



**PROFESSIONAL SERVICES AGREEMENT
DESIGN SERVICES
BASHA WATER PRODUCTION FACILITY AND OCOTILLO AND PLEASANT WELLS
REHABILITATION
PROJECT NO. WA2502.201
Council Date: August 13, 2026**

THIS AGREEMENT ("Agreement") is made and entered into on the ____ day of _____, 2026, ("Effective Date"), by and between City of Chandler, an Arizona municipal corporation, ("City"), and Wilson Engineers, LLC, an Arizona limited liability company, ("Consultant") (City and Consultant may individually be referred to as "Party" and collectively referred to as "Parties").

RECITALS

A. City proposes to engage Consultant to provide design services for Basha Water Production Facility and Ocotillo and Pleasant Wells Rehabilitation project ("Project") as more fully described in Exhibit "A" ("Services"), which is attached to and made a part of this Agreement by this reference.

B. Consultant is ready, willing, and able to provide the services described in **Exhibit "A"** for the compensation and fees set forth and as described in **Exhibit "B"**, which is attached to and made a part of this Agreement by this reference.

C. City desires to enter into an Agreement with Consultant to provide these services under the terms and conditions set forth in this Agreement.

AGREEMENT

NOW, THEREFORE, in consideration of the premises and the mutual promises contained in this Agreement, City and Consultant agree as follows:

SECTION I--CONSULTANT'S SERVICES

Consultant must perform the services described in **Exhibit "A"** to City's satisfaction within the terms and conditions of this Agreement and within the care and skill that a person who provides similar services in Chandler, Arizona exercises under similar conditions. All work or services furnished by Consultant under this Agreement must be performed in a skilled and workmanlike manner. All fixtures, furnishings, and equipment furnished by Consultant as part of the work or services under this Agreement must be new, or the latest model, and of the most suitable grade and quality for the intended purpose of the work or service.

SECTION II--PERIOD OF SERVICE

Consultant must perform the services described in **Exhibit "A"** for the term of this Agreement. Unless amended in writing by the Parties, the Agreement term expires 330 calendar days after the Notice to Proceed (NTP) Date.

SECTION III--PAYMENT OF COMPENSATION AND FEES

Unless amended in writing by the Parties, Consultant's compensation and fees as more fully described in **Exhibit "B"** for performance of the services approved and accepted by City under this Agreement must not exceed \$1,799,451 for the full term of the Agreement. Consultant may not increase any compensation or fees under this Agreement without the City's prior written consent. Consultant must submit monthly requests for payment of services approved and accepted during the previous billing period and must include, as applicable, detailed invoices and receipts, a narrative description of the tasks accomplished during the billing period, a list of any deliverables submitted, and any subconsultant's or supplier's actual requests for payment plus similar narrative and listing of their work. Consultant must submit an Application and Certification for Payment Sheet with the monthly request for payment to: CapitalProjects.Payables@chandleraz.gov. Payment for those services negotiated as a lump sum will be made in accordance with the percentage of the work completed during the preceding billing period. Services negotiated as a not-to-exceed fee will be paid in accordance with the work effort expended on the service during the preceding month. All requests for payment must be submitted to City for review and approval. City will make payment for approved and accepted services within 30 calendar days of City's receipt of the request for payment. Consultant bears all responsibility and liability for any and all tax obligations that result from Consultant's performance under this Agreement.

SECTION IV--CITY'S OBLIGATIONS

As part of Consultant's services under this Agreement, City will provide furnished items, services, or obligations as detailed in **Exhibit "D"**.

SECTION V--GENERAL CONDITIONS

5.1 Notices. Unless otherwise provided herein, demands under this Agreement must be in writing and will be deemed to have been duly given and received either (a) on the date of service if personally served on the party to whom notice is to be given, or (b) on the third day after the date of the postmark of deposit by first class United States mail, registered or certified, postage prepaid and properly addressed as follows:

City:	To City of Chandler - Public Works & Utilities Department Attn: CIP City Engineer: Daniel Haskins, P.E. P.O. Box 4008, Mail Stop 407 Chandler, AZ 85244-4008 Phone: 480-782-3335 Email: Daniel.Haskins@chandleraz.gov	
With a copy to:	City of Chandler - Public Works & Utilities Department Attn: Sandra Story, Project Manager P.O. Box 4008, Mail Stop 407, Chandler, AZ 85244-4008 Phone: 480-782-3588 Email: Sandra.Story@chandleraz.gov	
To Consultant:	LEGAL COMPANY NAME:	Wilson Engineers, LLC
	Mailing Address:	1620 W. Fountainhead Pkwy., Suite 501 Tempe, AZ 85282
	Physical Address:	1620 W. Fountainhead Pkwy., Suite 501 Tempe, AZ 85282
	Statutory Agent Name:	Corporation Service Company
	Statutory Agent Mailing Address:	7955 S. Priest Drive, Suite 102 Tempe, AZ 85284
	Statutory Agent Physical Address:	7955 S. Priest Drive, Suite 102 Tempe, AZ 85284
	CONSULTANT'S AUTHORIZED PROJECT REPRESENTATIVE	
	Name:	Steve Todd
	Title:	Principal
	Phone:	480-893-8860
	Email:	steve.todd@wilson-engineers.com

5.2 Records/Audit. Records of Consultant's direct personnel payroll, reimbursable expenses pertaining to this Agreement and records of accounts between City and Consultant must be kept on the basis of generally accepted accounting principles and must be made available to City and its auditors for up to three years following City's final acceptance of the services under this Agreement (this requirement is increased to five years if construction of this project is federally funded). City, its authorized representative, or any federal agency, reserves the right to audit Consultant's records to verify the accuracy and appropriateness of all cost and pricing data, including data used to negotiate this Agreement and any amendments. City reserves the right to decrease the total amount of Agreement price or payments made under this Agreement or request reimbursement from Consultant following final Agreement payment on this Agreement if, upon audit of Consultant's records, the audit discloses Consultant has provided false, misleading, or inaccurate cost and pricing data. Consultant will include a similar provision in all of its Agreements with subconsultants who provide services under the Agreement to ensure that City, its authorized representative, or the appropriate federal agency, has access to the subconsultants' records to verify the accuracy of all cost and pricing data. City reserves the right to decrease Agreement price or payments made on this Agreement or request reimbursement from Consultant following final payment on this Agreement if the above provision is not included in subconsultant

agreements, and one or more subconsultants refuse to allow City to audit their records to verify the accuracy and appropriateness of all cost and pricing data. If, following an audit of this Agreement, the audit discloses Consultant has provided false, misleading, or inaccurate cost and pricing data, and the cost discrepancies exceed 1% of the total Agreement billings, Consultant will be liable for reimbursement of the reasonable, actual cost of the audit.

5.3 Alteration in Character of Work. Whenever an alteration in the character of work results in a substantial change in this Agreement, thereby materially increasing or decreasing the scope of services, cost of performance, or Project schedule, the work will be performed as directed by City. However, before any modified work is started, a written amendment must be approved and executed by City and Consultant. Such amendment must not be effective until approved by City. Additions to, modifications, or deletions from this Agreement as provided herein may be made, and the compensation to be paid to Consultant may accordingly be adjusted by mutual agreement of the Parties. It is distinctly understood and agreed that no claim for extra services or materials furnished by Consultant will be allowed by City except as provided herein, nor must Consultant do any work or furnish any materials not covered by this Agreement unless such work is first authorized in writing. Any such work or materials furnished by Consultant without prior written authorization will be at Consultant's own risk, cost, and expense, and Consultant hereby agrees that without written authorization Consultant will make no claim for compensation for such work or materials furnished.

5.4 Termination. City and Consultant hereby agree to the full performance of the covenants contained herein, except that City reserves the right, at its discretion and without cause, to terminate or abandon any service provided for in this Agreement, or abandon any portion of the Project for which services have been performed by Consultant. In the event City abandons or suspends the services, or any part of the services as provided in this Agreement, City will notify Consultant in writing and immediately after receiving such notice, Consultant must discontinue advancing the work specified under this Agreement. Upon such termination, abandonment, or suspension, Consultant must deliver to City all drawings, plans, specifications, special provisions, estimates and other work entirely or partially completed, together with all unused materials supplied by City. Consultant must appraise the work Consultant has completed and submit Consultant's appraisal to City for evaluation. City may inspect Consultant's work to appraise the work completed. Consultant will receive compensation in full for services performed to the date of such termination. The fee will be paid in accordance with Section III of this Agreement, and as mutually agreed upon by Consultant and City. If there is no mutual agreement on payment, the final determination will be made in accordance with the "Disputes" provision in this Agreement. However, in no event may the fee exceed the fee set forth in Section III of this Agreement nor as amended in accordance with Section "Alteration in Character of Work." City will make the final payment within 60 days after Consultant has delivered the last of the partially completed items and the Parties agree on the final fee. If City is found to have improperly terminated the Agreement for cause or default, the termination will be converted to a termination for convenience in accordance with the provisions of this Agreement.

5.5 Indemnification. To the extent permitted by law, the Consultant ("Indemnitor") must indemnify, save and hold harmless City and its officers, officials, agents and employees ("Indemnitee") from any and all claims, actions, liabilities, damages, losses or expenses

(including court costs, attorneys' fees and costs of claim processing, investigation and litigation) ("Claims") caused or alleged to be caused, in whole or in part, by the wrongful, negligent or willful acts, or errors or omissions of Consultant or any of its owners, officers, directors, agents, employees, or subconsultants in connection with this Agreement. This indemnity includes any claim or amount arising out of or recovered under workers' compensation law or on account of the failure of Consultant to conform to any federal, state or local law, statute, ordinance, rule, regulation or court decree. Consultant must indemnify Indemnitee from and against any and all Claims, except those arising solely from Indemnitee's own negligent or willful acts or omissions. Consultant is responsible for primary loss investigation, defense and judgment costs where this indemnification applies. In consideration of the award of this Agreement, Consultant agrees to waive all rights of subrogation against Indemnitee for losses arising from or related to this Agreement. The obligations of Consultant under this provision survive the termination or expiration of this Agreement.

5.6 Insurance Requirements. Consultant must procure insurance under the terms and conditions and for the amounts of coverage set forth in **Exhibit "C"** against claims that may arise from or relate to performance of the work under this Agreement by Consultant and its agents, representatives, employees, and subconsultants. Consultant and any subconsultant must maintain this insurance until all of their obligations have been discharged, including any warranty periods under this Agreement. These insurance requirements are minimum requirements for this Agreement and in no way limit the indemnity covenants contained in this Agreement. City in no way warrants that the minimum limits stated in **Exhibit "C"** are sufficient to protect Consultant from liabilities that might arise out of the performance of the work under this Agreement by Consultant, Consultant's agents, representatives, employees, or subconsultants. Consultant is free to purchase such additional insurance as may be determined necessary.

5.7 Cooperation and Further Documentation. Consultant agrees to provide City such other duly executed documents as may be reasonably requested by City to implement the intent of this Agreement.

5.8 Successors and Assigns. City and Consultant each bind itself, its partners, successors, assigns, and legal representatives to the other party to this Agreement and to the partners, successors, assigns, and legal representatives of such other party in respect to all covenants of this Agreement. Neither City nor Consultant may assign, sublet, or transfer its interest in this Agreement without the written consent of the other party. In no event may any contractual relation be created between any third party and City.

5.9 Disputes. In any dispute arising out of an interpretation of this Agreement or the duties required not disposed of by agreement between Consultant and City, the final determination at the administrative level will be made by City Engineer.

5.10 Completeness and Accuracy of Consultant's Work. Consultant must be responsible for the completeness and accuracy of Consultant's services, data, and other work prepared or compiled under Consultant's obligation under this Agreement and must correct, at Consultant's expense, all willful or negligent errors, omissions, or acts that may be discovered. Correction of errors disclosed and determined to exist during any construction of the project on

architectural or engineering drawings and specifications must be accomplished by Consultant. The cost of the design necessary to correct those errors attributable to Consultant and any damage incurred by City as a result of additional construction costs caused by such engineering or architectural errors will be chargeable to Consultant and will not be considered a cost of the Work. The fact that City has accepted or approved Consultant's work will in no way relieve Consultant of any of Consultant's responsibilities.

5.11 Reporting. Written monthly reports, along with updated work schedules, will be made by Consultant in the format prescribed by City. These reports will be delivered to City per schedule. When requested by City, Consultant will attend Council meetings and provide finished documents including correspondence for Council action, supporting charts, graphs, drawings and colored slides of same.

5.12 Withholding Payment. City reserves the right to withhold funds from Consultant's payments up to the amount equal to the claims City may have against Consultant until such time that a settlement on those claims has been reached.

5.13 City's Right of Cancellation. The Parties acknowledge that this Agreement is subject to cancellation by City under the provisions of Section 38-511, Arizona Revised Statutes (A.R.S.).

