CHEMICAL PROPERTIES


PROPERTY	SPECIFICATIONS**
Appearance	Colorless, Water White
Assay* (% by wt. NH ₃ min.)	19.0% or 29.45% (26°Be)
Residue after ignition	20 ppm maximum
Carbon Dioxide	20 ppm maximum
Chloride	0.5 ppm maximum
Phosphate	2 ppm maximum
Total Sulfur – (as SO ₄)	2 ppm maximum
Heavy Metals (as Pb)	0.5 ppm maximum
Iron	0.2 ppm maximum
Substance Reducing Permanganate	Pass

*Custom strengths are available meeting the same specifications.

**Hill Brothers' Aqua Ammonia meets or exceeds all above specifications by independent laboratory test.

PHYSICAL PROPERTIES

PROPERTY	PROPERTIES	
Assay (% by wt. NH ₃ min)	19.0%	29.45%
Specific Gravity at 60°F	0.929	0.897
Pounds per gallon at 60°F	7.74	7.47
Boiling Point – Sea Level	120.6°F	85.6°F

	Maximum use level for Ammonium Hydroxide under NSF/ANSI Standard 60		
	Ammonium Hydroxide 19%	Maximum use	26 mg/L
	Ammonium Hydroxide 20%	Maximum use	25 mg/L
	Ammonium Hydroxide 29.45%	Maximum use	17 mg/L
	Ammonium Hydroxide 26° be	Maximum use	17 mg/L
Ammonium Hydroxide 24.5%*	Maximum use	20 mg/L	
*NSF certification for 24.5% applies to Aqua Ammonia produced at the San Jose facility only.			

SAFETY AND HANDLING

Proper safety equipment and other safety concerns must be observed. Refer to the Aqua Ammonia SDS for current information.

Rev. 12/2020

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The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of **Tuesday, February 21, 2023** at 12:15 a.m. Eastern Time. Please contact NSF to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information:

<http://info.nsf.org/Certified/PwsChemicals/Listings.asp?Company=22370&>

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

Hill Brothers Chemical Company

3000 East Birch Street

Suite 108

Brea, CA 92821

United States

714-998-8800

Facility : Phoenix, AZ

Calcium Chloride

Trade Designation

HICO Liquid Calcium Chloride

Product Function

Defluoridation

Max Use

200mg/L

Softener

Liquid Calcium Chloride 30-38%

Softener

200mg/L

Defluoridation

Chlorine[CL]

Trade Designation

Chlorine Gas

Product Function

Disinfection & Oxidation

Max Use

30 mg/L

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

Ferric Chloride

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Ferric Chloride 42 BE	Coagulation & Flocculation	250mg/L

Ferrous Chloride

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Ferrous Chloride	Coagulation & Flocculation	250mg/L

Sodium Hydroxide

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Liquid Caustic Soda, 25%	pH Adjustment	200 mg/L
Liquid Caustic Soda, 30%	pH Adjustment	167 mg/L
Liquid Caustic Soda, 33%	pH Adjustment	152 mg/L
Liquid Caustic Soda, 50%	pH Adjustment	100 mg/L

Sodium Hypochlorite[HY]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
12.5% Liquid Bleach	Disinfection & Oxidation	84mg/L
Sodium Hypochlorite - 12.5%	Disinfection & Oxidation	84mg/L
Sodium hypochlorite 5.25%	Disinfection & Oxidation	200mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

Sulfuric Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Sulfuric Acid 40%	Corrosion & Scale Control pH Adjustment	103mg/L
Sulfuric Acid 50%	Corrosion & Scale Control pH Adjustment	92mg/L
Sulfuric Acid 66 Baume	Corrosion & Scale Control pH Adjustment	50mg/L
Sulfuric Acid 93%	Corrosion & Scale Control pH Adjustment	50mg/L

Facility : Industry, CA

Ammonia, Anhydrous**Trade Designation**

Ammonia Gas

Product FunctionDisinfection & Oxidation
Ozone Reduction**Max Use**

5mg/L

Anhydrous Ammonia

Disinfection & Oxidation
Ozone Reduction

5mg/L

Ammonium Hydroxide**Trade Designation**

Ammonium Hydroxide 19%

Product Function

Disinfection & Oxidation

Max Use

26mg/L

Ammonium Hydroxide 20%

Disinfection & Oxidation

25mg/L

Ammonium Hydroxide 24.5%

Disinfection & Oxidation

20mg/L

Ammonium Hydroxide 29.45%

Disinfection & Oxidation

17mg/L

Aqua Ammonia 20%

Disinfection & Oxidation

25mg/L

Aqua Ammonia 24.5%

Disinfection & Oxidation

20mg/L

Aqua Ammonia 26 BE

Disinfection & Oxidation

17mg/L

Ammonium Sulfate**Trade Designation**

Ammonium Sulfate 40% Solution

Product FunctionChloramination
Disinfection & Oxidation**Max Use**

60mg/L

Liquid Ammonium Sulfate 40%

Chloramination
Disinfection & Oxidation

60mg/L

Calcium Chloride**Trade Designation**

HICO Liquid Calcium Chloride

Product FunctionDefluoridation
Softener**Max Use**

200mg/L

Liquid Calcium Chloride 30-38%

Defluoridation
Softener

200mg/L

Facility : San Jose, CA**Ammonia, Anhydrous****Trade Designation**

Ammonia Gas

Product FunctionDisinfection & Oxidation
Ozone Reduction**Max Use**

5mg/L

Anhydrous Ammonia

Disinfection & Oxidation
Ozone Reduction

5mg/L

Ammonium Hydroxide**Trade Designation****Product Function****Max Use**

Ammonium Hydroxide 19%	Disinfection & Oxidation	26 mg/L
Ammonium Hydroxide 20%	Disinfection & Oxidation	25 mg/L
Ammonium Hydroxide 24.5%	Disinfection & Oxidation	20 mg/L
Ammonium Hydroxide 29.45%	Disinfection & Oxidation	17 mg/L
Aqua Ammonia 20%	Disinfection & Oxidation	25 mg/L
Aqua Ammonia 24.5%	Disinfection & Oxidation	20 mg/L
Aqua Ammonia 26 BE	Disinfection & Oxidation	17 mg/L

