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**American Samoa Power Authority**

PO Box PPB

Pago Pago, AS 96799

**REQUEST FOR PROPOSAL (“RFP”)**

**for the**

**FAGAALU SURFACE WATER SYSTEM DEVELOPMENT PROJECT  
PRELIMINARY ENGINEERING REPORT**

**November 24, 2017**

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**RFP NO. ASPA18.002.WTR**

**UTU ABE MALAE  
EXECUTIVE DIRECTOR**

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**NOTICE TO OFFERORS**  
**REQUEST FOR PROPOSALS (“RFP”)**

ISSUANCE DATE: **November 24, 2017**

RFP #: ASPA18.002.WTR-FAGAALU SURFACE WATER SYSTEM  
DEVELOPMENT PROJECT PRELIMINARY ENGINEERING  
REPORT

PROJECT: Fagaalu Surface Water System Development Project Preliminary  
Engineering Report

CLOSING DATE/TIME: **December 8, 2017** @ 2:00 p.m., American Samoa Time

The American Samoa Power Authority (ASPA) issues this Request for Proposal (“RFP”) to evaluate, negotiate, and contract a professional engineering firm to provide a Preliminary Engineering Report (PER) for the Fagaalu Surface Water System Development Project. Qualified offerors must submit proposals in a sealed envelope, box, or other enclosure addressed to Ioana Uli, ASPA Procurement Manager. The sealed envelope or box must show date and time of proposal opening and be labeled: “RFP No. ASPA18.002.WTR – Fagaalu Surface Water System Development Project.” Late submittals will not be opened or considered and will be determined as non-responsive. Electronic Submittals may be made by submitting electronic PDF copies of proposals to [bids@aspower.com](mailto:bids@aspower.com) no later than the date and time as specified. All offerors shall provide sufficient written and verifiable information that responds to the requirements set forth herein. For more information about this RFP, please contact the following person(s):

Ioana S. Uli  
ASPA Procurement Manager  
ASPA Procurement Office  
PH: 684-248-1234  
[bids@aspower.com](mailto:bids@aspower.com)

The American Samoa Power Authority reserves the right to:

1. Reject all proposals and reissue a new or amended RFP.
2. Request additional information from any submitting a proposal.
3. Select a firm for award based on other than “least cost” (e.g. capability to complete work in a timely fashion or proven technical capabilities).
4. Negotiate a contract with the firm selected for award.
5. Waive any non-material violations of rules set up in this RFP at its sole discretion.

**Utu Abe Malae, Executive Director      Date: November 24, 2017**

**PROPOSAL INVITATION**

**DATED ISSUED:** November 24, 2017

**INVITATION NO: RFP NO:** ASPA18.002.WTR – Fagaalu Surface Water System Development Project

**INSTRUCTIONS:**

- 1) This REQUEST FOR PROPOSALS (RFP) shall be submitted in a sealed envelope, box, or other enclosure addressed to Ioana Uli, ASPA Procurement Manager, P.O. Box PPB, Pago Pago, AS 96799. An original, one PDF electronic copy, and five (5) hard copies must be received at **ASPA’s Procurement Office no later than 2:00 pm on November 10, 2018.** The envelopes or boxes must be labeled **“RFP No. ASPA18.002.WTR –Fagaalu Surface Water System Development Project Preliminary Engineering Report”**. **Late submittals will not be opened or considered and will be determined as non-responsive.** All Offerors shall provide sufficient written and verifiable information that responds to the requirements set forth herein, the Contract Documents, and in the **Scope of Work**.
- 2) **Pre-proposal Questions** – Any pre-proposal questions and/or clarifications shall be submitted to Ioana Uli in writing at bids@aspower.com. Questions and/or clarifications are welcome and should be submitted no later than 4:00 pm on December 1, 2017.
- 3) ASPA shall issue addenda to address any questions and/or clarifications as necessary on December 5, 2017.

**NOTE TO OFFERORS:**

This Request for Proposal (RFP) is subject to the attached General Terms and Conditions and Scope of Work.