5.14 Independent Consultant. For this Agreement Consultant constitutes an independent contractor. Any provisions in this Agreement that may appear to give City the right to direct Consultant as to the details of accomplishing the work or to exercise a measure of control over the work means that Consultant must follow the wishes of City as to the results of the work only. These results must comply with all applicable laws and ordinances.

5.15 Project Staffing. Prior to the start of any work under this Agreement, Consultant must submit to City detailed resumes of key personnel that will be involved in performing services prescribed in the Agreement. City hereby acknowledges its acceptance of such personnel to perform services under this Agreement. At any time hereafter that Consultant desires to change key personnel while performing under the Agreement, Consultant must submit the qualifications of the new personnel to City for prior approval. Key personnel include, but are not limited to, principals-in-charge, project manager, and project Consultant. Consultant will maintain an adequate and competent staff of qualified persons, as may be determined by City, throughout the performance of this Agreement to ensure acceptable and timely completion of the Scope of Services. If City objects, with reasonable cause, to any of Consultant's staff, Consultant must take prompt corrective action acceptable to City and, if required, remove such personnel from the Project and replace with new personnel agreed to by City.

5.16 Consultants or Subconsultants. Prior to beginning the work, Consultant must furnish City for approval the names of consultants or subconsultants to be used under this Agreement. Any subsequent changes are subject to City's written prior approval.

5.17 Force Majeure. If either party is delayed or prevented from the performance of any act required under this Agreement by reason of acts of God or other cause beyond the control and without fault of the Party (financial inability excepted), performance of that act may be excused, but only for the period of the delay, if the Party provides written notice to the other

Party within ten days of such act. The time for performance of the act may be extended for a period equivalent to the period of delay from the date written notice is received by the other Party.

5.18 Compliance with Federal Laws. Consultant understands and acknowledges the applicability of the Americans with Disabilities Act, the Immigration Reform and Control Act of 1986 and the Drug Free Workplace Act of 1989 to it. Consultant agrees to comply with these laws in performing this Agreement and to permit City to verify such compliance.

5.19 No Israel Boycott. By entering into this Agreement, Consultant certifies that Consultant is not currently engaged in, and agrees for the duration of the Agreement, not to engage in a boycott of Israel as defined by state statute.

5.20 Legal Worker Requirements. A.R.S. § 41-4401 prohibits City from awarding an Agreement to any consultant who fails, or whose subconsultants fail, to comply with A.R.S. § 23-214(A). Therefore, Consultant agrees Consultant and each subconsultant it uses warrants their compliance with all federal immigration laws and regulations that relate to their employees and their compliance with § 23-214, subsection A. A breach of this warranty will be deemed a material breach of the Agreement and may be subject to penalties up to and including termination of the Agreement. City retains the legal right to inspect the papers of any Consultant's or subconsultant's employee who provides services under this Agreement to ensure that Consultant and subconsultants comply with the warranty under this provision.

5.21 Lawful Presence Requirement. A.R.S. §§ 1-501 and 1-502 prohibit City from awarding an Agreement to any natural person who cannot establish that such person is lawfully present in the United States. To establish lawful presence, a person must produce qualifying identification and sign a City-provided affidavit affirming that the identification provided is genuine. This requirement will be imposed at the time of Agreement award. This requirement does not apply to business organizations such as corporations, partnerships, or limited liability companies.

5.22 Covenant Against Contingent Fees. Consultant warrants that no person has been employed or retained to solicit or secure this Agreement upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, and that no member of the Chandler City Council, or any City employee has any interest, financially, or otherwise, in Consultant's firm. For breach or violation of this warrant, City may annul this Agreement without liability or, at its discretion, to deduct from the Agreement price or consideration, the full amount of such commission, percentage, brokerage, or contingent fee.

5.23 Non-Waiver Provision. The failure of either Party to enforce any of the provisions of this Agreement or to require performance of the other Party of any of the provisions hereof must not be construed to be a waiver of such provisions, nor must it affect the validity of this Agreement or any part thereof, or the right of either Party to thereafter enforce each and every provision.

5.24 Disclosure of Information Adverse to City's Interests. To evaluate and avoid potential conflicts of interest, Consultant must provide written notice to City, as set forth in this Section,

of any work or services performed by Consultant for third parties that may involve or be associated with any real property or personal property owned or leased by City. Such notice must be given 7 business days prior to commencement of the services by Consultant for a third party, or 7 business days prior to an adverse action as defined below. Written notice and disclosure must be sent in accordance with Section 6.7 above. An adverse action under this Agreement includes, but is not limited to: (a) using data as defined in the Agreement acquired in connection with this Agreement to assist a third party in pursuing administrative or judicial action against City; or (b) testifying or providing evidence on behalf of any person in connection with an administrative or judicial action against City; or (c) using data to produce income for Consultant or its employees independently of performing the services under this Agreement, without the prior written consent of City. Consultant represents that except for those persons, entities, and projects identified to City, the services performed by Consultant under this Agreement are not expected to create an interest with any person, entity, or third party project that is or may be adverse to City's interests. Consultant's failure to provide a written notice and disclosure of the information as set forth in this Section constitute a material breach of this Agreement.

5.25 Data Confidentiality and Data Security. As used in the Agreement, "data" means all information, whether written or verbal, including plans, photographs, studies, investigations, audits, analyses, samples, reports, calculations, internal memos, meeting minutes, data field notes, work product, proposals, correspondence and any other similar documents or information prepared by, obtained by, or transmitted to Consultant or its subconsultants in the performance of this Agreement. The Parties agree that all data, regardless of form, including originals, images, and reproductions, prepared by, obtained by, or transmitted to Consultant or its subconsultants in connection with Consultant's or its subconsultant's performance of this Agreement is confidential and proprietary information belonging to City. Except as specifically provided in this Agreement, Consultant or its subconsultants must not divulge data to any third party without City's prior written consent. Consultant or its subconsultants must not use the data for any purposes except to perform the services required under this Agreement. These prohibitions do not apply to the following data provided to Consultant or its subconsultants have first given the required notice to City: (a) data which was known to Consultant or its subconsultants prior to its performance under this Consultant or its subconsultants by a third party, who to the best of Consultant's or its subconsultants' knowledge and belief, had the legal right to make such disclosure and Consultant or its subconsultants are not otherwise required to hold such data in confidence; or (c) data which is required to be disclosed by virtue of law, regulation, or court order, to which Consultant or its subconsultants are subject. In the event Consultant or its subconsultants are required or requested to disclose data to a third party, or any other information to which Consultant or its subconsultants became privy as a result of any other Agreement with City, Consultant must first notify City as set forth in this Section of the request or demand for the data. Consultant or its subconsultants must give City sufficient facts so that City can be given an opportunity to first give its consent or take such action that City may deem appropriate to protect such data or other information from disclosure. All data must continue to be subject to the confidentiality agreements of this Agreement. Consultant or its subconsultants assume all liability to maintain the confidentiality of the data in its possession and agrees to compensate City if any of the provisions of this Section are violated by Consultant, its employees, agents or subconsultants. Solely for the purposes of seeking injunctive relief, it is agreed that a breach of this Section must be deemed to cause irreparable

harm that justifies injunctive relief in court. Consultant agrees that the requirements of this Section must be incorporated into all subagreements entered into by Consultant. A violation of this Section may result in immediate termination of this Agreement without notice.

5.26 Personal Identifying Information-Data Security. Personal identifying information, financial account information, or restricted City information, whether electronic format or hard copy, must be secured and protected at all times by Consultant or its subconsultants. At a minimum, Consultant or its subconsultants must encrypt or password-protect electronic files. This includes data saved to laptop computers, computerized devices, or removable storage devices. When personal identifying information, financial account information, or restricted City information, regardless of its format, is no longer necessary, the information must be redacted or destroyed through appropriate and secure methods that ensure the information cannot be viewed, accessed, or reconstructed. In the event that data collected or obtained by Consultant or its subconsultants in connection with this Agreement is believed to have been compromised, Consultant or its subconsultants must immediately notify City contact. Consultant agrees to reimburse City for any costs incurred by City to investigate potential breaches of this data and, where applicable, the cost of notifying individuals who may be impacted by the breach. Consultant agrees that the requirements of this Section must be incorporated into all subcontracts entered into by Consultant. It is further agreed that a violation of this Section must be deemed to cause irreparable harm that justifies injunctive relief in court. A violation of this Section may result in immediate termination of this Agreement without notice. The obligations of Consultant or its subconsultants under this Section must survive the termination of this Agreement.

5.27 Jurisdiction and Venue. This Agreement is made under and must be construed in accordance with and governed by the laws of the State of Arizona without regard to the conflicts or choice of law provisions thereof. Any action to enforce any provision of this Agreement or to obtain any remedy with respect hereto must be brought in the courts located in Maricopa County, Arizona, and for this purpose, each Party hereby expressly and irrevocably consents to the jurisdiction and venue of such court.

5.28 Survival. All warranties, representations, and indemnifications by Consultant must survive the completion or termination of this Agreement.

5.29 Modification. Except as expressly provided herein to the contrary, no supplement, modification, or amendment of any term of this Agreement will be deemed binding or effective unless in writing and signed by the Parties.

5.30 Severability. If any provision of this Agreement or the application to any person or circumstance may be invalid, illegal or unenforceable to any extent, the remainder of this Agreement and the application will not be affected and will be enforceable to the fullest extent permitted by law.

5.31 Integration. This Agreement contains the full agreement of the Parties. Any prior or contemporaneous written or oral agreement between the Parties regarding the subject matter is merged and superseded.

5.32 Time is of the Essence. Time of each of the terms, covenants, and conditions of this Agreement is hereby expressly made of the essence.

5.33 Date of Performance. If the date of performance of any obligation or the last day of any time period provided for should fall on a Saturday, Sunday, or holiday for City, the obligation will be due and owing, and the time period will expire, on the first day after which is not a Saturday, Sunday or legal City holiday. Except as may otherwise be set forth in this Agreement, any performance provided for herein will be timely made if completed no later than 5:00 p.m. (Chandler time) on the day of performance.

5.34 Third Party Beneficiary. Nothing under this Agreement will be construed to give any rights or benefits in the Agreement to anyone other than City and Consultant, and all duties and responsibilities undertaken pursuant to this Agreement will be for the sole and exclusive benefit of City and Consultant and not for the benefit of any other party.

5.35 Conflict in Language. All work performed must conform to all applicable City of Chandler codes, ordinances, and requirements as outlined in this Agreement. If there is a conflict in interpretation between provisions in this Agreement and those in **Exhibit "A"**, the provisions in this Agreement prevail.

5.36 Document/Information Release. Documents and materials released to Consultant, which are identified by City as sensitive and confidential, are City's property. The document/material must be issued by and returned to City upon completion of the services under this Agreement. Consultant secondary distribution, disclosure, copying, or duplication in any manner is prohibited without City's prior written approval. The document/material must be kept secure at all times. This directive applies to all City documents, whether in photographic, printed, or electronic data format.

5.37 Exhibits. The following exhibits are made a part of this Agreement and are incorporated by reference:

Exhibit A - Scope of Services / Schedule

Exhibit B - Compensation and Fees

Exhibit C - Insurance Requirements

Exhibit D - Special Conditions

Exhibit E - Subconsultant Documents with Consultant (if applicable)

Exhibit F - Federal Requirements (if applicable)

5.38 Special Conditions. As part of the services Consultant provides under this Agreement, Consultant agrees to comply with and fully perform the special terms and conditions set forth in **Exhibit "D"**, which is attached to and made a part of this Agreement.

5.39 Non-Discrimination and Anti-Harassment Laws. Consultant must comply with all applicable City, state, and federal non-discrimination and anti-harassment laws, rules, and regulations.

5.40 Licenses and Permits. Beginning with the Effective Date and for the full term of this Agreement, Consultant must maintain all applicable City, state, and federal licenses and permits required to fully perform Consultant's services under this Agreement.

5.41 Warranties. Consultant must furnish a one-year warranty on all work and services performed under this Agreement. Consultant must furnish, or cause to be furnished, a two-year warranty on all fixtures, furnishings, and equipment furnished by Consultant, subconsultants or suppliers under this Agreement. Any defects in design, workmanship, or materials that do not comply with this Agreement must be corrected by Consultant (including, but not limited to, all parts and labor) at Consultant's sole cost and expense. All written warranties and redlines for as-built conditions must be delivered to City on or before City's final acceptance of Consultant's services under this Agreement.

5.42 Cooperative Purchasing Agreement (S.A.V.E. – Strategic Alliance for Volume Expenditures). In addition to City of Chandler and with the approval of Consultant, this Agreement may be extended for use by other municipalities, school districts, and government agencies of the State. Any such usage by other entities must be in accordance with the ordinance, charter, or procurement rules and regulations of the respective political entity.

