



SWEETWATER AUTHORITY

505 GARRETT AVENUE
CHULA VISTA, CALIFORNIA 91910
(619) 420-1413
FAX (619) 425-7469
www.sweetwater.org

GOVERNING BOARD

MANNY DELGADO, CHAIR
DITAS YAMANE, VICE CHAIR
STEVE CASTANEDA
ELIZABETH COX
HECTOR MARTINEZ
PAULINA MARTINEZ-PEREZ
RON MORRISON

CARLOS QUINTERO
GENERAL MANAGER

ROBERTO YANO
ASSISTANT GENERAL MANAGER

REQUEST FOR QUOTE

Request No.: 2025-002

Date Issued: **Friday, May 9, 2025**

Bid Due Date: **Wednesday, June 4, 2025 at 3:00 P.M.**

SWEETWATER AUTHORITY

Sweetwater Authority (Authority) was formed in 1977 as a joint-powers agency between the City of National City and the South Bay Irrigation District. Governed by a seven-member Board of Directors, the Authority is a publicly-owned water agency that serves potable water to a population of approximately 200,000 in the City of National City, the western portion of the City of Chula Vista, and the unincorporated areas of Bonita and Lincoln Acres in San Diego County, CA. The Authority's service area covers approximately 36 square miles.

All provisions of law applicable to public contracts will be made part of the final contract to the same extent as though set forth herein, and will be complied with by the successful bidder.

Sweetwater Authority encourages participation by local, small, and/or disadvantaged businesses.

THE DESIRED SERVICE

This Request for Quote (RFQ) is inviting companies to submit a Bid for the purchase and installation of a stainless-steel vertical turbine pump in a brackish groundwater well. The existing pump has been removed and cannot be repaired. Your bid should include all costs for materials, labor, freight, and taxes required to complete the project as outlined below.

The selected contractor will need to sign the Authority's standard Purchase Order Terms and Conditions. Any exceptions to the Terms and Conditions should be noted in your bid. Please ensure that all services adhere to the bid pricing for each project and comply with the Terms and Conditions.

SCOPE OF WORK

The scope of work for the procurement and installation of the well pump at San Diego Formation Well No. 11 (SDF Well No. 11) includes the following:

- Mobilization and Demobilization
- Procure a new Goulds 13CHC or SIMFLO 11H stainless steel vertical turbine bowl assembly.



- Cut and re-thread eighteen (18) column pipe and shaft to match the new column lengths. Note that the shafts will be reused.
- Purchase and install one (1) 77-inch long head shaft.
- Purchase and phenolic line seventeen (17) new couplings
- Recondition and phenolic line fifteen (15) existing couplings.
- Recondition the head nipple in the discharge head.
- Replace thirty-two (32) shaft retainers and inserts.
- Recondition the mechanical seal and seal gland.
- Install the pump equipment.

PRE-BID MEETING

A **mandatory** Pre-Bid Meeting shall take place at the Brax Company, Inc., located at 31248 Valley Center Road, Valley Center, CA 92082 on **Thursday, May 15, 2025 at 10:00 A.M.**

LICENSE REQUIREMENTS

Each Bidder shall be a licensed contractor pursuant to the Business and Professions Code and shall be licensed in the following appropriate classification(s) of contractor's license(s), for the work bid upon, and must maintain the license(s) throughout the duration of the Contract:

C-57 – WELL DRILLING CONTRACTOR

INSTRUCTIONS TO PROPOSER

Questions

Please submit any and all questions concerning the scope of work, or the preparation of your quotation, through the PlanetBids Question portal. Questions are due on or before **Wednesday, May 28, 2025 at 3:00 P.M.**

Bid Submittals

All responses to this Request for Quotation must be received through the PlanetBids submission portal no later than:

Wednesday, June 4, 2025 at 3:00 P.M.

Late Bids will not be considered, and will be rejected in the PlanetBids portal.

Bid Addendums

Do not rely on any oral or telephonic changes or modifications. All changes and modifications will be confirmed in writing by an authorized Sweetwater Authority representative. All bid addendums shall be expressly acknowledged and included with your bid response. Bidders should check

the PlanetBids website (<https://vendors.planetbids.com/portal/69501/bo/bo-detail/129773>) for any and all Addenda, changes to the Bid information, or announcements.

Bid Validity

Bids are valid for ninety (90) days from opening.

Evidence of Responsibility

Upon request by the Authority, a bidder shall submit promptly, to the Authority's satisfaction, evidence showing the bidder's financial resources, experience, qualifications, available organizational resources, and any other information or qualifications that may be required to determine the bidder's responsibility, ability, and capability to perform under any resulting contract.

Withdrawal of Proposals

A bidder may withdraw or revise (by withdrawal of one bid and submission of another) a bid, provided that the bidder's request for withdrawal is received by the PlanetBids submission portal before the time specified for opening bids. Revised bids must be submitted as specified herein. The request for withdrawal shall be executed by the bidder or by his duly authorized representative.

Proposal Forms

Proposals must be submitted on prepared forms supplied by the Authority. The original RFQ or a copy of the RFQ does not need to be returned with the proposal, unless exceptions or comments are noted within the document. Mistakes must be crossed out, corrections inserted adjacent thereto, and initialed in ink by the person signing the quotation.

Proposals submitted in response to this RFQ shall include:

1. Bidder Response Section

Complete and return the Bidder Response Section. The Bidder Response Section must be signed by the officer or officers legally authorized to bind the company, partnership, or corporation. All responses must be typewritten or in ink. No pencil figures or erasures are permitted. Mistakes must be crossed out, corrections inserted adjacent thereto, and initialed in ink by the person signing the quotation.

2. Evidence of Insurance:

Include proof of insurance for all insurance coverage required by the Agreement. Original certificates naming the Authority as additionally insured will be required upon award of contract.

3. Statement of Bidder's Qualifications and References:

Bidder shall provide information demonstrating that the Bidder's company has the qualifications and experience capability to perform the requirements of this proposal. Include references for two customers that were similar to this project.

Right to Waive or Reject

The Authority reserves the right to reject any or all proposals/bids or to waive any minor irregularities in any proposal/bid or in the bidding process. The Authority reserves the right to

INSURANCE REQUIREMENTS

PRIOR to performing services for Sweetwater Authority, the Authority must have current certificates of Insurance on file for all companies, contractors, and consultants. Suppliers providing product only are not required to have insurance.

Insurance Requirements: Commercial General Liability and Automobile Liability Insurance - The Contractor shall provide and maintain the following commercial general liability and automobile liability insurance:

Coverage: Coverage for commercial general liability and automobile liability insurance shall be at least as broad as the following:

1. Insurance Services Office (ISO) Commercial General Liability Coverage (Occurrence Form CG 0001)
2. Insurance Services Office (ISO) Business Auto Coverage (Form CA 0001), Covering Symbol 1 (any auto)

Limits: The Contractor shall maintain limits no less than the following:

1. General Liability: One million dollars (\$1,000,000) per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit or products-completed operations aggregate limit is used, either the general aggregate limit shall apply separately to the project/location (with the ISO CG 2503, or ISO CG 2504, or insurer's equivalent endorsement provided to the Sweetwater Authority) or the general aggregate limit and products-completed operations aggregate limit shall be twice the required occurrence limit.
2. Automobile Liability: One million dollars (\$1,000,000) for bodily injury and property damage each accident limit.

