

## REQUEST FOR COUNCIL ACTION

**SUBJECT:** Wastewater Reuse for Irrigation Water Study

**SUMMARY:** Approve a contract with MWH for the Wastewater Reuse for Irrigation Water Study, for an amount not to exceed \$8,967.50.

**FISCAL AND/OR**

**ASSET IMPACT:** Funding for this project is available in the Water Capital Fund.

**STAFF RECOMMENDATION:**

Staff recommends approval of a contract with MWH for the Wastewater Reuse for Irrigation Water Study, for an amount not to exceed \$8,967.50.

**MOTION RECOMMENDED:**

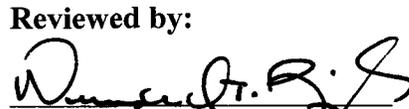
"I move to adopt Resolution No. 16-119 authorizing the Mayor to execute a contract with MWH for the Wastewater Reuse for Irrigation Water Study, for an amount not to exceed \$8,967.50.

Roll Call vote required.

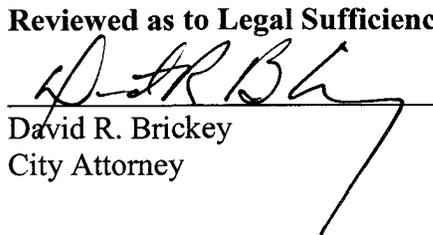
**Prepared by:**

  
Justin Stoker, P.E.  
Deputy Public Works Director

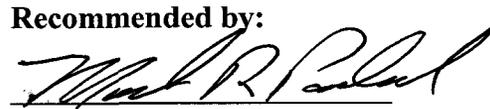
**Reviewed by:**

  
Wendell T. Rigby, P.E.  
Director of Public Works

**Reviewed as to Legal Sufficiency:**

  
David R. Brickey  
City Attorney

**Recommended by:**

  
Mark R. Palesh  
City Manager

## **BACKGROUND DISCUSSION:**

The Mayor and City Council have asked that staff explore options regarding wastewater reuse either from the Dannon Company or from the South Valley Water Reclamation Facility. An RFP was prepared and sent to firms that were on the City's Statement of Qualification list for bids. The RFP asked for engineering firms to evaluate the potential for wastewater reuse at both locations, identify water quality standards and prepare a cost estimate, if necessary, for treatment needs. As an additional option, it allows the city to contract with the firm for preparing the project plan and processing that plan through the appropriate permitting agencies for implementation of a reuse project.

A Request for Proposals was sent to four engineering firms approved on the City's Statement of Qualifications list, MWH is the only firm that submitted a proposal.

### Attachments:

Resolution  
Agreement

THE CITY OF WEST JORDAN, UTAH  
A Municipal Corporation

RESOLUTION NO. 16-119

A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE A CONTRACT WITH  
MWH FOR THE WASTEWATER REUSE FOR IRRIGATION WATER STUDY

Whereas, the City Council of the City of West Jordan has received proposals for the Wastewater Reuse for Irrigation Water Study with the highest scored proposal being MWH for an amount of \$8,967.50; and

Whereas, the City Council desires to award the contract to MWH which award shall not be binding upon the City of West Jordan unless and until the contract is fully executed by the parties; and

Whereas, the proposed contract between the City of West Jordan and MWH, (a copy of which is attached as **Exhibit A**) for the Wastewater Reuse for Irrigation Water Study in an amount not-to-exceed \$8,967.50 has been reviewed; and

Whereas, the City Council of the City of West Jordan has determined that the attached contract with MWH, for an amount not-to-exceed \$8,967.50, is acceptable for the purpose of completing the Wastewater Reuse for Irrigation Water Study.

NOW, THEREFORE, IT IS RESOLVED BY THE CITY COUNCIL OF WEST JORDAN, UTAH:

- Section 1. The contract for the Wastewater Reuse for Irrigation Water Study is hereby awarded to MWH which award shall not be binding upon the City of West Jordan until the contract is fully executed by the parties.
- Section 2. After approval as to legal form by the City Attorney, the Mayor is hereby authorized to execute a contract between the City of West Jordan and MWH in an amount not to exceed \$8,967.50.
- Section 3. This Resolution shall take effect immediately.

Adopted by the City Council of West Jordan, Utah, this 27<sup>th</sup> day of July 2016.

CITY OF WEST JORDAN

ATTEST:

By: \_\_\_\_\_  
Kim V. Rolfe  
Mayor

\_\_\_\_\_  
Melanie Briggs  
City Recorder

A RESOLUTION AUTHORIZING THE MAYOR TO EXECUTE A CONTRACT WITH  
MWH FOR THE WASTEWATER REUSE FOR IRRIGATION WATER STUDY

Voting by the City Council

	"AYE"	"NAY"
Council Member Dirk Burton	_____	_____
Council Member Jeff Haaga	_____	_____
Council Member Zach Jacob	_____	_____
Council Member Chris McConnehey	_____	_____
Council Member Chad Nichols	_____	_____
Council Member Sophie Rice	_____	_____
Mayor Kim V. Rolfe	_____	_____



**AGREEMENT FOR PROFESSIONAL SERVICES**

**Between  
City of West Jordan  
and  
MWH  
for the**

***Wastewater Reuse for Irrigation Water Study***

**THIS AGREEMENT**, made this 27<sup>th</sup> day July 2016 between the City of West Jordan, a municipal corporation (hereinafter referred to as "City"), and MWH (hereinafter referred to as "Consultant").

**WHEREAS**, the City desires to obtain consulting services from Consultant, and Consultant desires to provide these services to City. City and Consultant, therefore, agree as follows:

1. **RETENTION AS CONSULTANT.** City hereby retains Consultant, and Consultant hereby accepts such engagement, to perform the services described in Paragraph 2 herein. Consultant warrants it has the qualifications, experience and facilities to properly perform these services.
2. **DESCRIPTION OF SERVICES.** The services to be performed by Consultant shall be as follows:

(1) See attached Proposal. (Exhibit A)

The above services shall be performed in accordance with the City's Request for Proposal inclusive of the Consultant's Proposal dated July 11, 2016 which are incorporated herein by this reference. The Proposal is more fully set forth in Exhibit A which is attached to this Agreement.

3. **COMPENSATION AND PAYMENT.** Except for authorized extra services (pursuant to Paragraph 4), if any, the total compensation payable to Consultant by City for the services described in Paragraph 2 shall not exceed the sum of \$8,967.50 and shall be earned on an hourly basis.

All payments shall be made within thirty (30) calendar days after the Consultant has provided the City with written verification of the actual compensation earned, which written verification shall be in a form satisfactory to the City. Invoices shall be made no more frequently than on a monthly basis, and shall describe work performed.

4. **EXTRA SERVICES.** City shall pay Consultant for extra services which are authorized in writing in addition to the services described in Paragraph 2, in such amounts as mutually agreed to in advance. Unless the City and Consultant have agreed in writing before the performance of extra services, no liability and no right to claim compensation for such extra services or expenses shall exist.

5. **SERVICES BY THE CITY.** The City shall perform the following services:

- (1) Provide to Consultant copies of available information related to the project and project site
- (2) Promptly review Consultants work and provide Consultant with comments, if any, in a timely manner.

6. **PROGRESS AND COMPLETION.** Consultant shall commence work on the services to be performed upon receiving a Notice to Proceed from the City.

7. **OWNERSHIP OF DOCUMENTS.** All drawings, designs, data, photographs, reports and other documentation, including duplication of same prepared by Consultant in the performance of these services, shall become the property of City upon termination of the consulting services pursuant to this agreement and upon payment in full of all compensation then due Consultant. The City agrees to hold the Consultant harmless from all damages, claims, expenses and losses arising out of any reuse of the plans and specifications for purposes other than those described in this Agreement, unless written authorization of the Consultant is first obtained.

8. **PERSONAL SERVICES; NO ASSIGNMENT; SUBCONTRACTOR.** This Agreement is for professional services, which are personal services to the City. The following persons are deemed to be key member(s) of or employee(s) of the Consultant's firm, and shall be directly involved in performing or assisting in the performance of this work:

Gregory Stevens, PE, PMP  
Christina Osborn, PE  
Angela Xia, EIT  
Zakir M. Hirani, PE, BCEE  
Nathan Zaugg, PE

Should these individuals be removed from assisting in this contracted work for any reason, the City shall have the right to approve the replacement individuals assigned to the project or may terminate this Agreement.

This Agreement is not assignable by Consultant, without the City's prior consent in writing.

9. **HOLD HARMLESS AND INSURANCE.**

**A. Indemnity.**

Consultant shall defend, indemnify and hold the City, its elected officials, officers and employees, harmless from all claims, lawsuits, demands, judgments or liability including, but not limited to, general liability, automobile and professional errors and omissions liability, arising out of, directly or indirectly, the negligent acts, errors and omissions of the Consultant in performing the services described.

**B. Insurance.**

Consultant shall, at Consultant's sole cost and expense and throughout the term of this Agreement and any extensions thereof, carry:

- (1) workers compensation insurance adequate to protect Consultant from claims under workers compensation acts;
- (2) professional errors and omissions insurance in the amount not less than \$1,000,000; and
- (3) general personal injury and property damage liability insurance and automobile liability insurance with liability limits of not less than \$1,000,000 for each claimant and \$1,000,000 for each occurrence related to the injury or death of a person or persons and for property damage. The City, its officers and employees, shall be named as an additional insured.

All insurance policies shall be issued by a financially responsible company or companies authorized to do business in the State of Utah which are carry a Moody's rating of not less than B+. Consultant shall provide City

with copies of certificates (on the City certificate form) for all policies reflecting the coverage, with an endorsement that they are not subject to cancellation without thirty (30) calendar days prior written notice to City.

10. **RELATIONSHIP OF THE PARTIES.** The relationship of the parties to this Agreement shall be that of independent contractor(s). In no event shall Consultant be considered an officer, agent, servant or employee of City. The Consultant shall be solely responsible for any worker's compensation, withholding taxes, unemployment insurance and any other employer obligations associated with the described work.

11. **STANDARD OF CARE.** Consultant services shall be performed in accordance with the skill and care ordinarily exercised by members of the same profession performing the same or similar services at the time Consultant's services are performed. Consultant shall, at Consultant's sole expense reperform any services not meeting this standard.