5.43 Budget Approval into Next Fiscal Year. This Agreement will commence on the Effective Date and continue in full force and effect until it is terminated or expires in accordance with the provisions of this Agreement. The Parties recognize that the continuation of this Agreement after the close of the City's fiscal year, which ends on June 30 of each year, is subject to the City Council's approval of a budget that includes an appropriation for this item as an expenditure. The City does not represent that this budget item will be actually adopted. This determination is solely made by the City Council.

5.44 Forced Labor of Ethnic Uyghurs Prohibited. By entering into this Agreement, Contractor certifies and agrees Contractor does not currently use and will not use for the term of this Agreement: (i) the forced labor of ethnic Uyghurs in the People's Republic of China; or (ii) any goods or services produced by the forced labor of ethnic Uyghurs in the People's Republic of China; or (iii) any contractors, subcontractors or suppliers that use the forced labor or any goods or services produced by the forced labor of ethnic Uyghurs in the People's Republic of China.

5.45 License to City for Reasonable Use. With this Agreement, Consultant and its subconsultants hereby grant a license to City, its agents, employees, and representatives for an indefinite period of time to reasonably use, make copies, and distribute as appropriate the Documents, works or deliverables developed or created as a result of the Project and this Agreement. This license also includes the making of derivative works.

This Agreement will be in full force and effect only when it has been approved and executed by the duly authorized City officials.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the Effective Date.

"CITY"
CITY OF CHANDLER

"CONSULTANT"
WILSON ENGINEERS, LLC

Mayor

Steve Todd July 10, 2026
Signature Date

RECOMMENDED BY:

Daniel Haskins July 10, 2026
Daniel Haskins, P.E.
CIP City Engineer

Steve Todd
Print Name

Principal
Title

Steve.Todd@wilson-engineers.com
Signer Email Address

APPROVED AS TO FORM:

City Attorney *JMB*

ATTEST:

City Clerk Seal

EXHIBIT "A"
SCOPE OF SERVICES/SCHEDULE



1620 West Fountainhead Parkway, Suite 501
Tempe, AZ 85282
480-893-8860 | 480-893-8968 Fax
Wilson-Engineers.com

July 6th, 2026

Mr. Daniel Haskins, P.E.
CIP City Engineer
City of Chandler
215 E. Buffalo St.
Chandler, AZ 85225

Re. Basha Water Production Facility & Ocotillo and Pleasant Wells Rehabilitation
City Project No.: WA2502.201

Dear Mr. Haskins,

Enclosed, please find our proposal to provide Professional Engineering Design and Permitting Services for the City's Basha Water Production Facility & Ocotillo and Pleasant Wells Rehabilitation Project. **Exhibit A** and **Exhibit B**, attached, present the detailed Scope of Work and the associated fee breakdown. A preliminary project schedule and sheet list are included. Upon authorization, the proposed project shall be invoiced on a time and materials basis, including sub-consultant efforts. All labor tasks will be billed on a monthly basis based on actual incurred hours and all reimbursable expense charges billed at the incurred charge.

If there are any questions or comments, please contact me at 480-893-8860. Thank you for the opportunity to be of service to the City of Chandler!

WILSON ENGINEERS

A handwritten signature in black ink, appearing to read "Alan Palmquist", written over a light grey circular background.

Alan Palmquist, P.E.
Principal Associate

Attachments:

Exhibit A – Design Scope

Exhibit B – Design Fee

EXHIBIT "A"
SCOPE OF SERVICES
BASHA WATER PRODUCTION FACILITY &
OCOTILLO AND PLEASANT WELLS REHABILITATION PROJECT
PROJECT NO. WA2502.201

1. PROJECT DESCRIPTION:

The City of Chandler has initiated this project to conduct a condition assessment and rehabilitation of the Basha Water Production Facility (WPF), Ocotillo Well, and Pleasant Well. The Basha WPF was initially constructed in approximately 1999, renovated in 2017, then followed by the Ocotillo and Pleasant Wells in 2008. The facility provides potable water for the surrounding customers which includes residential, commercial, and industrial properties. The steel reservoir is filled with groundwater via the two wells (Ocotillo and Pleasant Wells), and from the City's potable water system via a 16" connection. The on-site groundwater well (Basha Well No. 1) is exclusively used to supplement the reclaimed water system and not utilized for the potable water system and therefore excluded from this project. The reservoir supplies potable water to the booster pump station which discharges into Chandler's potable water system. The WPF consists of the following major components:

- Two (2) million gallon steel reservoir.
- Booster pump station (BPS) with five pumps and pump cans.
- Reservoir recirculation pump and pump can.
- Tablet chlorinator within the Disinfection Room of the on-site masonry building.
- Emergency diesel generator.
- Electrical equipment including a Motor Control Center, Service Entrance Section and an Automatic Transfer Switch. The Motor Control Center, Automatic Transfer Switch, and low-voltage equipment are located within the Electrical Room of the on-site masonry building.
- Instrumentation equipment including a PLC/RTU located within the Electrical Room of the on-site masonry building.

The Ocotillo and Pleasant Wells consist of the following major components:

- Groundwater well and pump within acoustical enclosure.
- Pump-to-waste system with discharge to on-site retention basin and drywell. Ocotillo and Pleasant Wells include alternative discharges to nearby HOA lake system.
- Tablet chlorinator within shade enclosure.
- Electrical equipment including a Motor Control Center, Service Entrance Section, Automatic Transfer Switch, and Generator Connection Box. Equipment located beneath shade canopy.
- Instrumentation equipment including a PLC/RTU located within air-conditioned cabinet beneath shade canopy.

The rehabilitation and modifications planned for this project include the following, but not limited to, other miscellaneous modifications:

- Condition assessment and evaluation of the Basha WPF, Ocotillo Well, and Pleasant Well existing site and equipment.
- Rehabilitation of the existing 2 million gallon steel reservoir including the side shell, bottom plate, ventilation, reservoir mixing, access ladder and safety devices as well as structural support members.
 - Reservoir load requirements to meet AWWA D100 standard upon completion of project
 - Connections from the floor to the side wall to meet API 653 standard once corrosivity of underlying soils are confirmed
 - Up to five (5) vents provided to meet air exchange needs of filling/draining the reservoir
 - Overflow pipe sizing to be confirmed with system operation and upsized, if required
 - Up to two (2) mixing systems to be provided within reservoir
 - Booster pump station suction line(s) from reservoir to booster pump station
 - Groundwater feed line connection to the reservoir
 - System feed line connection to the reservoir
- Rehabilitation of the existing BPS including below ground mechanical piping, booster pumps and motors, valves, and controls/devices.
- New HVAC system at Basha WPF masonry building.
- Upgrade site and task lighting at Basha WPF, Ocotillo Well, and Pleasant Well to LED lighting. Exterior LED lighting to be dark-sky compliant.
- New Motor Control Center, Service Entrance Section and an Automatic Transfer Switch serving the BPS. Existing emergency generator to remain in-place.
- Verify all electrical systems meet NEC compliance requirements including Arc Flash requirements.
- New liquid chlorine feed system housed in a climate-controlled FRP building. Building to include insulation meeting minimum City standards for R-value. An alternative analysis with pros/cons to be conducted verifying chlorination system type and sizing. Analysis to consider 12.5%, 8%, 5% liquid sodium hypochlorite as well as installation of chlorination systems at Basha WPF, Ocotillo Well, and/or Pleasant Well.
- Ocotillo and Pleasant Wells to specifically undergo the following hydrogeologic activities:
 - Water quality testing including groundwater chemistry and potential biological influences affecting well performance.
 - Well pump removal. Removal services by consultant subcontractor.
 - Initial downhole video survey.
 - Rehabilitation evaluation and plan development.
 - Oversee and conduct rehabilitation activities. Rehabilitation activities to encompass sediment removal, mechanical rehabilitation, and chemical rehabilitation. Rehabilitation services by consultant subcontractor.

- Post-rehabilitation video survey.
- Spinner logging and depth-discrete sampling. Spinner logging services by consultant subcontractor.
- Comprehensive well rehabilitation summary report.
- Assess drywell capacity at Ocotillo and Pleasant Wells in coordination with the City's operations staff. Provide recommendations to improve recharge capacity.
- Assess site security and site safety at the Basha WPF, Ocotillo Well, and Pleasant Well and provide recommendations meeting current City standards.
- Update blending plan for WPF and connected wells to allow greater operational flexibility.
- Assess general site improvements.

The Scope of Services generally encompasses the following items:

- Site investigations, data collection and equipment condition assessment.
- Alternative evaluations, cost estimates and conceptual designs and recommended approach.
- Hydrogeologic evaluation and rehabilitation of two wells.
- Design progress workshops to evaluate alternatives and select final approach.
- Conceptual (30%) Preliminary Design Report, Intermediate (60%) Design Documents (Drawings and Specifications), Agency Review (90%) and Final Design Documents (Drawings and Specifications).
- Design Review workshops at the 30%, 60%, and 90% stages.
- CMAR or Design-Bid-Build project delivery support.

2. SCOPE OF SERVICES:

The Design Phase engineering services to be provided under this Project are as follows:

TASK 1.0 DESIGN DEVELOPMENT

Subtask 1.1 Conduct and Attend Meetings

The Engineer will conduct meetings and/or workshops with City staff to discuss specific technical aspects of the condition assessment and design; progress in the development of the design, drawings, and specifications; and related issues that may affect Project results.

The meetings or workshops will consist of the following:

- Workshops – The Engineer will conduct a total of five workshops. It is anticipated that there will be three workshops to discuss MOPOs (phasing condition assessment activities), the assessment condition protocol, and results (Meeting Nos. 1, 2, 3), one workshop to discuss well assessment and modifications (Meeting No. 4), and one workshop to discuss future rehabilitation work items with the City Engineering and Plant Staff (Meeting No. 5)
- Monthly Progress Meetings – The Engineer will conduct a total of ten monthly design review and project progress meetings with City Engineering and Plant Staff (when workshops are scheduled, monthly progress will be discussed during the workshop

and monthly meetings will not be held). Monthly meetings will be used to review preliminary design report, 30%, 60%, and 90% drawing reviews and CMAR cost model reviews (Meeting Nos. 6 thru 15);

The Engineer will prepare and distribute meeting agenda, presentation material, and document meeting results for each meeting and workshop.

Subtask 1.2 Data Collection and Review

As part of this Task, the Engineer shall obtain any existing equipment information that is currently in the City's database. This database will serve as the basis for development of the facility database for this project. The Engineer shall also use the existing project drawings and specifications to supplement the information included in the database. The Engineer will review the available documents and reports that are available to be used for the assessment phase.

Subtask 1.3 Determine Basis of Design

The Engineer will document the basis of design including the primary thought processes and assumptions behind design decisions and provide explanations of the ideas, logic, evaluations, concepts, and criteria that are considered important to the City.

Design computations, details of connections, etc., are not required as part of the basis of design, but general computations supporting decisions such as system selection, mechanical and electrical loads, etc should be made. Documentation for the basis of design shall, as a minimum, provide the following information in narrative or tabular format:

- General site layout
- Process flow diagrams with pumps, valves, flow meters, chemical feed points, reservoir connections, etc.
- Electrical, gas, telephone and other utility information
- City or regulatory requirements for standby power
- Preliminary geotechnical information
- Initial site survey
- Chlorine building layout
- Chlorine feed – dosage, storage, feed pump(s), tanks, analyzers, etc.
- Hydraulic data – flow rates, velocity, etc.
- Process equipment selections and equipment lists
- HVAC system requirements
- Equipment requirements – size, type, and horsepower
- Electrical systems description
- Process control and instrumentation system description
- Special instruction from the City (equipment preferences, new technologies, etc.)

Subtask 1.4 Determine Site Conditions

The proposed Project site must be analyzed through a series of investigations to understand

the opportunities and constraints that may be imposed upon a project and its design. The Engineer will conduct studies to evaluate existing site conditions. These studies may include, but are not limited to, geotechnical reports, land surveys, and utility surveys. This effort should identify the work site's specific location and identify factors such as accessibility, environmental limitations, regulatory factors, etc., that are important considerations to the Project.

The Project and site are analyzed to determine their compatibility. The preliminary design report should present how the site analysis findings impact and are incorporated into the Project scope and cost estimate. For example, if the site analysis determines the need for storm water control, the site plan should show the potential location and the construction cost estimate should include the cost.