Required Provisions: The general liability policy is to contain, or be endorsed to contain, the following provisions:

1. The Sweetwater Authority, its directors, officers, employees, and authorized volunteers are to be given insured status (via ISO endorsement CG 2010, CG 2033, or insurer's equivalent for general liability coverage) as respects: liability arising out of activities performed by or on behalf of the Contractors; products and completed operations of the Contractor; premises owned, occupied or used by the Contractor; and automobiles owned, leased, hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the Sweetwater Authority, its directors, officers, employees, or authorized volunteers.
2. For any claims related to this project, the Contractor's insurance shall be primary insurance as respects the Sweetwater Authority, its directors, officers, employees, or authorized volunteers. Any insurance, self-insurance, or other coverage maintained by the Sweetwater Authority, its directors, officers, employees, or authorized volunteers shall not contribute to it.
3. Any failure to comply with reporting or other provisions of the policies including breaches of warranties shall not affect coverage provided to the Sweetwater Authority, its directors, officers, employees, or authorized volunteers.
4. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
5. Each insurance policy required by this agreement shall state, or be endorsed to state, that coverage shall not be canceled by the insurance carrier or the Contractor, except after thirty (30) days (10 days for non-payment of premium) prior written notice by U.S. mail has been given to the Sweetwater Authority.

Such liability insurance shall indemnify the Contractor and his/her sub-contractors against loss from liability imposed by law upon, or assumed under contract by, the Contractor or his/her sub-contractors for damages on account of such bodily injury (including death), property damage, personal injury, completed operations, and products liability.

The general liability policy shall cover bodily injury and property damage liability, owned and non-owned equipment, blanket contractual liability, completed operations liability, explosion, collapse, underground excavation, and removal of lateral support.

The automobile liability policy shall cover all owned, non-owned, and hired automobiles.

All of the insurance shall be provided on policy forms and through companies satisfactory to the Sweetwater Authority.

Deductibles and Self-Insured Retentions: Any deductible or self-insured retention must be declared to and approved by the Sweetwater Authority. At the option of the Sweetwater Authority, the insurer shall either reduce or eliminate such deductibles or self-insured retentions.

Acceptability of Insurers: Insurance is to be placed with insurers having a current A.M. Best rating of no less than A-VII or equivalent or as otherwise approved by the Sweetwater Authority.

Workers' Compensation and Employer's Liability Insurance: The Contractor and all sub-contractors shall insure (or be a qualified self-insured) under the applicable laws relating to workers' compensation insurance, all of their employees working on or about the construction site, in accordance with the "Workers' Compensation and Insurance Act", Division IV of the Labor Code of the State of California and any Acts amendatory thereof. The Contractor shall provide employer's liability insurance with limits of no less than \$1,000,000 each accident, \$1,000,000 disease policy limit, and \$1,000,000 disease each employee.

Professional Liability: Coverage must be appropriate to the Consultants profession covering Consultant's wrongful acts, negligent actions, errors or omissions. Coverage limits shall be at least \$1,000,000 per claim and annual aggregate. The retroactive date (if any) is to be no later than the effective date of this agreement. Consultant shall maintain such coverage continuously for a period of at least three years after the completion of the contract work. Consultant shall purchase a one-year extended reporting period i) if the retroactive date is advanced past the effective date of this agreement; ii) if the policy is canceled or not renewed; or iii) if the policy is replaced by another claims-made policy with a retroactive date subsequent to the effective date of this agreement.

Garage Liability and Garage Liability: When applicable Supplier should provide the following: Garage Liability ISO form CA 0005 or equivalent can be provided in lieu of General Liability. However, coverage shall have minimum limits of \$1,000,000 each occurrence and \$2,000,000 aggregate. Automobile insurance included in Garage Liability must be noted on the certificate with the Class Number. A certification showing "Garage Keepers" coverage in the amount of 1,000,000 to cover damage to vehicles.

Evidences of Insurance: Prior to execution of the agreement, the Contractor shall file with the Sweetwater Authority a certificate of insurance (Accord Form 25-S or equivalent) signed by the insurer's representative evidencing the coverage required by this agreement. Such evidence shall include an additional insured endorsement signed by the insurer's representative. Such evidence shall also include confirmation that coverage includes or has been modified to include Required Provisions 1-5. The Contractor shall, upon demand of the Sweetwater Authority, deliver to the Sweetwater Authority such policy or policies of insurance and the receipts for payment of premiums thereon.

TERMS AND CONDITIONS

1. **Governing Law:** All orders shall be deemed to be made in the County of San Diego, State of California and shall in all respects be construed and governed by the laws of California. Any action brought to enforce the terms and conditions shall be brought in a state or federal court in the County of San Diego.
2. **Entire Agreement:** All orders may be accepted only on the terms and conditions set forth herein or incorporated herein by reference or set forth on any attachment hereto. Terms in Supplier's acceptance in addition to or not identical with such terms will not become a part of this contract, unless agreed to in writing by authorized agent of Authority.
3. **Acceptance/Inspection:** The goods or services furnished by Supplier shall be exactly as specified in the order, free from all defects in design, workmanship and materials and are subject to inspection and testing by Authority or its authorized representative. Delivery does not constitute acceptance. Authority may reject nonconforming goods or service.
4. **Substitutions, Changes and Prices:** Authority may make changes within the general scope of an order by giving written notification to Supplier. If such change affects the cost of or the time to deliver or perform under the order, an equitable adjustment in price, delivery, or both will be made. No changes by Supplier shall be recognized unless agreed to in writing by an authorized agent of Authority. Any claim of Supplier for an adjustment in price, delivery, or both must be made in writing within fifteen (15) calendar days from the date of notification by Authority. Under no circumstance should Supplier stop performance of this order as changed.
5. **Prevailing Wages:** Pursuant to prevailing wage, Contractor shall pay Contractor's employees and subcontractors the prevailing wage for any and all construction and/or development related work performed in connection with this agreement. Contractor shall indemnify, defend, hold harmless Authority, its officers, agents, employees and volunteers from all fines, suits, procedures, claims and actions of every kind, and all costs associated therewith arising out of or in any way connected with Contractor's failure to pay prevailing wage. Prevailing wage shall be as determined by the Director of the Department of Industrial relations in accordance with the standards set forth in Section 1770 et SEQ. of the Labor Code. Pursuant to labor code Section 1771, prevailing wages do not apply to jobs under \$1,000.
6. **All Shipments are F.O.B. Delivered:** Supplier assumes full responsibility for all transportation, transportation scheduling, packing, handling, insurance, and other services associated with delivery of all products deemed necessary under this Purchase Order. Delivery does not constitute acceptance.
7. **Payment:** The time period allowed for payment as indicated on the face hereof or offered by quote or bid, shall commence upon receipt of Supplier's invoice or upon receipt of the goods, whichever is later. All shipping documents and invoices must reference Authority Purchase Order number in order to be processed. Orders delivered directly to job sites may require proof of delivery prior to payment. Acceptable proof is a signed packing slip acknowledging delivery.
8. **Packaging:** Packaging must be of sufficient quality and strength to adequately protect the goods against jolting, rough handling, accidents, and all other dangers inherent in the movement, handling, transportation, and storage of the goods.
9. **Material Safety Data Sheets (MSDS):** Supplier shall provide a MSDS for each product that contains hazardous substances as defined by Cal OSHA. Additionally, Supplier shall indemnify and hold harmless Authority from and against all losses, costs, fees, liabilities and damages that Authority may suffer as a result of Supplier's failure to comply with the above requirement.
10. **AWWA Standards and Approved Materials List:** All materials and fittings must meet or exceed AWWA specifications and be listed in Sweetwater Authority's Approved Materials List - revised November 2008 is incorporated herein and made a part hereof by this reference. If you do not have a copy, a copy can be obtained by calling Engineering at 619-420-1413 or Purchasing at 619-409-6872.

