LINKING AGREEMENT
BETWEEN
THE CITY OF GLENDALE, ARIZONA
AND
LAYNE CHRISTENSEN COMPANY

THIS LINKING AGREEMENT (this “Agreement”) is entered into as of this day of , 20 , between the City of Glendale, an Arizona municipal corporation (the “City”), and Layne Christensen Company, a(n) Delaware corporation authorized to do business in Arizona ("Contractor”), collectively, the “Parties.”

RECITALS

A. On May 29, 2019, under S.A.V.E Cooperative Purchasing Agreement, the City of Scottsdale entered into a contract with Contractor to purchase the goods and services described in the Water Wells and Pump Maintenance and Repair Services, contract 19RP028 ("Cooperative Purchasing Agreement"), which is attached hereto as Exhibit A. The Cooperative Purchasing Agreement permits its cooperative use by other governmental agencies including the City.

B. Section 2-149 of the City’s Procurement Code permits the Materials Manager to procure goods and services by participating with other governmental units in cooperative purchasing agreements when the best interests of the City would be served.

C. Section 2-149 also provides that the Materials Manager may enter into such cooperative agreements without meeting the formal or informal solicitation and bid requirements of Glendale City Code Sections 2-145 and 2-146.

D. The City desires to contract with Contractor for supplies or services identical, or nearly identical, to the supplies or services Contractor is providing other units of government under the Cooperative Purchasing Agreement. Contractor consents to the City’s utilization of the Cooperative Purchasing Agreement as the basis of this Agreement, and Contractor desires to enter into this Agreement to provide the supplies and services set forth in this Agreement.

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing recitals, which are incorporated by reference, and the covenants and promises contained in this Linking Agreement, the parties agree as follows:

1. Term of Agreement. The City is purchasing supplies and/or services from Contractor pursuant to the Cooperative Purchasing Agreement. According to the Cooperative Purchasing Agreement, purchases can be made by governmental entities from the date of award, which was May 29, 2019, until the date the contract expires on May 28, 2020 unless the term of the Cooperative Purchasing Agreement is extended by the mutual agreement of the original contracting parties. The Cooperative Purchasing Agreement, however, may not be extended beyond May 28, 2024. The initial period of this Agreement, therefore, is the period from the Effective Date of this Agreement until May 28, 2020. The City may renew the term of this Agreement for four (4) one-year terms until the Cooperative Purchasing Agreement expires on May 28, 2024. Glendale renewals are not automatic and shall only occur if the City
gives the Contractor notice of its intent to renew. The City may give the Contractor notice of its intent to renew this Agreement 30 days prior to the anniversary of the Effective Date to effectuate such renewal.

2. **Scope of Work; Terms, Conditions, and Specifications.**

   A. Contractor shall provide City the supplies and/or services identified in the Scope of Work attached as Exhibit B.

   B. Contractor agrees to comply with all the terms, conditions and specifications of the Cooperative Purchasing Agreement. Such terms, conditions and specifications are specifically incorporated into and are an enforceable part of this Agreement.

3. **Compensation.**

   A. City shall pay Contractor compensation at the same rate and on the same schedule as provided in the Cooperative Purchasing Agreement, which is attached hereto as Exhibit C.

   B. The total purchase price for the supplies and/or services purchased under this Agreement shall not exceed n/a dollars ($n/a) annually or two million five hundred thousand dollars ($2,500,000) for the entire term of the Agreement (initial term plus any renewals).

4. **Cancellation.** This Agreement may be cancelled pursuant to A.R.S. § 38-511.

5. **Non-discrimination.** Contractor must not discriminate against any employee or applicant for employment on the basis of race, color, religion, sex, national origin, age, marital status, sexual orientation, gender identity or expression, genetic characteristics, familial status, U.S. military veteran status or any disability. Contractor will require any Sub-contractor to be bound to the same requirements as stated within this section. Contractor, and on behalf of any subcontractors, warrants compliance with this section.

6. **Insurance Certificate.** A certificate of insurance applying to this Agreement must be provided to the City prior to the Effective Date.

7. **E-verify.** Contractor complies with A.R.S. § 23-214 and agrees to comply with the requirements of A.R.S. § 41-4401.

8. **No Boycott of Israel.** The Parties agree that they are not currently engaged in and agree that for the duration of the Agreement they will not engage in, a boycott of Israel, as that term is defined in A.R.S. §35-393.

9. **Attestation of PCI Compliance.** When applicable, the Contractor will provide the City annually with a Payment Card Industry Data Security Standard (PCI DSS) attestation of compliance certificate signed by an officer of Contractor with oversight responsibility.
10. Notices. Any notices that must be provided under this Agreement shall be sent to the Parties’ respective authorized representatives at the address listed below:

City of Glendale  
c/o Gina Corwin  
Water Services Department  
7070 W Northern Ave  
Glendale, AZ 85303  
and

Layne Christensen Company  
c/o Paul McAlpine  
1203 E Riggs Road  
Chandler, AZ 85249

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date and year set forth above.

“City”

City of Glendale, an Arizona municipal corporation

By: ________________  Kevin R. Phelps  
   City Manager

“Contractor”

Layne Christensen Company, a Delaware corporation

By: ____________________  [Signature]
   Name:  
   Title:  

ATTEST:

______________  Julie K. Bower  (SEAL)  
   City Clerk

APPROVED AS TO FORM:

______________  Michael D. Bailey  
   City Attorney

1/29/18
LINKING AGREEMENT
BETWEEN
THE CITY OF GLENDALE, ARIZONA
AND
LAYNE CHRISTENSEN COMPANY

EXHIBIT A

19RP028, Water Wells and Pump Maintenance and Repair Services
The City of Scottsdale has awarded the following solicitation:

Solicitation Number:
19RP028

Solicitation Title:
WATER WELLS AND PUMP MAINTENANCE AND REPAIR SERVICES

Description:
The City of Scottsdale, Water Department invites sealed submittals for Water Wells and Pump Maintenance and Repair Services.

Estimated Award Amount:
$3,000,000

Successful Vendor(s):
Layne Christensen Company
Southwest Waterworks
Weber Water Resources

Awarded Date
5/29/2019

Purchasing Staff:
Cheryl Champine

Tabulation:
19RP028 Final Proposal Tabulation

Downloader / Construction Plan Holder List:
View Details
OFFER AND ACCEPTANCE
City of Scottsdale
Purchasing Division
9191 E. San Salvador Dr.
Scottsdale, AZ 85258
Phone: 480-312-5700 - Fax: 480-312-5701

SOLICITATION # 19RP028 | SOLICITATION TITLE: Water Wells and Pump Maintenance and Repair Services

OFFER

TO THE CITY OF SCOTTSDALE:
The undersigned hereby offers and agrees, in accordance with the undersigned's written offer submitted in response to this solicitation, to furnish the material and/or service(s) in compliance with all terms, conditions, specifications, scope of work, and addendums in the solicitation listed above, including written exceptions that are subject to the approval of the City prior to acceptance. The undersigned agrees that the entire solicitation listed above is hereby incorporated by reference as if fully set forth herein.

The Offeror's signature on this Offer form certifies that he has read, understands and will comply with all terms, conditions and specifications stated in all documents constituting the solicitation. The bidder also certifies it is in compliance with the Non-Collusion and all Federal and Arizona State Immigration Laws.

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Paul McAlpine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>Chandler, AZ 85249</td>
</tr>
<tr>
<td>City</td>
<td>12030 E. Riggs Road</td>
</tr>
<tr>
<td>State</td>
<td>Phone</td>
</tr>
<tr>
<td>Signature for Offeror</td>
<td>Date</td>
</tr>
<tr>
<td>Printed Name and Title of Authorized Signatory</td>
<td>Fax</td>
</tr>
<tr>
<td>Federal Employer Tax ID # or SSN as per W9 Statement</td>
<td>E Mail</td>
</tr>
</tbody>
</table>

FOR CLARIFICATION OF THIS OFFER, CONTACT:

<table>
<thead>
<tr>
<th>Printed Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul McAlpine</td>
<td>Account Manager</td>
</tr>
</tbody>
</table>

ACCEPTANCE OF OFFER, NOTICE OF CONTRACT AWARD
(for City of Scottsdale Use Only)

The Contractor's offer is hereby accepted by the City of Scottsdale. The Contractor is now bound to sell the materials and/or service(s) and perform based upon the above solicitation, including all terms, conditions, specifications, scope of work, and addendums contained in the solicitation, as well as any written exceptions that have been separately accepted by the City.

This contract shall henceforth be referred to as Contract #19RP028

The contract consists of the following documents: 1) Solicitation #19RP028 and all addendums (if applicable) as issued by the City; 2) The Contractor's response to the City's solicitation; 3) This signed offer and acceptance and any other applicable contractual agreements, 4) All written exceptions and/or modifications to the solicitation requirements as agreed to by the City and the Contractor as per attachment , dated .

The Contractor is hereby cautioned not to commence any billable work or provide any material or service under this contract until the Contractor receives a purchase order document from the City.

The Contractor must provide the following checked items within ten (10) calendar days from the date of this Acceptance of Offer, Notice of Contract Award in order for the City to issue the required Purchase Order: ☐ Payment Bond ☐ Performance Bond, ☐ Insurance Certificate(s), ☐ I.R.S. Form W-9/Taxpayer ID No. & Certification, ☐ other documentation as identified. If the Contractor fails to furnish the required documents within the stated ten (10) calendar days, they may be considered in default and may be at risk of forfeiture of any applicable Bid Bond posted. All required documents are to be sent to the Bid & Contract Specialist listed in the solicitation.

This document has been approved as to form on the 22nd day of July, 2012 by the City Attorney and is on file with the City Clerk. It need not be submitted to the City Attorney for approval unless the form document is altered.

Risk Management issues reviewed and approved as to form March 18, 2019 by City of Scottsdale Risk Management Director

Recommended award approved May 14, 2019 by City of Scottsdale Contract Administrator

City of Scottsdale, a municipal corporation
Offer Accepted and Awarded this 29th day of May, 2019

[Signature]
Robert Schoepf, CPPD
Or Designee Cheryl Champine, CPPD, PSCM
As City of Scottsdale Purchasing Director

02/21/2019 — Doc #17129139-v3
CCS RFP Template
4-26-2019

City of Scottsdale
9191 East San Salvador Drive
Scottsdale, AZ 85258

Subject: Water Wells and Pump Maintenance and Repair Services, RFP 19RP028

To whom it may concern,

Layne Christensen is pleased to present this proposal for Water Wells and Pump Maintenance and Repair Services, RFP 19RP028. If there are any questions or clarifications please feel free to reach out.

Sincerely,

[Signature]

Paul McAlpine
Account Manager
602-300-3199
City of Scottsdale Water Wells and Pump Maintenance Services Contract  
RFP #19RP028  

Layne Christensen Firm and Staff Qualification Letter

Layne Christensen Company is pleased to provide the City of Scottsdale with our Statement of Qualifications for the Water Wells and Pump Maintenance Services contract.

Layne Christensen Company is a "responsible growth company" concentrating on four overriding values, SAFETY, SUSTAINABILITY, INTEGRITY and EXCELLENCE. Layne has a long history in the drilling industry, with our roots dating to 1882. Layne’s presence in Arizona also has a significant history which can be identified by our Arizona Department of Water Resources drilling license NO. 07 (enclosed). Please visit our website at www.layne.com to view all of our capabilities.

This letter is in response to the Subject RFQ, and addresses the items included in the Minimum Contractor Qualifications Section.