Subtask 1.5 Perform Asset Condition Assessment

Based on the discussions and results in the workshop from Subtask 1.1, the Engineer shall utilize the developed condition assessment protocol for the Basha WPF, Ocotillo Well, and Pleasant Well that defines the methodology for evaluating the condition of assets, inspection requirements, testing protocols, scoring and forms that will be utilized for the physical and performance condition assessment of the WPF's/Well's assets. Utilizing the assessment protocol, field inspections shall be performed to obtain asset condition information. The Engineer will perform assessment of the civil, mechanical, structural, electrical and instrumentation assets at the Basha WPF, Ocotillo Well, and Pleasant Well. The Engineer will keep a comprehensive spreadsheet for each assessed piece of equipment, including its age, condition, performance, reliability, and criticality. The Engineer will perform a field condition assessment of those identified assets to assign a physical and a performance condition score used to establish the remaining life of the assets. The Engineer will use the following procedures to establish the above criteria:

- Visually inspect the equipment
- Check the related equipment instrumentation to determine the asset's physical condition and operation characteristics
- Collect relevant measurements, readings, or other pertinent information deemed appropriate
- Review available repair, rebuild, and replacement records
- Consult with manufacturers as appropriate
- Inspect readily accessible parts and surfaces for any installation problems; excessive noise, vibration, or temperature; the condition of coatings; signs of wear or corrosion; and leakage of any fluids
- For the steel reservoir, field activities to be completed during the dry inspection include:
 - Ultrasonic testing (ASTM E164-08), where warranted
 - Weld inspections (NACE SP-0178)
 - Pit depth measurements

- Extensive dry film thickness
- Adhesion testing (ASTM 3359)
- Heavy metals testing, where warranted
- Cathodic protection (CP) adequacy assessment
- Evaluation of existing CP equipment for future potential reuse
- Inspection areas of the steel reservoir include but are not limited to the side shell, roof, roof supporting structure, bottom plate, hatches, manways, ventilation, ladders, rod bottles, and instrumentation.
- For electrical equipment, connected running loads will be verified and analyzed with respect to code, industry, and City requirements. Spare capacity will be noted for possible future usage. For equipment that is identified as overloaded, recommendations for improvements to bring the equipment into compliance will be provided.
- For SCADA communication, coordinate possible future fiber optic extension to each site. Existing radio communication to be utilized. SCADA programming to utilize approved City standards.

The field assessment will help categorize assets into groups for possible rehabilitation or replacement as part of the project or for rehabilitation or replacement as part of a future rehabilitation project. Inspections will be completed primarily by the Engineer's staff and an allowance is included for other consultants if necessary.

In order to access the required areas for inspection, it is assumed that the City will assist with removal of pumps, piping, fittings, hatches, etc. for the required inspections to take place. Additionally, any confined space entry support, including but not limited to ventilation, and rescue support is provided by the City as required. It is our understanding that the City team will ensure that contract means with a Contractor are valid when work is scheduled.

The Engineer and/or subcontractors will perform a condition assessment of the Basha WPF facility assets. The following table summarizes the overall facilities and associated assets to be included in the assessment as a part of this project:

Basha WPF – Overall Equipment List Summary

1.0	Booster Pump Station
1.1	<i>Booster Pumps and Motors</i>
1.2	<i>Pump Cans</i>
1.3	<i>Recirculation Pump and Motor</i>
1.4	<i>Mechanical Piping (see 4.0)</i>
2.0	Steel Reservoir
2.1	<i>Side Shell and Roof Structure</i>
2.2	<i>Bottom Plate and Soil Condition</i>
2.3	<i>Coating System</i>

2.4	<i>Piping Connections (see 4.0)</i>
3.0	Chlorine System
3.1	<i>Chlorination Room</i>
3.2	<i>Sodium Hypochlorite Storage and Feed System</i>
3.3	<i>Injection Points</i>
4.0	Mechanical Piping
4.1	<i>BPS Suction and Discharge Piping</i>
4.2	<i>Pump Cans</i>
4.3	<i>Steel Reservoir Fill and Drain Piping</i>
5.0	Electrical and Instrumentation
5.1	<i>SCADA Computer Hardware</i>
5.2	<i>Electrical Distribution</i>
5.3	<i>Electrical Systems</i>
5.4	<i>Instrumentation & Controls</i>
5.5	<i>Stand-by Generator</i>
6.0	Miscellaneous
6.1	<i>Sample Pumps</i>
6.2	<i>Grading and Paving</i>
6.3	<i>Site Security System</i>

The Engineer and/or subcontractors will perform a condition assessment and well evaluation/rehabilitation of the Ocotillo and Pleasant Wells. The following table summarizes the overall facilities and associated assets to be included in the assessment as a part of this project:

Ocotillo and Pleasant Wells – Overall Equipment List Summary

1.0	Well Pump and Motor
1.1	<i>Well Pump and Motor</i>
1.2	<i>Oil Lubrication System</i>
1.3	<i>Air Valves/Control Valves</i>
1.4	<i>Mechanical Piping (see 2.0)</i>
2.0	Mechanical Piping
2.1	<i>Pump-to-System Piping</i>
2.2	<i>Pump-to-Waste Piping</i>
3.0	Electrical and Instrumentation
3.1	<i>SCADA Computer Hardware</i>
3.2	<i>Electrical Distribution</i>
3.3	<i>Electrical Systems</i>
3.4	<i>Instrumentation & Controls</i>
4.0	Miscellaneous

4.1	<i>Drywells</i>
4.2	<i>Grading and Paving</i>
4.3	<i>Site Security System</i>

Subtask 1.6 Prepare Draft and Final Condition Assessment Report

The Engineer shall prepare a draft report identifying the condition assessment approach, risk analysis results, and recommended rehabilitation or replacement. The recommended rehabilitation will be based on the condition assessment results and ranked based on City and Plant Staff input. As described in Subtask 1.1, a series of workshops and meetings will be conducted to review the asset condition findings to develop the list of rehabilitation items. Conceptual level cost estimates will be developed for the future identified projects to create project budgets. Replacement and rehabilitation cost estimates will be based on recent project costs of similar facilities, vendor cost estimates, contractor estimates, or other recent project cost data. Costs will be presented in 2026 dollars and escalated to the projected year in which the rehabilitation project will be conducted. The Engineer will incorporate comments received from the City and prepare a final sealed version of the Asset Condition Assessment Report.

Subtask 1.7 Thirty Percent (30%) Progress Submittal

The design scheme is decided and working drawings are prepared. These drawings are used to convey information about the Project's overall appearance and configuration to the City and other Project stakeholders. These drawings are not intended for construction. The lists of drawings and specifications for each discipline are ready for City review.

1. Process and hydraulic design:
 - Hydraulics: Hydraulic analysis required for design (e.g., pipeline hydraulics, pump selection, etc) is complete and calculations are checked.
 - Process: Where water process design applies (e.g., chemical dosage, specialty equipment selection, etc) all system calculations are completed and checked. Preliminary specialty equipment review is complete (e.g. chemical feed pumps, etc.).
2. Civil:
 - Existing utilities are plotted; existing facility horizontal controls and elevations are confirmed with current survey.
 - Preliminary drawings include overall site layout, large diameter pipe, yard piping and major grading elements.
 - Preliminary plan and profile sheets are prepared (as applicable for pipeline design).
 - Demolition plans, as applicable, are prepared.
 - Conceptual drawings showing drainage patterns and means for control and disposal.

3. Structural:

- The main structural system and detailed design approach for each structural component is established.
- Layout plan drawings and principal sections are started.
- Preliminary plans and sections and/or renderings are prepared.

4. Mechanical (Includes equipment, plumbing, HVAC, and fire suppression):

- Preliminary layout of major equipment completed.
- All major equipment and piping elevations, pipe sizes, work clearances, equipment spacing, access, code requirements are shown.
- Preliminary equipment schedule is started.
- Preliminary piping schedule is started.
- System flow diagrams are complete.
- Specifications for major equipment are in draft form.

5. Electrical:

- Preliminary single line diagrams of major distribution system and motor control centers are prepared.
- Partial equipment control schematic diagrams are prepared.
- Preliminary electrical plans showing locations of transformer and panel are prepared.

6. Instrumentation:

Process and Instrumentation Devices (P&ID) should be developed to a degree which depicts the following:

- General instrumentation and control philosophy.
- Type of instrumentation.
- All primary and secondary control devices.
- All instrumentation shown.
- Process area designation, drawing and equipment numbering system identified.
- Preliminary Process Control strategies should be complete.
- Instrumentation and control (I&C) specifications for I&C devices should be started.

Subtask 1.8 Preliminary Facility Design Report and Cost Estimate

The Engineer shall provide a recommended preliminary design report with associated costing for the City's review along with alternate value engineering approaches or phasing options to approach the design and construction. This will be reviewed at a 30% design review workshop with City staff. The 30% design will consist of a site layout, mechanical and electrical plan sheets, and equipment cut sheets. The Engineer shall evaluate potential new water line alignments and prepare preliminary layout figures. Decisions made on the project approach shall be the basis for the 60% design phase.

The Engineer shall present the preliminary design to City Staff in the form of a MS PowerPoint Presentation or equivalent. The Engineer shall incorporate comments received from the City during the progress submittal review meetings as part of the detailed design effort.

***NOTE:** City to verify booster pump station flowrate and discharge hydraulic grade elevation if changes are desired to meet revised potable water system demands. The information will be utilized as the design point for facility operation.*

TASK 2.0 DETAILED DESIGN

Subtask 2.1 60% Construction Documents

The drawings and specifications for each discipline are coordinated and have progressed where the design intent is established and must show the work in sufficient detail that a builder can recognize general building elements and requirements for construction. All comments from the 30% submittal are satisfactorily addressed. The set of drawings will include a cover sheet and an index sheet. The set of specifications will include a table of contents with not included specifications clearly identified.

- Civil:
 - All facilities are shown and located.
 - Grading plans and demolition plans are substantially complete.
 - Plan sheets are substantially complete.
 - Design calculations are complete.
 - Draft specifications are assembled.
- Structural:
 - Steel reservoir plans are essentially complete.
 - Retaining wall plans and sections are partially complete.
 - Other structural detail plans and sections are partially complete.
 - Design calculations are complete.
 - Structural detailing is partially complete.
 - Draft specifications are assembled.
- Mechanical:
 - Mechanical plans and sections are essentially complete.
 - Mechanical details are partially complete.
 - Equipment and valves are included in equipment schedules. Piping schedules are complete.
 - Specifications for the major equipment items are essentially complete. Additional specifications are in progress.
 - Design calculations are complete.

- **Electrical:**
 - Single line diagrams and motor control diagrams are partially complete.
 - Power and control plans are partially complete.
 - Panel, light fixtures and cable/conduit schedules are complete.
 - Duct bank and pull box details are partially complete.
 - Lighting and receptacle plans are partially complete.
 - Specifications for major equipment items have been drafted. Additional specifications are in progress.
 - Design calculations are complete.
 - Control schematic diagrams are partially complete.
- **Instrumentation:**
 - P&IDs are essentially complete and tag numbers are shown.
 - SCADA equipment numbering system is identified and included per City standards.
 - Process Control Strategies are essentially complete and tag numbers are included in descriptions.
 - I & C details are partially complete.
 - Specifications for instrumentation devices are started.

Subtask 2.2 90% Construction Documents

Drawings and details in all disciplines should be complete. Specifications should be essentially complete. Design calculations in all disciplines shall be essentially complete and checked.

Comments on design, drawings and specifications from previous reviews must have appropriate responses before the 90% progress submittal is submitted. Comments from both the 30% and 60% reviews by City staff, any constructability reviews, and review comments from regulatory agencies must have appropriate responses or actions.

Subtask 2.3 Maricopa County / Development Services Submittal

One (1) set of the 90% plans and specifications will be submitted to Maricopa County Environmental Services Department for review. One (1) review meeting will be conducted to discuss comments received from the County as required.

For City Plan Review, one (1) set of drawings will be submitted at the 90% progress submittal for review. The site grading plan, completed in the 60% submittal, will be provided as a separate submittal to the City Plan Review to obtain early review comments. One (1) review meeting will be conducted to discuss comments received from the City Plan Review Department.

NOTE: A \$10,000 allowance has been included for MCESD ATC permitting fees. It is assumed all other permit review fees will be the responsibility of the City.

Subtask 2.4 Building/Fire Code Compliance

The City requires that design and construction of new site facilities and modifications to existing site facilities be reviewed and inspected for building code compliance. Building permits are generally required for any building or construction involving plumbing, electrical, mechanical, or structural elements. Building Code compliance is determined by the Official assigned to the City of Chandler Building Permit Department.

The Engineer will continue to assist the City with the reviews and coordination of the Project with City's Building Permit Department. The reviews and coordination will require the following:

- Prepare the necessary documents and information to use during meetings with Building Permit Department;
- Prepare any follow-up reports resulting from above meetings;
- Prepare the required construction drawings to submit to Permit Department for review and respond to review comments after consulting with Water Services staff;
- Assist in obtaining any permits from the Permit Department in advance of construction.

Drawings and other documents that are submitted to Permit Department must be prepared with enough detail to show code compliance.

The Engineer will conduct a formal review meeting with the Fire Department and then submit the pre-final drawings for Fire Department review and approval. The Engineer will receive the review comments or requirements and after consulting with and advising the City Project Manager about those comments or requirements, revise the drawings and specifications and obtain Fire Department approval.