- 11. Markings on Fittings:** All ductile-iron fittings shall have distinctly cast on the outside of the body the identity of the standard; the pressure rating; nominal diameter of the openings; manufacturer's identification; the country where cast; the letters DI or word "Ductile"; and the number of degrees or fraction of the circle on all bends.
- 12. Assembly Bill 1953:** All bronze components in contact with potable water shall be low lead in accordance with Assembly Bill 1953 (AB1953), excluding service saddles, backflow preventers for non-potable service, such as irrigation and industrial, and water distribution main gate valves that are greater than two inches.
- 13. Artwork, Designs, Etc.:** If the goods are to be produced by Supplier in accordance with designs, drawings or blueprints furnished by Authority, Supplier shall return same to Authority upon completion or cancellation of this Purchase Order. Any materials, equipment, tools, artwork, designs or other properties furnished by Authority or specifically paid for by Authority shall be Authority's property.
- 14. Warranty and Quality Inspection:** Supplier warrants that all articles, materials and work furnished shall be new, unused, and free from defects and of a good quality. They shall conform to drawings and/or specifications and shall be merchantable quality and fit for the purpose for which purchased, and shall be at all times subject to Authority's inspection; but neither Authority's inspection nor failure to inspect shall relieve Supplier of any obligation hereunder. If, in Authority's opinion, any article, material or work fails to conform to specifications or otherwise defective, Supplier shall promptly replace same at Supplier's expense. No acceptance or payment by Authority shall constitute a waiver of the forgoing, and nothing herein shall exclude or limit any warranties implied by law.
- 15. Change Orders:** Authority shall have the right to revoke, amend or modify this Purchase Order at any time. Supplier's receipt of Authority's written change order without response received by the Authority within ten days or Supplier's shipment or other performance reflecting the change, whichever occurs first, shall be Supplier's acceptance of the change without any price or other adjustments.
- 16. Right to Cancel:** Authority shall have the right to cancel at any time for Supplier's breach of any provisions of this order, including failure to meet their stated delivery schedule. Authority may cancel all or any portion of this order if Supplier, in Authority's judgment, is failing to make sufficient progress as to endanger performance of this order in accordance with its terms.
- 17. Changes:** Authority may make changes within the general scope of this order by giving written notification to Supplier. If such changes affect the cost of or the time to deliver or perform under this order, an equitable adjustment in price, delivery, or both will be made. No changes by Supplier shall be recognized unless agreed to in writing by an authorized agent of Authority. Any claims of Supplier for an adjustment in price, delivery, or both must be made in writing within fifteen (15) calendar days from the date of notification by Authority. Under no circumstance should Supplier stop performance of this order as changed.
- 18. Termination:**
 - A. Convenience:** With a thirty (30) day written notice stating the extent and effective date, Authority may terminate this order for convenience in whole or in part, at any time without any further cost to Authority except for goods or services provided. Typically, termination is for changes in needs, funding, or unsatisfactory performance.
 - B. Default:** With a thirty (30) day written notice stating the extend, effective date, and reason, Authority may terminate this order for Supplier's default, in whole or in part, at any time, if Supplier refuses or fails to comply with provisions of this order, or fails to make sufficient progress which will endanger performance in Authority opinion and does not cure such failure within a reasonable period of time, or fails to make deliveries of goods or perform services within the time specified or within any written extension thereof. In such an event, Authority may:
 1. Require immediate delivery of conforming goods or require Supplier to repair nonconforming goods or re-perform nonconforming work at Supplier's own expense to bring nonconforming goods or services into conformance;
 2. Rework the conforming goods or services with Authority's staff or authorized representatives to bring the goods or services into conformance and reduce the price paid to Supplier by Authority's cost;

3. Seek reimbursement or deduct from any payments due for any additional cost incurred including staff time to locate conforming goods or services.

In addition to the above remedies, Authority may seek any other legal remedies available to it.

19. **Default:** If Supplier willfully violates any of the conditions or covenants of the Purchase Order, including refusal or failure to prosecute the Work or any separable part thereof with diligence and in accordance with the schedule specified by the Purchase Order, or if Supplier should be adjudged a bankrupt, or if Supplier should make a general assignment for the benefit of Supplier's creditors, or if a receiver should be appointed on account of Supplier's insolvency, or Supplier or any of Supplier's subcontractors should violate any of the provisions of this Purchase Order, Authority may serve written notice upon Supplier of Authority's intention to terminate this Purchase Order. This notice of intent to terminate shall contain the reasons for such intention to terminate this Purchase Order, and a statement to the effect that Supplier's right to perform this Purchase Order shall cease and terminate upon the expiration of ten (10) days unless such violations have ceased and arrangements satisfactory to Authority have been made for correction of said violations.
20. **Title:** Supplier warrants that any article, material or work is free and clear of all liens and encumbrances whatsoever, and that Supplier has a good and marketable title to same, and Supplier agrees to hold Authority free and harmless against any and all claimants to said article, material or work. Title to the materials and supplies purchased hereunder shall pass to the Authority at the F.O.B. point designated on the face hereof, subject to the right of Authority to reject upon inspection.
21. **Patent Indemnity:** Supplier agrees to indemnify Authority, its officers, board members, employees, and authorized volunteers against liability of any kind including the costs and expenses incurred for the use of any invention or discovery and for the infringement of any patent occurring in the performance of this order or arising by reason of the use or disposal by or for the account of Authority of items manufactured or supplied under this order except items manufactured to detailed specifications supplied by Authority.
22. **Assignment/Subcontracting/Independent Contractor Status:** No performance of this Purchase Order or any portion thereof may be assigned or sub-contracted by the Supplier without the express written consent of Authority, which may be withheld for any reason. Any attempt by Supplier to assign or sub-contract any performance of this Purchase Order without the express written consent of Authority shall be invalid and shall constitute a breach of this Purchase Order. Supplier is retained as an independent contractor and is not an employee of Authority. No employee or agent of Supplier shall become an employee of Authority.
23. **Compliance with Law:** Supplier warrants that it will comply with all federal, state, and local laws, ordinances, rules and regulations applicable to its performance under this Purchase Order and procure all permits and licenses, pay all charges and fees.
24. **Safety:** All equipment and materials shall comply with all Federal, State and local safety rules and regulations including OSHA.
25. **Waiver:** Any action or inaction by Authority shall not constitute a waiver of any rights or remedy available herein or by law. The failure of Authority to enforce at any time any of the provisions of this order or to exercise any option provided herein, or to require at the any time performance of any of the provisions hereof, shall in no way be construed to be a present or future waiver of such provisions, nor in any way to affect the validity of this order or any part thereof, or the right thereafter to enforce each and every provision.
26. **Force Majeure:** Neither Authority or Supplier shall be liable for failure to perform its obligations under this order where such failure is a result from any act of God or other cause beyond its reasonable control.
27. **Indemnification:** Supplier shall indemnify, defend and hold harmless Authority against and from any and all claims or suits for damages or injury arising from Supplier's performance of this Purchase Order or from any activity, work, or thing done, permitted or suffered by Supplier in conjunction with the performance of this Purchase Order, and shall further indemnify, defend and hold harmless Authority against and from any and all claims or suits arising from any breach or default of any performance of any obligation of Supplier hereunder, and against and from all costs, attorney's fees, expenses and liabilities related to any claim or any action or proceeding brought within the scope of this indemnification.

- 28. Taxes:** Unless otherwise provided herein or required by law, Supplier, except out-of-state*, assumes exclusive liability for, and shall pay before delinquency, all sales, use, excise and other taxes, charges or contributions of any kind now or hereafter imposed on or with respect to, or measured by the articles sold or material or work furnished hereunder on the wages, salaries or other remuneration's paid to persons employed in connection with the performance of this Purchase Order; and Supplier shall indemnify and hold harmless Authority from any liability and expense by reason of Supplier's failure to pay such taxes or contributions.
- 29. Insurance:** Supplier shall take out and maintain, during the performance of all work under this Purchase Order, Commercial General, Automobile and Worker's Compensation Liability Insurance at policy limits and with insurance companies acceptable to Authority. Evidence of insurance shall be provided to Authority before work commences.
- 30. Liquidated Damages:** If delivery does not occur on schedule it is understood that Authority will suffer damage. It being impractical and infeasible to determine the amount of actual damage, it is agreed that Supplier shall pay to Authority, as liquidated damages not as a penalty, the sum of three hundred (\$300.00) dollars per day for each and every calendar day delay in finishing the contract and/or failing to deliver the equipment.
- 31. Severability:** The unenforceability, invalidity or illegality of any provision of these terms and conditions shall not render the other provisions unenforceable, invalid or illegal.