A. Qualifications and Experience of the Firm

Layne Christensen Company is uniquely qualified to perform all the anticipated tasks for the City of Scottsdale. Layne is a worldwide contractor, with its roots in water supply well drilling and pumping equipment. Layne was founded in 1882 and has been growing to meet the demands of the water supply industry across the US and internationally. Today, we employ over 3000 people dedicated to safely meeting the needs of our clients.

Layne Christensen Company operates in Arizona from Chandler. Within our Chandler facility, we provide Municipal Water Supply Well Drilling and Construction, Mine Dewatering Wells, Environmental and Geotechnical Drilling, Monitoring Well Completions, Water Well Rehabilitation, Pumping Equipment Sales and Services, Mineral Exploration Drilling, Hydrologic Investigations, and Water Treatment Technologies. Our goal is to provide an integrated approach that allows us to provide multiple services, streamlined communications and expedited time lines.

Experience in Municipal or Government Entities in Arizona is quite extensive. Projects also include drilling solutions for water management, mineral exploration, environmental and specialty drilling needs. We have recently completed drilling projects for the City of Tucson and Salt River Project. In addition, Layne Christensen has completed numerous wells for the Maricopa Water District, and recently completed water supply well drilling in Prescott and Flagstaff, which are areas known to encounter difficult drilling. Currently, crew members are drilling multiple wells in California’s central valley. We have attached a list of project references for your review.

As requested, we have attached a copy of our ADWR License, Number 7.  
A copy of Layne’ Site Specific Health and Safety plan will be provided upon request.

WATER RESOURCES  
12030 E. Riggs Road, Chandler, AZ  |  Office: 480.895.9404  |  Fax: 480.895.8699  |  layne.com
Layne Christensen has a serious dedication to Health and Safety. We believe Safety is a fundamental right of every person who works or interacts with us. It is an inherent part of our mindset, and the most important factor in every decision we make. We have a Safety department that supports our efforts in the field with Safety Professionals who are assigned regionally. These Safety Professionals provide site support, field auditing, training, and mentoring to our operational crews. Layne Christensen Company personnel are participating in a behavior-based safety incentive plan, which rewards our employees for safe work practices. Layne Christensen Company has virtually unlimited bonding capacity and can provide 100% Payment and Performance Bonds for any project that the City of Scottsdale has. Our Bonding Agent is Lockton Insurance Company.

B. Experience and Qualifications of the Team

Layne Christensen has a group of people and assets that are known internally as our “Water Resources Division”. This team’s focus and specific capabilities, including personnel and equipment are dedicated to meeting municipal and industrial large diameter water supply well needs. Your proposed work will be performed by members of this team. I have attached the resume’s of our key personnel for your review.

Layne Christensen’s Water Resource Division drilling team is fully compliant with 29 CFR 1910.120 training. Our crews are trained at annual meetings designed to meet these requirements. Layne Christensen Company self-performs this training with our in house safety professionals. The training certificates for any crew members specific to a scope of work will be provided at that time.

C. Method of Approach and Available Resources to Complete the Work

In a review of the RFQ, there appears to be a range of services to consider. Layne believes that we are the highest quality and most qualified contractor for your scope of work. In addition to a very skilled drilling department, we have extensive well development tooling and methods, and a professionally managed pump installation and service department. The personnel that will provide well development and pump equipment, well testing, and service, are engaged with a wide range of clients that include municipalities, mining clients, and power providers. Layne Christensen employs a Standard Operating Procedure review, a review of hazards, and daily reporting through a structured Operations group to assure quality and timely completion of our projects. A specific Project Manager will be assigned to each separate work order for daily communication and liaison between our Operations crew and the City of Scottsdale representative.

Our experience in Scottsdale dates to 1979 when Layne opened in Arizona. We have been engaged in water well drilling and construction that includes municipal water wells for the City many times.

D. Subcontractor Selection Plan

Layne Christensen Company typically self-performs all work on these projects. The use of a subcontractor will be limited to a Longmire Well Service in the event that a well swedge or patch is required.

E. Shop Qualifications
Layne Christensen has a large yard and in-house shop located at 12030 E. Riggs Road in Chandler. We perform all of our services in this shop, including but not limited to: bowl tear down, bowl inspection, bowl repair, motor tear down, motor inspection, and motor repair. We are proud to offer a free tour of the facilities upon request of the City.

F. Understanding of Scope of Work and Approach

Layne Christensen understands the scope of work as described in the bid documents. Please refer to our Well and Pump Asset Management brochure to understand our approach to the specified work.

G. Response Time

Layne Christensen understands and agrees to comply with the response times indicated in the services contract.

H. Warranty

Contractor warrants that its labor supplied hereunder shall be free from defect and shall conform to the standards of care in effect in its industry at the time of performance of such labor for a period of twelve (12) months after substantial completion of Contractor's work. Contractor agrees, to the extent it is permitted, to pass on any warranties provided by the manufacturers of materials and/or equipment furnished under this contract. Contractor itself provides no warranty, express, implied or otherwise, on any such materials or equipment. Contractor will not be responsible for; work done, material or equipment furnished or repairs or alterations made by others.

For any breach hereunder, Contractor shall be liable only for the values of the installation work or, if it wrongfully fails to install, then its liability is limited to the difference between the contract price herein, and the value of other similar installation work. If Contractor's breach damages any materials or equipment furnished hereunder, Contractor shall only be liable for the value of such materials or equipment. Under no circumstances will Contractor be liable for consequential, special or indirect damages, including without limitation, any crop loss or damage to other equipment, structures or property, nor for any other similar or dissimilar damages or losses whether due to delay, failure to furnish or install, delay in installation, defective material or equipment, defective workmanship, defective installation, delay in replacing, nor for any cause or breach whatsoever. In any event, Contractor's total liability towards Purchaser for alleged faulty performance or nonperformance under this contract shall be limited to the total contract price. No materials, equipment or services contracted herein carries any guarantee not mentioned in this contract. THE ABOVE WARRANTY IS INLIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED.

Layne Christensen Company is looking forward to working with the City of Scottsdale. If you have any specific questions, please contact either Paul McAlpine at (602) 300-3199 or Wes VanAllen at (602) 820-7926.
Respectfully Submitted,

Paul McAlpine
Account Manager

Paul McAlpine
Account Manager
Layne Christensen Company
LAYNE OVERVIEW

Founded in 1882, Layne Christensen Company (LAYNE) (NASDAQ:LAYN) is a global water management, construction and drilling company. We provide responsible solutions for water, mineral and energy challenges. Layne brings modern skills, an experienced work force, and a highly trained team to our clients in the public and private sectors. Innovation and vision throughout our history has led to our broad range of services that meet the needs of our various clients and provides stability in an ever changing environment.

Layne operates upon a philosophy of responsible growth that guides us in consistently doing the right thing for our people, the environment, our company and the clients we serve every day. We strive to leave the individuals and places we touch better off for their interaction with us, and our culture is embodied in our unwavering commitment to the four core values that define us: Safety, Sustainability, Integrity and Excellence.

WHAT DOES SUCCESS AT LAYNE LOOK LIKE?

Here are just a few of our impressive statistics built on our results over the last 130 years.

OUR VISION
TO BE THE LEADING SUSTAINABLE SERVICES PROVIDER IN THE WORLD OF ESSENTIAL RESOURCES, WATER, MINERAL AND ENERGY.

OUR PURPOSE
TO ENHANCE THE LIVES OF PEOPLE BY SAFELY AND EFFICIENTLY PRODUCING THE ESSENTIAL RESOURCES WE DEPEND ON.

Layne is the world leader in water wells.
WE HAVE DRILLED NEARLY 1,000
wells in the past 5 years alone, with an average pumping capacity of 7.8 million gallons per day and a total depth of 1,172 meters. In our opinion testing, we estimate we have successfully completed more than 50,000 water wells.

WE HAVE CONSTRUCTED MORE THAN
18 MILLION FEET OF PIPELINE.

PLAN B WORKED!
When others failed, Layne's Plan B rescued 40,000 people
FOUNDED IN 1882
and 31,000 cubic meters of jet grouting.

TOTAL SOLUTIONS PROVIDER
Layne's experts collaborate across divisional, functional and geographic lines to deliver total solutions for some of the world's toughest water, mineral and energy challenges. This integrated approach ensures streamlined communications, expedited timelines, a constant focus on our overriding values of safety, sustainability, integrity and excellence, and allows us to offer more than the sum of our individual services. Our solutions give clients a single point of accountability for even the most complex projects, and enable us to deliver high levels of both quality and economic efficiency. While our services are impeccable, it is our solutions that make us truly remarkable.
Well & Pump Asset Management
AGENDA

Well & Pump Asset Management
- Considerations unique to wells
- Data needed
- Program components

Value
- Minimizing life-cycle costs
- Reducing unit energy use & indirect GHG emissions
- Establishing & defending maintenance programs

Layne Expertise & Services
- Full life-cycle expertise
- More than 100 years of experience
- Knowledge & tools
1. Asset Inventory
+ Existing asset records, GIS/CMMS
+ Operator knowledge
+ Well & pump details
+ Pumping records
+ Maintenance records
+ Pump tests
+ Water quality
+ Energy use
2. Condition Assessment
   + Prioritized inspection and testing based on preliminary analysis
   + Fill gaps in asset inventory
3. Program Development
+ Analysis of maintenance & performance data
+ Economic analysis
+ Estimates of energy savings
+ Design maintenance program to minimize life-cycle costs (schedules, triggers)

- Programs for operations
- Financial optimization
- Documentation for regulators
- Energy & GHG reductions
4. Implementation
+ Inspect, rehabilitate, test
+ Monitor performance
+ Document program performance
+ Review economic analysis & estimates of energy savings
+ Update program (confirm schedules, triggers)
Top-down and bottom-up
+ Start with existing data
+ Focus on higher-risk assets
+ Condition assessment
+ Refine program

TOP-DOWN
System-level
Use existing data
Identify gaps
Prioritize

Focus on assets with higher risk

Refine projections with additional data

Assessment
Assess condition & performance
Detailed info

BOTTOM-UP

Refine Capital Planning and Maintenance Activities

Adapted from NACWA, 2007
Efficiency (specific capacity, gpm/ft)
+ Historical rate of loss of efficiency
+ Estimate recovery based on experience
+ Estimate asset life
+ Basis for life-cycle cost analysis, estimates of energy savings
Life-Cycle Cost
+ Construction (well replacement)
+ Maintenance (inspection, cleaning & rehabilitation)
+ Pumping Energy
+ Compare costs of multiple approaches
Optimize program

+ Maintenance frequency that minimizes life-cycle cost
+ Basis for asset management program
+ Schedules or triggers for inspection & maintenance

![Graph showing 20% lower life-cycle cost with Net Present Value vs. Maintenance Frequency over years between cleaning](image-url)
Unit energy savings

- Document estimates of savings
- Set baselines & targets
- Estimate avoided indirect GHG emissions

Electric power (drawdown) per million gallons

<table>
<thead>
<tr>
<th>Maintenance program</th>
<th>6 yrs</th>
<th>3 yrs</th>
<th>2 yrs</th>
<th>1 yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>kWh·hr per MG</td>
<td>300.00</td>
<td>250.00</td>
<td>200.00</td>
<td>150.00</td>
</tr>
</tbody>
</table>
**Benefits**

- Increased yield and reliability of well supplies
- Optimize OPEX to minimize life-cycle cost
- Extend asset life
- Defend maintenance expenditures to PUC
- Baselines and goals for well pump energy savings, OPEX

**Diagram:**

1. Assess condition
2. Performance and cost
3. Compare and select
4. Establish triggers
5. Implement
6. Monitor and evaluate
+ Reduce maintenance cost
+ Extend the life of an asset
+ Raise profits
Layne began well drilling in 1882. Today, the company continues to grow and innovate. Layne continues to play a central role in the water industry.