Subtask 2.5 Develop Process Control Description

The Engineer will write control descriptions of each process area to be configured in the computer control system. The Engineer will obtain information from a combination of process design personnel, contract documents, preliminary equipment supplier schematics, and City programmers for details and examples of past descriptions. The control descriptions will be coordinated with the process and instrumentation diagrams and the process design intent. The control descriptions will be guidelines for the computer control system configuration. Control descriptions will be developed to provide a process description and basic operating instructions that can also be used for the Operations Manual. All descriptions will be developed using Microsoft Word. The control descriptions will consist of the following:

1. Background information of the equipment and process
2. Purpose of local and computer control at the facility
3. Description of local control

4. Description of computer manual control
5. Description of computer automatic control
6. List of indicators and alarms available at the local panels
7. List of indicators and alarms available at the computer control system
8. List of trends to be recorded at the computer control system

When the control descriptions are completed for each process area, they will be submitted to the City for review. A review meeting will be held with the City to obtain comments. The control descriptions will be revised in response to City comments and submitted to the City for their use.

Control descriptions will be developed for areas that require control via SCADA and that are being rehabilitated or modified. Control descriptions will be developed as required for the following facilities:

- Booster Pump Station
- Groundwater Well(s)
- Chlorine Feed Facility(ies)

Subtask 2.6 Final (100%) Submittal

Drawings and specifications should be complete and accepted by the City and incorporate any comments and changes required from reviews by the MCESD and City's Building Permit Department. All construction documents should be complete and ready for construction pricing of the work.

TASK 3.0 PROJECT DELIVERY METHOD ASSISTANCE

Subtask 3.1 Project Delivery Method Assistance

The ENGINEER will assist the City with the CMAR or Design-Bid-Build project delivery method. The ENGINEER's effort to coordinate with the CM at Risk or Design-Bid-Build project delivery method will consist of:

CMAR Delivery Method:

- Solicit CM at Risk input during design development as appropriate;
- Provide information for cost estimating;
- Provide assistance with long-lead procurement activities;
- Evaluate alternative systems suggested by CM at Risk;
- Respond to constructability review comments;
- Attend subcontractor pre-selection meetings conducted by CM at Risk;
- Assist and review during GMP/cost development;
- Perform GMP/cost proposal review and prepare recommendation to City;
- Assist City with review of the subcontractor/supplier bid and selection process.

Design-Bid-Build Delivery Method:

- Modify Contract Documents to assist in facilitating design-bid-build project delivery.
- Prepare and complete modifications to bid item list based on comments received from the City.
- Attend pre-bid conference to answer questions pertaining to the Contract Documents.
- Receive and respond to bidder inquiries after each pre-bid conference.
- Review equipment submittals presented for prior approval (according to the City's requirements) and prepare addenda required to clarify or modify the Contract Documents.
- Attend each bid opening, review bids, and make recommendation for award.

+ END SCOPE OF SERVICES +

[illegible]

CITY OF CHANDLER
BASHA WPF & OCOTILLO AND PLEASANT WELLS
REHABILITATION PROJECT

SHEET LIST

Sheet No.	Drawing No.	Description
1	G-1	Cover Sheet
2	G-2	General Notes 1
3	G-3	General Notes 2 and Sheet Index
4	G-4	Legends, Symbols, and Abbreviations
5	G-5	Vicinity Map
6	G-6	Site Process Flow Diagram
7	G-7	Survey Control Sheet
8	D-1.0	Overall Demolition View of WPF
9	D-2.0	Overall Demolition View of Wells
10	D-3.0	WPF Site Demolition
11	D-4.0	Demolition Building Elevations
12	D-5.0	Demolition Piping and Equipment Plan
13	D-6.0	Demolition Reservoir Plan and Sections
14	D-7.0	Demolition Well 1 and 2 Plan and Sections
15	D-8.0	Demolition WPF Electrical System Plan and Sections
16	D-9.0	Demolition Wells 1 and 2 Electrical System Plan and Sections
17	D-10.0	Demolition Photos 1
18	D-11.0	Demolition Photos 2
19	C-1.0	Piping Plan and Profile 1
20	C-2.0	Piping Plan and Profile 2
21	C-3.0	Piping Plan and Profile 3
22	C-4.0	Grading and Drainage Plan
23	A-1.0	Prefabricated Building Plan
24	A-2.0	Prefabricated Building Sections
25	P-1.0	WPF 3D Rendering
26	P-2.0	Reservoir Lower Layout
27	P-3.0	Reservoir Upper Layout
28	P-4.0	Reservoir Sections 1
29	P-5.0	Reservoir Sections 2
30	P-6.1	Booster Pump Station Plan
31	P-6.2	Booster Pump Station Sections
32	P-7.1	Well 1 Plan and Sections
33	P-7.2	Well 2 Plan and Sections
34	P-8.1	Chemical Feed Plan and Sections 1
35	P-8.2	Chemical Feed Plan and Sections 2
36	P-9.0	Site Signage Details
37	P-10.0	Civil and Mechanical Details 1
38	P-10.1	Civil and Mechanical Details 2
39	P-10.2	Civil and Mechanical Details 3
40	P-10.3	Civil and Mechanical Details 4
41	P-10.4	Civil and Mechanical Details 5
42	P-10.5	Civil and Mechanical Details 6
43	S-1.0	General Structural Notes 1
44	S-2.0	General Structural Notes 2
45	S-3.0	Overall Plan
46	S-4.0	Reservoir Demolition Plan
47	S-5.0	Reservoir Roof Framing Plan
48	S-6.0	Reservoir Floor Plan
49	S-7.0	Booster Pump Plan and Repair Details
50	S-8.0	Well 1 and 2 Plan
51	S-9.0	Roof Framing Sections and Details
52	S-10.0	Roof Truss Specifications
53	S-11.0	Reservoir Sections and Details

CITY OF CHANDLER
BASHA WPF & OCOTILLO AND PLEASANT WELLS
REHABILITATION PROJECT

SHEET LIST

Sheet No.	Drawing No.	Description
54	S-12.1	Structural Details 1
55	S-12.2	Structural Details 2
56	S-12.3	Structural Details 3
57	H-1.0	Building HVAC System Plan
58	H-1.1	Building HVAC System Details
59	E-1.0	Electrical Abbreviations
60	E-2.0	Electrical Symbols and Legend
61	E-3.0	WPF Single Line Diagram
62	E-4.0	WPF Load Summaries
63	E-5.0	Well 1 Single Line Diagram
64	E-6.0	Well 2 Single Line Diagram
65	E-7.0	Well 1 Load Summaries
66	E-8.0	Well 2 Load Summaries
67	E-9.0	Panel Schedules and Calculations
68	E-10.0	WPF Electrical Site Plan
69	E-11.0	Well 1 Electrical Site Plan
70	E-12.0	Well 2 Electrical Site Plan
71	E-13.0	Electrical Distribution Equipment Enlarged Power and Lighting Plan
72	E-14.0	Reservoir Enlarged Power Plan
73	E-15.0	Booster Pump Station Enlarged Power Plan
74	E-16.0	Chlorine Feed System Power and Lighting Plan
75	E-17.0	Schematic Diagram 1
76	E-18.0	Schematic Diagram 2
77	E-19.0	Schematic Diagram 3
78	E-20.0	Schematic Diagram 4
79	E-21.0	Power Conduit Block Diagram 1
80	E-22.0	Power Conduit Block Diagram 2
81	E-23.0	Power Conduit Block Diagram 3
82	E-24.0	Control Conduit Power Diagram 1
83	E-25.0	Control Conduit Power Diagram 2
84	E-26.0	Control Conduit Power Diagram 3
85	E-27.1	Electrical Details 1
86	E-27.2	Electrical Details 2
87	I-1.0	Instrumentation Symbols and Legend
88	I-2.0	Instrumentation Extensions
89	I-3.0	Reservoir P&ID
90	I-4.0	Booster Pump Station P&ID
91	I-5.0	Well 1 Pump P&ID
92	I-6.0	Well 2 Pump P&ID
93	I-7.0	Chlorine Feed System(s) P&ID
94	I-8.1	System Communication Architecture 1
95	I-8.2	System Communication Architecture 2

EXHIBIT "B"
COMPENSATION AND FEES

City of Chandler
Basha Water Production Facility &
Ocotillo and Pleasant Wells Rehabilitation Project
City Project No.: WA2502.201
EXHIBIT "B-1"
Cost Plus Reimbursible Per Task

WILSON
ENGINEERS

TASK DESCRIPTION		SUBTOTAL
1. Design Development		\$ 454,947.00
	Conduct and Attend Meetings	\$ 20,572.00
	Data Collection and Review	\$ 15,888.00
	Determine Basis of Design	\$ 17,328.00
	Determine Site Conditions	\$ 30,280.00
	Perform Asset Condition Assessment	\$ 50,248.00
	Prepare Draft and Final Condition Assessment Report	\$ 44,867.00
	Thirty Percent (30%) Progress Submittal	\$ 219,942.00
	Preliminary Facility Design Report and Cost Estimate	\$ 55,822.00
2. Detailed Design		\$ 686,332.00
	60% Construction Documents	\$ 228,846.00
	90% Construction Documents	\$ 283,142.00
	Maricopa County / Development Services Submittal	\$ 12,378.00
	Building/Fire Code Compliance	\$ 6,618.00
	Develop Process Control Description	\$ 32,466.00
	Final (100%) Submittal	\$ 122,882.00
3. Project Delivery Method Assistance		\$ 47,418.00
	Project Delivery Method Assistance	\$ 47,418.00
4. Other Direct Costs		\$ 510,754.00
	Geotechnical Investigation Allowance	\$ 45,000.00
	Topographic Survey Allowance	\$ 12,000.00
	Coatings Inspection Allowance	\$ 3,000.00
	Hydrogeologist (<i>Matrix New World, See Attached Proposal</i>)	\$ 393,754.00
	Reservoir Floor Magnetic Flux Leakage Testing Allowance	\$ 18,000.00
	CCTV Inspections Allowance	\$ 27,000.00
	Reimbursable Expenses (Permit Fees, Printing etc)	\$ 12,000.00
5. Owner's Allowance		\$ 100,000.00
TOTAL COST:		\$ 1,799,451.00

City of Chandler
Basha Water Production Facility & Ocotillo and Pleasant Wells Rehabilitation Project
City Project No.: WA2502.201
EXHIBIT "B-2"
Hours and Rates



		Principal	Sr. Professional	Sr. PM (Process, E/I, Str.)	Sr. Engr.	Project Engineer	Lead EI&C	CADD Technicians	Admin	< PROJECT ROLE	
		Mike Johnson	Alan Palmquist	Branden W., Mike C., Jaco K., Chris Y.	Ray P., Camila F., Megan S., Brandon O.	Majid R., Andrea A., Kiarash R., Stephen D.	Elvin R., Sai C.	Kam C., Diana E., Amber A., Erin B., Calvin G.	Monica F., Paulina D., Mikayla R.	< NAME OF PERSON	
		\$ 315.00	\$ 315.00	\$ 273.00	\$ 230.00	\$ 186.00	\$ 186.00	\$ 135.00	\$ 125.00	< HOURLY RATES	
TASK DESCRIPTION										TOTAL HOURS PER TASK	
1. Design Development		9	36	272	444	711	360	444	42	2318	
	Conduct and Attend Meetings	4	16	24	16	15			10	85	
	Data Collection and Review			8	24	44				76	
	Determine Basis of Design			16	24	40				80	
	Determine Site Conditions			24	32	56	32			144	
	Perform Asset Condition Assessment		8	56	44	80	40			228	
	Prepare Draft and Final Condition Assessment Report	1	4	44	32	64	36	32	8	221	
	Thirty Percent (30%) Progress Submittal	2	4	56	224	324	220	356	16	1202	
	Preliminary Facility Design Report and Cost Estimate	2	4	44	48	88	32	56	8	282	
2. Detailed Design		8	58	376	602	1070	714	636	54	3518	
	60% Construction Documents	2	24	124	200	340	264	196	16	1166	
	90% Construction Documents	2	24	144	256	420	290	320	12	1468	
	Maricopa County / Development Services Submittal		2	8	20	24			4	58	
	Building/Fire Code Compliance			4	10	16			2	32	
	Develop Process Control Description	2	4	32	20	50	40		4	152	
	Final (100%) Submittal	2	4	64	96	220	120	120	16	642	
3. Project Delivery Method Assistance		2	4	24	64	80	16	40	8	238	
	Project Delivery Method Assistance	2	4	24	64	80	16	40	8	238	
4. Other Direct Costs		0	0	0	0	0	0	0	0	0	
5. Owner's Allowance											
TOTAL HOURS:		19	98	672	1110	1861	1090	1120	104	6074	

EXHIBIT "C"

INSURANCE REQUIREMENTS

1. General.

- 1.1 At the same time as execution of this Agreement, Consultant must furnish City a certificate of insurance on a standard insurance industry ACORD form. The ACORD form must be issued by an insurance company authorized to transact business in the State of Arizona possessing a current A.M. Best, Inc. rating of A-7, or better and legally authorized to do business in the State of Arizona with policies and forms satisfactory to City. Provided, however, the A.M. Best rating requirement will not be deemed to apply to required Workers' Compensation coverage.
- 1.2 Consultant and any of its subconsultants must procure and maintain, until all of their obligations have been discharged, including any warranty periods under this Agreement are satisfied, the insurances set forth below.
- 1.3 The insurance requirements set forth below are minimum requirements for this Agreement and in no way limit the indemnity covenants contained in this Agreement.
- 1.4 City in no way warrants that the minimum insurance limits contained in this Agreement are sufficient to protect Consultant from liabilities that might arise out of the performance of the Agreement services under this Agreement by Consultant, its agents, representatives, employees, subconsultants, and Consultant is free to purchase any additional insurance as may be determined necessary.
- 1.5 Failure to demand evidence of full compliance with the insurance requirements in this Agreement or failure to identify any insurance deficiency will not relieve Consultant from, nor will it be considered a waiver of its obligation to maintain the required insurance at all times during the performance of this Agreement.
- 1.6 Use of subconsultants: If any work is subcontracted in any way, Consultant must execute a written Agreement with subconsultant containing the same Indemnification Clause and Insurance Requirements as City requires of Consultant in this Agreement. Consultant is responsible for executing the Agreement with the subconsultant and obtaining Certificates of Insurance and verifying the insurance requirements.