Ammonium Sulfate

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Ammonium Sulfate 40% Solution	Chloramination Disinfection & Oxidation	60mg/L
Liquid Ammonium Sulfate 40%	Chloramination Disinfection & Oxidation	60mg/L

Calcium Chloride

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
HICO Liquid Calcium Chloride 200	Defluoridation Softener	200mg/L
Liquid Calcium Chloride 30-38%	Softener Defluoridation	200mg/L

Number of matching Manufacturers is 1

Number of matching Products is 42

Processing time was 1 seconds



781 East Washington Blvd., Los Angeles, CA 90021
 (213) 745-5312 FAX (213) 745-6372

Certificate of Analysis

Hill Brothers Chemical Co.
 15017 E. Clark Ave.
 City of Industry, CA 91745

File #: 73659
 Report Date: 10/18/22
 Submitted: 09/28/22
PLS Report No.: 2209274

Attn: Jennifer Hill Phone: (626) 333-2251 FAX: (626) 333-9561
Project: Aqua Ammonia

Sample ID: Aqua Ammonia 29.4% Lot # 092130-2 (2209274-01) Sampled: 09/23/22 00:00 Received: 09/28/22											
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch	
Residue On Ignition	ND		1	%	0.002	ACS	09/29/22	10/04/22	vc	BJ20319	
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch	
KMnO4 Reducing Substances	PASS		1		-	ACS	09/29/22	09/29/22	vc	BJ20319	
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch	
Color	PASS		1	Color Units	1.00	ACS	09/28/22	09/28/22	vc	BJ20703	
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch	
Chloride	PASS <0.5		1	mg/L	0.500	ACS	09/29/22	09/29/22	vc	BJ20319	
Total Sulfur as Sulfate	PASS <2.00		1	mg/L	2.00	ACS	09/29/22	09/29/22	vc	BJ20319	
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch	
Carbon dioxide	PASS <0.002		1	mg/L	0.00200	ACS	09/29/22	09/29/22	vc	BJ20319	
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch	
Assay %	30.4		1	mg/L	0.0500	FCC	09/28/22	09/28/22	vc	BJ20701	
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch	
Assay %	29.4		1	%	0.100	ACS	09/28/22	09/28/22	vc	BJ20702	
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch	
Nonvolatile Residue	ND		1	mg/L	0.0200	FCC	09/29/22	09/29/22	vc	BJ20701	
Readily Oxidizable Substances	PASS <0.02		1	mg/L	-	FCC	09/29/22	09/29/22	vc	BJ20701	
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch	
Phosphate	ND		1	mg/L	1.00	EPA 300.0	EPA 300.0	10/04/22	10/04/22	vc	BJ20533
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch	
Heavy Metal as Lead	ND		1	mg/L	0.500	EPA 200.7	EPA 200.7	09/30/22	10/03/22	jks	BJ20425
Arsenic	ND		1	mg/L	0.020	EPA 200.7	EPA 200.7	09/30/22	10/03/22	RP/JK	BJ20425
Iron	ND		1	mg/L	0.050	EPA 200.7	EPA 200.7	09/30/22	10/03/22	RP/JK	BJ20425
Analyte	Results	Flag	D.F.	Units	PQL	Prep/Test Method	Prepared	Analyzed	By	Batch	
Lead	ND		1	mg/L	0.0500	EPA 200.7	FCC	09/30/22	10/03/22	jks	BJ20425

Notes and Definitions

- NA Not Applicable
- ND Analyte NOT DETECTED at or above the reported limit(s)
- NR Not Reported
- MDL Method Detection Limit
- PQL Practical Quantitation Limit

Rich Owen Parker

 Authorized Signature(s)

03-2023 Aqueous Ammonia

Q&A Deadline February 16, 2023 4:00 PM (PST)

Set 1 Released via Email 02/22/2023 9:32 AM (PST) – 3 questions

- 1.1** Knowing that the Sacramento and Marin Sonoma Napa locations call for 29% Aqueous Ammonia, can we submit a bid for just the Aqua Ammonia 19% strength to the locations that accept 19% and not submit a 29% strength number and not be rejected for not submitting for the other two strengths?

Answer

The different strengths are not optional bid items, so a vendor might be eliminated from further consideration if prices are not submitted for each strength. Please review section 2.4 Bid Pricing.

- 1.2** What are the current prices for each location?

Answer

The prices for each location from the previous two bids are available in Planet Bids. Please reach out to Planet Bids' vendor services regarding how to access them.

- 1.3** What date/time will the last addenda be posted after the 2/16 at 4:00pm Q&A deadline?

Answer

Addenda will be posted by 4pm on 2/17/2023.