*Out-of-state Suppliers without a California Sales and Use Tax Permit should not include sales tax on their invoice. Authority will pay the use tax directly to the California State Board of Equalization.

BIDDER'S RESPONSE SECTION

**RFQ: PUMP INSTALLATION SERVICES
FRIDAY, MAY 9, 2025**

Company Information

Submittal Date: _____

Name of Company: _____

Address: _____

Type of firm (check one): Individual Partnership Corporation

Signature: _____

Name (please print): _____

Title: _____

E-Mail: _____

Phone Number: _____

Contractor's License Information

Primary Class: _____

License Number: _____

License Expiration: _____

Exceptions to Specifications: _____

STATEMENT OF BIDDER'S QUALIFICATIONS

The following statements, as to the experience and qualifications of the Bidder, are to be submitted with the Bid, as a part thereof. The truthfulness and accuracy of the information is guaranteed by the Bidder.

In performing the responsibility determination, the Authority reserves the right to utilize all possible sources of information in making its determination, including but not limited to: inquiries to companies and public entities for which the Contractor has previously performed work, reference checks, and examination of all public records.

1. The Bidder has been engaged in the business, under the present business name for _____ years. Experience in work of a nature similar to that covered in the Scope of Work extends over a period of _____ years.
2. Please provide a brief description of the background and experience of your technicians, including certifications and training.

3. Have you ever failed to complete any work awarded to you, or defaulted on a contract? _____
If so, please explain where and why:

4. List of Completed Projects – Last 5 years:

Please include only those projects which are similar enough to demonstrate Contractor's ability to perform the required Work. The Authority is seeking to confirm the Contractor's experience through verification of at least three projects completed within the last five years, which involved water facility work similar in scope and value as the proposed project and which connected to the public water system.

Project	Description of Contractor's work	Owner/Contact Information	Completion Date	Contract Value

5. Additional information: Any other relevant information that supports the proposal:

ATTACHMENT NO. 1

**GOULDS WATER TECHNOLOGY AND SIMFLO
TECHNICAL SPECIFICATIONS**

PERFORMANCE ON DESIGN CURVE AT 1770 RPM

	Shut Off	Design [2]	Run Out [5]		
Flow (USGPM)	0.0	1500.0	1639.0	Best Efficiency	78.20 % at 1181.0 USgpm
TDH-Bowl (ft)	561.0	371.0	317.0	Design Flow % BEP	127.01 %
TDH-Disch Flange (ft)	561.0	370.6	315.7	Pump Efficiency	74.51 %
Bowl Efficiency (%)	-	74.80	67.70	Overall Efficiency	0.00 %
Power (Hp)	141.0	188.0	194.0	NOL Power	194.0 Hp at 1639.0 USgpm
NPSHr (ft) [1]	-	20.7	25.5	Specified NPSH Ratio	1.1
NPSH Margin (ft) [1]	-	16.8	12.0	Thrust Load Power Loss	0.49568 Hp
Hydraulic Thrust(lb)	5329.0	3524.0	3011.0	Total Flow Derate Factor	0.94
Thrust (lb)	5713.6	3849.4	3319.6	Total Head Derate Factor	0.94
Pressure-Bowl (psi)	242.9	160.6	137.2	Total Efficiency Derate Factor	0.94
Pressure-Disch Flange (psi)	242.9	160.4	136.6	Actual Submergence	81.04 in
Min Submergence (Inch) [3]	-	32.14	33.97	Shaft Friction Power Loss	0.00 Hp
Friction Loss (ft) [4]	-	0.45	0.53	Min Flow (MCSF)	295.0 USgpm
Lineshaft Elongation (Inch)	0.00000	0.00000	-	kWh per 1000 gal	0.00000
Column Elongation (Inch)	0.00000	0.00000	-	Impeller Running Clearance	0.13 in
Lateral (Inch)	0.13000	0.13000	-		

[1] at 1st impeller eye [2] rated values [3] from pump suction inlet [4] from bowl to disch flange [5] per published data

OPERATING CONDITIONS

Specified Flow	1500.00 USgpm
Specified TDH	368.00 ft
Rated Speed	1770 RPM
Atmospheric Pressure	14.70 psi
TPL	9.25 ft
NPSHa at 1st Impeller	37.5 ft
NPSHa at Grade	34.0 ft
Well Diameter	16 in [406 mm] Casing
Operational Design	Constant Speed

FLUID CHARACTERISTICS

Fluid	Water
Fluid Temperature	68.0 °F
Specific Gravity	1.0000
Viscosity	1.0017 cP
Vapor Pressure	0.3393 psi
Density	62 lbs/ft ³

MATERIALS & DIMENSIONS

Bowl Data

Bowl Material	316LSS
Impeller Material	316LSS
Bowlshaft Material	316SS
Impeller Attachment	Taper Lock
Taperlock Material	316SS
Discharge Bowl Material	316LSS
Suction Type	Bowl
Suction Material	316LSS
Bowl Bolting Material	316SS
Suction Bearing	Vesconite
Discharge Bowl Bearing	Vesconite
Intermediate Bowl Bearing	Vesconite

Bowl Data

Strainer Type	Cone Strainer
Strainer Material	316LSS
Impeller Trim	9.06 in
Bowl Pressure Limit	910 psi
Model Max Sphere Size	0.94 in
Available Lateral	0.85 in
Bowl Shaft Diameter	1 15/16 in [49.2 mm]
Impeller Balance	Manufacturer's Standard
Impeller Design	Enclosed
Bowl Shaft Power Limit	389.12 Hp
Bowl Assembly Provided By	Xylem

Bowl Specials

Column Data

Column Type	Threaded
Column Diameter	10 in [254 mm]

Column Data

Lineshaft Diameter	1 11/16 in [42.9 mm]
Lineshaft Coupling Type	Threaded

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED

Certified By	
Project	SDF11
Tag	
PO Number	
Serial Number	



SUBMITTAL

Quote ID: 3302-250219-008:0:1 QTY: 1
 DWT-BAT 13CHC, 6 Stages
 Brax Company

Column Data

Lineshaft Coupling Material	316SS
Lubrication Method	(Open LS) Product Lube

Column Data

Column Assembly Provided By	Customer
-----------------------------	----------

Motor Data

Driver Type	Vertical Hollow Shaft Motor
Motor Provided By	Customer

Motor Data

Motor Mounted By	Customer
------------------	----------

Motor Specials

Coating Data

Testing Data

Accessories

Engineering Services

Engineering Services Notes

Miscellaneous Specials

Assembly and Crating

Assembly	Fully Assembled
Crating	Domestic Skid

Assembly and Crating Notes

In general, pumps are crated and shipped fully assembled* via standard freight methods (LTL/LCL) if overall crated length is 20 ft or less and weight is 2500 lbs or less. Up to 45 ft and 4000 lbs can still be fully assembled but will ship via dedicated freight methods (FTL/FCL/flatbed/air/special). Otherwise, each sub-assembly (bowl, column, and head) is crated separately ("column loose"). *Motors, suction cans, mechanical seals, spare parts, and other special items are crated separately. Coordinate specific expectations with the factory at time of order.

Weight Data

Total Bowl Weight	1079 lbs
-------------------	----------

Weight Data

Total Weight	1079 lbs
--------------	----------

Comments

INFO, WARNING & ERROR MESSAGES

Our offer does not include specific review and incorporation of any Statutory or Regulatory Requirements, and the offer is limited to the requirements of the design specifications. Should any Statutory or Regulatory requirements need to be reviewed and incorporated, then the Customer is responsible to identify those and provide copies for review and revision of our offer.