2. Minimum Scope and Limits of Insurance. Consultant must provide coverage with limits of liability not less than those stated below.

- 2.1 *Professional Liability.* If the Agreement is the subject of any professional services or work performed by Consultant, or if Consultant engages in any professional services or work adjunct or residual to performing the work under this Agreement, Consultant must maintain Professional Liability insurance covering errors and omissions arising out of the work or services performed by Consultant, or anyone employed by Consultant, or anyone whose acts, mistakes, errors and omissions Consultant is legally liable, with a liability limit of \$1,000,000 each claim and \$2,000,000 all claims. In the event the Professional Liability insurance policy is written on a "claims made" basis, coverage must extend for 3 years past

completion and acceptance of the work or services, and Consultant, or its selected Design Professional will submit Certificates of Insurance as evidence the required coverage is in effect. The Design Professional must annually submit Certificates of Insurance citing that the applicable coverage is in force and contains the required provisions for a 3 year period.

2.2 *Commercial General Liability-Occurrence Form.* Consultant must maintain "occurrence" form Commercial General Liability insurance with a limit of not less than \$2,000,000 for each occurrence, \$4,000,000 aggregate. Said insurance must also include coverage for products and completed operations, independent contractors, personal injury and advertising injury. If any Excess insurance is utilized to fulfill the requirements of this paragraph, the Excess insurance must be "follow form" equal or broader in coverage scope than underlying insurance.

2.3 *Automobile Liability-Any Auto or Owned, Hired and Non-Owned Vehicles Vehicle Liability:* Consultant must maintain Business/Automobile Liability insurance with a limit of \$1,000,000 each accident on Consultant owned, hired, and non-owned vehicles assigned to or used in the performance of Consultant's work or services under this Agreement. If any Excess or Umbrella insurance is utilized to fulfill the requirements of this paragraph, the Excess or Umbrella insurance must be "follow form" equal or broader in coverage scope than underlying insurance.

2.4 *Workers Compensation and Employers Liability Insurance:* Consultant must maintain Workers Compensation insurance to cover obligations imposed by federal and state statutes having jurisdiction of Consultant employees engaged in the performance of work or services under this Agreement and must also maintain Employers' Liability insurance of not less than \$1,000,000 for each accident and \$1,000,000 disease for each employee.

2.5 *Cyber Technology Errors and Omissions, Network Security, and Privacy Liability Insurance.* The policy must cover professional misconduct or lack of ordinary skill for those positions defined in the Scope of Services of this Agreement with a limit of not less than \$6,000,000 for each occurrence, \$6,000,000 aggregate. In the event that the professional liability insurance required by this Agreement is written on a claims-made basis, Consultant warrants that any retroactive date under the policy must precede the effective date of this Agreement; and that either continuous coverage will be maintained or an extended discovery period will be exercised for a period of two (2) years beginning at the time work under this Agreement is completed. If such insurance is maintained on an occurrence form basis, Consultant must maintain such insurance for an additional period of one (1) year following termination of Agreement. If such insurance is maintained on a claims-made basis, Consultant must maintain such insurance for an additional period of three (3) years following termination of the Agreement. If Consultant contends that any of the insurance it maintains pursuant to other sections of this Exhibit C satisfies this requirement (or otherwise insures the risks described in this section), then Consultant must provide proof of same.

2.5.1. The insurance must provide coverage for the following risks:

2.5.1.1 Liability arising from theft, dissemination, or use of confidential information (a defined term including but not limited to bank account, credit card account, personal information such as name, address, social security numbers, etc. information) stored or transmitted in electronic form.

2.5.1.2 Network Security Liability arising from the unauthorized access to, use of, or tampering with computer systems including hacker attacks, inability of an authorized third party, to gain access to your services including denial of service, unless caused by a mechanical or electrical failure.

2.5.1.3 Liability arising from the introduction of a computer virus into, or otherwise causing damage to, a customer's or third person's computer, computer system, network, or similar computer related property and the data, software, and programs thereon.

2.5.2. The policy must provide a waiver of subrogation.

3. Additional Policy Provisions Required.

3.1 *Self-Insured Retentions or Deductibles.* Any self-insured retentions and deductibles must be declared and approved by City. If not approved, City may require that the insurer reduce or eliminate any deductible or self-insured retentions with respect to City, its officers, officials, agents, employees, and volunteers.

3.1.1. Consultant's insurance must contain broad form contractual liability coverage.

3.1.2. Consultant's insurance coverage must be primary insurance with respect to City, its officers, officials, agents, and employees. Any insurance or self-insurance maintained by City, its officers, officials, agents, and employees will be in excess of the coverage provided by Consultant and must not contribute to it.

3.1.3. Consultant's insurance must 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.

3.1.4. Coverage provided by Consultant must not be limited to the liability assumed under the indemnification provisions of this Agreement.

3.1.5. The policies must contain a severability of interest clause and waiver of subrogation against City, its officers, officials, agents, and employees, for losses arising from Work performed by Consultant for City. (Does not apply to Professional Liability coverage.)

3.1.6. Consultant, its successors and or assigns, are required to maintain Commercial General Liability insurance as specified in this Agreement for a minimum period of 3 years following completion and acceptance of the Work. Consultant must submit a Certificate of Insurance evidencing Commercial General Liability insurance during this 3-year period containing all the Agreement insurance requirements, including naming City of Chandler, its agents, representatives, officers, directors, officials and employees as Additional Insured as required.

3.1.7. If a Certificate of Insurance is submitted as verification of coverage, City will reasonably rely upon the Certificate of Insurance as evidence of coverage, but this acceptance and reliance will not waive or alter in any way the insurance requirements or obligations of this Agreement.

3.2. *Insurance Cancellation During Term of Agreement.*

3.2.1. If any of the required policies expire during the life of this Agreement, Consultant must forward renewal or replacement Certificates to City within 10 days after the renewal date containing all the required insurance provisions.

3.2.2. Each insurance policy required by the insurance provisions of this Agreement must provide the required coverage and must not be suspended, voided or canceled except after thirty (30) days prior written notice has been given to City, except when cancellation is for non-payment of premium, then ten (10) days prior notice may be given. Such notice must be sent directly to Chandler Law-Risk Management Department, Post Office Box 4008, Mailstop 628, Chandler, Arizona 85225. If any insurance company refuses to provide the required notice, Consultant or its insurance broker must notify City of any cancellation, suspension, non-renewal of any insurance within seven (7) days of receipt of insurers' notification to that effect.

3.3 *City as Additional Insured.* The policies are to contain, or be endorsed to contain, the following provisions:

3.3.1. The Commercial General Liability and Automobile Liability policies are to contain, or be endorsed to contain, the following provisions: City, its officers, officials, agents, and employees are additional insureds with respect to liability arising out of activities performed by, or on behalf of, Consultant; Products and Completed operations of Consultant; and automobiles owned, leased, hired, or borrowed by Consultant.

3.3.2. City, its officers, officials, agents, and employees must be additional insureds to the full limits of liability purchased by Consultant even if those limits of liability are in excess of those required by this Agreement.

EXHIBIT "D"

SPECIAL CONDITIONS

Standard Details and Specifications. Consultant must be familiar with City's latest revision of the MAG Specifications and MAG Standard Details as amended by City. City's current amendment to the MAG Specifications, part of City's Unified Development Manual, may be found and downloaded from City's website at <http://www.chandleraz.gov/udm>.

City Ownership of Project Documents. All work products (electronically or manually generated) including, but not limited to: plans, specifications, cost estimates, field notes, tracings, studies, investigations, design analyses, original drawings, original mylars, Computer Aided Drafting and Design (CADD) file diskettes which reflect all final drawings, and other related documents which are prepared in the performance of this Agreement (collectively referred to as "Documents") are to be and remain the property of City and are to be delivered to the Project Manager before the final payment is made to Consultant. In the event these Documents are altered, modified or adapted without the written consent of Consultant, which consent Consultant must not unreasonably withhold, City agrees to hold Consultant harmless to the extent permitted by law from the legal liability arising out of City's alteration, modification or adaptation of the Documents.

Re-use of Documents. The parties agree the documents, drawings, specifications and designs, although the property of City, are prepared for this specific project and are not intended nor represented by Consultant to be suitable for re-use for any other project. Any re-use without written verification or adaptation by Consultant for the specific purpose intended will be at City's sole risk and without liability or legal exposure to Consultant.

Documents to Bear Seal. Consultant and its subconsultants must endorse by professional seal all plans, works, and deliverables prepared by each for this Agreement as required by state law.

Contract Worker Access Controls, Badge and Key Access Requirements. A Contract Worker from Consultant's firm must not be allowed to begin work in any City facility without: (A) The prior completion and City's acceptance of the required background screening; and (8) when required, the Contract Worker's receipt of a City issued badge. A badge will be issued to a Contract Worker solely for access to City facility(s) to which the Contract Worker is assigned. Each Contract Worker who enters a City facility must use the badge issued to the Contract Worker.

Badges. After receipt of the badge application, the Contract Worker will proceed to the Badging Office for processing of the badge application and issuance of the badge. City will not process the badge application until the Contract Worker satisfies the required Background Screening (as defined herein). The Contract Worker must comply with all requirements and furnish all requested information as requested by the Badging Office. Any and all fees associated with security badging will be assessed in compliance with Chandler City Code §4-22.

Key Access Procedures. If the Contract Worker's services require keyed access to enter a City

facility(s), a separate key issue/return form must be completed and submitted by Consultant for each key issued.

Stolen or Lost Badges or Keys. Consultant must report lost or stolen badges or keys to City immediately. A new badge application or key issue form must be completed and submitted along with payment of the applicable fees prior to issuance of a new badge or key.

Return of Badges or Keys. All badges and keys are the property of City and must be returned to City at the Badging Office within one (1) business day of when the Contract Worker's access to a City facility is no longer required to furnish the services under this Agreement. Consultant must collect a Contract Worker's badge and key(s) upon the termination of the Contract Worker's employment; when the Contract Worker's services are no longer required at the particular City facility(s); or upon termination, cancellation or expiration of this Agreement.

Consultant's default under this Section must include, but is not limited to the following: (1) Contract Worker gains access to a City facility(s) without the proper badge or key; (2) Contract Worker uses a badge or key of another to gain access to a City facility; (3) Contract Worker commences services under this Agreement without the proper badge, key or Background Screening; (4) Contract Worker or Consultant submits false information or negligently submits wrong information to City to obtain a badge, key or applicable Background Screening; or (5) Consultant fails to collect and timely return Contract Worker's badge or key upon termination of Contract Worker's employment, reassignment of Contract Worker to another City facility or upon the expiration, cancellation or termination of this Agreement. Consultant acknowledges and agrees that the access control, badge and key requirements in this Section are necessary to preserve and protect public health, safety and welfare. Accordingly, Consultant agrees to properly cure any default under this Section within three (3) business days from the date notice of default is sent by City. The parties agree that Consultant's failure to properly cure any default under this Section must constitute a breach of this Section. In addition to any other remedy available to City at law or in equity, Consultant must be liable for and must pay to City the sum of one thousand dollars (\$1,000.00) for each breach by Consultant of this Section. The parties further agree that the sum fixed above is reasonable and approximates the actual or anticipated loss to City at the time and making of this Agreement in the event that Consultant breaches this Section. Further, the parties expressly acknowledge and agree to the fixed sum set forth above because of the difficulty of proving City's actual damages in the event that Consultant breaches this Section. The parties further agree that three (3) breaches by Consultant of this Section arising out of any default within a consecutive period of three (3) months or three (3) breaches by Consultant of this Section arising out of the same default within a period of twelve (12) consecutive months will constitute a material breach of this Agreement by Consultant and City expressly reserves all of its rights, remedies and interests under this Agreement, at law and in equity including, but not limited to, termination of this Agreement.