12. **CORRECTIONS.** In addition to the above indemnification obligations, the Consultant shall correct, at its expense, all errors in the work which may be disclosed during the City's review of the Consultant's report or plans. Should Consultant fail to make such correction in a reasonably timely manner, such correction shall be made by the City, and the cost thereof shall be charged to and paid by Consultant. "Errors in the work" as referred to above does not include and shall be in addition to, "redlines" or other standard corrections which are provided to Consultant by City.

13. **TERMINATION BY CITY.** Unless otherwise stated in the Special Terms and Conditions, this contract may be terminated, with cause by either party, in advance of the specified termination date, upon written notice being given by the other party. The party in violation will be given ten (10) working days after notification to correct and cease the violations, after which the contract may be terminated for cause. This contract may be terminated without cause, in advance of the specified expiration date, by either party, upon 30 days prior written notice being given the other party. On termination of this contract, all accounts and payments will be processed according to the financial arrangements set forth herein for approved services rendered to date of termination.

14. **ACCEPTANCE OF FINAL PAYMENT CONSTITUTES RELEASE.** The acceptance by Consultant of the final payment made under this Agreement shall operate as and be a release to City from all claims and liabilities for compensation to, or claimed by, Consultant for anything done, finished or relating to the Consultant's work or services. Acceptance of payment shall be any negotiation of the City's check.

However, approval or payment by the City shall not constitute nor be deemed a release of the responsibility and liability of Consultant, its employees, subcontractors, agents and consultants for the accuracy and/or competency of the information provided and/or work performed; nor shall such approval or payment be deemed to be an assumption of such responsibility or liability by the City for any defect or error in the work prepared by Consultant, its employees, subcontractors, agents or consultants.

15. **WAIVER; REMEDIES CUMULATIVE.** Failure by a party to insist upon the strict performance of any of the provisions of this Agreement by the other party, irrespective of the length of time for which such failure continues, shall not constitute a waiver of such party's right to demand strict compliance by such other party in the future. No waiver by a party of a default or breach of the other party shall be effective or binding upon such party unless made in writing by such party and no such waiver shall be implied from any omission by a party to take any action with respect to such default or breach. No express written waiver of a specified default or breach shall affect any other default or breach, or cover any other period of time, other than any default or breach and/or period of time specified. All of the remedies permitted or available to a party under this Agreement, or at law or in equity, shall be cumulative and alternative, and invocation of any such right or remedy shall not constitute a waiver or election of remedies with respect to any other permitted or available right or remedy.

16. **CONSTRUCTION OF LANGUAGE OF AGREEMENT.** The provisions of this Agreement shall be construed as a whole according to its common meaning and purpose of providing a public benefit and not strictly for

or against any party. It shall be construed consistent with the provisions hereof, in order to achieve the objectives and purposes of the parties. Wherever required by the context, the singular shall include the plural and vice versa, and the masculine gender shall include the feminine or neutral genders or vice versa.

17. **MITIGATION OF DAMAGES.** In all situations arising out of this Agreement, the parties shall attempt to avoid and minimize the damages resulting from the conduct of the other party.

18. **RECORDS ADMINISTRATION.** The Consultant shall maintain, or supervise the maintenance of all records necessary to properly account for the payments made to the Consultant for costs authorized by this contract. These records shall be retained by the Consultant for at least four years after the contract terminates, or until all audits initiated within the four years, have been completed, whichever is later.

19. **GOVERNING LAW.** This Agreement, and the rights and obligations of the parties, shall be governed and interpreted in accordance with the laws of the State of Utah.

20. **CAPTIONS.** The captions or headings in the Agreement are for convenience only and in no other way define, limit or describe the scope or intent of any provision or section of the Agreement.

21. **AUTHORIZATION.** Each party has expressly authorized the execution of this Agreement on its behalf and bind said party and its respective administrators, officers, directors, shareholders, divisions, subsidiaries, agents, employees, successors, assigns, principals, partners, joint ventures, insurance carriers and any others who may claim through it to this Agreement.

22. **REPRESENTATION REGARDING ETHICAL STANDARDS FOR CITY OFFICERS AND EMPLOYEES AND FORMER CITY OFFICERS AND EMPLOYEES.** The Consultant represents that it has not: (a) provided an illegal gift or payoff to a city officer or employee or former city officer or employee, or his or her relative or business entity; (b) retained any person to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, other than as exempted in the City's Conflict of Interest ordinance; or (c) knowingly influenced (and hereby promises that it will not knowingly influence) a city officer or employee or former city officer or employee to breach any of the ethical standards set forth in the City's Conflict of Interest ordinance, Title1, Chapter 11, Section 15 of the City of West Jordan Municipal Code.

23. **EQUAL OPPORTUNITY CLAUSE.** The Consultant agrees to abide by the provisions of Title VI and VII of the Civil Rights Act of 1964 (42USC 2000e) which prohibits discrimination against any employee or applicant for employment or any applicant or recipient of services, on the basis of race, religion, color, or national origin; and further agrees to abide by Executive Order No. 11246, as amended, which prohibits discrimination on the basis of sex; 45 CFR 90 which prohibits discrimination on the basis of age; and Section 504 of the Rehabilitation Act of 1973, or the Americans with Disabilities Act of 1990 which prohibits discrimination on the basis of disabilities. Also, the Consultant agrees to abide by Utah's Executive Order, dated June 30, 1989, which prohibits sexual harassment in the work place.

24. **ENTIRE AGREEMENT BETWEEN PARTIES.** Except for Consultant's proposals and submitted representations for obtaining this Agreement, this Agreement supersedes any other agreements, either oral or in writing, between the parties hereto with respect to the rendering of services, and contains all of the covenants and agreements between the parties with respect to said services. Any modifications of this Agreement will be effective only if it is in writing and signed by the party to be charged.

25. **PARTIAL INVALIDITY.** If any provision in this Agreement is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions will nevertheless continue in full force without being impaired or invalidated in any way.

26. **NOTICES.** Any notice required to be given hereunder shall be deemed to have been given by depositing said notice in this United States mail, postage prepaid, or by facsimile with proof of transmission, and addressed as follows:

TO CITY: CITY OF WEST JORDAN  
Justin Stoker, P.E.  
8000 South Redwood Road  
West Jordan, Utah 84088  
Facsimile No.: (801) 569-5127

With a copy to the City Attorney  
David Brickey, City Attorney  
8000 South Redwood Road  
West Jordan, Utah 84088  
Facsimile No.: (801) 569-5149

TO CONSULTANT: MWH  
2890 E. Cottonwood Parkway, Ste. 300  
Salt Lake City, UT 84121

27. **ATTORNEYS FEES AND COST.** The prevailing party shall have the right to collect from the other party its reasonable costs and necessary disbursements and attorneys' fees incurred in enforcing this Agreement.

**EXECUTION OF AGREEMENT**

In concurrence and witness whereof, this Agreement has been executed by the parties effective on the date and year first above written.

**CITY OF WEST JORDAN**

**ATTEST:**

\_\_\_\_\_  
Kim V. Rolfe  
Mayor

\_\_\_\_\_  
Melanie Briggs, MMC  
City Recorder

**APPROVED AS TO LEGAL FORM**

\_\_\_\_\_  
City Attorney

**CONSULTANT**

By: \_\_\_\_\_

Its: \_\_\_\_\_

STATE OF \_\_\_\_\_)

:SS

COUNTY OF \_\_\_\_\_)

On this \_\_\_\_ day of \_\_\_\_\_, 2016, personally appeared before me,  
\_\_\_\_\_, who being by me duly sworn did say that he is the  
\_\_\_\_\_ of \_\_\_\_\_, a corporation, and that the  
foregoing instrument was signed in behalf of said corporation by authority of its Board of Directors, and  
he acknowledged to me that said corporation executed the same.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires:

Residing in \_\_\_\_\_ County, \_\_\_\_\_

**EXHIBIT A**  
(Consultant Proposal)

July 11, 2016

West Jordan City Recorder's Office (3<sup>rd</sup> Floor)  
West Jordan City Hall  
8000 South Redwood Road  
West Jordan, UT 84088

To Whom It May Concern:

MWH is pleased to submit this proposal and separate fee schedule for the Wastewater Reuse for Irrigation Water Study. We have looked at the scope and requirements of this RFP and have assembled a team of resources with in-depth knowledge and experience in performing water reuse studies—not only to address the specific reporting and permitting requirements of Utah Division of Water Quality, but also with extensive reuse project design and implementation experience to help provide the most reliable design considerations and cost estimates for the necessary secondary water treatment. Our team is uniquely qualified to perform this Wastewater Reuse study as outlined below:

- **Thorough Understanding of the Dannon Treatment Plant and Effluent:** MWH, led by Nathan Zaugg, was the design consultant for the Dannon Treatment Plant. Mr. Zaugg has unique insight and experience with the Dannon waste stream process and can help provide more applicable and reliable cost estimates and permitting needs if using Dannon waste stream effluent as a potential water source.
- **Broad Experience in Designing/Implementing Reuse Projects:** MWH is a global leader in water reuse. We have added Zakir Hirani to our team to provide technical advice and review of the cost estimates and project plan for this project. This value-added approach will bring recent, applicable experience from similar reuse projects being performed in other parts of the country. This approach will add value by providing an independent review of each deliverable, and provide outside ideas and concepts from other active reuse projects to help ensure that the City of West Jordan is getting the best possible design considerations for this study.
- **Local Water Reuse Permit Experience:** We have teamed with J-U-B Engineers who helped the Santiquin WRF become the first facility in Utah to store and reuse 100 percent of its effluent in a residential secondary irrigation system. We felt this experience would be of particular value to West Jordan in obtaining similar permits with the State of Utah. Our team knows the R317 requirements and the UDWQ process for successfully implementing WRF effluent to support secondary irrigation needs.

With our proposed team of qualified individuals, coupled with our knowledge and experience working with the City of West Jordan, Dannon, and UDWQ, we are uniquely qualified to deliver the scope of services outlined in the RFP.

Thank you for the opportunity to present our qualifications and ideas and we look forward to discussing them further in person. Should you have any questions, please contact Mr. Greg Stevens at (801) 201-7372 (email: [gregory.stevens@mwhglobal.com](mailto:gregory.stevens@mwhglobal.com)).

Respectively,

  
Gregory Stevens, PE, PMP  
Utah Area Manager

## QUALIFICATIONS

MWH has maintained its status as an industry leader in the field of wastewater reuse through an on-going commitment to the sustainability of water resources, as well as research and application of innovative treatment technologies. A thorough understanding of the regulatory process and viable options for reuse buoys this commitment.