For Xylem issued engineering submittal documents not reviewed, and approved, within 30 days from the date of issuance, Xylem reserves the right to revise and update the pricing of the project accordingly. Delays in approval may result in adjustments to the originally quoted prices, to account for any changes in material costs, labor rates, or other relevant factors that may affect the overall quoted price.

Our quotation is offered in accordance with our comments and exceptions identified in our proposal and governed by our standard terms and conditions of sale – Xylem Americas. Available here: <https://www.xylem.com/en-us/support/xylem-americas-standard-terms-and-conditions/>

The prices set forth in this Agreement/Quote are based on the tariff rates, duties, government charges, and trade regulations in effect as of the Effective Date of this Quote. If, after the Effective Date, any new tariffs, duties, taxes, or similar charges

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED

Certified By	
Project	SDF11
Tag	
PO Number	
Serial Number	



SUBMITTAL

Quote ID: 3302-250219-008:0:1 QTY: 1
DWT-BAT 13CHC, 6 Stages
Brax Company

are imposed, or any existing tariffs, duties, or charges are increased or modified by any government or regulatory authority (collectively, "Tariff Changes"), and such Tariff Changes result in an increase in the cost of goods, Xylem reserves the right to adjust the pricing of the affected goods to reflect the increased costs. Xylem is not obligated to deliver the goods and/or services until an agreement on the new price has been reached.

For units requiring a factory performance test, all performance tests will be conducted per ANSI/HI 14.6 standards unless otherwise noted. As a standard, test results for the primary design point meeting grade 2B tolerances for pumps with a rated shaft power of 134 hp or less and grade 1B for greater than 134 hp will be considered passing. If secondary or tertiary design points are required to be tested, these will be subject to grade 3B tolerances. For testing of more than 3 points, consult the factory. Other acceptance grades are available and must be clearly noted and mutually agreed upon between the Customer and Xylem before release to manufacture.

Holding shipment for testing approval allows 2 weeks of calculated production lead time for the approval process. If shipment approval has not been obtained by 4 weeks after submission of passing test results, Xylem reserves the right to ship product on purchase orders less than or equal to \$10,000 USD without explicit approval, or to impose storage fees until shipment approval is granted on purchase orders greater than \$10,000 USD. For planned approval processes exceeding 2 weeks, please consider that additional lead time and coordinate expectations with the factory, including storage fees. For faster shipment, select "No" to the hold shipment for testing approval option.

For units not requiring a factory performance test, product performance can be expected to meet 3B tolerances primarily due to the variability of field conditions. Field-measured performance may vary from factory-measured performance or published data as a result of unknown or unpredictable system conditions and measurement variability. If field performance testing is required after installation, factory performance testing before shipment is strongly recommended. Field performance test results do not constitute a warranty claim unless verified by Xylem.

The information provided in this submittal is published data nominally representative of the selected pump model's performance characteristics. If factory performance testing is included, actual as-tested performance curves for each tested pump will be provided after testing is complete. Impeller trim diameter is subject to change to meet intended design conditions.

Special requests are subject to further review after receipt of customer purchase order during the factory's order entry and design engineering processes. If NSF 61 certified construction is required, an additional audit will be completed. The Xylem team will communicate any discrepancies and possible changes. Xylem certifies that the materials specified with a NSF 61 certified construction are in compliance with NSF/ANSI/CAN 61 Drinking Water System Components - Health Effects. In compliance with NSF, Xylem vertical turbine pumps are assembled in NSF certified facilities in our Vertical Turbine Global Center of Excellence in Lubbock, TX, or our Vertical Column Pump factory in Pewaukee, WI. For more information, see our official listing here: <https://info.nsf.org/Certified/PwsComponents/Listings.asp?Company=1D860&Standard=061>

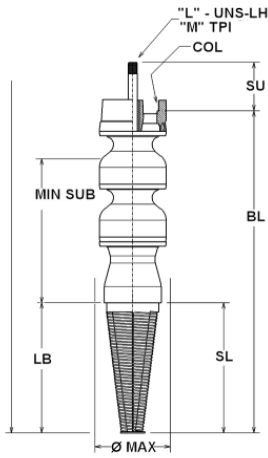
Customer is responsible for verifying that the recommendations made and the materials selected are satisfactory for the Customer's intended environment and Customer's use of the selected pump. Customer is responsible for determining the suitability of Xylem recommendations for all operating conditions within Customer's and/or End User's control. Xylem disclaims all warranties, express or implied warranties, including, but not limited to, warranties of merchantability and fitness for a particular purpose, and all express warranties other than the limited express warranty set forth in the attached standard terms and conditions of sale – Xylem Americas attached hereafter.

Xylem does not guarantee any pump intake configuration. The hydraulic and structural adequacies of these structures are the sole responsibility of the Customer or his representatives. Further, Xylem accepts no liability arising out of unsatisfactory pump intake field operating conditions. The Customer or his representatives are referred to the Hydraulic Institute Standards for recommendations on pump intake design. To optimize the hydraulic design of a field pump intake configuration, the Customer should strongly consider performing a detailed scale model pump intake study. However, the adequacies of these recommendations are the sole responsibility of the Customer.

Xylem's standard enamel paint offering is a coating applied at no extra charge and is intended to provide a limited cosmetic improvement over the bare metal product. The coating will not prevent rust, corrosion, or fading. Fading, flaking, chipping, or bleeding rust can be expected within 3 months of exposure to weather or other elements. For applications where visual aesthetics or corrosion resistance is important, please consider one of our protective coating options.

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED

Certified By	
Project	SDF11
Tag	
PO Number	
Serial Number	



DIMENSIONS

Column Diameter	10.00 in
TPL [Total Pump Length]	111.04 in
MIN SUB [Minimum Submergence]	32.14 in
LB [Length to Bottom]	30.00 in
MAX [Max Assembly OD]	12.38 in
BL [Bowl Assembly Length]	111.04 in
L [Shaft Turndown Size]	1.69 in
M [Threads Per Inch]	10
SU [Shaft Stickup]	8.00 in
SL [Suction Length]	29.88 in
Suction Bowl Size	10"

PUMP DATA

Column Diameter	10 in [254 mm]
Lineshaft Diameter	1 11/16 in [42.9 mm]
Specified Flow	1500.00 USgpm
Specified TDH	368.00 ft
Motor Manufacturer	
Driver Type	Vertical Hollow Shaft Motor
Motor Speed	1770 RPM

WEIGHTS

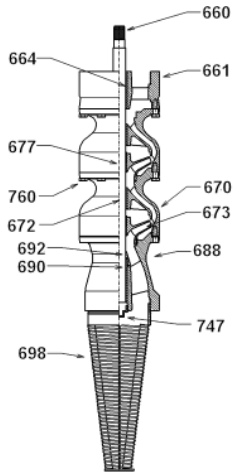
Total Bowl Weight	1079 lbs
Total Weight	1079 lbs

NOTES

1	Total Pump Length \pm 1.0 inch.
2	Tolerance on all dimensions is .12 or \pm .12 inch per 5 ft, whichever is greater.
3	All dimensions shown are in inches unless otherwise specified.
4	Drawing not to scale.
5	1/2" NPT - Gauge Conn (plugged)
6	Driver may be rotated at 90° intervals about vertical centerline for details refer to driver dimension drawing.
7	Refer to product IOM for impeller setting requirements.
8	This assembly has been designed so that its natural frequency responses avoid the specific operating speeds by an adequate safety margin. The design has assumed the foundation to be rigid.