GROUNDWATER
Economical groundwater supplies are becoming increasingly difficult to locate and develop. Growing concerns regarding groundwater quality degradation, regulatory limitations and declining production rates demand innovation to achieve desirable results. The ability to understand the issues at hand and select a viable approach to locate and develop a source in a timely and effective manner is essential to success. To reduce the risks and added costs associated with random exploration drilling Layne hydrogeologists use a systematic method for finding appropriate groundwater resources.

DEVELOP
Water supply development requires the integration of engineering and hydrogeological sciences with the art of well drilling. This combination is the basis for Layne’s success in producing long-lasting, efficient water supply systems. Working with proven design principles and site information, we provide clients with well specifications for each project. These include details on every aspect of the system, including test hole drilling, pump selection, well screen gravel packing, grout sealing, well development and pump testing. A detailed and comprehensive specification helps assure each client of a high quality, cost effective water supply.

METHODS
Successful completion of a project also depends on selecting the proper drilling method for the site and well design. With over 1500 drilling and service rigs located coast-to-coast, Layne has the flexibility to assign rigs and support equipment as required. Our drilling capabilities include: air, mud and reverse circulation rotary, auger and hollow stem auger, dual and triple wall reverse circulation, percussion hammer and cable tool, sonic drilling, diamond core drilling.

WATER SYSTEMS EQUIPMENT
From specifying the correct pump to water treatment and distribution equipment, Layne offers clients complete services for equipment sales, installation and maintenance. Critical to any water supply system is a reliable pump – carefully selected and properly installed. Our personnel select the most efficient pump for the job by matching pump specification to the well design and aquifer characteristics. Vertical turbines, submersibles, short coupled and horizontal centrifugal pumps are available in virtually any needed capacity, to meet a variety of applications including:

- Municipal and industrial water wells
- Lake or river intakes
- Irrigation wells
- Booster services
- Fire well service
- Mine dewatering

The total systems approach results in an integrated water supply system. Layne is the only choice for design & construction of reliable well and pump systems.

INFO@LAYNE.COM | For more information, or to speak with an expert please visit us at WWW.LAYNE.COM
© 2013 Layne. All rights reserved.
Layne, a world leader in the diagnosis and rehabilitation of water wells, provides services for the life of your well system. Skilled technicians, specialized tools and equipment, and sophisticated techniques are essential to keeping your water supply system operating as efficiently as possible.

A water system is dynamic. Well rehabilitation is periodically required during the life of a well, as groundwater contains bacteria and minerals that cause well fouling. Screens, gravel pack and formations may become blocked, reducing the capacity, specific capacity and efficiency of the well. Additionally, fouled wells often experience biological issues that can lead to failing periodic bacteria sampling. Layne offers complete diagnostic and rehabilitation services for wells, pumps and related equipment through a network of local offices throughout the United States.

DIAGNOSTIC SERVICE
Layne knows that there is no "one-size-fits-all" well rehabilitation procedure. Each well is unique and each well rehabilitation should be uniquely tailored to the cause of the well's decline in performance. Layne begins by analyzing a water sample for biological and chemical properties that can indicate a likely cause of well fouling. This, coupled with historic well construction, testing and rehabilitation data, allows Layne to begin to formulate a targeted rehabilitation plan to restore the lost production.

DOWNHOLE VIDEO INSPECTION
A diagnosis is not complete until a downhole video inspection has been conducted. Using state-of-the-art video electronics in a mobile van, Layne delivers high-resolution video in full color to depths of 3,000 feet. There is no better way to determine current downhole conditions or monitor changes in a well environment over time. Using a downhole video survey to monitor well casings, sand infiltration, corrosion, incrustation, damaged or fouled well screen and debris at the bottom of the well can save the guess work and save time and cost compared to other methods. In the event that a well's structural integrity has been compromised this process can save time and money by altering all parties of the problem and allowing Layne's engineers to select the rehabilitation process least likely to exacerbate the issue.

WELL REHABILITATION METHODS
Layne has 130 years of experience performing mechanical and chemical well rehabilitations. These procedures are designed to optimize the long-term results of the rehabilitation and to provide for the greatest amount of time possible between rehabilitation efforts. Layne has the ability to tailor a rehabilitation procedure to your specific well needs and site requirements. Many of its rehabilitation methods allow Layne to minimize or completely remove the need for rehabilitation chemicals, improving the post-rehabilitation discharge and minimizing the environmental impact of the rehabilitation efforts.
March 11, 2019

Background:

Layne Christensen is well versed in conducting well rehabilitation to rid wells of mineral scale and biological fouling which reduces the output and efficiency of a well. In restoring a well to its calculated output, Layne’s staff of well rehabilitation specialists will analyze the well’s history and possible sources of lost capacity. We will then select the most appropriate methods of treatment to be used and propose a tailored solution for each well.

Well Rehabilitation

Layne utilizes a comprehensive approach to well rehabilitation using mechanical and chemical methods to reduce plugging in the well casing and gravel filter pack adjacent to the well screen. The most common treatments are:

1. Brushing & Bailing with Chlorine Additive
2. Bore Blast II™ (Percussive pressure waves using nitrogen)
3. Acid Injection & Mechanical Swabbing
4. Airlift Fill and Dissolved Materials
5. Surge & Development
6. Test Pumping
7. Bail Remaining Fill
8. Final Chlorine Disinfection

Water Well Rehabilitation:

All wells are subject to plugging almost from the moment they are drilled and developed. Depending upon factors such as location, use, water quality, formation materials, concentration of minerals in the aquifer, accessibility to oxygen etc., wells will become plugged and lose their pumping capacity over time (expressed as specific capacity in gallons per minute per foot of drawdown).

The three primary plugging mechanisms are as follows:

- Physical (or mechanical) plugging
- Corrosion by-products/bacteriological precipitated minerals
- Biological plugging

Most wells will suffer from a combination of these plugging types.

In order to successfully remove physical plugging, mechanical methods capable of breaking apart the impacted materials must be used; such as Bore Blast II™, brushing & bailing, swabbing and test pump development. In some cases, chemical treatment must be utilized to further breakdown and remove the plugging. Not all physical plugging problems can be 100% rehabilitated. The longer physical plugging is allowed to remain in the well prior to rehabilitation work, the more difficult it is to rehabilitate. The key to successful rehabilitation is early
identification, a review of probable causes and a well-designed course of rehabilitation followed by a steady schedule of preventative maintenance.

Wells most commonly lose their capacity due to plugging. All water wells are drilled, developed and operated in formations and aquifers which have always been and always will be home to bacteria. Studies have shown that bacteria exist in soils and aquifers thousands of feet below the earth’s surface and indeed live and thrive in these environments. Bacteria only need oxygen and food to grow. The food source is typically a naturally occurring minerals in the aquifer such as iron or manganese. Therefore, the more oxygen or food the greater the ability these organisms have to go grow and plug the natural formation, gravel pack and screen perforations. Accompanying these deposits will be bacterial slimes which further impede water flow. Almost all wells that experience plugging due to biological contamination will also have problems with physical plugging and vice-versa.

Most wells, upon video inspection, will show significant evidence of plugging due to bio-fouling and mineral encrustation. Early identification and an understanding of the plugging mechanism is critical in designing an effective well rehabilitation. Well rehabilitation methods utilized to remove plugging can be broken down into two categories, mechanical and chemical. Generally, a bactericide pre-treatment in conjunction with pre-brushing is utilized to strip away slime. Once the slime is removed, other methods will be more effective at removing plugging materials. A tailored approach is needed to ensure the plugging material is removed. Often mechanical methods (Bore Blast ™, brushing & bailing, swabbing and test pump development) are used to break apart the plugging material. Additionally, chemical treatments may be employed to dissolve scale caused by the naturally occurring minerals in the formation and aquifer.

During the chemical treatment portion of well rehabilitation, Layne uses an appropriate acid mixture distributed evenly throughout the perforated zones. The perforated zones are then agitated with a dual-swab tool.

Once the plugging materials have been broken down and dissolved it is imperative that they be removed from the well. Dual-swab airlifting is a very effective method to remove plugging materials and redevelop the well. In many instances, wells that have been rehabilitated using chemicals often experience high levels of iron and manganese in the discharge water. In order to mitigate the impact of the iron and manganese, long-term developmental pumping with a deep set engineered suction may be required.

Following the dual-swab airlifting portion of the treatment process, the well should be developed with a test pump, designed to pump at least 50% more flow than produced by the production pump. The test pump development will ensure that as much plugging material as possible has been removed from the well and generates data for a proper design on a new production pump.

The test pump development phase generally begins with pumping and surging. This is followed by a step test to find the specific capacity of the well. After that, a continuous rate test is performed to confirm the new specific capacity.

During the airlifting and test pumping portions, the pH is monitored continuously from sample ports. The pH is controlled by a soda ash and water mix introduced via a chemical trailer. The pH requirements for discharge

---

1 B.A.R.T.S. testing, analysis of water quality reports, determining corrosiveness or causticity of fluids in the well, review of past efficiency-test reports

WATER RESOURCES

6831 Briar Oaks Rd Houston TX 77081 | Office: 713 468-5001 | layne.com
vary according to the NPDES permit however it is normally between 6.5 and 8 before discharging. Other variables that will be continuously monitored throughout the airlifting and test pumping portions are: TDS (Total Dissolved Solids), Electrical Conductivity, Turbidity, TSS (Total Suspended Solids) and Chlorine Residual. Chlorine residuals, if required are controlled with sodium thiosulfate. Solids produced during the rehabilitation are controlled though the use of 21,000 gallon settling tanks. Decanting the water through these settling tanks is usually sufficient to meet most NPDES requirements. We may also use a flocculent such as LiquiFloct™ to reduce solids.

It should be noted that not all wells can be brought back to their original capacity once plugging begins. As stated above, early identification is critical. Properly designed well rehabilitations will almost always result in significant improvement and should provide a clear understanding of the post-treatment preventative maintenance routines required to maintain healthy and productive water wells.

The following are examples of well rehabilitation that Layne completed.

The City of Rockford, needed to rehabilitate 11 of its 15 base wells due to a loss of specific Capacity. For example, the well had lost almost 60% of its capacity. It had a total depth to 1,500 feet, the well’s specific capacity was 17.9 GPM per foot of drawdown. Prior to the rehabilitation, the well’s specific capacity had dropped to 10.1 GPM per foot of drawdown.

Before developing a rehabilitation program, Layne analyzed the historical data. Based upon our analysis, we rehabilitated the well with block shot shooting, Boreblast II, bailing and over pumping.

The specific capacity of this well improved to 19.2 GPM per foot of drawdown at the conclusion of the project. A 300 HP submersible pumping assembly was installed, which is now producing 2,400 GPM.

Arlington Heights, pump efficiency had declined significantly over time. Consequently, Layne removed, inspected, and repaired its 450 HP oil lubricated pumping assembly set to a depth of 1,000 feet. The pumping assembly consisted of 10-inch column pipe, 3 ½-inch oil tubing, and 2 3/15-inch lineshaft, and the bowl assembly was rated for 1,400 GPM.