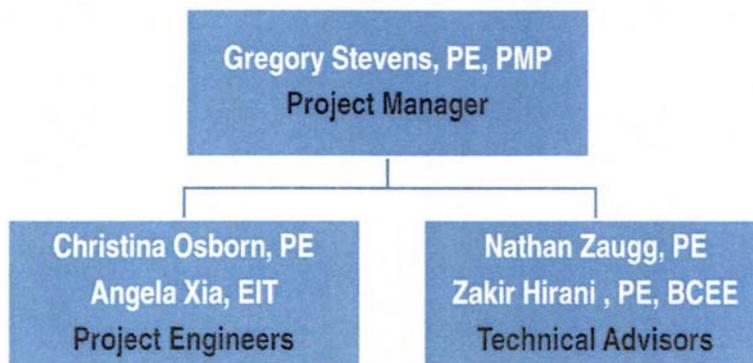
MWH has been providing expertise in the area of wastewater recycle and reuse since the 1970s. Many of our early projects were for food processing industries that were looking to reduce their waste disposal costs and lower their fresh water consumption. This early involvement in water reuse has led to MWH being one of the first firms to design municipal wastewater reclamation facilities with effluent reused for irrigation and related purposes.

Through this experience, we have become knowledgeable in all aspects of the unique project planning, permitting, grant approval, and eventual design and construction oversight of wastewater reuse projects. Our holistic understanding and experience of reuse projects benefits our clients through faster permitting cycles with local regulatory agencies, latest advancements in system concepts and design, and the latest research and insights into reuse regulations.

## PROJECT TEAM

A brief introduction to our proposed project team is provided below, along with the percent of time each can provide this project.

**Mr. Greg Stevens, PE, PMP, Project Manager, 40% Available:** Mr. Stevens is the proposed project manager for this study. He brings 20+ years' experience managing projects for MWH. He is a registered project management professional and well qualified for making sure this study is performed on schedule and within budget. Mr. Stevens will lead a small, dedicated team as shown in the organization chart below:



**Ms. Christina Osborn, PE, Project Engineer, 100% Available:** Ms. Osborn has more than 12 years of experience with planning, permitting, designing, and operating water/wastewater treatment plants and water reclamation facility projects. She is currently a project engineer in J-U-B Engineers Salt Lake City office. She has completed water and wastewater planning documents, studies and designs for many communities throughout Utah and Idaho. As part of these plans, studies and designs, she has evaluated existing infrastructure and treatment systems, determined their condition and capacity and identified solutions. She has worked with funding and permitting agencies and can apply her expertise to make the planning and design process efficient.

**Angela Xia, EIT, Engineering Support, 100% Available:** As a young professional, Ms. Xia has over two years of combined research and engineering consulting experience. She has an MS degree in Civil Engineering (focus on Water Resources) from the University of Illinois and currently resides in the MWH Salt Lake City office. She has worked on several projects which utilized her skills in hydrologic and hydraulics analysis and modeling, stormwater management, water quality engineering, water resources engineering, environmental remediation and asset management. She will be supporting Christina with the data collection and permitting tasks.

**Zakir Hirani, PE, BCEE, Technical Advisor, 25% Available:** Mr. Hirani is a licensed process engineer with expertise in physiochemical and biological treatment of water and wastewater with emphasis on water reuse. He has experience with a variety of treatment processes including MF/UF, MBR, RO, ozone, UV, advanced oxidation processes (UV/H<sub>2</sub>O<sub>2</sub> and Ozone/H<sub>2</sub>O<sub>2</sub>), ion-exchange, fluidized bed reactor, membrane biofilm reactor (MBR), activated carbon, and conventional treatment processes. He has gained extensive experience while working on several water reuse projects in the State of California.

**Nathan Zaugg, PE, Technical Advisor, 25% Available:** Mr. Zaugg has served as a project manager and engineer for a variety of water and wastewater projects for both local and national clients, including municipal, industrial, and oil and gas clients. His primary focus is on process engineering of treatment facilities, but he also has extensive experience in incorporation of the equipment required for those processes into the facility design and specification of this equipment for procurement. As the project manager and design lead for the Dannon treatment plant, Mr. Zaugg has unique understanding and in-depth knowledge of the process train and wastewater effluent stream. He will provide this experience in evaluating design considerations and cost estimates for secondary treatment alternatives.

## PROJECT APPROACH

The work plan below summarizes our approach and understanding of the project objectives and goals as outlined in the RFP.

### PHASE 1

Collect and review all relevant information from the City, including the Secondary Water Master Plan and wastewater flow data, water quality information from South Valley Water Reclamation Facility, water rights information from Jordan Valley Water Conservancy District, water quality and flow data from Dannon and correspondence with the Division of Water Quality.

#### ***Initial Options Considered***

1. Add filters to South Valley WRF and pump finished, Type I water to West Jordan.
2. Add to the wastewater pretreatment facility at the Dannon yogurt manufacturing facility, and then pump (a short distance) to West Jordan. *Mr. Zaugg will be influential in looking at this option.*
3. Construct a scalping plant adjacent to secondary water system to treat wastewater and produce secondary water.

Considerations for the Phase I Feasibility Analysis: Water Rights, Water Quality, Water Quantity, Salinity, Public Perception, Permitting and Regulatory, and Supply and Demand.

**Deliverable:** Memo of the Feasibility Analysis, which will include a summary of previous efforts and known information.

**PHASE 2**

Prepare a detailed cost estimate for treatment and delivery of Type I reuse water for secondary irrigation within the City's existing pressure irrigation system for two out of the three options. Include capital costs and annual operation and maintenance costs, including pumping, chemical or filtration costs.

**Deliverable:** Memo of the Cost Estimates of the Options.

**PHASE 3**

Prepare the Project Plan required by the Utah State Administrative Code (R317). Sections of the Plan will include:

- A description of the quantity, quality, and use of the treated wastewater to be delivered, the location of the site, an assessment of the direct hydrologic effects of the action, and how the requirements of R317-3-11 would be met.
- A description of public notification and participation in the development of the Project Plan.
- An Operation and Management Plan, (to be submitted later), to include: a copy of the agreement to treat wastewater (if applicable), water rights agreements, a labeling and separation plan for the prevention of cross connections between treated effluent distribution lines and potable water lines, schedules for routine maintenance, and a contingency plan for system failure or upsets.

Submit the Plan to the Utah Division of Water Quality to begin the permitting process. Historically, the Utah Division of Water Quality has required a Utah Pollutant Discharge Elimination System (UPDES) discharge permit for the reuse water once it leaves the wastewater treatment facility and prior to entering the secondary irrigation system. The South Valley Water Reclamation Facility already has a discharge permit, but it would potentially need to be amended to include the additional discharge permit if that were the selected option.

**Deliverable:** Project Plan according to R317-3-11 for submission to the Utah Division of Water Quality.

**PROPOSED SCHEDULE**

Below is the proposed schedule for delivering this project. Duration for Phase 3 will be dependent upon the permitting process with UDWQ. It is currently estimated to be 4 months.

	July					August					Sept	Oct	Nov	Dec	
	1	2	3	4	5	1	2	3	4	5					
<b>Bids Due</b>		X													
<b>Project Award</b>			X												
<b>TASK 100</b>															
<b>Phase 1</b>			X	X											
Collect information from West Jordan, So. Valley WRF, Jordan Valley WCD, Dannon and Division of Water Quality			X	X											
Write a Memo of the Feasibility Analysis						X									
Meet with the City to Review							X								
<b>TASK 300</b>															
<b>Phase 2</b>															
Cost Estimates								X							
Develop a Memo with the Cost Estimates for the 2 Options									X						
Meet with the City to Review													X		
<b>TASK 400</b>															
<b>Phase 3</b>															
Prepare the Project Plan												X	X	X	X
Meet with the City to Review															

## WORK PLAN

The following table summarizes the level of effort in manhours associated with each Phase of the project.

		Principal Manager (Level 7)	Lead / Supervisory* (Level 6)	Associate (Level 3)
<b>TASK 100</b>	<b>Phase 1</b>	<b>1</b>	<b>6</b>	<b>5</b>
	Collect information from West Jordan, So. Valley WRF, Jordan Valley WCD, Dannon and Division of Water Quality			
	Write a Memo of the Feasibility Analysis			
	Meet with the City to Review			
<b>TASK 300</b>	<b>Phase 2</b>	<b>7</b>	<b>5</b>	
	Cost Estimates			
	Develop a Memo with the Cost Estimates for the 2 Options			
	Meet with the City to Review			
<b>TASK 400</b>	<b>Phase 3</b>	<b>5</b>	<b>22</b>	<b>4</b>
	Prepare the Project Plan			
	Meet with the City to Review			

\*Services to be provided by J-U-B Engineers.

## RELEVANT PROJECT EXPERIENCE

MWH has a demonstrated history of successfully delivering water reuse projects across the country. Teamed with J-U-B Engineers, we combine the vast experience and expertise of MWH as a leader in the water reuse industry, with the local expertise of J-U-B. Combined, we bring to the City of West Jordan access to the best resources available to ensure a successful project.

Below, we have included detailed descriptions of several projects with similar services as requested in the RFP. These project descriptions highlight the strong commitment we have to water reuse and our experience with both upfront planning, feasibility studies and permitting, to full system design and implementation.

Completed client references are located within the project descriptions.

### MWH RELEVANT PROJECT EXPERIENCE

#### SAN DIEGO WATER REUSE STUDY AND ADVANCED WATER TREATMENT (AWT) DEMONSTRATION FACILITY, CA

MWH led the Water Reuse Study that evaluated the MF/UF, RO and AOP train on a pilot-scale at the North City Water Reclamation Plant (NCWRP) that led to the construction of a 1-MGD demonstration facility. The MWH team also led the operations and testing component of the San Diego AWT Demonstration Facility project. The primary objective of the demonstration project was to support the regulatory approval of a full-scale AWT facility that would purify tertiary effluent from the NCWRP for surface water augmentation of the San Vicente Reservoir. The secondary objective of the project was to gain public support for Indirect Potable



Reuse (IPR), for which MWH led public tours of the facility to further this objective. Specific tasks included development of a comprehensive testing and monitoring plan, plant operation, process evaluation and optimization, data collection and analysis, and technical presentations to the project Independent Advisory Panel, California Dept. of Public Health, and the Regional Water Quality Control Boards.