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED

Certified By	
Project	SDF11
Tag	
PO Number	
Serial Number	

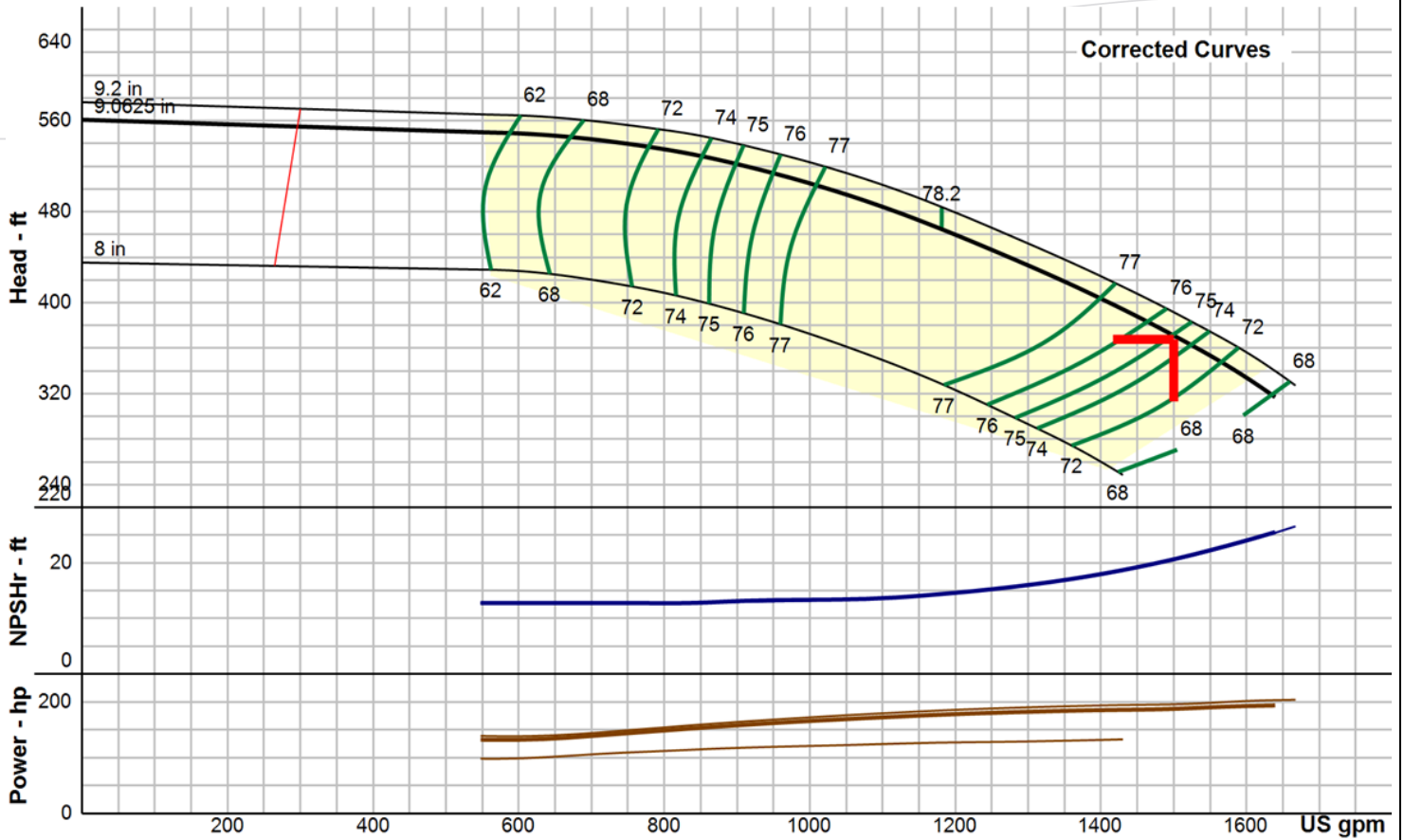


BILL OF MATERIALS

ITEM	PART NAME	CODE	MATERIAL	ASTM#
Bowl Assembly				
660	Bowlshaft	2216	SST 316	A276
661	Bowl - Discharge	1219	SST 316L	A743
664	Bearing - Discharge Bowl	6397	Vesconite H/L	None
670	Bowl - Intermediate	1219	SST 316L	A743
672	Bearing - Intermediate Bowl	6397	Vesconite H/L	None
673	Impeller	1219	SST 316L	A743
677	Taperlock - Impeller	2229	SST 316	A276
688	Suction	1219	SST 316L	A743
690	Bearing - Suction	6397	Vesconite H/L	None
698	Strainer	9722	SST 316L Fab	A182M
760	Capscrew - Hex	2298	Steel Bolting GR 8	J429

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED

Certified By	
Project	SDF11
Tag	
PO Number	
Serial Number	



Curve & hydraulic data presented is nominal performance based on ANSI/HI 14.6 acceptance grade 1B.
Design values are guaranteed within the following tolerances: Flow \pm 5%, Head \pm 3%, and optionally either Power + 4% or Efficiency - 3% at manufacturer's discretion.

Specified Flow	1500.00 USgpm	Shut Off TDH (Disch Flange)	561.0 ft	Design Curve	
Specified TDH	368.00 ft	Shut Off Pressure (Bowl)	242.9 psi	Allow Service Factor	No
Rated Speed	1770 RPM	Shut Off Pressure (Disch Flange)	242.9 psi	kWh per 1000 gal	0.00000
Atmospheric Pressure	14.70 psi	Run Out Flow	1639.0 USgpm	NPSHr at Design	20.7 ft
NPSHa at Grade	34.0 ft	Run Out TDH (Bowl)	317.0 ft	NPSH Margin at Design	16.8 ft
NPSHa at 1st Impeller	37.5 ft	Run Out TDH (Disch Flange)	315.7 ft	Min Submergence at Design	32.14 in
Fluid	Water	Run Out Pressure (Bowl)	137.2 psi	Actual Submergence	81.04 in
Fluid Temperature	68.0 °F	Run Out Pressure (Disch Flange)	136.6 psi	Thrust K-Factor	9.5 lbpft
Specific Gravity	1.0000	Bowl Efficiency at Design	74.80 %	Thrust at Design	3849.4 lb
Viscosity	1.0017 cP	Best Efficiency	78.20 %	Thrust at Shut Off	5713.6 lb
Vapor Pressure	0.3393 psi	BEP Flow	1181.0 USgpm	Thrust at Run Out	3319.6 lb
Density	62 lbs/ft ³	Design Flow % BEP	127.01 %	Bowl Material	316LSS
Design Flow	1500.0 USgpm	Pump Efficiency	74.51 %	Bowl Material Derate Factor	0.97
Min Flow (MCSF)	295.0 USgpm	Friction Loss at Design	0.45 ft	Impeller Material	316LSS
Design TDH (Bowl)	371.0 ft	Power at Design	188.0 Hp	Impeller Matl Derate Factor	0.97
Design TDH (Disch Flange)	370.6 ft	NOL Power	194.0 Hp	Total Flow Derate Factor	0.94
Design Pressure (Bowl)	160.6 psi	Max Power (NOL) Flow	1639.0 USgpm	Total Head Derate Factor	0.94
Design Pressure (Disch Flange)	160.4 psi	Recommended Power	200.0 Hp	Total Efficiency Derate Factor	0.94
Shut Off TDH (Bowl)	561.0 ft	Driver Size Criteria	NOL Power Across		

DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED

Certified By	
Project	SDF11
Tag	
PO Number	
Serial Number	

Company:
 Name: SP11H-6 - Max Imp Diameter
 Date: 05/06/2025



Pump:

Size: SP11H (stages: 6) Dimensions:
 Type: VERTTURBINE Suction: 8 in
 Synch Speed: 1800 rpm Discharge: 10 in
 Dia: 9.17 in Vertical Turbine:
 Curve: SP11H.05.T.4646.0823 Eye Area: 28.6 in²
 Impeller: SP11H Bowl Size: 11.2 in
 Specific Speeds: Ns: 3348 Max Lateral: 1.13 in
 Nss: 8085 Thrust K Factor: 15.1 lb/ft

Fluid:

Name: Water
 SG: 1 Vapor Pressure: 0.256 psi a
 Density: 62.4 lb/ft³ Atm Pressure: 14.7 psi a
 Viscosity: 1.1 cP
 Temperature: 60 °F Margin Ratio: 1

Pump Limits:

Temperature: --- Sphere Size: 1.19 in
 Wkg Pressure: 925 psi g Power: 596 hp

Motor:

Standard: US Size: 200 hp
 Enclosure: TYPE 1 Speed: 1800 rpm
 Frame: ---
 Sizing Criteria: Max Power on Design Curve

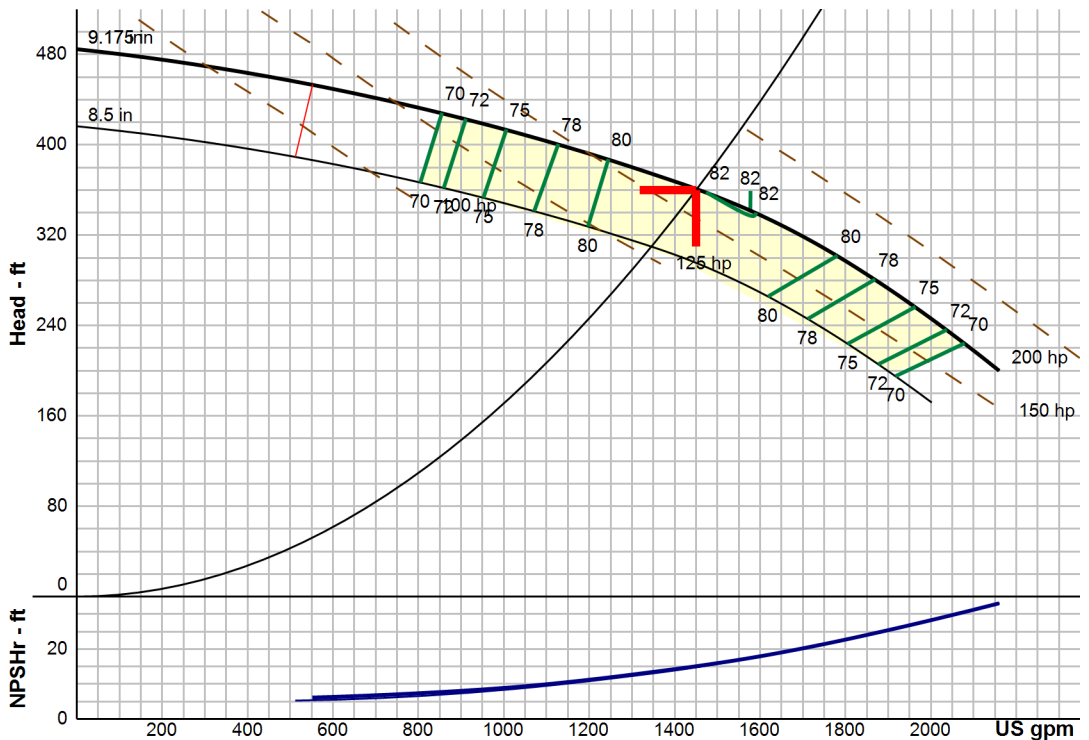
Search Criteria:

Flow: 1450 US gpr Near Miss: ---
 Head: 360 ft Static Head: 0 ft

Pump Selection Warnings:

None

--- Duty Point ---	
Flow:	1451 US gpm
Head:	361 ft
Eff:	81.8%
Power:	161 hp
NPSHr:	15.1 ft
Speed:	1770 rpm
--- Design Curve ---	
Shutoff Head:	485 ft
Shutoff dP:	210 psi
Min Flow:	552 US gpm
BEP:	82% @ 1577 US gpm
NOL Power:	
	170 hp @ 1868 US gpm
--- Max Curve ---	
Max Power:	
	170 hp @ 1893 US gpm



Nominal performance shall comply to ANSI/HI 14.6 2B/3B acceptance criteria and may be derated for materials of construction and/or specified acceptance grade. Consult factory. www.simflo.com / pump-flo@simflo.com

Performance Evaluation:

Flow	Speed	Head	Efficiency	Power	NPSHr
US gpm	rpm	ft	%	hp	ft
1740	1770	311	80.7	169	21.2
1450	1770	361	81.8	161	15.1
1160	1770	397	78.6	148	10.7
870	1770	427	70.5	133	7.85
580	1770	451	57.2	115	6.29

ATTACHMENT NO. 2

SAN DIEGO FORMATION WELL NO. 11

WELL COMPLETION REPORT

File Original with DWR

State of California

Well Completion Report

Refer to Instruction Pamphlet
No. **e0322737**

Page 1 of 2

Owner's Well Number SDF 11

Date Work Began 06/20/2016 Date Work Ended 9/2/2016

Local Permit Agency County of San Diego Department of Environmental Health

Permit Number 001157 Permit Date 11/20/15

DWR Use Only - Do Not Fill In

State Well Number/Site Number									
Latitude					Longitude				
APN/TRS/Other									

Geologic Log		
Orientation <input checked="" type="radio"/> Vertical <input type="radio"/> Horizontal <input type="radio"/> Angle Specify _____		
Drilling Method <u>Reverse Circulation Rotary</u> Drilling Fluid <u>Bentonite mud</u>		
Depth from Surface	Description	Describe material, grain size, color, etc
Feet to	Feet	
50	60	SAND, GRAVEL
60	80	SAND, GRAVEL, CLAY
80	110	SAND, GRAVEL, CLAY, ROCK
110	130	CLAY, GRAVEL, SAND
130	140	CLAY, SAND
140	180	CLAY, GRAVEL, SAND
180	200	CLAY, SAND
200	210	CLAY, GRAVEL, SAND
210	240	GRAVEL, CLAY
240	250	CLAY, GRAVEL, ROCK
250	260	CLAY, SAND, GRAVEL
260	270	SAND, GRAVEL, ROCK
270	390	SAND, GRAVEL, CLAY
390	400	GRAVEL, ROCK, SAND
400	410	GRAVEL, ROCK, STICKY CLAY
410	420	CLAY, GRAVEL
420	440	CLAY, SILT
440	450	CLAY, SILT, GRAVEL
450	520	SILTY CLAY, GRAVEL, SAND
520	530	BLUE CLAY, GRAVEL
530	540	GRAVEL, ROCK
540	570	CLAY, GRAVEL, ROCK
570	580	CLAY, ROCK
580	630	CLAY, GRAVEL, ROCK
630	640	SAND, GRAVEL, ROCK
640	660	SAND, GRAVEL
660	670	CLAY
670	680	SAND, GRAVEL, CLAY
680	710	SAND, GRAVEL
710	720	SAND, GRAVEL, SILTY CLAY, SHELLS
Total Depth of Boring <u>970</u>		Feet
Total Depth of Completed Well <u>950</u>		Feet

Well Owner	
Name	<u>City of Chula Vista</u>
Mailing Address	<u>276 4th Ave</u>
City	<u>Chula Vista</u> State <u>CA</u> Zip <u>91910</u>

Well Location	
Address	<u>Corner of F Street and 4th Ave.</u>
City	_____ County _____
Latitude	_____ N Longitude _____ W
Datum	_____ Dec. Lat. _____ Dec. Long. _____
APN Book	<u>568</u> Page <u>153</u> Parcel <u>0100</u>
Township	_____ Range _____ Section _____



Activity	
<input checked="" type="radio"/> New Well	<input type="radio"/> Modification/Repair
<input type="radio"/> Deepen	<input type="radio"/> Other _____
<input type="radio"/> Destroy	<small>Describe procedures and materials under "GEOLOGIC LOG"</small>

Planned Uses	
<input checked="" type="radio"/> Water Supply	<input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Public
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Industrial
<input type="checkbox"/> Cathodic Protection	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Heat Exchange	<input type="checkbox"/> Injection
<input type="checkbox"/> Monitoring	<input type="checkbox"/> Remediation
<input type="checkbox"/> Sparging	<input type="checkbox"/> Test Well
<input type="checkbox"/> Vapor Extraction	<input type="checkbox"/> Other _____