A downhole video survey of the well was conducted after the pumping assembly was removed and a formation liner was found to be in poor condition, which resulted in an obstruction in the well. Layne subsequently mobilized a 36L Bucyrus Erie cable tool rig. The rig was used to clear the obstruction in the well, install a new wall liner from 892 feet to 1,046 feet, and clean out the well to its original total depth of 1,795 feet. The repairs to the pumping assembly were completed in Layne’s machine shop during the well reconstruction work, which resulted in less down time for the utility.
PROJECT ORGANIZATION CHART

Area Manager
Tim Oman

Account Manager
Paul McAlpine

Project Manager
Wes Van Allen

Assistant Project Manager
Taylor Combs

Operations Manager
Jeremy Rice

Pump Installer
Michael Gilchrist
Tim Oman

TITLE: General Manager

PROFESSIONAL/ACADEMIC CERTIFICATIONS:

Goulds/ITT Design & Application
Baroid IDP Drilling Mud School
Brithinee Electric Motor School
California Polytechnic State University, San Luis Obispo – B.S. Industrial Technology

Relevant Project Experience:

**Tucson Water: Job Order Contract**
General Manager – The Tucson Water JOC involves water well drilling, development, and aquifer testing.

**City of Glendale, AZ: Glendale, AZ Maintenance Contract**
General Manager – For years Layne has served as an on call service provider for the City of Glendale. Work under this contract typically involves servicing deep well vertical turbine and booster pumps, and well rehabilitation and testing.

**City of Scottsdale, AZ: Scottsdale, AZ Maintenance Contract**
General Manager – For years Layne has served as an on call service provider for the City of Scottsdale. Work under this contract typically involves servicing deep well vertical turbine and booster pumps, and well rehabilitation and testing.

**Salt River Project: Multi Well Water Well Drilling Project**
General Manager – SRP has contracted Layne for decades as a water well contractor to support their Groundwater Department all over the metro Phoenix area. Typical work includes water well drilling, development and aquifer testing.

Summary of Qualifications:

Mr. Oman has been in the water well industry since 2008, specializing in water well rehabilitation, pump engineering, and various drilling operations. Mr. Oman manages the Chandler, AZ, Aurora, CO, and Houston, TX operations for pump repair, well rehabilitation, and water well and specialty drilling services.
Paul McAlpine

TITLE: Account Manager

PROFESSIONAL/ACADEMIC CERTIFICATIONS:

Pentair Pump School
Northern Arizona University, Bachelor of Science Environmental Science Geology Emphasis

Relevant Project Experience:

Gila River Indian Community
Account Manager – Installation, testing and pump installation well drilling, development, and aquifer testing of production wells.

Salt River Project: Multi Well Water Well Drilling Project
Corporate Purchasing/Supply / Account Manager – SRP has contracted Layne for decades as a water well contractor to support their Groundwater Department all over the metro Phoenix area. Typical work includes water well drilling, development and aquifer testing.

Summary of Qualifications:

Mr. McAlpine has been in the water well and environmental industry since 2004, specializing in environmental projects. Mr. McAlpine is the account manager the Chandler, AZ operations for pump repair, well rehabilitation, and water well and specialty drilling services.
WES VAN ALLEN

TITLE: PROJECT MANAGER

PROFESSIONAL/ACADEMIC CERTIFICATIONS
MSHA Trained and Certified
CPR Trained and Certified
First Aid Trained and Certified
Medically Certified for Respirator Use
Experienced in Personal Safety Assurance & Protective Clothing Use
Gould's Pump School
Crane Operator Certified
  29 CFR 1910.146-Confined Space Entry
  29 CFR 1910.1030-Bloodborne Pathogens
  29 CFR 1910.134-Qualitative Fit Test
  29 CFR 1926.100(a)-Backhoe Safety Training
  29 CFR 1910.178-Forklift Safety Training
  29 CFR 1926.550-Crane Safety Training

EQUIPMENT EXPERIENCE
Pump Service and Well Rehabilitation
All Pump Service Rigs & Cranes
Welding
Pumping System Diagnostics
Electrical Skills

Wes Van Allen has devoted the last 23 years to the drilling industry working within Layne’s “R&I” Department. Mr. Van Allen has worked as a project manager for the last year. Prior to the role of a Project Manager he worked as the R&I Shop Foreman focusing his efforts on pumping equipment maintenance and repair, well rehabilitation, well development and testing and various other duties. Working as the Pump Shop Foreman he supervised and operated in our facility’s machine shop servicing vertical turbine pumps as well as other Layne equipment. When needed, Mr. Van Allen will go to job sites to trouble shoot and diagnose pumping systems issues. Mr. Van Allen has run all types of pump pull rigs, cranes, and has also worked as a Video Technician utilizing our video logging van.
Taylor Combs

TITLE:  Assistant Project Manager

PROFESSIONAL/Academic Certifications:

Bachelor Science – Business Administration
Associates Degree – General Studies
Water Certifications: Distribution Level D, Water Collection D, and Water Treatment 1

Specializations:

Direct workflow for maintenance and construction of over 40 deep water well sites, booster pumps, and water well drilling projects a year over the past decade. Mechanical and electrical designer for pumps, motors, valves and related wells instrumentation in a variety of applications. Evaluate in excess of 450 pump tests annually to ensure longevity and efficiency while reducing failures in the field. Troubleshooting and repair of raw, potable and wastewater distribution systems with an emphasis on safety and efficiency. Experience working with a broad range of customers including: cities, municipalities, mines, hydrogenation, power plants, and domestic owners. Safety is a top priority with 20 years of accident free employment and serving as co-chairman of multiple safety committees which contributed to completing two years of accident free work for over 40 employees.

Professional Organizations and Training:

National Ground Water Association
American Water Works Association
Colorado Rural Water Association
Water and Wastewater Professionals
CPR / First Aid / First Responder
SMITH Driving

Mr. Combs is a municipal water professional with 16 years' experience in the utilities industry, specializing in mechanical design. Demonstrated knowledge of construction, maintenance, planning, scheduling, troubleshooting, and testing of water systems with an emphasis on safety. Exceptional work ethic, committed to guiding and managing projects through to successful and timely completion.
JEREMY RICE

TITLE: R&I SUPERVISOR

PROFESSIONAL/ACADEMIC CERTIFICATIONS
MSHA Trained and Certified
CPR Trained and Certified
First Aid Trained and Certified
Medically Certified for Respirator Use
GE Pump School
Crane Operator Certified
Electrical Journeyman Certification from State of Arizona

29 CFR 1910.146-Confined Space Entry
29 CFR 1910.1030-Bloodborne Pathogens
29 CFR 1910.134-Qualitative Fit Test
29 CFR 1910.178-Forklift Safety Training
29 CFR 1926.550-Crane Safety Training

EQUIPMENT EXPERIENCE
Pump Service and Well Rehabilitation
Pump Service Rigs & Cranes
Electrical Skills

Jeremy Rice has devoted the last 5 years to the drilling industry working within Layne's "R&I" Department focusing his efforts on pumping equipment maintenance and repair, well rehabilitation, well development and testing and various other duties. Mr. Rice is the Chandler, AZ R&I supervisor where he supervises and coordinates the pump crews. When needed, Mr. Rice will go to jobsites to trouble shoot and diagnose pumping systems issues. Mr. Rice has run all multiple types of pump pull rigs, cranes, and has also worked as a Video Technician utilizing our video logging van.
MICHAEL GILCHRIST

TITLE: PUMP INSTALLER

PROFESSIONAL/ACADEMIC CERTIFICATIONS
MSHA Trained and Certified
CPR Trained and Certified
First Aid Trained and Certified
Medically Certified for Respirator Use
Class B Commercial Drivers License

29 CFR 1910.146-Confinned Space Entry
29 CFR 1910.1030-Bloodborne Pathogens
29 CFR 1910.134-Qualitative Fit Test
29 CFR 1910.178-Forklift Safety Training
29 CFR 1926.550-Crane Safety Training

EQUIPMENT EXPERIENCE
Pump Service and Well Rehabilitation
Pump Service Rigs & Cranes

Michael Gilchrist has devoted the last 5 years to the drilling industry working within Layne's "R&I" Department focusing his efforts on pumping equipment maintenance and repair, well rehabilitation, well development and testing and various other duties. Mr. Gilchrist is a pump installer servicing vertical turbine pumps as well as other Layne equipment. Mr. Gilchrist has run multiple types of pump pull rigs, cranes, and has also worked as a helper.
<table>
<thead>
<tr>
<th>COMPANY NAME:</th>
<th>Lane Christensen</th>
</tr>
</thead>
</table>

If any Bidder intends to subcontract any portion of this contract, the Bidder must submit the name, address, license number (if applicable) of each subcontractor including the extent of such subcontracting and include with bid submittal documents. (Bidder may supply additional pages as needed to identify all subcontractors).

<table>
<thead>
<tr>
<th>NAME:</th>
<th>Longmore Well Service Inc</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADDRESS:</td>
<td>2841 Medcalf Avenue, Willcox, AZ 85643</td>
</tr>
<tr>
<td>CONTACT PERSON/TELEPHONE#:</td>
<td>Mike Longmore</td>
</tr>
<tr>
<td>EMAIL ADDRESS:</td>
<td>[ ]</td>
</tr>
<tr>
<td>EXTENT OF WORK:</td>
<td>Well patching</td>
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<tr>
<th>NAME:</th>
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<tr>
<td>EMAIL ADDRESS:</td>
<td></td>
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<tr>
<td>EXTENT OF WORK:</td>
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<tr>
<td>EMAIL ADDRESS:</td>
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<tr>
<td>EXTENT OF WORK:</td>
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<td>EMAIL ADDRESS:</td>
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<tr>
<td>EXTENT OF WORK:</td>
<td></td>
</tr>
<tr>
<td>REFERENCES</td>
<td></td>
</tr>
<tr>
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<td></td>
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</tbody>
</table>

**WATER WELLS AND PUMP MAINTENANCE AND REPAIR SERVICES**

**RFP #19RP028**

List minimum of three (3) Arizona customers, excluding the City of Scottsdale, for whom your company has provided service(s) of a similar scope as this Request for Proposal, during the past three years. Include the length of any contracts listed. Offerors may make multiple copies of this document as needed.

The following questions are asked to enable the evaluation team to assess the qualifications of Offerors under consideration for final award. This information may or may not be a determining factor in award of this solicitation.