Over the course of this seven-year as-needed treatment research contract, a total of 19 separate task orders were completed covering a wide range of research needs related to water treatment and water reuse. MWH was closely involved with all aspects of the contract and project engineering or project management for the majority of the task orders. A series of AWT research studies at the NCWRP were conducted in tandem with the City's Water Reuse Study, which included pilot testing for three key focus areas related to the evaluation of AWT for indirect potable reuse including:

- Evaluation of various RO integrity monitoring methods;
- Long-term performance evaluation of RO on tertiary wastewater from the NCWRP;
- Impact of UV peroxide on emerging contaminants of concern including endocrine disrupting compounds (EDC) and pharmaceutical and personal care products (PPCP).

**Contact: William Pearce, City of San Diego, CA / (619) 533-5374**

### **CLARK COUNTY MEMBRANE / OZONE PHASE 1 / PHASE 2, NV**

To ensure success for, what would be one of the largest and most innovative advanced wastewater treatment (AWTP) facility in the region, Clark County Water Reclamation District (CCWRD) enlisted the assistance of MWH designers and researchers.

Phase 1 of the Membrane/Ozone project involved addition of state-of-the-art advanced treatment processes, including membrane filtration and advanced oxidation processes (AOP) to enhance capacity and improve the effluent quality for indirect potable reuse for Clark County, Nevada (Las Vegas). More stringent standards for phosphorus removal and disinfection drove the decision to move to membrane filtration/AOP and away from traditional sand/anthracite filters and ultraviolet disinfection.

During design, MWH built and operated a pilot facility as 'proof of the design concept' to verify the proposed treatment process for enhanced phosphorus removal and concurrent disinfection and oxidation of trace organic compounds. Operational experience from this pilot facility helped inform the design process, allowing for full-scale optimization to accommodate future unknown compounds.



The new ozone system is designed to be readily expanded and will be capable of disinfecting the full 300-mgd peak wet weather flow at full buildout. In addition, the full-scale demonstration is being used to optimize future phases of the project. This project reduces the impact of treated effluent on regional drinking water supplies by performing advanced treatment for nutrients and trace organic contaminants.

Impacts to neighbors were mitigated by facility site selection at distance from the nearest neighbors. Creative site layouts (reducing noise and light pollution) and screening reduced aesthetic impacts to neighbors. Public hearings were held at local town boards to receive project acceptance and approval. These were led by the client with assistance provided by MWH.

The project design was completed using a collaborative workshop and building information modeling-driven design process to ensure that key issues and stakeholders were kept abreast of design progress and key decisions. This allowed decisions to be made quickly with little rework. Thoughtful design through Maintenance and Plant Operations planning eliminated operational interruptions and plant shut-downs during construction.

In addition to the Phase 1 membranes/AOP facilities, MWH has been engaged to design an additional 32 mgd of membrane and ozone treatment known as Phase 2.

**Contact: Sam Scire, Assistant General Manager, CCWD / (702) 668-8141**

### **CENTRAL WEBER / PINE VIEW WATER SYSTEMS RECYCLE WATER PROJECT, UT**

MWH was retained to conduct an appraisal and feasibility study for the Pine View Water Systems (PWS) and the Central Weber Sewer Improvement District (CWSID), proposed Water Recycling Project. The project would treat effluent from the CWSID Wastewater Treatment Plant (WWTP) and deliver it for irrigation of schools, parks and residences in the service area of the PWS.



The study evaluated the following components:

- Facilities and agreements that allow PWS to deliver recycled water for irrigation to the cities where the water originated, allowing fuller use of Cities water rights.
- Tertiary treatment of effluent (initially up to 10 mgd) from the CWSID WWTP with membrane technology or submerged biocontactors (similar to sand filtration). The plant currently treats effluent to meet a secondary treatment standard.
- Conveyance of the recycled water from the WWTP to a PWS open storage reservoir for distribution through the PWS secondary irrigation system.

**Contact: Lance Wood, General Manager, CWSID / (801) 731-3011**

### **WEST JORDAN WASTEWATER PRE-TREATMENT FACILITY, DANNON YOGURT ENGINEERING SERVICES, UT**

Using an accelerated design-build approach, MWH was able to develop a new multi-million dollar wastewater pretreatment system in West Jordan, Utah, allowing the Dannon Company to begin using its new facility after just six months of design and construction. In spite of a series of challenges, including permitting, weather constraints and environment challenges, the



new facility began receiving water on March 14, 2011 – one day before its required startup date. This entirely new 700,000-gpd pre-treatment facility uses an innovative treatment train, employing dissolved air flotation (DAF) and moving bed bioreactors (MBBR) to reduce the influent BOD from sometimes 5,000 mg/L to under 250 mg/L. Additionally, the facility has been designed to permit incorporation of numerous additional process trains, allowing the production facilities to potentially double within the same plant footprint. The plant was constructed to permit expansion of the yogurt plant and to meet discharge requirements of South Valley Water Reclamation District, the municipal treatment plant operator.

**Contact: Mark Norvell, Dannon / (801) 520-1018**

## J-U-B ENGINEERS RELEVANT PROJECT EXPERIENCE

### KEARNS IMPROVEMENT DISTRICT SECONDARY WATER / RECLAIMED WATER FEASIBILITY STUDY AND MASTER PLAN, UT

In 2010 the Kearns Improvement District decided to investigate the feasibility of providing secondary water to large water users within the District. J-U-B first did a Secondary Water Feasibility Study, and then, with the approval and direction of the Board, developed a Secondary Water Master Plan. The District provides culinary water and sanitary sewer services to over 13,000 connections. The District wanted to investigate the feasibility of converting some of their large open space customers to using secondary water, conserving the expensive and good quality culinary water for culinary use. The comprehensive Secondary Water Feasibility Study and Secondary Water Master Plan that J-U-B completed for the Kearns Improvement District was partially funded by a grant obtained from the Bureau of Reclamation.



The Study and Master Plan evaluated potential sources of secondary water including wells, canals, storm water, the current wholesale supplier, and reclaimed water. The reclaimed water alternatives included a District-owned scalping facility and the evaluation of expanding treatment and pumping from the regional wastewater treatment facility. The Master Plan included an evaluation matrix that identified detailed cost estimates in the criteria, as well as other relevant aspects. J-U-B also coordinated communication with a number of different agencies and organizations involved with potentially providing secondary water in the Kearns Improvement District including Jordan Valley Water Conservancy District, Central Valley Water Reclamation Facility, Canal Companies and neighboring Districts. District staff and board members provided substantial input on the Master Plan, which now helps guide the City as it continues to expand its water portfolio.

**Contact: Pam Gill, General Manager, Kearns Improvement District / (801) 968-1011**

### SANTAQUIN CITY WATER RECLAMATION FACILITY, UT

In 2005, J-U-B designed and administered the construction of a secondary water system in Santaquin City. The \$12M project included over 50 miles of pipeline ranging from 4-inch to 24-inch, highway and railroad bores, PRVs, a booster pump station, large backflow preventers and a 42 acre-ft pond. The project provides secondary water to over 850 acres to meet irrigation demands for parks, schools, landscaping, and gardens throughout the community. J-U-B assisted the city in obtaining funding, state and federal permits, easements, and property for the project.

Beginning in 2007, Santaquin City leaders engaged in a planning process to address concerns about wastewater treatment within the community. During facilities planning it was determined that the city's wastewater lagoons were at capacity and needed extensive upgrades to both the treatment system and land application area. The city was also experiencing summertime deficits in their irrigation supply. To resolve these issues, J-U-B and Santaquin City collaborated on a visionary approach to treat municipal wastewater while at the same time generating a new water source for irrigation. This "new" Type I water is produced using membrane bioreactor technology.



Construction on the \$13M water reclamation facility (WRF) began in 2011 and the plant was commissioned in 2013. The Santaquin WRF is the first facility in Utah that stores and reuses 100 percent of its effluent in a residential secondary irrigation system. The State Engineer approved the eventual reuse of over 5,000 acre-ft per year of reclaimed water as the community grows. Treated wastewater is pumped to a reclaimed water storage reservoir above the town where it is stored during the winter months. During the irrigation season, the reclaimed water is then pumped into the secondary water system and distributed for use in the community. With this project, Santaquin City has established a model for sustainable water resource development in the Intermountain West.



**Contact: Ben Reeves, Manager, Santaquin City / (801) 420-3052**

### CITY OF WALLA WALLA WWTP REBUILD, WA



The City of Walla Walla retained J-U-B to provide facilities planning, capacity and condition analysis, a phased upgrade, schedule, CIP, design, construction management, and funding support to rebuild virtually the entire facility, upgrading the Walla Walla WWTP to Class A (Type I) reclaimed water standards (the first in eastern Washington) and increasing the capacity to 9.5 mgd. Technical aspects of the project included biological nutrient removal, solids handling, hypochlorite backup, and UV disinfection. A national consultant firm had estimated \$54 million for the

project, but J-U-B's value-driven approach reduced the completed construction cost to \$30 million over a 10-year period. Most recently, J-U-B helped the City with a QAPP plan that helped them meet their PCB limits without additional treatment. Value is a key driver for Walla Walla, so J-U-B has consistently looked toward options that give the biggest bang for the buck. Not only were the City's upgrades less expensive, but they have proven more flexible and robust, reducing ongoing City capital outlays at the treatment plant.

**Contact: Frank Nicholson, Utility Engineer, City of Walla Walla / (509) 527-4537**





**ADDENDUM NO. 1**  
**TO THE RFP DOCUMENTS**  
for  
**WASTE WATER REUSE FOR IRRIGATION WATER**

Date: June 28, 2016

**To All Planholders and/or Prospective Bidders:**

The following changes, additions, and/or deletions are hereby made a part of the RFP documents for the Wastewater Reuse for Irrigation Water dated June 2016 as fully and completely as if the same were fully set forth therein:

**Approximate Time per Phase**

Phase 1 and 2	10-20 hours
Phase 3	20-30 hours

**Delivery Time**

Phases 1 & 2	6-8 week
Phase 3	4-6 months (dependent on agency permit processing time)

**RFP Due Date**

Monday, July 11 2:00 p.m.