EXHIBIT "E"
SUBCONSULTANT DOCUMENTS WITH CONSULTANT

Any subconsultant assumptions, clarifications, exclusions, terms & conditions, signature blocks, etc. included are strictly between the Consultant and their subconsultants, and do not apply to the Agreement between the Consultant and the City.

Matrix New World Engineering
 3033 N. 44 Street, Ste 270
 Phoenix, AZ 85018
 602.955.5547 973.240.1800
 mnwe.com

June 30, 2026



Mr. Alan Palmquist, PE, Principal Associate
 Wilson Engineers
 1620 W Fountainhead Pkwy, Suite 501
 Tempe, AZ 85282
 Electronically Submitted to: alan.palmquist@wilson-engineers.com

P26-00092

SUBJECT: Proposal – Well Rehabilitation Ocotillo and Pleasant Wells, Basha Water Production Facility, City of Chandler Project Number: WA2502.201

Dear Mr. Palmquist:

Matrix New World Engineering is pleased to present to Wilson Engineers this proposal and cost estimate to assist with the evaluation and rehabilitation of the City of Chandler's Ocotillo Well (ADWR No. 55-212522) and Pleasant Well (ADWR No. 55-213213) at the Basha Water Production Facility. Both municipal production wells have experienced operational issues associated with sand production that may be affecting long-term performance, maintenance requirements, and reliability. Reportedly, the Ocotillo Well has previously required installation of swage patches within the well casing, and the Pleasant Well, has historically exhibited elevated nitrate concentrations that require blending at the Basha Water Production Facility to meet water quality objectives.

Matrix's proposed Scope of Services is included in **Exhibit A** and is summarized as follows:

Task 1	Project Management and Meetings	\$ 18,680.00
Task 2	Well Evaluation and Video Survey	\$ 39,215.24
Task 3	Well Rehabilitation	\$ 196,401.69
Task 4	Spinner logging and Depth Discrete Sampling	\$ 81,493.70
Task 5	Reporting and Recommendations	\$ 21,964.00
	Owners Allowance	\$ 36,000.00
TOTAL:		\$ 393,754.63

If you have any questions or require additional information, please contact Harry Brenton at 480.322.1474 or hbrenton@mnwe.com.

Sincerely,

Matrix New World Engineering

Harry S. Brenton, RG
 Vice President, Hydrogeological Services

Georgia L. Waters, RG
 Senior Project Hydrogeologist

Exhibit A Scope of Services
 Exhibit B Fee Schedule
 Exhibit C Detailed Cost Estimate

EXHIBIT “A”
SCOPE OF SERVICES
WELL REHABILITATION OCOTILLO AND PLEASANT WELLS
PROJECT NO. WW2502.201

(Matrix Project No. 26-00092)

Based on our current understanding of the performance of the Ocotillo and Pleasant Wells, uncertainty exists regarding the condition of the wells, including the extent and causes of sand production, potential biological fouling, mineral incrustation, structural deterioration, screen plugging, and other factors that may be affecting well performance and water quality. Matrix recognizes that the City’s operations staff possess valuable knowledge regarding the historical performance, maintenance history, operational challenges, and observed changes in well behavior. Accordingly, Matrix will work closely with City operators throughout the evaluation process to better understand the operational history of each well and to incorporate their observations into the overall assessment. Because the downhole condition of the wells cannot be fully evaluated until the pumping equipment is removed and detailed field investigations are completed, the type, extent, and effectiveness of mechanical and chemical rehabilitation measures required cannot be determined with certainty at this time.

Recognizing this uncertainty, Matrix has developed a thoughtful and phased approach to the scope of services that emphasizes condition assessment, data collection, and technical evaluation prior to implementation of rehabilitation measures. This approach is intended to reduce technical uncertainty, optimize rehabilitation effectiveness, and provide the City with the information necessary to make informed decisions regarding subsequent rehabilitation efforts, operational modifications, or potential long-term corrective actions.

Throughout the evaluation and any rehabilitation activities that are conducted, Matrix will maintain regular communication with Wilson Engineers and the City, providing updates regarding project progress, field observations, findings, and recommendations as information becomes available to support timely decision-making and effective project coordination.

Task 1.0 Project Management and Meetings

Matrix will provide focused and efficient project management to support the City during well evaluation and rehabilitation process for the Ocotillo Well and Pleasant Well. Project management will be led by a senior technical lead with support from project management staff and experienced field personnel, serving as the primary point of contact for the City, Wilson and coordinating closely with the Drilling Contractor. Responsibilities will include managing scope, schedule, and budget; tracking progress across well abandonment and replacement activities; providing quality assurance and technical oversight to ensure compliance with project specifications and applicable standards; and maintaining complete project documentation, including field records, daily reports, and key decisions. Matrix will review/approve Contractor’s official project schedule, approve/sign contractor pay applications, utility coordination as applicable, assist in project closeout, review/approve project record drawings.

Communication will be structured for consistent and proactive coordination throughout the duration of the Project. Matrix will work with Wilson and the City to create metering agendas, confirm project objectives, roles, communication protocols, and anticipated schedule and prepare meeting minutes. During field activities, Matrix will provide ongoing day-to-day coordination through direct communication between field personnel and the contractor, supplemented by daily email updates summarizing field activities, progress, and any issues requiring City awareness or input.

Task 2 – Well Evaluation and Video Survey

Matrix will perform a comprehensive evaluation of Ocotillo Well and Pleasant Well to establish baseline well conditions, identify the mechanisms contributing to reduced performance, and develop rehabilitation recommendations tailored to each well. This evaluation phase is intended to minimize uncertainty prior to implementation of rehabilitation activities and will provide the technical basis for selection of both mechanical and chemical rehabilitation methods. The scope of work for each well will include the following elements:

Water Quality and Microbiological Characterization

Prior to removal of pumping equipment, Matrix will collect groundwater samples from each well during normal operations. Samples will be analyzed to characterize the groundwater chemistry and evaluate potential biological influences affecting well performance. Analytical parameters will include major ions, calcium, sodium, copper, zinc, silica, potassium, iron, manganese, sulfate, chloride, nitrate, phosphate alkalinity, and total bacteria. Specialized microbiological analyses may also be performed to evaluate the presence microbial consortia capable of contributing to biofouling and mineral encrustation.

Results of the water quality and microbiological analyses will be reviewed to identify potential chemical and biological mechanisms responsible for reduced well efficiency and to support selection of appropriate mechanical and chemical rehabilitation procedures.

Pump Removal and Deflocculant Treatment

Following completion of water quality sampling, the Weber will remove the existing pump, column pipe, wire, and associated downhole equipment from each well. Upon completion of pump removal activities, Matrix will coordinate the placement deflocculating agent into each well to promote settling of the suspended material. Each well will remain idle for approximately one week to allow sufficient time for the water to clear.

Initial Downhole Video Survey

After the one-week period, Matrix will oversee a color downhole video survey of each well. The video survey will be performed to document existing well conditions and evaluate potential causes of reduced performance such as.

- Structural condition of the casing and screen.
- Presence and extent of biological fouling, mineral incrustation, or sediment accumulation.
- Open area and condition of screen or perforated intervals.
- Presence of corrosion, scale buildup, or damage.
- Depth of accumulated fill or sediment within the well.
- General condition of the well and opportunities for rehabilitation.

Rehabilitation Evaluation and Rehabilitation Plan Development

Following completion of the water quality evaluation and video survey, Matrix will evaluate the results conjunction with historical well construction records, operational data, and water chemistry results to prepare a rehabilitation plan for each well. The evaluation will also identify the likely causes of performance degradation and assess the suitability of various rehabilitation techniques.

The well specific rehabilitation plan that may include mechanical rehabilitation methods such as brushing, swabbing, surging, bailing, airlifting, or other physical cleaning techniques, as well as chemical rehabilitation methods utilizing acids, dispersants, oxidizing agents, biological treatment products, or other specialty rehabilitation chemicals.

Prior to proceeding with any rehabilitation plan, Matrix will conduct a meeting (**Meeting #1**) with Wilson and the city to discuss the results and potential rehabilitation options. Subsequent rehabilitation will only proceed with the City's approval.

Task 3 – Well Rehabilitation

Following completion of **Task 2.0** and authorization by the City, Matrix will oversee rehabilitation activities for Ocotillo Well and Pleasant Well. Rehabilitation procedures will be tailored to the specific conditions identified during the evaluation phase and may include a combination of mechanical and chemical treatment methods.

Sediment Removal and Sample Collection

Prior to commencement of rehabilitation activities, accumulated fill material, sediment, and debris present within the bottom of each well will be removed using a bailer or other approved recovery method. The depth and quantity of material removed will be documented.

Representative samples of the recovered material will be collected and submitted for laboratory grain-size analysis. Results will be used to evaluate the source of the material, determine whether filter-pack migration or formation infiltration has occurred, and assist in assessing the effectiveness of rehabilitation activities. Observations regarding the color, texture, grain size, mineral composition, and estimated volume of recovered material will also be documented.

Mechanical Rehabilitation

Mechanical rehabilitation will be performed to remove biological growth, mineral precipitates, scale accumulation, and fine-grained materials from the well casing, screen intervals, and adjacent filter pack.

Mechanical rehabilitation activities may include the use of downhole brushing tools to physically remove adherent deposits from the casing and screen surfaces. Following brushing, swabbing and airlift development procedures will be conducted throughout the screened interval to agitate the filter pack, remove loosened materials, and restore hydraulic communication between the well and surrounding formation.

Swabbing and airlifting activities will continue until discharge water quality, turbidity, and sediment production indicate that the majority of loosened materials have been removed.

Chemical Rehabilitation

Following completion of the mechanical rehabilitation activities, chemical treatment may be performed as necessary based on the results of **Task 1.0** and observations made during rehabilitation.

Chemical treatment may include the use of acids, dispersants, oxidizing agents, biofouling control products, or other specialty rehabilitation chemicals selected to dissolve mineral scale and remove biological fouling from the well screen and surrounding filter pack. Chemical selection, concentration, and

application procedures will be based on the results of the water quality analysis, microbiological evaluation, and video survey findings completed during **Task 2.0**.

Post-Rehabilitation Video Survey

Upon completion of all rehabilitation activities, Matrix will oversee a color downhole video survey of each well to document post-rehabilitation conditions and evaluate the effectiveness of the rehabilitation efforts. The post-rehabilitation video survey will be used to assess:

- Removal of scale, mineral precipitates, and biological growth.
- Condition of the casing and screen following rehabilitation.
- Openness of perforated or screened intervals.
- Presence of any remaining sediment accumulation or fill material.
- Changes in well condition compared to the pre-rehabilitation video survey.

Video survey observations will be compared with findings from the initial inspection to assess rehabilitation effectiveness and to identify any additional recommendations for future operation, maintenance, or rehabilitation activities.

Upon completion of **Task 3.0**, Matrix will conduct a meeting (**Meeting #2**) with Wilson and City of Chandler documenting rehabilitation procedures performed, materials removed, grain-size analysis results, treatment methods utilized, and observations from the post-rehabilitation video survey. This information will be used to support post-rehabilitation performance testing and final rehabilitation recommendations.

Task 4 – Spinner Logging and Depth-Discrete Sampling

Following completion of the well rehabilitation activities, Matrix will perform spinner logging and depth-discrete groundwater quality sampling to evaluate the hydraulic performance of each well, identify groundwater-producing intervals, and characterize vertical variations in groundwater quality. This information will be used to determine the relative contribution of individual aquifer zones to total well production and assess the occurrence of water-quality constituents that may affect long-term well operation.

Test Pump Installation and Well Preparation

A temporary test pumping system will be installed in each well to facilitate hydraulic testing, spinner logging, and depth-specific groundwater sampling. The temporary pumping equipment will include a test pump, sounding tubes for water-level monitoring, and discharge piping configured to support hydraulic measurements and water-quality sample collection.

The discharge assembly will include:

- A calibrated flow meter for measurement of pumping rates.
- A sampling spigot for collection of groundwater quality samples during testing.
- A Rossum Sand Tester for periodic measurement of sand production.
- Additional valves and appurtenances necessary to regulate discharge and testing operations.

The temporary pumping system will remain in place for the duration of spinner logging and sampling activities.

To facilitate downhole logging and depth-specific groundwater sampling while the well is pumping, the test pumping system will include installation of a dedicated 3-inch-diameter drop pipe extending from the surface to the target logging depth. The access pipe will provide a conduit for deployment of spinner logging equipment and depth-discrete groundwater sampling tools without interrupting pumping operations. The access pipe will allow collection of groundwater quality and hydraulic data under representative pumping conditions and will provide access to individual production intervals identified within the well.