<table>
<thead>
<tr>
<th>Company Name:</th>
<th>City of Glendale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Address:</td>
<td>7070 W. Northern Avenue, Glendale, AZ 85305</td>
</tr>
<tr>
<td>City/State/Zip:</td>
<td>Glendale, AZ 85303</td>
</tr>
<tr>
<td>Contact Person:</td>
<td>Drew Swierzkowski</td>
</tr>
<tr>
<td>Telephone #:</td>
<td>623 930 4118</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:dswierzkowski@glendale.az.gov">dswierzkowski@glendale.az.gov</a></td>
</tr>
<tr>
<td>Date of Service:</td>
<td>January 2019</td>
</tr>
<tr>
<td>Type of Service Provided:</td>
<td>Water well and pump station repair services to include pump repair, replacement and well rehabilitation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Company Name:</th>
<th>City of Chandler</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Address:</td>
<td>175 S Arizona Avenue</td>
</tr>
<tr>
<td>City/State/Zip:</td>
<td>Chandler, AZ 85226</td>
</tr>
<tr>
<td>Contact Person:</td>
<td>Michael Mandt</td>
</tr>
<tr>
<td>Telephone #:</td>
<td>480 782 8406</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:Michael.Mandt@CityofChandler.az.gov">Michael.Mandt@CityofChandler.az.gov</a></td>
</tr>
<tr>
<td>Date of Service:</td>
<td>2017 to Current</td>
</tr>
<tr>
<td>Type of Service Provided:</td>
<td>Water and waste water equipment maintenance</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Company Name:</th>
<th>Freeport McMoRan, Serrita</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Address:</td>
<td>8200 W. Dewall Mine Road</td>
</tr>
<tr>
<td>City/State/Zip:</td>
<td>Green Valley, AZ 85614</td>
</tr>
<tr>
<td>Contact Person:</td>
<td>Mike Fuller</td>
</tr>
<tr>
<td>Telephone #:</td>
<td>520 235 7845</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:mfuller@fmi.com">mfuller@fmi.com</a></td>
</tr>
<tr>
<td>Date of Service:</td>
<td>March/April 2019</td>
</tr>
<tr>
<td>Type of Service Provided:</td>
<td>Pulled turbine pump and repair</td>
</tr>
</tbody>
</table>

**YOUR COMPANY NAME: | Layne Christianson**
**EQUIPMENT / VEHICLES / TRUCKS:**

**VEHICLES:** List and describe all Vehicles/Trucks to be utilized under the performance of this contract. Please provide all of the information requested in the column headings below.

The contractor shall have a **minimum** the following equipment at the time of bid submittal.

<table>
<thead>
<tr>
<th>VEHICLE DESCRIPTION</th>
<th>YEAR</th>
<th>MAKE</th>
<th>MODEL</th>
<th>LIC PLATE #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) One (1) truck mounted crane (lift 800 HP) (per Section A.2)</td>
<td>1999</td>
<td>Terex</td>
<td>TC 4792</td>
<td>CJ 00 188</td>
</tr>
<tr>
<td>2) One (1) crane truck with a minimum 90’ boom (per Section A.2)</td>
<td>1999</td>
<td>Terex</td>
<td>TC 4192</td>
<td>CJ 00 788</td>
</tr>
<tr>
<td>3) Three (3) Pump Rigs (per Section A.2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3A) One (1) up to 1200 feet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3B) Two (2) up to 800 feet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3B1.</td>
<td>2007</td>
<td>Smeal</td>
<td>50T</td>
<td>CG 30 527</td>
</tr>
<tr>
<td>3B2.</td>
<td>2009</td>
<td>Permco</td>
<td>50 ton A Form</td>
<td>CG 3 05 36</td>
</tr>
<tr>
<td>4) Three (3) service trucks for transporting materials</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4A1.</td>
<td>2007</td>
<td>KW</td>
<td>T803B</td>
<td>CG 30 531</td>
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<tr>
<td>4B2.</td>
<td>2007</td>
<td>KW</td>
<td>T800</td>
<td>CH 47 702</td>
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<tr>
<td>4B3.</td>
<td>1997</td>
<td>Ford</td>
<td>LTA 9500</td>
<td>CG 30 54 2</td>
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<tr>
<td>5) One (1) service truck for mechanical repairs</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>2000</td>
<td>Ford</td>
<td>F-350</td>
<td>CJ 91385</td>
</tr>
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</table>

**EQUIPMENT:** List and describe all equipment to be utilized on the sites. Please provide all of the information requested in the column headings.

<table>
<thead>
<tr>
<th>DESCRIPTION &amp; MANUFACTURER OF EQUIPMENT</th>
<th>BRAND NAME</th>
<th>MODEL</th>
<th>AGE</th>
<th>OTHER</th>
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</thead>
<tbody>
<tr>
<td>1. Color TV videoing system (see 3.90 for additional description)</td>
<td>Aries</td>
<td>BT9601</td>
<td>New</td>
<td>1 year old</td>
</tr>
</tbody>
</table>

**ADDITIONAL EQUIPMENT LIST:** Provide a separate page(s) with additional listing of Equipment. Vehicles/Trucks that will be utilized in the contract. Include vehicle/equipment (Description, Manufacturer, Brand Name, Model, License Plate, Year/Age, Make, and Model).
<table>
<thead>
<tr>
<th>Vehicle Description</th>
<th>Year</th>
<th>Make</th>
<th>Model</th>
<th>Lic Plate #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crew Truck</td>
<td>2016</td>
<td>Dodge</td>
<td>2500</td>
<td>CA72485Z1</td>
</tr>
<tr>
<td>Crew Truck</td>
<td>2016</td>
<td>Dodge</td>
<td>2500</td>
<td>CA 72488Z1</td>
</tr>
<tr>
<td>8T Smeal</td>
<td>1989</td>
<td>Smeal</td>
<td>8T</td>
<td>CB83789</td>
</tr>
<tr>
<td>Semi</td>
<td></td>
<td>Peterbilt</td>
<td>Peterbilt</td>
<td>379</td>
</tr>
</tbody>
</table>
STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES

Let it be known to all that, pursuant to A.R.S. § 45-595,

LAYNE CHRISTENSEN COMPANY
is hereby issued Arizona Well Driller's License Number 7
The requirements for this certificate have been met by:

SCOTT GRAHAM
who may act as the company's qualifying party in the following drilling
categories:

AIR ROTARY
MUD ROTARY
REVERSE CIRCULATION
AUGERING AND MONITORING

ADDITIONAL TRADE EXAMINATIONS PASSED INCLUDE: NONE

LICENSE ISSUED JUNE 8, 2018 LICENSE EXPIRES JUNE 30, 2019

MICHAEL L. BALL
COMPLIANCE ENFORCEMENT OFFICER
WATER PLANNING & PERMITTING DIVISION
IMPORTANT NOTICE
YOU MUST:

1.) REPORT DISASSOCIATION OF QUALIFYING PARTY IN WRITING WITHIN 15 DAYS. [SEE A.R.S. § 32-1154(A)(18)]
2.) REPORT A CHANGE OF ADDRESS IN WRITING WITHIN 30 DAYS. [SEE A.R.S. § 32-1122(B)(1)]
3.) REPORT ANY TRANSFER OF OWNERSHIP OF 50% OR MORE IMMEDIATELY [SEE A.R.S. § 32-1151.01]
4.) REPORT ANY CHANGE IN LEGAL ENTITY, SUCH AS ANY CHANGE OF THE OWNERSHIP IN A SOLE PROPRIETORSHIP OR CHANGE OF A PARTNER IN A PARTNERSHIP OR THE CREATION OF A NEW CORPORATE ENTITY. [SEE A.R.S. § 32-1124(B)(F) § RULE R-4-9-110]

Layne Christensen Company
12030 E Riggs Rd
Chandler, AZ 85249-3701

IMPORTANT NOTICE
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2.) REPORT A CHANGE OF ADDRESS IN WRITING WITHIN 30 DAYS. [SEE A.R.S. § 32-1122(B)(1)]
3.) REPORT ANY TRANSFER OF OWNERSHIP OF 50% OR MORE IMMEDIATELY [SEE A.R.S. § 32-1151.01]
4.) REPORT ANY CHANGE IN LEGAL ENTITY, SUCH AS ANY CHANGE OF THE OWNERSHIP IN A SOLE PROPRIETORSHIP OR CHANGE OF A PARTNER IN A PARTNERSHIP OR THE CREATION OF A NEW CORPORATE ENTITY. [SEE A.R.S. § 32-1124(B)(F) § RULE R-4-9-110]

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2.) REPORT A CHANGE OF ADDRESS IN WRITING WITHIN 30 DAYS. [SEE A.R.S. § 32-1122(B)(1)]
3.) REPORT ANY TRANSFER OF OWNERSHIP OF 50% OR MORE IMMEDIATELY [SEE A.R.S. § 32-1151.01]
4.) REPORT ANY CHANGE IN LEGAL ENTITY, SUCH AS ANY CHANGE OF THE OWNERSHIP IN A SOLE PROPRIETORSHIP OR CHANGE OF A PARTNER IN A PARTNERSHIP OR THE CREATION OF A NEW CORPORATE ENTITY. [SEE A.R.S. § 32-1124(B)(F) § RULE R-4-9-110]

Layne Christensen Company
12030 E Riggs Rd
Chandler, AZ 85249-3701
1. REPORT DISASSOCIATION OF QUALIFYING PARTY IN WRITING WITHIN 15 DAYS. [SEE A.R.S. § 32-1154(A)(18)]
2. REPORT A CHANGE OF ADDRESS IN WRITING WITHIN 30 DAYS. [SEE A.R.S. § 32-1122(B)(1)]
3. REPORT ANY TRANSFER OF OWNERSHIP OF 50% OR MORE IMMEDIATELY [SEE A.R.S. § 32-1151.01]
4. REPORT ANY CHANGE IN LEGAL ENTITY, SUCH AS ANY CHANGE OF THE OWNERSHIP IN A SOLE PROPRIETORSHIP OR CHANGE OF A PARTNER IN A PARTNERSHIP OR THE CREATION OF A NEW CORPORATE ENTITY. [SEE A.R.S. § 32-1124(B)(F) § RULE R-4-9-110]

Layne Christensen Company
12030 E Riggs Rd
Chandler, AZ 85249-3701

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4. REPORT ANY CHANGE IN LEGAL ENTITY, SUCH AS ANY CHANGE OF THE OWNERSHIP IN A SOLE PROPRIETORSHIP OR CHANGE OF A PARTNER IN A PARTNERSHIP OR THE CREATION OF A NEW CORPORATE ENTITY. [SEE A.R.S. § 32-1124(B)(F) § RULE R-4-9-110]

Layne Christensen Company
12030 E Riggs Rd
Chandler, AZ 85249-3701

THIS IS YOUR IDENTIFICATION CARD
DO NOT DESTROY

LICENSE EFFECTIVE THROUGH: 08/30/2019
STATE OF ARIZONA
Registrar of Contractors CERTIFIES THAT
Layne Christensen Company

CONTRACTORS LICENSE NO. 71734 CLASS A-4
Drilling

THIS CARD MUST BE PRESENTED UPON DEMAND

JEFF FLEETHAM, DIRECTOR

THIS IS YOUR IDENTIFICATION CARD
DO NOT DESTROY

LICENSE EFFECTIVE THROUGH: 08/30/2019
STATE OF ARIZONA
Registrar of Contractors CERTIFIES THAT
Layne Christensen Company

CONTRACTORS LICENSE NO. 71734 CLASS A-4
Drilling

THIS CARD MUST BE PRESENTED UPON DEMAND

JEFF FLEETHAM, DIRECTOR

THIS IS YOUR IDENTIFICATION CARD
DO NOT DESTROY

LICENSE EFFECTIVE THROUGH: 08/30/2019
STATE OF ARIZONA
Registrar of Contractors CERTIFIES THAT
Layne Christensen Company

CONTRACTORS LICENSE NO. 71734 CLASS A-4
Drilling

THIS CARD MUST BE PRESENTED UPON DEMAND

JEFF FLEETHAM, DIRECTOR
OFFER AND ACCEPTANCE
City of Scottsdale
Purchasing Division
9191 E. San Salvador Dr.
Scottsdale, AZ 85258
Phone: 480-312-5700 – Fax: 480-312-5701

SOLICITATION # | 19RP028 | SOLICITATION TITLE: | Water Wells and Pump Maintenance and Repair Services

OFFER

TO THE CITY OF SCOTTSDALE:
The undersigned hereby offers and agrees, in accordance with the undersigned’s written offer submitted in response to this solicitation, to furnish the material and/or service(s) in compliance with all terms, conditions, specifications, scope of work, and addendums in the solicitation listed above, including written exceptions that are subject to the approval of the City prior to acceptance. The undersigned agrees that the entire solicitation listed above is hereby incorporated by reference as if fully set forth herein.