All Bidders shall acknowledge receipt and acceptance of this Addendum No. 1 in the Bid Form or by submitting the Addendum with the bid package. Bid Forms submitted without acknowledgment or without this Addendum will be considered in nonconformance.  
City of West Jordan

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Appended hereto and part of Addendum No. 1:

**END OF ADDENDUM NO. 1**

**APPENDIX - RESUMES**



## Gregory Stevens, PE, PMP



### Education

MS, Environmental Engineering,  
University of California, Los Angeles  
BS, Civil Engineering, University of Utah

### Professional Registrations

Professional Engineer – UT  
Project Management Professional

### Affiliations

Member, Project Management Institute  
Member, American Public Works  
Association  
Member, Water Environment Federation

*Mr. Stevens brings 20+ years' experience working with some of the largest CIP and capital build projects across the country. He has been responsible for setting up and implementing program and project management processes and tools in support of capital improvement planning and ensuring large capital projects are completed on time and within budget. He has been the project manager and system architect for numerous city, municipal, and utility entities—providing best practice and lessons learned with each new assignment. His experience has proven successful in managing and delivering both small, short-term projects with critical deadlines, to large multi-million dollar projects with complex requirements and deliverables using disperse international resource teams.*

*For the past five years Mr. Stevens has led the deployment efforts for most of the large, more complex MWH CIP and capital project deployments performed within North America. He has developed strong skills in recognizing, designing, communicating, and implementing innovative and leading-edge solutions and the ability to effectively manage both engineering and IT-related resources.*

### Relevant Project Experience

#### **Project Manager and System Architect, Santa Clara Regional Wastewater Facility CIP Reporting Program, San Jose, CA**

Mr. Stevens recently led the deployment of this extensive project management reporting system to successfully manage San Jose's \$2B 15-yr Capital Improvement Program to rebuild infrastructure worn from nearly six decades of nonstop service, and updating treatment processes to handle 167 mgd with new technologies including:

- Infrastructure rehabilitation at all stages of the treatment process for greater efficiency and reliability
- New, more efficient biosolids dewatering and drying processes to better control odors and reduce the operational footprint
- New methods of generating energy to sustainably power facility operations

Mr. Stevens developed effective project management processes and reporting dashboards and KPIs to track the status of the CIP through each project lifecycle stage. The system also included the ability to track risks, issues, change log, and all key project deliverables to create a project record archive and auditable system.

#### **Project Manager and System Architect, Colorado Springs Utilities Southern Delivery System (SDS) Capital Program, Colorado Springs, CO**

Mr. Stevens was the project manager and key system architect for the design/implementation of an enterprise project management and collaboration solution to successfully manage Colorado Springs Utilities \$700M 5-year SDS Capital Program. Utilizing lifecycle management processes he effectively managed 17 work packages encompassing the pueblo dam connection, 60-miles of large-diameter pipe, three pump stations and a water treatment plant. Effective project controls were put into place to manage project and program schedule and cost performance, as well as capturing all correspondence and communication during design and construction phases. The overall program is currently running \$25M under budget and is expected to be completed on time in 2016.

#### **Project Deployment Manager, AltaLink Utilities Project Management Office, Calgary, Canada**

Mr. Stevens was the project deployment manager for the successful implementation and rollout of a project management office (PMO) for AltaLink's \$5B 5-yr capital program for the Major Projects division. The PMO was established and effective project management practices put into place, underpinned by a set of governance processes to ensure



consistent and timely execution of more than the 150 active projects being performed at any given time through the PMO. Schedule and cost control systems were implemented, along with a robust stage gate project review process. Through these processes PMs were required to prove project progress was being made before projects were allowed to proceed to the next phase. Monthly status reports and progress dashboard views were developed for upper management to monitor and track overall project performance and rollup statistics. A formalized risk management and change log system were put into place to minimize historical project overruns and project delays. Implementation of these processes contributed to reducing the number of projects behind schedule from > 25% to less than 2% over an 18-month period.

#### **Program Deployment Manager, New Orleans Recovery Development Program, City of New Orleans, LA**

Mr. Stevens served as the deployment manager for MWH's project life-cycle management tool to the City of New Orleans post-Katrina Recovery Efforts. The effort included an assessment and definition of a Program Governance model to support the hundreds of projects being implemented as part of the Office of Recovery and Development Administration (ORDA) Program post-Katrina Recovery Efforts. Eleven practice areas were reviewed with standardized processes and procedures put into place based upon MWH best practice models. A governance review board was established and integrated into the Project Life Cycle delivery model. The system was deployed to effectively capture and document the Project Life Cycle, Governance model, and all Practice Area process/procedures for the entire ORDA Program Team.

#### **Project Technical Lead, Enterprise SharePoint Deployment, BC Hydro (BCH) Hydropower Utility, British Columbia, Canada**

Mr. Stevens was the technical lead for the design/implementation of an enterprise SharePoint solution to successfully manage BC Hydro's \$5B 20-year Capital Program budget. The systems deployment efforts were part of an overall Program Governance and Project Life Cycle Assessment, consisting of 15 Practice Areas being enhanced through the Project Management Services Partnership with BCH. The project management solution supported a number of enterprise processes including project lifecycle management, automated status reporting and documentation, document management, issues and risk management, and overall team collaboration.

#### **Project Manager, mPRISM Control System Implementation, Clark County Water Reclamation District (CCWRD), Las Vegas, NV**

Mr. Stevens was the project manager for the implementation of MWH's mPRISM Program Management Reporting and Monitoring tool. As part of the remit to provide Program Management Services for the \$500M Capital Projects program for the CCWRD, mPRISM was deployed to provide executive dashboard and reporting capabilities to the program team and City officials. The mPRISM deployment consisted of establishing a robust enterprise-wide solution based upon IBM's WebSphere foundation and portal technology and integrated with Primavera Schedule Management system to provide monthly project status, cost and schedule reporting, budget tracking, and issues management capabilities. The mPRISM system was configured to provide project-level reporting and monitoring capabilities, as well as portfolio rollup and overall Program performance reporting and monitoring.

#### **Operations Manager, OE-GIS Program, US Army Corps of Engineers**

Coordinated all ground activities, process improvements, GIS application development, and data management system development associated with 16 task orders on this \$7M IDIQ contract. This program consisted of establishing robust solutions for managing and detecting false positives of unexploded ordnance during ground reconnaissance and site clearance activities prior to being turned over to construction contractors for redevelopment. Mr. Stevens was responsible for managing all field crews, system development resources, overall contract P&L, change order management, status reporting, and effective communications with the client.

#### **Business Unit Manager, Industrial and Federal Operations, Various Locations**

As the Business Unit Manager, Mr. Stevens was responsible for the management and mentorship of 10 professionals. His responsibilities included business administrative functions for nearly \$5M in revenue per year, business development functions to support the sustainment and growth of his business unit, and technical mentorship functions that provided his staff the capabilities to execute the work assigned to his business unit. Mr. Stevens provided technical quality assurance review on all projects performed within his business unit to ensure high-quality, consistent and comprehensive project deliverables.



Christina Osborn has more than 12 years of experience with planning, permitting, designing, and operating water/wastewater treatment plants and water reclamation facility projects. She is currently a project engineer in the Salt Lake City office. Christina has completed water and wastewater planning documents, studies and designs for many communities throughout Utah and Idaho. As part of these plans, studies and designs, Christina has evaluated existing infrastructure and treatment systems, determined

their condition and capacity and identified solutions. She has worked with funding and permitting agencies and can apply her expertise to make the planning and design process efficient.

## RELEVANT EXPERIENCE

### Planning, Funding and Environmental

- **Santaquin and Coalville, UT** - Evaluated wastewater treatment options as part of putting together a Facility Plan per State and USDA-Rural Development (RD) requirements. The Facility Plans included evaluating existing facilities, defining demands, developing alternatives with costs and recommending an alternative. Also wrote Environmental Reports per USDA-RD requirements, and helped secure funding from USDA-RD, Division of Water Quality and others. Also assisted with permitting.
- **Tabiona, UT** - Evaluated wastewater treatment options as part of putting together a Facility Plan per State and USDA-Rural Development requirements. The Facility Plan included evaluating existing facilities, defining demands, developing alternatives with costs and recommending an alternative.
- **Murtaugh and Glenss Ferry, ID; and Morgan, Lewiston, and Wellsville, UT** - Evaluated wastewater treatment options as part of putting together a Facility Plan per State requirements. The Facility Plans included evaluating existing facilities, defining demands, developing alternatives with costs and recommending an alternative.
- **Coalville and Garden City, UT** – Wrote Preliminary Engineering Reports and Environmental Reports per State and USDA-RD requirements as part of applications for project funds for water projects.
- **Wendell and Filer, ID** - Wrote Environmental Reports per State and USDA-RD requirements as part of an application for project funds for wastewater projects. Both Reports were approved and funding was received.
- **Murtaugh, ID** - Wrote an Environmental Report per State requirements as part of an application for project funds for wastewater projects. The Report was approved and funding was received.

### REGISTRATION

Professional Civil Engineer,  
Utah #7279342-2202, March 2009

### EDUCATION

M.S. Environmental Engineering,  
University of Colorado, 2004

B.S. Civil/Environmental  
Engineering,  
Seattle University, 2002

### PROFESSIONAL AFFILIATIONS

Water Environment Federation  
Water Environment Association of  
Utah

American Water Works  
Association

Women of Water, President

### EXPERIENCE

J-U-B Engineers, Inc.,  
Salt Lake City, Utah  
2007-Present

U.S. Peace Corps,  
Dominican Republic  
2004-2006

University of Colorado/ USGS,  
Boulder, CO  
2003-2004

United States Environmental  
Protection Agency,  
Seattle, WA  
2001- 2002

- **Hooper, UT** - Evaluated wastewater treatment options, such as regional treatment strategies and water reclamation facilities.
- **Kearns Improvement District, UT** – Investigated the economic and social feasibility of the District supplying secondary water and diversifying their water supply. Options included reclaimed water from a scalping plant, wells, canals and storm water.
- **Dairy Industrial Process, UT** – Evaluated options for a dairy processor to modify their wastewater pretreatment system in order to comply with city requirements.
- **Dugway, UT** – Investigated brine disposal options for a reverse osmosis treatment facility. Preliminary analysis was done on using evaporative ponds using enhanced evaporation measures.