Spinner Logging Evaluation

Matrix will coordinate and oversee the performance of spinner logging under both static and pumping conditions within each well. Spinner logs will be used to identify groundwater-producing and groundwater-receiving intervals and evaluate the relative contribution of individual screened or perforated zones to total well yield.

Spinner logging activities will include:

- Baseline logging under non-pumping (static) conditions.
- Spinner logging during pumping at a controlled discharge rate.
- Evaluation of vertical flow conditions within the well bore.
- Identification of productive intervals and relative flow contributions.
- Assessment of intervals exhibiting limited groundwater production or evidence of plugging.

Results of the spinner logging program will be interpreted by Matrix and integrated with available well construction information, rehabilitation observations, and historical operating data to develop a comprehensive understanding of well performance.

Depth-Specific Groundwater Sampling

Based on the results of the spinner log interpretation, Matrix will identify the principal groundwater-producing intervals within each well and collect up to six depth-specific groundwater samples from selected zones.

Depth-discrete samples will be collected using specialized downhole sampling equipment deployed through the dedicated access pipe while the well is under pumping conditions. A groundwater sample will also be collected from the discharge at the wellhead. Sampling intervals will be selected to characterize groundwater quality variations between individual producing zones and to identify intervals contributing elevated constituent concentrations.

Each depth-specific sample and discharge sample will be submitted for laboratory analysis of:

- Fluoride (F)
- Arsenic (As)
- Nitrate as Nitrogen (NO₃-N)
- Total Dissolved Solids (TDS)

Analytical results will be evaluated in conjunction with the spinner logging data to determine the relationship between groundwater production zones and constituent concentrations within the well. The results will be used to identify intervals contributing poorer quality groundwater and to support future decisions regarding well operation, rehabilitation, optimization, or potential zonal isolation alternatives.

Upon completion of **Task 3.0**, Matrix will prepare a technical memorandum summarizing the test pump installation, spinner log interpretation, depth-specific sampling procedures, analytical results, and recommendations regarding aquifer production zones and groundwater quality distribution within each well.

Upon completion of **Task 4.0**, Matrix will conduct a project review meeting (**Meeting #3**) with Wilson Engineers and the City of Chandler to present the results of the spinner logging and depth-discrete groundwater sampling program. Discussion will focus on groundwater-producing intervals, relative aquifer contributions to total well yield, groundwater quality distributions within the wells, and the implications of these findings for future well operation, optimization, and management.

Task 5 – Reporting and Recommendations

Upon completion of the field evaluation, well rehabilitation, spinner logging, and depth-specific groundwater quality sampling activities, Matrix will prepare a comprehensive Well Rehabilitation Evaluation Report for Ocotillo Well and Pleasant Well. The report will document all activities performed, summarize the data collected during the investigation, evaluate the effectiveness of the rehabilitation efforts, and provide recommendations to optimize long-term well performance and water quality.

Data Compilation and Technical Evaluation

Matrix will compile and evaluate all information collected during **Tasks 1.0 through 3.0**, including historical well information, water quality and microbiological data, video survey observations, rehabilitation activities, spinner logging results, and depth-specific groundwater quality analyses.

The report will include, at a minimum:

- Summary of historical well construction and operational data.
- Water chemistry and microbiological characterization results.
- Pre-rehabilitation and post-rehabilitation video survey observations.
- Description of mechanical and chemical rehabilitation methods performed.
- Summary of sediment removal activities and grain-size analysis results.
- Evaluation of rehabilitation effectiveness.
- Spinner log interpretation and identification of groundwater-producing intervals.
- Depth-specific water quality analytical results.
- Assessment of groundwater quality variability within individual production zones.
- Discussion of factors affecting well performance, efficiency, sand production, and groundwater quality.

Figures, tables, well schematics, water quality summaries, and representative video survey photographs will be incorporated as appropriate to support the evaluation.

Using the findings developed during the investigation, Matrix will provide recommendations to maximize long-term well performance, improve operational efficiency, and minimize future rehabilitation requirements. The report will conclude with an overall assessment of the condition of each well and provide a prioritized list of recommendations intended to improve reliability, extend well service life, and support the City's long-term groundwater production objectives.

Deliverables will consist of one electronic draft report for City review and comment and one final report incorporating City comments.

KEY STAFF

A list of the Matrix Project Team members and their titles is provided in the Chart below

PERSONNEL	TITLE
Nathan E. Miller	Technical Director III
Harry S. Brenton, RG*	Technical Director III
Roshelle R. Destrampe, RG	Project Manager IV
Kevin J. Miller, RG	Senior Professional I
DeAnn G. Hauver	Senior Professional I
Georgia L. Waters, RG	Project Professional III
Richard F. Uphoff	Technical Specialist V
Gary Lawrence	Technical Specialist III
Joe Lawrence	Technical Specialist I
Blake E. McConnell	Staff Professional IV
Jessica L. Eyrich, RG	Staff Professional III
Samuel J. Kwas	Staff Professional II
Omar Barbot Yambo	Staff Professional II
O. Andrea Wrenn	Staff Professional II

Notes: * Denotes Project Manager & Primary Contact for the Project

COST PROPOSAL

Matrix proposes to complete the SOW presented herein for a *time and materials not-to-exceed* cost of **\$393,754.63** as presented in **Chart 1** and the attached detailed fee estimate (**Exhibit C**). Any additional work that may be needed will require the City's prior written authorization to utilize the Owners Allowance and/or obtain a Change Order.

Chart 1 Cost Estimate – Well Rehabilitation Ocotillo and Pleasant Wells

Scope of Work	Matrix Fees and Expenses	Subcontractor Fees	Total
Task 1.0 - Project Management and Meetings	\$ 18,680.00	\$ -	\$ 18,680.00
Task 2.0 - Well Evaluation and Video Survey	\$ 16,789.09	\$ 22,426.15	\$ 39,215.24
Task 3.0 - Well Rehabilitation	\$ 18,814.09	\$ 177,587.60	\$ 196,401.69
Task 4.0 - Spinner logging and Depth Discrete Sampling	\$ 21,124.45	\$ 60,369.25	\$ 81,493.70
Task 5.0 - Reporting and Recommendations	\$ 21,964.00	\$ -	\$ 21,964.00
TOTAL:	\$ 97,371.63	\$ 260,383.00	\$ 357,754.63
Owners Allowance	\$ 10,000.00	\$ 26,000.00	\$ 36,000.00
GRAND TOTAL	\$ 107,371.63	\$ 286,383.00	\$ 393,754.63

City of Chandler: Project No. WA2502.201
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Basha Water Production Facility
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EXHIBIT B

Scope of Services Fee Schedule

EXHIBIT "B"
Well Rehabilitation - Ocotillo Well and Pleasant Well
SCOPE OF SERVICES
FEE SCHEDULE

Phase/Task	Description	Cost
1	Project Management and Meetings	
	SUBTOTAL TASK 1:	\$ 18,680.00
2	Well Evaluation and Video Survey	
	SUBTOTAL TASK 2:	\$ 39,215.24
3	Well Rehabilitation	
	SUBTOTAL TASK 3:	\$ 196,401.69
4	Spinner logging and Depth Discrete Sampling	
	SUBTOTAL TASK 4:	\$ 81,493.70
5	Reporting and Recommendations	
	SUBTOTAL TASK 5:	\$ 21,964.00
ALLOWANCES		
	Owner's Allowance	
	SUBTOTAL ALLOWANCES:	\$ 36,000.00
PROJECT TOTAL:		\$ 393,754.63

City of Chandler: Project No. WA2502.201
Proposal – Well Rehabilitation Ocotillo and Pleasant Wells
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EXHIBIT C

Detailed Cost Estimate

ATTACHMENT I - COST ESTIMATE (WA2502.201)**Well Rehabilitation - Ocotillo and Pleasant Wells****City of Chandler, Maricopa County, AZ (P26-00092)**

Task 1.0 - Project Management and Meetings				
	Rate	Quantity	Units	Totals
Technical Director III	\$ 315.00	40	hrs	\$ 12,600.00
Staff Professional IV	\$ 152.00	40	hrs	\$ 6,080.00
Task 1.0 Subtotal				\$ 18,680.00
Task 2.0 - Well Evaluation and Video Survey				
	Rate	Quantity	Units	Totals
Technical Director III	\$ 315.00	16	hrs	\$ 5,040.00
Staff Professional IV	\$ 152.00	38	hrs	\$ 5,776.00
Staff Professional II	\$ 126.00	38	hrs	\$ 4,788.00
Technical Specialist I	\$ 110.00	8	hrs	\$ 880.00
<i>Reimbursable Travel Expenses (includes 15% markup)</i>				
Mileage	\$ 0.83	210	mi	\$ 175.09
<i>Matrix Equipment (units, NO markup)</i>				
Water Level Sounder	\$ 75.00	1	day	\$ 75.00
pH/Temp/Conductivity Meter	\$ 55.00	1	day	\$ 55.00
<i>Subcontractors (includes 15% markup)</i>				
Mottz Analytical	\$ 488.75	1	samples	\$ 488.75
Weber - Pump Removal (2 wells)	\$ 19,982.40	1	event	\$ 19,982.40
Weber - initial Video(2 Wells)	\$ 1,955.00	1	event	\$ 1,955.00
Task 2.0 Subtotal				\$ 39,215.24
Task 3.0 - Well Rehabilitation				
	Rate	Quantity	Units	Totals
Technical Director III	\$ 315.00	16	hrs	\$ 5,040.00
Staff Professional IV	\$ 152.00	48	hrs	\$ 7,296.00
Staff Professional II	\$ 126.00	48	hrs	\$ 6,048.00
<i>Reimbursable Travel Expenses (includes 15% markup)</i>				
Mileage	\$ 0.83	210	mi	\$ 175.09
<i>Matrix Equipment (units, NO markup)</i>				
Water Level Sounder	\$ 255.00	1	weeks	\$ 255.00
<i>Subcontractors (includes 15% markup)</i>				
Weber - Well Rehab (2 Wells)	\$ 175,632.60	1	event	\$ 175,632.60
Weber - post Rehab Video (2 wells)	\$ 1,955.00	1	event	\$ 1,955.00
Task 3.0 Subtotal				\$ 196,401.69

ATTACHMENT I - COST ESTIMATE (WA2502.201)**Well Rehabilitation - Ocotillo and Pleasant Wells****City of Chandler, Maricopa County, AZ (P26-00092)**

Task 4.0 - Spinner logging and Depth Discrete Sampling	Rate	Quantity	Units	Totals
Technical Director III	\$ 315.00	24	hrs	\$ 7,560.00
Project Manager I / Senior Prof. I	\$ 205.00	1	hrs	\$ 205.00
Staff Professional IV	\$ 152.00	42	hrs	\$ 6,384.00
Staff Professional II	\$ 126.00	42	hrs	\$ 5,292.00
Technical Specialist I	\$ 110.00	12	hrs	\$ 1,320.00
<i>Reimbursable Travel Expenses (includes 15% markup)</i>				
Mileage	\$ 0.83	280	mi	\$ 233.45
<i>Matrix Equipment (units, NO markup)</i>				
Water Level Sounder	\$ 75.00	1	day	\$ 75.00
pH/Temp/Conductivity Meter	\$ 55.00	1	day	\$ 55.00
<i>Subcontractors (includes 15% markup)</i>				
Mottz Analytical	\$ 189.75	7	samples	\$ 1,328.25
Weber - Spinner logging (2 Wells)	\$ 59,041.00	1	event	\$ 59,041.00
Task 4.0 Subtotal				\$ 81,493.70
Task 5.0 - Reporting and Recommendations	Rate	Quantity	Units	Totals
Technical Director III	\$ 315.00	16	hrs	\$ 5,040.00
Project Manager I / Senior Prof. I	\$ 205.00	8	hrs	\$ 1,640.00
Project Professional II	\$ 173.00	8	hrs	\$ 1,384.00
Staff Professional IV	\$ 152.00	50	hrs	\$ 7,600.00
Staff Professional II	\$ 126.00	50	hrs	\$ 6,300.00
Task 5.0 Subtotal				\$ 21,964.00
COST SUMMARY				Subtotals
Task 1.0 - Project Management and Meetings				\$ 18,680.00
Task 2.0 - Well Evaluation and Video Survey				\$ 39,215.24
Task 3.0 - Well Rehabilitation				\$ 196,401.69
Task 4.0 - Spinner logging and Depth Discrete Sampling				\$ 81,493.70
Task 5.0 - Reporting and Recommendations				\$ 21,964.00
TOTAL:				\$ 357,754.63
Owners Allowance				\$ 36,000.00
GRAND TOTAL				\$ 393,754.63

EXHIBIT "F"
FEDERAL REQUIREMENTS

N/A