The Offeror’s signature on this Offer form certifies that he has read; understands and will comply with all terms, conditions and specifications stated in all documents constituting the solicitation. The bidder also certifies it is in compliance with the Non-Collusion and all Federal and Arizona State Immigation Laws.

OFFER MADE - COMPANY INFORMATION | FOR CLARIFICATION OF THIS OFFER, CONTACT:

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Printed Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lagni Christensen</td>
<td>Paul Medipine</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Address</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1759 E. Riggs Road</td>
<td>Account Manager</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City</th>
<th>State</th>
<th>Zip</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chandler</td>
<td>AZ</td>
<td>85249</td>
<td>480-875-9404</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fax</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>480-875-8699</td>
<td><a href="mailto:paul.medipine@cityofscottsdale.gov">paul.medipine@cityofscottsdale.gov</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signature for Offeror</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Signature)</td>
<td>3/6/19</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Printed Name and Title of Authorized Signatory</th>
</tr>
</thead>
<tbody>
<tr>
<td>City, State, Zip (if different from Company info)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Federal Employer Tax ID # or SSN as per W9 Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>City, State, Zip (if different from Company info)</td>
</tr>
</tbody>
</table>

ACCEPTANCE OF OFFER, NOTICE OF CONTRACT AWARD
(for City of Scottsdale Use Only)

The Contractor’s offer is hereby accepted by the City of Scottsdale. The Contractor is now bound to sell the materials and/or service(s) and perform based upon the above solicitation, including all terms, conditions, specifications, scope of work, and addendums contained in the solicitation, as well as any written exceptions that have been separately accepted by the City.

This contract shall henceforth be referred to as Contract #19RP028.

The contract consists of the following documents: 1) Solicitation #19RP028 and all addendums (if applicable) as issued by the City; 2) The Contractor’s response to the City’s solicitation; 3) This signed offer and acceptance and any other applicable contractual agreements; 4) All written exceptions and/or modifications to the solicitation requirements as agreed to by the City and the Contractor as per attachment dated .

The Contractor is hereby cautioned not to commence any billable work or provide any material or service under this contract until the Contractor receives a purchase order document from the City.

The Contractor must provide the following checked items within ten (10) calendar days from the date of this Acceptance of Offer, Notice of Contract Award in order for the City to issue the required Purchase Order: ☐ Payment Bond ☐ Performance Bond, ☐ Insurance Certificate(s), ☐ I.R.S. Form W-9/Taxpayer ID No. & Certification, ☐ other documentation as identified. If the Contractor fails to furnish the required documents within the stated ten (10) calendar days, they may be considered in default and may be at risk of forfeiture of any applicable Bid Bond posted. All required documents are to be sent to the Bid & Contract Specialist listed in the solicitation.

This document has been approved as to form on the 22nd day of July, 2012 by the City Attorney and is on file with the City Clerk. It need not be submitted to the City Attorney for approval unless the form document is altered.

City of Scottsdale, a municipal corporation
Offer Accepted and Awarded this ________ day of ________, 201__

Risk Management issues reviewed and approved as to form ________ 201__
by City of Scottsdale Risk Management Director

Recommended award approved ________, 201__
by City of Scottsdale Contract Administrator

Robert Schoepe, CPPO
Or Designee
As City of Scottsdale Purchasing Director

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COS RFP Template
The Unit Prices listed on the pricing proposal forms for Tables 1 through 4, shall be inclusive and include all pertinent additional fees normally associated with this type of service. This shall include at minimum, but not limited to labor, materials, equipment, clean-up, transportation, environmental fees, etc. No additional charges beyond the quoted unit price (except applicable sales tax) shall be allowed, unless authorized by the Contract Administrator before final invoicing.

NOTICE: Offeror’s are strongly encouraged to read and understand the Consumer Price Index (CPI) Section. Renewals with allowable price increases will strictly be based on the CPI percentage (%) rate for each applicable renewal.

### PRICING SUMMARY (Tables 1 – 4):

<table>
<thead>
<tr>
<th>TABLE</th>
<th>DESCRIPTION</th>
<th>TOTAL BID COST EXCLUDING TAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (A-H)</td>
<td>Transportation &amp; Service Charges</td>
<td>$556,775</td>
</tr>
<tr>
<td>2 (A-G)</td>
<td>Personnel Rates</td>
<td>$855,180</td>
</tr>
<tr>
<td>3 (A-F)</td>
<td>Pump Rig Services</td>
<td>$1,515,740</td>
</tr>
<tr>
<td>4 (A-F)</td>
<td>Well Maintenance Activities</td>
<td>$392,620</td>
</tr>
<tr>
<td></td>
<td><strong>GRAND TOTAL:</strong></td>
<td>$3,320,515</td>
</tr>
</tbody>
</table>

**TAXES**

1. Do not include any use, or federal excise tax in your bid. The City is exempt from the payment of federal excise tax and will add use tax as applicable.

### ADDENDA

The Bidder hereby acknowledges that his bid/proposal pricing is based on all of the addenda that were issued by the City prior to the opening of this bid/proposal.

NO BID: If no bid please state reason:

______________________________

COMPANY NAME: Layne Christensen
## TABLE 1 - TRANSPORTATION & SERVICE CHARGES (Includes Operators/Crew)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PUMP WORK</th>
<th>ANNUAL ESTIMATED HOURS</th>
<th>UNIT PRICE/HOUR</th>
<th>EXTENDED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>Boom truck with one operator (to/from site)</td>
<td>400</td>
<td>$220</td>
<td>$88,000</td>
</tr>
<tr>
<td>B.</td>
<td>Semi-Tractor and flatbed trailer with driver</td>
<td>200</td>
<td>$205</td>
<td>$41,000</td>
</tr>
<tr>
<td>C.</td>
<td>Rig, Boom truck and Crew (to/from site) or (to/from shop)</td>
<td>150</td>
<td>$260</td>
<td>$3,900</td>
</tr>
<tr>
<td>D.</td>
<td>Crew Only (to/from site with rig in-place)</td>
<td>75</td>
<td>$195</td>
<td>$14,625</td>
</tr>
<tr>
<td>E.</td>
<td>Parts and Materials to/from site on flatbed/pickup truck</td>
<td>400</td>
<td>$136</td>
<td>$54,400</td>
</tr>
<tr>
<td>F.</td>
<td>Vibration Analysis</td>
<td>75</td>
<td>$150</td>
<td>$11,250</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PUMP WORK</th>
<th>ANNUAL ESTIMATE</th>
<th>UNIT PRICE/HOUR</th>
<th>EXTENDED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>G.</td>
<td>Well video, to/from site, includes written report of well video and one copy of the DVD or USB drive of well video</td>
<td>300</td>
<td>$945</td>
<td>$283,500</td>
</tr>
<tr>
<td>H.</td>
<td>Pump Efficiency Test</td>
<td>40</td>
<td>$253</td>
<td>$2,500</td>
</tr>
</tbody>
</table>

**TABLE 1 TOTAL (PUMP WORK A – H):** $536,775
<table>
<thead>
<tr>
<th>Item</th>
<th>JOB TITLES</th>
<th>TYPE</th>
<th>ESTIMATED ANNUAL HOURS</th>
<th>UNIT PRICE HOURLY RATE</th>
<th>EXTENDED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1.</td>
<td>Lead Field Labor</td>
<td>Regular</td>
<td>700</td>
<td>$136</td>
<td>$95,200</td>
</tr>
<tr>
<td>A2.</td>
<td>Lead Field Labor</td>
<td>Weekend, Holiday and After Hours</td>
<td>100</td>
<td>$24</td>
<td>$20,400</td>
</tr>
<tr>
<td>B1.</td>
<td>Field Labor</td>
<td>Regular</td>
<td>700</td>
<td>$136</td>
<td>$95,200</td>
</tr>
<tr>
<td>B2.</td>
<td>Field Labor</td>
<td>Weekend, Holiday and After Hours</td>
<td>100</td>
<td>$24</td>
<td>$20,400</td>
</tr>
<tr>
<td>C1.</td>
<td>Shop Labor</td>
<td>Regular</td>
<td>1,000</td>
<td>$95</td>
<td>$95,000</td>
</tr>
<tr>
<td>C2.</td>
<td>Shop Labor</td>
<td>Weekend, Holiday and After Hours</td>
<td>2,000</td>
<td>$140</td>
<td>$280,000</td>
</tr>
<tr>
<td>D1.</td>
<td>Machine Shop/ Welding Labor</td>
<td>Regular</td>
<td>700</td>
<td>$95</td>
<td>$66,500</td>
</tr>
<tr>
<td>D2.</td>
<td>Machine Shop/ Welding Labor</td>
<td>Weekend, Holiday and After Hours</td>
<td>100</td>
<td>$140</td>
<td>$14,000</td>
</tr>
<tr>
<td>E1.</td>
<td>Electrician</td>
<td>Regular</td>
<td>200</td>
<td>$136</td>
<td>$27,200</td>
</tr>
<tr>
<td>E2.</td>
<td>Electrician</td>
<td>Weekend, Holiday and After Hours</td>
<td>20</td>
<td>$204</td>
<td>$4,080</td>
</tr>
<tr>
<td>F1.</td>
<td>Mechanic</td>
<td>Regular</td>
<td>100</td>
<td>$113</td>
<td>$11,300</td>
</tr>
<tr>
<td>F2.</td>
<td>Mechanic</td>
<td>Weekend, Holiday and After Hours</td>
<td>25</td>
<td>$140</td>
<td>$3,500</td>
</tr>
<tr>
<td>G1.</td>
<td>Supervisor</td>
<td>Regular</td>
<td>600</td>
<td>$136</td>
<td>$81,600</td>
</tr>
<tr>
<td>G2.</td>
<td>Supervisor</td>
<td>Weekend, Holiday and After Hours</td>
<td>200 Hours</td>
<td>$204</td>
<td>$40,800</td>
</tr>
</tbody>
</table>

**TABLE 2 TOTAL (PERSONNEL RATES A – G)** $855,180
Price must be inclusive of all costs, including but not limited to, direct and indirect costs for labor, overhead, materials, tools, equipment, travel, mobilization, demobilization.