#### Engineering Design

- **South Valley Sewer District, UT** – Managed the project and designed a sewer line extension on Herriman Parkway.
- **Woods Cross, UT** – Engineer of Record for the design of a 2,000 gpm water treatment facility, which includes a granular activated carbon adsorption system, bag filters and an onsite sodium hypochlorite generation system. Also produced an Operations and Maintenance Manual.
- **Coalville, UT** - Investigated, analyzed, and produced drawings, reports and costs for the following elements of a 1.5 mgd wastewater treatment facility: secondary clarifiers, return activated sludge pumps, open channel ultraviolet disinfection system, reaeration system, and non-potable water pump station. Also produced an Operations and Maintenance Manual.
- **Santaquin, UT** - Investigated, analyzed, and produced drawings, reports and costs for the following elements of a 1.4 mgd membrane bioreactor water reclamation facility: modification of an existing influent pump station, non-potable water pump station, open channel ultraviolet disinfection system, and reclaimed water pump station.
- **Richmond, UT** – Project Engineer for design of a new grit removal system in front of the membrane bioreactor treatment system. Updated the Pretreatment Program including Ordinances and method to charge industries.
- **Morgan, UT**- Designed the following modifications at an existing lagoon wastewater treatment facility: installation of a dechlorination system using sodium bisulfite and a reaeration system using fine bubble tube diffusers.
- **Dairy Industrial Process, CO** – Investigated, analyzed and designed the following processes at a new wastewater treatment facility at a dairy: non-potable water pumping system, reaeration system, effluent pumps and tank, ultra violet light disinfection system, forward flow pumps, and various lift stations.
- **Buhl, ID** - Investigated, analyzed, designed, and produced drawings, reports, specifications and costs for an influent pump station and a non-potable plant water pump station.



## Angela Xia, EIT



### Education

MS, Civil Engineering, University of Illinois at Urbana-Champaign

BEng, Water Supply and Wastewater Engineering, Tongji University, Shanghai, China

### Professional Registrations

Engineer-in-Training

*As a young professional, Ms. Xia has over two years of combined research and engineering consulting experience. Her area of study focuses on environmental hydrology and hydraulic engineering. She has worked on extensive projects which utilized her skills in hydrologic and hydraulics analysis and modeling, stormwater management, water quality engineering, water resources engineering, environmental remediation and asset management.*

### Relevant Project Experience

#### **Environmental Engineer, Environmental Remediation Services at Manufactured Gas Plant Sites, Nicor Gas, Naperville, IL**

Working as an environmental engineer, Ms. Xia was tasked to perform the following duties. She compiled and analyzed field data to characterize chemicals in soil and air at manufactured gas plant sites. She validated field and laboratory data for the ambient air monitoring program. She prepared site maps for stormwater permitting projects by conducting GIS spatial analysis and geomapping. She assisted with the installation, operation and maintenance of remediation projects. She performed waste tracking and management duties. Additionally, she prepared several technical reports and associated engineering calculations for remediation projects.

#### **GIS Intern, Gas Utilities Asset Management Pioneer Project, Peoples Gas, Chicago, IL**

Ms. Xia was the technical lead for the asset management pioneer project with Peoples Gas. She managed the integrity and quality of GIS data for Chicago's utilities in accordance with IDOT standards. She created data maps and data models using Trimble InSphere to be incorporated into field survey devices. She preconfigured the Trimble Geo7X field device for as-built gas utility surveying. She completed field testing and prototyping for the development of as-built standards for Peoples Gas.

#### **Water Resources Engineering Intern, Shanghai, China**

Ms. Xia worked on various projects during her internship. She used InfoWorks ICM and CS to perform hydraulic simulations for the drainage systems in Hong Kong. She performed design calculations related to drainage, stormwater management and water quality. She used ArcGIS for watershed delineation, land use suitability analysis and excavation and landfill calculation. She prepared engineering drawings using AutoCAD for the Baisha Lake restoration project. She supported water quality analysis for the Colombo Port Marina Study by collecting and analyzing climate and hydraulic data. She proposed different design alternatives for a sustainable urban system in Jakarta by incorporating green infrastructure, low-impact development and stormwater management concepts. She also used open source GIS tools (QGIS) to create a map showing the polder and dike system and drainage system in Jakarta. In addition, she was responsible for preparing proposals, project deliverables and presentation slides.

#### **Undergraduate Research Assistant, Tunnel and Reservoir Plan, the Metropolitan Water Reclamation District of Greater Chicago, Chicago, IL**

In this capacity, Ms. Xia performed QA/QC for the hydraulic model of the Chicago O'Hare International Airport. She performed stormwater modeling for the airport using EPA SWMM and calibrated the hydraulic model in EPA SWMM for higher running efficiency. She studied the computational algorithm of the SWMM and analyzed the relationship between time-steps and simulation accuracy.



### Notable Coursework Projects

- Performed floodplain analysis using HEC-RAS and created flood map for the 100-year storm using ArcGIS for the Copper Slough Watershed in Illinois.
- Designed hydraulic components including ditches, culverts and detention tanks for a highway extension in Peoria, Illinois.
- Designed sustainable drinking water treatment processes for a primary school in Njoro, Kenya
- Proposed solutions to overcome technical barriers in the operation of the City of Moline's Water Treatment Plant, Illinois.



## Zakir M. Hirani, PE, BCEE

### Education

MS, Environmental Engineering,  
University of Southern California, Los  
Angeles

B.Eng. Civil Engineering, MS, University  
of Baroda, India

### Professional Registrations

Professional Engineer – CA

Board Certified Environmental Engineer  
(BCEE), Water Supply / Wastewater  
Engineering

*Mr. Hirani is a licensed Process Engineer with expertise in physiochemical and biological treatment of water, wastewater and produced water in the municipal and oil and gas sectors. He is experienced in several aspects of water and wastewater treatment including applied research, bench and pilot studies, conceptual process design and modeling, detailed design, project management, engineering services during construction, start-up/commissioning and process troubleshooting. He has process design experience with several treatment processes including microfiltration and ultrafiltration, membrane bioreactors (MBR), reverse osmosis (RO), ozone, ultra-violet disinfection (UV), advanced oxidation processes (UV/H<sub>2</sub>O<sub>2</sub> and Ozone/H<sub>2</sub>O<sub>2</sub>), ion-exchange, fluidized bed reactor, membrane biofilm reactor, activated carbon, thermal desalination and conventional treatment processes.*

### Relevant Project Experience

#### City of San Diego, CA - Water Reuse Study

Project Engineer for an advanced water treatment (AWT) program conducted for the City of San Diego to evaluate the performance of advanced water treatment including UF-RO-UV+H<sub>2</sub>O<sub>2</sub> (Ultrafiltration - Reverse Osmosis – Ultraviolet + Hydrogen Peroxide) process train for indirect potable reuse. The project evaluated various integrity monitoring methods on several different RO membranes, assessed the long-term performance of the RO membranes on UF-filtered tertiary wastewater and evaluated the efficiency of advanced oxidation process (AOP) using UV+H<sub>2</sub>O<sub>2</sub> for removal of NDMA and EDCs/PPCPs. The project identified Indirect Potable Reuse (IPR) as the most feasible option to increase the City's water reuse capacity.

#### WaterReuse Research Foundation (WRF-06-007) – Investigation of MBR Effluent Water Quality and Technology

Project Engineer for a WRF project investigating impact of operational parameters on effluent water quality produced by MBR process. The project team developed a membrane bioreactor model to predict the performance of MBR process in removal of nutrients and emerging contaminants. The model also incorporated membrane separation and was calibrated and validated using real world data obtained from pilot and full-scale installations worldwide. The model was used to predict impact of key process parameters such as SRT, HRT and MLSS on aeration requirements and effluent water quality.

#### WaterReuse Research Foundation (WRF-08-07) – Disinfection Guidelines for Satellite Water Recycling Facilities

Project Engineer for a WRF project characterizing effluents from several different satellite water recycling facilities and determining disinfection requirements. The project team surveyed and sampled from 40 different MBR installations across the U.S. The objective of the study was to assess the impact of different design and operational variables on effluent water quality and subsequent disinfection requirements. The project findings ultimately defined the disinfection guidelines for satellite water recycling facilities.

#### Metropolitan Water District of Southern California, CA – Conceptual Design of the 150-MGD Advanced Water Treatment Facility

Lead Process Engineer for the conceptual design of a 150-MGD advanced water treatment (AWT) facility consisting of MBR-MF-RO-AOP process train. Upon successful completion of the demonstration testing, the facility layout will be modified to include MBR-RO-AOP train that will be used for indirect potable reuse.



### Permian Basin - Produced Water Treatment and Reuse

Project Manager for a water reuse demonstration project to treat produced water from one of ConocoPhillips' central tank batteries in the Permian basin and utilize it for hydraulic fracturing of a nearby well. The project utilized conventional treatment processes including oxidation, clarification and filtration to achieve complete removal of iron and partial removal of hardness from the produced water to make it compatible with the hydraulic fracturing fluid. The successful outcome of the project resulted in implementation of the tested process scheme in an upcoming large-scale produced water reuse project.

### Eagle Ford – Feasibility of Thermal Desalination Technologies in Treatment and Reuse of Produced Water and High-salinity Groundwater

Project Manager for a study evaluating the performance of an evaporator/crystallizer (SaltMaker) based on humidification-dehumidification (HDH) process for the volume reduction of produced water and reuse of desalinated water from one of ConocoPhillips' producing wells. A membrane distillation process (Memsys) was also evaluated during the study to treat high-salinity groundwater. The objective of the study was to qualify thermal desalination technologies for future application at one of ConocoPhillips' facilities either in the US or abroad for reduction of brine volume or zero-liquid discharge (ZLD) applications.

### Metropolitan Water District of Southern California, CA – Advanced Water Treatment Demonstration Facility

Lead Process Engineer for the design of 1.0 MGD advanced water treatment (AWT) facility consisting of MBR, RO and AOP (UV/H<sub>2</sub>O<sub>2</sub>) process train. The AWT facility will be utilized to collect sufficient operational and water quality data for design of a 150-MGD AWT facility at the Joint Water Pollution Control Plant in Carson, CA. While using MBR as a pretreatment to RO, the facility will be first of its kind to potentially seek approval of the MBR-RO-AOP process train for indirect potable reuse.