Water Level and Yield of Completed Well	
Depth to first water	<u>103</u> (Feet below surface)
Depth to Static	_____
Water Level	<u>103</u> (Feet) Date Measured <u>08/24/2016</u>
Estimated Yield *	<u>2,198</u> (GPM) Test Type <u>Constant Rate</u>
Test Length	<u>24.0</u> (Hours) Total Drawdown <u>106</u> (Feet)
<small>*May not be representative of a well's long term yield.</small>	

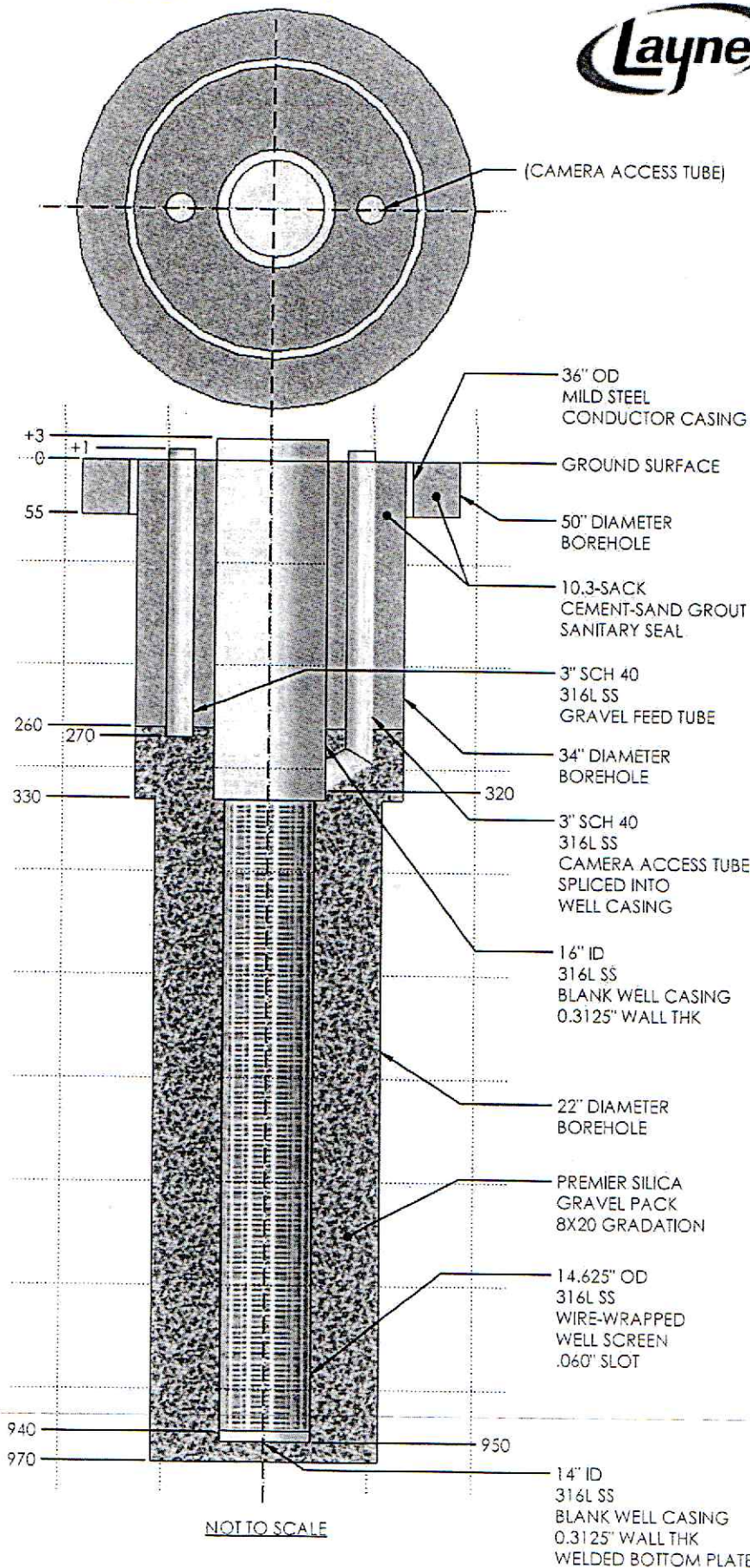
Casings							
Depth from Surface	Borehole Diameter	Type	Material	Wall Thickness	Outside Diameter	Screen Type	Slot Size
Feet to	Feet	(Inches)		(Inches)	(Inches)		if Any (Inches)
0	50	50	Conductor	Low Carbon Steel	.375	36	
50	330	32	Blank	316L Stainless Steel	.3125	16	
330	940	32	Screen	316L Stainless Steel	.3125	14	Wire Wrap 0.060
940	950	32	Blank	316L Stainless Steel	.3125	14	

Annular Material			
Depth from Surface	Fill	Description	
Feet to	Feet		
0	260	Cement	10.3 Sack
260	970	Filter Pack	8x20 Premier Silica

Attachments	
<input type="checkbox"/> Geologic Log	<input type="checkbox"/> Well Construction Diagram
<input type="checkbox"/> Geophysical Log(s)	<input type="checkbox"/> Soil/Water Chemical Analyses
<input type="checkbox"/> Other _____	
<small>Attach additional information, if it exists.</small>	

Certification Statement			
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief			
Name	<u>Layne Christensen Company</u>		
	<small>Person, Firm or Corporation</small>		
Address	<u>1717 W Park Ave</u>	City	<u>Redlands</u>
		State	<u>CA</u>
Signed	<u>[Signature]</u>	Date Signed	<u>2/24/2017</u>
	<small>C-57 Licensed Water Well Contractor</small>		Zip <u>92373</u>
			State <u>CA</u> License Number <u>510011</u>

SOF # 11



BLANK CASING SCHEDULE:

MATERIAL: 316L SS
WALL THICKNESS: 5/16"
ID: 16"
OD: 16.625"

TOP-BOTTOM	LENGTH
+3-330'	333'
940-950'	10'
TOTAL LENGTH	343'

WELL SCREEN CASING SCHEDULE:

MATERIAL: 316L SS CONTINUOUS WIRE WRAP 142/250
WALL THICKNESS: 5/16"
ID: 14"
OD: 14.625"

TOP-BOTTOM	LENGTH	SLOT (IN)
330-940'	610'	0.060
TOTAL LENGTH	610'	

WELL CASING SUMP/CELLAR:

BLANK CASING WITH 0.3125" THK 316L SS PLATE WELDED TO BOTTOM FROM: 940-950'

GRAVEL FEED TUBE:

316L SS, 3" SCH 40 FROM: +1-270'

CAMERA ACCESS TUBE:

316L SS, 3" SCH 40 FROM: +1-312'
ENTRY BOX OPENING FROM: 312-320'

CENTRALIZERS:

MATERIAL: 316L SS
SIZE (FOR BLANK): 5/16 X 2 X 24"
SIZE (FOR SCREEN): C TYPE - 5/16 X 2"
DEPTHS ON BLANK CASING:
~50, 110, 170, 230, 290, 960'
DEPTHS ON SCREEN CASING:
~340, 380, 420, 460, 500, 540, 580, 620, 660, 700, 740, 780, 820, 860, 900, 940'

WELDING COLLARS:

WELDING COLLARS ON ALL CASING

SANITARY SEAL:

10.3-SACK CEMENT FROM: 0-260'

GRAVEL PACK MATERIAL:

8X20 PREMIER SILICA FROM: 260-970'

BENTONITE INTERMEDIATE SEALS:

0.25" TR30 BENTONITE PELLETS FROM: N/A

STATIC WATER LEVEL:

TBD

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SPECIFIED

TITLE: SOF-11 WELL DESIGN

CUSTOMER: SWEETWATER AUTHORITY

LAYNE JOB NUMBER: 37681

DRAWN BY: CHEYNE WELLS

DATE: 1-23-17

SHEET: 5 OF 5