**TABLE 3 – PUMP RIG SERVICES (removing / re-installing well, with a three-man crew)**

<table>
<thead>
<tr>
<th>Item</th>
<th>DESCRIPTION</th>
<th>TYPE</th>
<th>ESTIMATED ANNUAL HOURS</th>
<th>UNIT PRICE HOURLY RATE</th>
<th>EXTENDED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1.</td>
<td>Pump Rig (5-12 ton)</td>
<td>Regular On-Site</td>
<td>100</td>
<td>$260</td>
<td>$26,000</td>
</tr>
<tr>
<td>A2.</td>
<td>Pump Rig (5-12 ton)</td>
<td>Weekend, Holiday and After Hours On-Site</td>
<td>100</td>
<td>$350</td>
<td>$35,000</td>
</tr>
<tr>
<td>B1.</td>
<td>Pump Rig (13-29 ton)</td>
<td>Regular On-Site</td>
<td>700</td>
<td>$260</td>
<td>$182,000</td>
</tr>
<tr>
<td>B2.</td>
<td>Pump Rig (13-29 ton)</td>
<td>Weekend, Holiday and After Hours On-Site</td>
<td>100</td>
<td>$350</td>
<td>$35,000</td>
</tr>
<tr>
<td>C1.</td>
<td>Pump Rig (30-49 ton)</td>
<td>Regular On-Site</td>
<td>1,000</td>
<td>$260</td>
<td>$260,000</td>
</tr>
<tr>
<td>C2.</td>
<td>Pump Rig (30-49 ton)</td>
<td>Weekend, Holiday and After Hours On-Site</td>
<td>2,000</td>
<td>$350</td>
<td>$700,000</td>
</tr>
<tr>
<td>D1.</td>
<td>Pump Rig (50 ton &amp; larger)</td>
<td>Regular On-Site</td>
<td>700</td>
<td>$325</td>
<td>$227,500</td>
</tr>
<tr>
<td>D2.</td>
<td>Pump Rig (50 ton &amp; larger)</td>
<td>Weekend, Holiday and After Hours On-Site</td>
<td>100</td>
<td>$450</td>
<td>$45,000</td>
</tr>
<tr>
<td>E.</td>
<td>Backhoe</td>
<td></td>
<td>40</td>
<td>$136</td>
<td>$5,440</td>
</tr>
<tr>
<td>F.</td>
<td>Skip Loader</td>
<td></td>
<td>40</td>
<td>$N/A</td>
<td>$N/A</td>
</tr>
</tbody>
</table>

**TABLE 3 TOTAL (PUMP RIG SERVICES A – F)** $1,515,940

**COMPANY NAME:** Layne Christensen
WATER WELLS AND PUMP MAINTENANCE AND REPAIR SERVICES
RFP #19RP028

Price must be inclusive of all costs, including but not limited to, direct and indirect costs for labor, overhead, materials, tools, equipment, travel, mobilization, demobilization:

**TABLE 4 – WELL MAINTENANCE ACTIVITIES**

<table>
<thead>
<tr>
<th>Item</th>
<th>DESCRIPTION</th>
<th>TYPE</th>
<th>ESTIMATED ANNUAL HOURS</th>
<th>UNIT PRICE HOURLY RATE</th>
<th>EXTENDED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>Well Rig Services</td>
<td>Regular On-Site</td>
<td>12</td>
<td>$ 260</td>
<td>$ 3,120</td>
</tr>
<tr>
<td>B.</td>
<td>Well Rig Services</td>
<td>Weekend, Holiday and After Hours On-Site</td>
<td>10</td>
<td>$ 350</td>
<td>$ 3,500</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>DESCRIPTION</th>
<th>ESTIMATED ANNUAL UNITS</th>
<th>UNIT PRICE PER FOOT</th>
<th>EXTENDED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.</td>
<td>Sonar Jet</td>
<td>4</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>DESCRIPTION</th>
<th>ESTIMATED ANNUAL QTY</th>
<th>UNIT PRICE EACH</th>
<th>EXTENDED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.</td>
<td>Abandonment of well with 12&quot; casing</td>
<td>2</td>
<td>$ 28,000</td>
<td>$ 56,000</td>
</tr>
<tr>
<td>E.</td>
<td>Abandonment of well with 24&quot; casing</td>
<td>2</td>
<td>$ 60,000</td>
<td>$ 120,000</td>
</tr>
<tr>
<td>F.</td>
<td>Abandonment of well with anything over 24&quot; casing</td>
<td>2</td>
<td>$ 105,000</td>
<td>$ 210,000</td>
</tr>
</tbody>
</table>

**TABLE 4 TOTAL (WELL MAINTENANCE ACTIVITIES A – F)**: $ 372,020

Indicate the time of the day, and the days of the week that will constitute overtime pay charges. (Weekend, Holiday, and After Hours)

**COMPANY NAME:** Layne Christensen
TABLE 5 – MATERIALS & OUTSIDE SERVICE RATES (Mark-Up Costs)

The City of Scottsdale will reimburse the “Total Mark-Up % Rate” indicated below, for all Materials and Outside Services throughout the term of the contract.

- Parts to be fabricated by contractor shall be quoted before use in repairs for City of Scottsdale.
- No markups will be paid on delivery charges for parts shipped to Contractor or for unauthorized outside labor.
- Contractor shall provide evidence of purchased price for all repair parts to be marked up.
- Contractor shall provide a firm quote for all purchased repair parts and receive a written confirmation from the City before ordering.

EXAMPLE: If a bearing is invoiced to your company at $10.00 and your total mark-up percentage rate was 1.15%, your billing to the City would be $11.50. FORMULA: ($10 x 1.15% = $11.50).

<table>
<thead>
<tr>
<th>MATERIALS</th>
<th>Mark Up Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Materials will be billed at your invoice cost multiplied by your mark-up % indicated in this bid. Indicate your mark-up percentage for materials.</td>
<td>2.5%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OUTSIDE SERVICES</th>
<th>Mark Up Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Outside services include subcontracted work and motor repairs, to will be billed at your invoice cost multiplied by your mark-up % indicated in this bid. Indicate your mark-up percentage for outside services.</td>
<td>2.5%</td>
</tr>
</tbody>
</table>

COMPANY NAME: [Signature]

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COS RFP Template
BIDDER GENERAL DISCLOSURE FORM

WATER WELLS AND PUMP MAINTENANCE AND REPAIR SERVICES
RFP #19RP028

Bidder shall respond to each of the questions below by checking the appropriate box and provide supplemental information as needed. Failure to fully and truthfully disclose the information required by this disclosure form may result in the disqualification of your submittal from consideration or termination of the contract, once awarded.

Debarment / Suspension Information – Has the Respondent or any of its principals been debarred or suspended from contracting with any public entity?

☐ YES    ☑ NO

If "YES", in an attachment to this form identify the public entity and the name and current phone number of a representative of the public entity familiar with the debarment or suspension and state the reason for or circumstances surrounding the debarment or suspension, including but not limited to the period of time for such debarment or suspension.

Surety Information – Has the Respondent or any of its principals ever had a bond or surety cancelled or forfeited?

☐ YES    ☑ NO

If "YES", in an attachment to this form identify the name of the bonding company, date, amount of bond and reason for such cancellation or forfeiture.

Bankruptcy Information – Has the Respondent or any of its principals ever been declared bankrupt or filed for protection from creditors under State or Federal proceeding in the last seven (7) years?

☐ YES    ☑ NO

If "YES", in an attachment to this form identify the date, court, jurisdiction, case number, amount of liabilities and amount of assets.

Signature: [Signature]

Printed Name: [Printed Name]

ACCOUNT MANAGER

Title: [Title]

Date: 4/16/19

COMPANY NAME: [Company Name]
BIDDER LITIGATION DISCLOSURE FORM

WATER WELLS AND PUMP MAINTENANCE AND REPAIR SERVICES
RFP #19RP028

Bidder shall respond to each of the questions below by checking the appropriate box and provide supplemental information as needed. Failure to fully and truthfully disclose the information required by this disclosure form may result in the disqualification of your submittal from consideration or termination of the contract, once awarded.

Have you or any member of your Firm or Team to be assigned to this contract ever been indicted or convicted of a felony or a misdemeanor involving theft or moral turpitude in the last five (5) years?

☐ YES  ☑ NO

Have you or any member of your Firm or Team to be assigned to this contract ever been terminated (for cause or otherwise) from any work being performed for the City of Scottsdale or any other Federal, State or Local Government?

☐ YES  ☑ NO

Have you or any member of your Firm or Team to be assigned to this contract ever been involved in any claim or litigation with the City of Scottsdale or any other Federal, State or Local Government during the last ten (10) years?

☐ YES  ☑ NO

If you answered "YES", to any of the above questions, in an attachment to this form, please indicate the name(s) of the person(s), the nature, and status and/or outcome of the information, indictment, conviction, termination, claim or litigation, as applicable.

Signature

Account Manager

Title

Printed Name

4-16-19

Date

COMPANY NAME: Lee Christian & Co.

02/21/2019 – Doc #17129139-v3
COS RFP Template
# BIDDER QUESTIONNAIRE - COMPANY INFORMATION

**WATER WELLS AND PUMP MAINTENANCE AND REPAIR SERVICES**  
RFP #19RP028

## COMPANY INFORMATION

<table>
<thead>
<tr>
<th>Company Local Office Physical Address</th>
<th>12030 East Riggs Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Daytime Phone Number</td>
<td>480-895-9404</td>
</tr>
<tr>
<td>Office Fax Number</td>
<td>480-895-8699</td>
</tr>
<tr>
<td>Telephone Ordering Phone Number(s)</td>
<td>480-895-9404</td>
</tr>
<tr>
<td>Company Email Address</td>
<td><a href="mailto:paul.mealpine@geine.com">paul.mealpine@geine.com</a></td>
</tr>
<tr>
<td>Company Operating Hours (Monday – Friday)</td>
<td>8:00 AM - 5:00 PM</td>
</tr>
<tr>
<td>Company Hours (Saturday)</td>
<td>Closed</td>
</tr>
</tbody>
</table>

**NAME OF MAIN CONTACT**  
*(assigned to this contract)*

<table>
<thead>
<tr>
<th>Office Phone Number of Main Contact</th>
<th>480-895-9404</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellular Phone Number of Main Contact</td>
<td>602-300-3179</td>
</tr>
<tr>
<td>Email of Main Contact</td>
<td><a href="mailto:paul.mealpine@geine.com">paul.mealpine@geine.com</a></td>
</tr>
</tbody>
</table>

**NAME OF COMPANY MANAGER**

<table>
<thead>
<tr>
<th>Office Phone Number of Company Manager</th>
<th>713-466-5001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Email of Company Manager</td>
<td><a href="mailto:Timothy.Oman@geine.com">Timothy.Oman@geine.com</a></td>
</tr>
</tbody>
</table>

After Hour/Emergency Phone Number(s)  

<table>
<thead>
<tr>
<th>602-300-3179 Paul</th>
</tr>
</thead>
<tbody>
<tr>
<td>602-822-7126 Wes</td>
</tr>
</tbody>
</table>

Signature: [Signature]

Printed Name:  

| Name: Paul Mealspie | Title: Account Manager | Company: Layne Christensen |

02/21/2019 – Doc #17129139-v3  
COS RFP Template
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>NR</td>
<td>Phoenix Pumps, Inc.</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Layne Christensen</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contractors Mgmt. LLC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Southwest Waterworks</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Weber Water Resources</td>
</tr>
<tr>
<td><strong>X</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>X</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>X</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Awarded**

(1 to xx)

**Rank**

**Proposal Offeror**

---

This represents the final award recommendation. The proposals have been reviewed for responsiveness, responsibility and any other established evaluation criteria from the solicitation and the results are shown below.

*Final Bid Tab Date: May 14, 2019*

*Description: Water Wells and Pump Maintenance and Repair Services*

*Final Recommended Proposal Tabulation*

*City of Scottsdale*
LINKING AGREEMENT
BETWEEN
THE CITY OF GLENDALE, ARIZONA
AND
LAYNE CHRISTENSEN COMPANY

EXHIBIT B
Scope of Work

PROJECT

Repair and maintenance of water wells, pumps and electrical equipment as outlined in the awarded contract 19RP029 on an as needed basis.
LINKING AGREEMENT
BETWEEN
THE CITY OF GLENDALE, ARIZONA
AND
LAYNE CHRISTENSEN COMPANY

EXHIBIT C

METHOD AND AMOUNT OF COMPENSATION

Method of payment and amount of compensation shall be made per the awarded contract 19RP029.