### City of Anaheim, CA – Water Recycling Demonstration Project

Project Technical Lead for the design of a 100,000 gpd decentralized water recycling facility for local end users/recycled water customers for the City of Anaheim, CA. The advanced treatment facility uses MBR & ozone process train to produce recycled water that meets CDPH's Title 22 requirements as well as stringent effluent nitrogen requirements. Mr. Hirani completed the process design of the treatment facility from the preliminary design phase to the final design. He also worked with the client, construction manager and the contractor to provide engineering services during construction for the project. He also led the plant commissioning and permitting process with assistance from the City staff.

## PUBLICATIONS AND PRESENTATIONS

**Hirani, Z.**, Bukhari, Z., Oppenheimer, J., LeChevallier, M., Jacangelo, J. (2012). Assessing chlorine disinfection requirements of MBR effluents. Presentation at the 16<sup>th</sup> Annual Water Reuse and Desalination Research Conference, San Diego, CA.

**Hirani, Z.**, Lehman, G., DeCarolis, J., Jacangelo, J. (2010). Pathogen rejection and peak flux performance by nine different MBR systems. Paper presented at the WaterReuse Foundation's Annual WaterReuse Symposium, Washington, D.C.

**Hirani, Z.**, Oppenheimer, J., DeCarolis, J., Kiser, A., Rittmann, B. (2010). Investigation of MBR effluent water quality and technology - A WaterReuse study. Presentation at the California Water Environment Association's (CWEA) 82<sup>nd</sup> Annual Conference, Sacramento, CA.

**Hirani, Z.**, DeCarolis, J., Oppenheimer, J., Pearce, B. (2009). Performance evaluation of advanced water treatment for water reuse. Presentation at the CWEA Specialty Workshop – "Membranes in Wastewater Treatment", Fairfield, CA.

**Hirani, Z.**, Adham, S., DeCarolis, J., Wasserman, L. (2007). Feasibility of newly developed membrane bioreactors for wastewater reclamation. Paper presented at the International Desalination Association's (IDA) World Congress on Desalination and Water Reuse, Maspalomas, Gran Canaria, Spain.

Jacangelo, J., **Hirani, Z.**, Oppenheimer, J., LeChevallier, M., Bukhari, Z. (2012). Microbial inactivation and process control strategy for reduction of chlorine disinfection requirements for satellite MBRs. Paper presented at the 27<sup>th</sup> Annual WaterReuse Symposium, Hollywood, FL.

Schmidt, H., Glenny, Y., **Hirani, Z.**, Casado, L., Arrebola, V., Ferguson, J. (2011). Miami-Dade's reuse pilot program – Investigates the limits of technologies to meet ultra-low levels of nutrients and micropollutants. Paper presented at the Water Environment Federation's 84<sup>th</sup> Annual Technical Exhibition and Conference (WEFTEC), Los Angeles, CA.

Oppenheimer, J., **Hirani, Z.**, DeCarolis, J., Jacangelo, J. (2011). Innovative research results - Membrane bioreactors. Paper presented at the WaterReuse Foundation's Annual WaterReuse Symposium, Phoenix, AZ.

# Nathan Zaugg, PE



## Education

MS, Civil and Environmental Engineering, Utah State University

BS, Environmental Engineering, Utah State University

## Professional Registrations

Professional Engineer – UT

## Affiliations

Member, Water Environment Federation

*Mr. Zaugg has served as a project manager and engineer for a variety of water and wastewater projects for both local and national clients, including municipal, industrial, and oil and gas clients. His primary focus is on process engineering of treatment facilities, but he also has extensive experience in incorporation of the equipment required for those processes into the facility design and specification of this equipment for procurement. Mr. Zaugg's technical expertise includes intake design, sedimentation processes, solids handling and treatment, and process validation. Mr. Zaugg has also had design for all system components associated with Dissolved Air Flotation (DAF), headworks, and anaerobic digestion systems.*

## Relevant Project Experience

### **PCE Remediation Project, Water Well 18, Salt Lake City Corporation, Salt Lake City, UT**

Mr. Zaugg developed the design of a spraying aeration system that pumps water from a well into a large reservoir. The spraying system has a flow rate capacity of 2,300 gpm and will aerate the water to allow the PCE to transfer from the liquid phase to the gas phase. The system operates only with the pressure from the well pump and does not require any other external power.

### **West Jordan Wastewater Pretreatment Facility, The Dannon Company, West Jordan, Utah**

Project Manager for an entirely new 700,000 gallon per day wastewater pretreatment system. Mr. Zaugg led a team of engineers to complete the design of the facility on an extremely abbreviated schedule, permitting the full design and construction of the entirely new 700,000 gallon per day pretreatment facility within one year. This facility uses an innovative treatment train, employing dissolved air flotation (DAF) and moving bed bioreactors (MBBR) to reduce the influent BOD from sometimes 5,000 mg/L to under 250 mg/L. Additionally, the facility has been designed to permit incorporation of numerous additional process trains, allowing the production facilities to potentially double within the same plant footprint. Mr. Zaugg developed the process design and was responsible for all aspects of project design as the lead design engineer, with significant work performed on mechanical systems, HVAC, and hydraulic designs. Mr. Zaugg also served as resident engineer, helping abbreviate the construction schedule through rapid review and RFI response. As a result, the total time from receipt of permits to initial treatment of water was 114 calendar days.

### **Boxford Street Wastewater Treatment Facility, Safeway, Commerce, CA**

Design Lead for treatment systems. Production improvements at the Boxford food production facility led to a need to improve wastewater pretreatment systems. Mr. Zaugg worked with an engineering team to design collection systems, lift stations, and a pH adjustment system for several different production areas, including dairy and bakery goods.

### **San Leandro Wastewater Treatment Facility, Safeway, San Leandro, CA**

Design Lead for treatment systems. In order to reduce costs associated with wastewater disposal surcharges, Safeway elected to examine alternatives to the existing pretreatment system at their San Leandro milk plant. Mr. Zaugg led a team in the design of a membrane bioreactor system for reducing the surcharge associated with wastewater discharges for this facility. The system design also includes dewatering facilities for the pretreatment system and pH adjustment system.



### **SM Energy Pilot Treatment Study, Houston, TX**

Project Manager for pilot study examining treatability of water produced by petroleum wells in the Eagle Ford formation in Texas for reuse. This water, consisting of both formation water and frac flowback water was tested to determine the constituents of concern in the water that may limit suitability in hydraulic fracturing operations. After identification, a treatment concept was developed that was theorized to provide sufficient removal of the constituents of concern. This treatment system was then tested in a pilot configuration to determine the effectiveness of the treatment system along with the costs of operation. The final treatment configuration utilized DAF followed by filtration systems.

### **RN Industries, Miscellaneous Services, Duchesne, UT**

Technical Advisor on produced water disposal projects. RN Industries operates several produced water disposal facilities in the Uintah Basin in Colorado, Utah, and Wyoming. Mr. Zaugg has provided technical assistance during the design and construction of several of these facilities, including development of new technologies for the treatment of produced water.

### **Moab, Utah Wastewater Treatment Facility Master Plan Update, City of Moab, UT**

Project Manager and Lead Engineer for the evaluation and master planning of the Moab WWTP. This study examined existing treatment processes and structures, evaluated the capacity of each structure, determined the system deficiencies, and provided recommendations on optimizing the wastewater facility. This included providing multiple process alternatives and also included evaluation of the facility for the impact of potential future nutrient regulations.

### **Camp Williams Water Supply Pipeline, Utah National Guard**

Project manager for the design and construction management of a 2-mile culinary water pipeline supplying Camp Williams with their primary source of water. The pipeline grade changes by over 500 feet from the bottom of the line to the top and crosses beneath a river, three canals, two regional aqueduct systems, a major rail corridor, and a major highway. The design of the pipeline also incorporated updated design features not present on the previous line, such as air blow-off valves, and drainage systems.

### **Midway Fish Hatchery Wastewater Treatment Systems, DFCM / UDWR, UT**

Project Manager of wastewater treatment systems designed to improve management and treatment of wastewater produced during raceway cleaning operations. The treatment systems include tankage and precoat filter to separate fish fecal material from hatchery wastewater without the use of polymer or other chemical that would cause violations of the hatchery's discharge permit. Solids generated by the system can be disposed of by either land application or landfilling with minimal considerations.

### **Kamas Fish Hatchery Wastewater Treatment Systems, DFCM / UDWR, UT**

Project Manager of treatment systems designed to improve management of wastewater produced during raceway cleaning operations. Worked with UDWR personnel to develop a solution that would be flexible and sustainable for hatchery operations. The system designed is a new and innovative solution that will reduce the risk of the facility violating discharge permits.

### **Chlorine Booster Facility and Chemical Feed Systems, Jordan Valley Water Conservancy District, UT**

Project Manager for a new chlorine booster facility for the Jordan Valley Water Conservancy District. This project required evaluation of different methods to deliver disinfectant to water leaving the 100 million gallon terminal reservoir. Initial phases of the project evaluated the use of bulk sodium hypochlorite or on-site generation of hypochlorite, with bulk hypochlorite selected as the disinfectant of choice. Construction of the system was completed on-time and under budget.

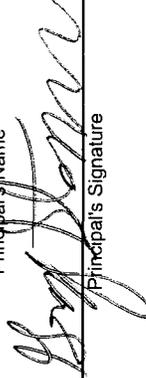
**Wastewater Reuse for Irrigation Water  
Fee Proposal**

**Client: City of West Jordan  
Date: July 11, 2016**

**Firm Name: MWH now Part of Stantec**

Team Role	Principal / Manager	Lead / Supervisor	Senior	Professional	Associate	Intern	Total Hours	Cost By Task
Tasks/Hourly Rate	\$195 / hr	\$150 / hr	\$130 / hr	\$96.50 / hr	\$84.50 / hr	\$68 / hr		
Task 100: Phase 1 - Data Gathering	1	6	0	0	5	0	12	\$1,517.50
Task 300: Phase 2 - Cost Estimate	7	5	0	0	0	0	12	\$2,115.00
Task 400: Phase 3 - Project Plan	5	22	0	0	4	0	31	\$4,613.00
<b>Total Hours by Team Member</b>	<b>13</b>	<b>33</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>Subtotal: 55</b>	<b>\$8,245.50</b>
<b>Direct Charges</b>								
APC Costs								\$572.00
Other Direct Costs								\$150.00
							<b>TOTAL DIRECT CHARGES</b>	<b>\$722.00</b>
							<b>TOTAL FEE</b>	<b>\$8,967.50</b>

Gregory Stevens, PE, PMP  
Principal's Name



Principal's Signature

07/11/16  
Date

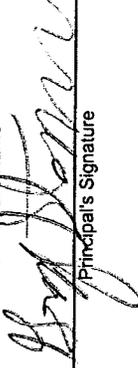
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								<b>TOTAL FEE \$8,967.50</b>

Gregory Stevens, PE, PMP  
Principal's Name



Principal's Signature

07/11/16

Date



## **CITY OF WEST JORDAN**

### **REQUEST FOR PROPOSALS FOR**

### **WASTEWATER REUSE FOR IRRIGATION WATER**

The City of West Jordan is requesting proposals for an engineering study with a financial component that will study the ability of the city to use wastewater reuse for irrigation water. This study will be completed in three phases. The basic issues and requirement for the study are outlined in the following:

#### **HISTORY**

As part of the City of West Jordan's efforts to implement a secondary water system, the City is interested in evaluating the feasibility of wastewater reuse as a potential source of water for the secondary water system.

This effort, along with the recently completed Secondary Water Master Plan Update 2015 (completed in October 2015), the purchase of canal shares and other water rights, and a financial feasibility study (currently being performed), is meant to help provide all of the necessary information to the Mayor and City Council for direction and implementation of the secondary water system in the City.

The City has two potential sources for water reuse:

- Approximately 700,000 gallons per day is released as process water effluent from the Dannon facility at 6165 Dannon Way. While this amount can vary between 500,000 and 1 million gallons per day, it is a fairly consistent, year-round flow.
- West Jordan's portion of the water that leaves the South Valley Water Reclamation Plant amounts to a total of about 8 million gallons per day (this currently includes the Dannon water).

#### **PHASE 1**

Gather information from City regarding previous efforts, including the Secondary Water Master Plan, water quality tests, white papers, and correspondence with State Division of Water Quality regarding the issue.

With that information, determine regulatory requirements for reuse in each of the previously mentioned source options. This will include permitting requirements, scope of the project plan review (as required in State Administrative Rule R317). Water quality standards necessary for reuse.

## **PHASE 2**

Starting with the information provided in the Secondary Water Master Plan, provide a detailed cost estimate for all anticipated costs associated with treatment and delivery. This phase is intended to provide anticipated costs regarding each source option. This includes, but is not limited to: capital infrastructure needs for water treatment, operational costs to operate a treatment plant, pumping costs, and chemical or filter costs required for on-going treatment. Cost estimates will be provided based upon results of Phase 1 and only where necessary to comply with state regulations.

## **PHASE 3**

Prepare the Project Plan required by state administrative rule R317 and process the Plan as part of complete permitting effort for one of the above mentioned sources.

## **DELIVERABLES**

At the conclusion of Phase 2, the consultant will provide a report for City review. The first part of the report will detail information found as part of Phase 1 pertaining to permitting and water quality standards necessary for reuse of each of the source options. The second part of the report will provide engineer's cost estimates for the infrastructure and operational costs associated with each of the source options.

Following receipt and review of the report, the City will present the findings to the Administration for direction regarding Phase 3.

## **PROPOSAL FORMAT**

Proposals submitted shall not be longer than 10-pages (excluding any appendices for resumes) and shall provide the technical proposal separate from the bid amount. The bid shall be placed in a separate sealed envelope and will be reviewed separate from the technical aspects of the proposal.

The proposal shall present the firm's qualifications, including similar projects performed by the firm or proposed staff. Emphasis should be given to work done locally by those proposed to work on the project.

The proposal shall also address the firm's approach to accomplishing the three phases of the project and the ability of the firm to complete the permitting process with the state, if authorized to perform Phase 3.

- Introductory letter
- A description of the project team and the qualifications of the firm to complete this project. Identify the availability of the project personnel by showing the percent of time the team members have to work on this project. (Resumes of each project team member should be included in a proposal appendix).
- A description of the project describing the consultants understanding of the project objectives and goals.
- A work plan for accomplishing the project, including descriptions of the tasks to be performed and a summary of the deliverables to be provided to the City.
- A proposed schedule for completing the required tasks. (Gantt chart is preferred presentation method.)
- A summary spreadsheet of the amount of time to be spent on each task identified in the scope of work and the classification of personnel to be used. This summary spreadsheet shall show the hours to be spent on each task and the classification of personnel to be assigned to do each task. Identify any special services to be provided by resources outside of the firm.
- Information about other work performed by the consultant on projects similar to this project and at least five references from other clients with whom the consultant has performed similar services.
- In a ***separate sealed envelope***, a “Professional Fee Proposal” estimating all costs to complete the study with subtotals by task as identified in the scope of work. Also, include the hourly rates charged for individuals identified on the project team and a summary of all the additional reimbursable expenses considered necessary that are to be paid by the City.

All firms submitting a proposal must also submit a “Conflict of Interest and Non-Disclosure Certification”. This is a required item and proposals will be disqualified if they do not have this Certification included in their proposal.

### **SUBMITTAL REQUIREMENT**

Five (5) copies of the technical proposal shall be submitted to the City by **2:00 p.m. on June 29, 2016**. Proposals shall be submitted to the West Jordan City Recorder’s office, West Jordan City Hall, (3<sup>rd</sup> floor) 8000 South Redwood Road, West Jordan, UT 84088. Questions pertaining to this request for proposals should be directed to the City’s Purchasing Agent, Paul Wellington at (801) 569-5107, e-mail [paulwe@wjordan.com](mailto:paulwe@wjordan.com). Contact with the Mayor, City Council, City Manager, or any staff members other than the Purchasing Agent, will disqualify your proposal.

A selection committee will review submittal material.

### **PROPOSAL EVALUATION**

The successful consultant will be selected in accordance with the City procurement policy.

In reviewing proposals for selection, the City will review the proposed bid for all three phases together, but it is anticipated that Phases 1 and 2 will be contracted immediately and that Phase 3 would be an add alternate based upon City direction to pursue permitting of one of the source options. City does not guarantee that Phase 3 work will be awarded. As such, proposals will need to be broken down as follows:

Phases 1 & 2 Bid Proposal: \$ \_\_\_\_\_  
Phase 3 (potential add): \$ \_\_\_\_\_  
Total Bid Proposal (all phases): \$ \_\_\_\_\_

The evaluation process will be based solely on these factors. No other factors or criteria will be used in the evaluation. The evaluation process will include a numeric-scoring sheet as follows:

Firm Qualifications	30%
Project Approach	40%
Total Bid Proposal	<u>30%</u>
	100%

**FORMATION OF THE AGREEMENT WITH THE SELECTED APPLICANT:**

After selecting an applicant, the City may conduct additional negotiations with the contractor to arrive at a final contract. When both parties are in agreement, a contract will be awarded.

**REJECTION OF PROPOSALS:**

The City reserves the right to reject any or all proposals received, and to select the proposal deemed to be the most advantageous and in the best interest of the City. Non-acceptance of a proposal will mean that one or more others were deemed more advantageous to the City or that all proposals were rejected. Applicants, whose proposals are not accepted, will be notified after a binding contractual agreement between the City and the selected applicant is executed, or when the City rejects all proposals.

**PROPOSAL VALIDITY TIME:**

Proposals containing less than 60 days acceptance time will not be considered.

**PROPRIETARY INFORMATION:**

Applicants may mark any specific information contained in their proposal which they wish considered as proprietary and not to be disclosed to the public. All proposals submitted become the property of the City and will not be returned.

Offerors are advised that Utah law and City ordinances provide that, upon full

execution of a contract subsequent to an RFP, the contents of the awarded proposal accepted by the City shall be subject to public disclosure and may become public records subject to examination by any interested parties in accordance to the Government Records Access Management Act (GRAMA), Utah Code Ann. 63-2-101 et seq. and City ordinance. Trade secrets and proprietary information, recognized by the City as such, may be protected from public disclosure if offeror clearly identifies, in writing, any part of their proposals which they claim to be proprietary information, trade secrets or other commercial information, or non-individual financial information that may be protected under GRAMA. Proposals in total will not be considered proprietary. All materials submitted by an offeror in response to the City's RFP will become the property of the City upon delivery and will be managed in accordance with GRAMA.

Offerors may mark any specific information contained in their proposal which they wish considered as proprietary and not to be disclosed to the public. All proposals submitted become the property of the City and will not be returned. The Government Records Access and Management Act (GRAMA), Utah Code Ann., Subsection 63G-2-305, provides in part that:

*The following records are protected if properly classified by a government entity:*

*(1) trade secrets as defined in Section 13-24-2 if the person submitting the trade secret has provided the governmental entity with the information specified in Section 63G-2-309 (Business Confidentiality Claims);*

*(2) Commercial information or non-individual financial information obtained from a person if:*

*(a) Disclosure of the information could reasonably be expected to result in unfair competitive injury to the person submitting the information or would impair the ability of the governmental entity to obtain necessary information in the future;*

*(b) The person submitting the information has a greater interest in prohibiting access than the public in obtaining access; and*

*(c) The person submitting the information has provided the governmental entity with the information specified in Section 63G-2-309;*

\*\*\*\*\*

*(6) records the disclosure of which would impair governmental procurement proceedings or give an unfair advantage to any person proposing to enter into a contract or agreement with a governmental entity, except that this Subsection (6) does not restrict the right of a person to see bids submitted to or by a governmental entity after bidding has closed; ....*

GRAMA provides that trade secrets, commercial information or non-individual financial information may be protected by submitting a Claim of Business Confidentiality.

To protect information under a Claim of Business Confidentiality, the bidder must:

1. Provide a written Claim of Business Confidentiality *at the time the information (proposal) is provided to West Jordan*, and
2. Include a concise statement of reasons supporting the claim of business confidentiality (Subsection 63G-2-309(1)).
3. Submit an electronic “redacted” (excluding protected information) copy of your proposal response. Copy must clearly be marked “Redacted Version.”

A Claim of Business Confidentiality may be appropriate for information such as client lists and non-public financial statements. Pricing and service elements may not be protected. An entire proposal may not be protected under a Claim of Business Confidentiality. The claim of business confidentiality must be submitted with your proposal on the form which may be accessed at:

<http://www.purchasing.utah.gov/contract/documents/confidentialityclaimform.doc>

To ensure the information is protected, the bidder must clearly identify in the Executive Summary and in the body of the proposal any specific information for which a bidder claims business confidentiality protection as "PROTECTED."