NOT TO EXCEED AMOUNT

The total amount of compensation paid to Contractor for full completion of all work required by the Project must not exceed $n/a annually or $2,500,000 for the entire term of the Agreement.

DETAILED PROJECT COMPENSATION
<table>
<thead>
<tr>
<th>ITEM</th>
<th>PUMP WORK</th>
<th>ANNUAL ESTIMATED HOURS</th>
<th>UNIT PRICE/ HOUR</th>
<th>EXTENDED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>Boom truck with one operator (to/from site)</td>
<td>400</td>
<td>$220.50</td>
<td>$88,200.00</td>
</tr>
<tr>
<td>B.</td>
<td>Semi-Tractor and flatbed trailer with driver</td>
<td>200</td>
<td>$205.00</td>
<td>$41,000.00</td>
</tr>
<tr>
<td>C.</td>
<td>Rig, Boom truck and Crew (to/from site) or (to/from shop)</td>
<td>150</td>
<td>$260.00</td>
<td>$3,900.00</td>
</tr>
<tr>
<td>D.</td>
<td>Crew Only (to/from site with rig in-place)</td>
<td>75</td>
<td>$195.00</td>
<td>$14,625.00</td>
</tr>
<tr>
<td>E.</td>
<td>Parts and Materials to/from site on flatbed/pickup truck</td>
<td>400</td>
<td>$136.00</td>
<td>$54,400.00</td>
</tr>
<tr>
<td>F.</td>
<td>Vibration Analysis</td>
<td>75</td>
<td>$150.00</td>
<td>$11,250.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PUMP WORK</th>
<th>ANNUAL ESTIMATE</th>
<th>UNIT PRICE/ HOUR</th>
<th>EXTENDED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>G.</td>
<td>Well video, to/from site, includes written report of well video and one copy of the DVD or USB drive of well video</td>
<td>300</td>
<td>$945.00</td>
<td>$283,500.00</td>
</tr>
<tr>
<td>H.</td>
<td>Pump Efficiency Test</td>
<td>40</td>
<td>$525.00</td>
<td>$2,100.00</td>
</tr>
</tbody>
</table>

**TABLE 1 TOTAL (PUMP WORK A – H):** $636,775.00

COMPANY NAME: 

Laurene Christianson
TABLE 2 - PERSONNEL RATES

<table>
<thead>
<tr>
<th>Item</th>
<th>JOB TITLES</th>
<th>TYPE</th>
<th>ESTIMATED ANNUAL HOURS</th>
<th>UNIT PRICE HOURLY RATE</th>
<th>EXTENDED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1.</td>
<td>Lead Field Labor</td>
<td>Regular</td>
<td>700</td>
<td>$13.66</td>
<td>$96,220</td>
</tr>
<tr>
<td>A2.</td>
<td>Lead Field Labor</td>
<td>Weekend, Holiday and After Hours</td>
<td>100</td>
<td>$20.44</td>
<td>$2,044</td>
</tr>
<tr>
<td>B1.</td>
<td>Field Labor</td>
<td>Regular</td>
<td>700</td>
<td>$13.66</td>
<td>$95,200</td>
</tr>
<tr>
<td>B2.</td>
<td>Field Labor</td>
<td>Weekend, Holiday and After Hours</td>
<td>100</td>
<td>$20.44</td>
<td>$20,440</td>
</tr>
<tr>
<td>C1.</td>
<td>Shop Labor</td>
<td>Regular</td>
<td>1,000</td>
<td>$95.50</td>
<td>$95,500</td>
</tr>
<tr>
<td>C2.</td>
<td>Shop Labor</td>
<td>Weekend, Holiday and After Hours</td>
<td>2,000</td>
<td>$140.00</td>
<td>$280,000</td>
</tr>
<tr>
<td>D1.</td>
<td>Machine Shop/ Welding Lab</td>
<td>Regular</td>
<td>700</td>
<td>$95.50</td>
<td>$66,350</td>
</tr>
<tr>
<td>D2.</td>
<td>Machine Shop/ Welding Lab</td>
<td>Weekend, Holiday and After Hours</td>
<td>100</td>
<td>$140.00</td>
<td>$14,000</td>
</tr>
<tr>
<td>E1.</td>
<td>Electrician</td>
<td>Regular</td>
<td>200</td>
<td>$136.70</td>
<td>$27,340</td>
</tr>
<tr>
<td>E2.</td>
<td>Electrician</td>
<td>Weekend, Holiday and After Hours</td>
<td>20</td>
<td>$204.20</td>
<td>$4,084</td>
</tr>
<tr>
<td>F1.</td>
<td>Mechanic</td>
<td>Regular</td>
<td>100</td>
<td>$113.60</td>
<td>$11,360</td>
</tr>
<tr>
<td>F2.</td>
<td>Mechanic</td>
<td>Weekend, Holiday and After Hours</td>
<td>25</td>
<td>$140.00</td>
<td>$3,500</td>
</tr>
<tr>
<td>G1.</td>
<td>Supervisor</td>
<td>Regular</td>
<td>600</td>
<td>$136.70</td>
<td>$81,620</td>
</tr>
<tr>
<td>G2.</td>
<td>Supervisor</td>
<td>Weekend, Holiday and After Hours</td>
<td>200 Hours</td>
<td>$204.20</td>
<td>$40,840</td>
</tr>
</tbody>
</table>

TABLE 2 TOTAL (PERSONNEL RATES A - G) $855,130

COMPANY NAME: [Signature]

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Price must be inclusive of all costs, including but not limited to, direct and indirect costs for labor, overhead, materials, tools, equipment, travel, mobilization, demobilization.

**TABLE 3 – PUMP RIG SERVICES (removing / re-installing well, with a three-man crew)**

<table>
<thead>
<tr>
<th>Item</th>
<th>DESCRIPTION</th>
<th>TYPE</th>
<th>ESTIMATED ANNUAL HOURS</th>
<th>UNIT PRICE HOURLY RATE</th>
<th>EXTENDED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1.</td>
<td>Pump Rig (5-12 ton)</td>
<td>Regular On-Site</td>
<td>100</td>
<td>$260</td>
<td>$26,000</td>
</tr>
<tr>
<td>A2.</td>
<td>Pump Rig (5-12 ton)</td>
<td>Weekend, Holiday and After Hours On-Site</td>
<td>100</td>
<td>$350</td>
<td>$35,000</td>
</tr>
<tr>
<td>B1.</td>
<td>Pump Rig (13-29 ton)</td>
<td>Regular On-Site</td>
<td>700</td>
<td>$260</td>
<td>$182,000</td>
</tr>
<tr>
<td>B2.</td>
<td>Pump Rig (13-29 ton)</td>
<td>Weekend, Holiday and After Hours On-Site</td>
<td>100</td>
<td>$350</td>
<td>$35,000</td>
</tr>
<tr>
<td>C1.</td>
<td>Pump Rig (30-49 ton)</td>
<td>Regular On-Site</td>
<td>1,000</td>
<td>$260</td>
<td>$260,000</td>
</tr>
<tr>
<td>C2.</td>
<td>Pump Rig (30-49 ton)</td>
<td>Weekend, Holiday and After Hours On-Site</td>
<td>2,000</td>
<td>$350</td>
<td>$700,000</td>
</tr>
<tr>
<td>D1.</td>
<td>Pump Rig (50 ton &amp; larger)</td>
<td>Regular On-Site</td>
<td>700</td>
<td>$325</td>
<td>$227,500</td>
</tr>
<tr>
<td>D2.</td>
<td>Pump Rig (50 ton &amp; larger)</td>
<td>Weekend, Holiday and After Hours On-Site</td>
<td>100</td>
<td>$450</td>
<td>$45,000</td>
</tr>
<tr>
<td>E.</td>
<td>Backhoe</td>
<td></td>
<td>40</td>
<td>$136</td>
<td>$5,440</td>
</tr>
<tr>
<td>F.</td>
<td>Skip Loader</td>
<td></td>
<td>40</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**TABLE 3 TOTAL (PUMP RIG SERVICES A – F)** $1,515,940

**COMPANY NAME:** Layne Christensen
### TABLE 4 – WELL MAINTENANCE ACTIVITIES

<table>
<thead>
<tr>
<th>Item</th>
<th>DESCRIPTION</th>
<th>TYPE</th>
<th>ESTIMATED ANNUAL HOURS</th>
<th>UNIT PRICE HOURLY RATE</th>
<th>EXTENDED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>Well Rig Services</td>
<td>Regular On-Site</td>
<td>12</td>
<td>$2.60</td>
<td>$3,120</td>
</tr>
<tr>
<td>B.</td>
<td>Well Rig Services</td>
<td>Weekend, Holiday and After Hours On-Site</td>
<td>10</td>
<td>$3.50</td>
<td>$3,500</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>DESCRIPTION</th>
<th>ESTIMATED ANNUAL UNITS</th>
<th>UNIT PRICE PER FOOT</th>
<th>EXTENDED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.</td>
<td>Sonar Jet</td>
<td>4</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>DESCRIPTION</th>
<th>ESTIMATED ANNUAL QTY</th>
<th>UNIT PRICE EACH</th>
<th>EXTENDED COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.</td>
<td>Abandonment of well with 12&quot; casing</td>
<td>2</td>
<td>$28,000</td>
<td>$56,000</td>
</tr>
<tr>
<td>E.</td>
<td>Abandonment of well with 24&quot; casing</td>
<td>2</td>
<td>$60,000</td>
<td>$120,000</td>
</tr>
<tr>
<td>F.</td>
<td>Abandonment of well with anything over 24&quot; casing</td>
<td>2</td>
<td>$105,000</td>
<td>$210,000</td>
</tr>
</tbody>
</table>

**TABLE 4 TOTAL (WELL MAINTENANCE ACTIVITIES A – F)**: $372,620

Indicate the time of the day, and the days of the week that will constitute overtime pay charges.
(Weekend, Holiday, and After Hours)

**COMPANY NAME:** Layne Christensen
TABLE 5 - MATERIALS & OUTSIDE SERVICE RATES (Mark-Up Costs)

The City of Scottsdale will reimburse the "Total Mark-Up % Rate" indicated below, for all Materials and Outside Services throughout the term of the contract.

- Parts to be fabricated by contractor shall be quoted before use in repairs for City of Scottsdale.
- No markups will be paid on delivery charges for parts shipped to Contractor or for unauthorized outside labor.
- Contractor shall provide evidence of purchased price for all repair parts to be marked up.
- Contractor shall provide a firm quote for all purchased repair parts and receive a written confirmation from the City before ordering.

EXAMPLE: If a bearing is invoiced to your company at $10.00 and your total mark-up percentage rate was 1.15%, your billing to the City would be $11.50. FORMULA: ($10 x 1.15% = $11.50).

<table>
<thead>
<tr>
<th>MATERIALS</th>
<th>Mark Up Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Materials will be billed at your invoice cost multiplied by your mark-up % indicated in this bid. Indicate your mark-up percentage for materials.</td>
<td>25%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OUTSIDE SERVICES</th>
<th>Mark Up Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Outside services include subcontracted work and motor repairs, to will be billed at your invoice cost multiplied by your mark-up % indicated in this bid. Indicate your mark-up percentage for outside services.</td>
<td>25%</td>
</tr>
</tbody>
</table>

COMPANY NAME: [Signature]