The undersigned offers and agrees to furnish within the time specified, the articles and services at the price stated opposite the respective terms listed on the schedule of the cost proposal. In Consideration of the expense to the American Samoa Power Authority in opening, tabulating, and evaluating this and other proposals, and other considerations such as the schedule, the undersigned agrees that this proposal shall remain firm and irrevocable for sixty (60) calendar days from the proposal closing date to supply any or all of the items which prices are quoted. **Furthermore, all quotes and prices from the successful Offeror must be in United States Dollars (USD).**

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

**AMERICAN SAMOA POWER AUTHORITY**  
**SPECIAL REMINDERS TO PROSPECTIVE OFFERORS**

All Offerors are reminded to read and comply with the Proposal Invitation Instructions and General Terms and Conditions. The Offeror must attach a signed Proposal Transmittal Form and acknowledgement of all Proposal Conditions and Addenda. The Offeror shall ascertain that all of the following requirements of the proposal are submitted in a single proposal envelope or box and delivered prior to the specified date and time for proposal opening.

- a. Proposal Transmittal Form (Attachment A)
- b. Scope of Work (Attachment B)
- c. Proposal Cost Form (Attachment C)
- d. Offeror Qualification Sheet (Attachment D)

All required forms must be signed and returned with the proposal envelope. Failure to comply with these requirements may result in disqualification or rejection of the proposal.

I, the duly authorized representative of \_\_\_\_\_, acknowledge receipt of the special reminder to prospective Offerors together with Proposal RFP NO. ASPA18.002.WTR “Fagaalu Surface Water System Development Project Preliminary Engineering Report” as of this date, 2017.

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Signature of Offeror’s Representative

## SIGNIFICANT DATES

The following are the significant dates for the RFP and the anticipated Contract and Scheduling Dates:

November 24, 2017	Issuance Date
December 1, 2017	Deadline for submitting questions/inquiries/clarifications
December 8, 2017	Closing Date (2:00 p.m. American Samoa time)
December 11, 2017	Procurement to review proposals for completion & compliance
December 13, 2017	Source Evaluation Board (SEB) 1 <sup>st</sup> meeting to review proposals
December 18, 2017	SEB submit recommendations to Procurement Manager
December 20, 2017	Inform Successful Offeror
TBA	Notice to Proceed (send to Consultant)

**Dates are subject to change.**

## GENERAL TERMS AND CONDITIONS

### RFP NO. ASPA18.002.WTR

**I. INTRODUCTION:** The American Samoa Power Authority (ASPA) in order to comply with American Samoa Code Annotated (“ASCA”) §15.0108 and other regulatory requirements, hereby issues this request for proposals for Professional Services to provide a Preliminary Engineering Report (PER) for the Fagaalu Surface Water System Development Project.

The American Samoa Power Authority (“ASPA”) invites professional consulting firms to submit formal, written proposals to provide a Preliminary Engineering Report for the Fagaalu Surface Water System Development Project. The complete description of required services and deliverables is listed in the Scope of Work, which is incorporated herein as if fully set forth.

This invitation is an open and competitive process in which ASPA, hereby invites sealed proposals from qualified Offerors.

**II. BACKGROUND:** American Samoa is composed of several islands including Tutuila, Tau, Ofu, Olosega, and Aunuu. In the 2010 census the islands had a combined population of approximately 55,000 with nearly 52,000 residing on Tutuila. Nearly 20 miles long and between one and six miles wide, Tutuila is the largest island of the group with the remaining islands each significantly smaller. The islands are located approximately 2400 miles southwest of Hawaii and 1800 miles northeast of New Zealand.

**III. AUTHORITY:** ASPA, which generates and distributes electrical power and provides water, wastewater, solid waste services for the islands of American Samoa, a Territory of the United States. ASPA, a semi-autonomous agency of the American Samoa Government (ASG), was formally established through the ASG legislative act on October 1, 1981. Prior to that date, ASPA was operated as a division of ASG’s Department of Public Works. The separate, semi-autonomous power authority was established to provide better accountability and operating efficiency.

ASPA is governed by a five-member Board of Directors appointed by the Governor and confirmed by the legislature. The first three members serve four-year staggered terms, and the fourth and fifth members serve four-year concurrent terms. All rates charged by ASPA are developed and promulgated in accordance with ASG Administrative Procedures Act 4.1001 and the Public Utility Regulatory Policies Act (PURPA) for electricity.

**IV. SCOPE OF WORK:** (See Attachment B)

**V. DATE/TIME/PLACE FOR PROPOSAL SUBMITTAL:** Each Offeror must submit their proposals in a sealed envelope addressed to the Procurement Manager. An original and five (5) copies of the Offeror’s proposal must be received at the ASPA Procurement Office no later than 2:00 p.m. December 8, 2017. Late submittals will not be opened or considered and will be determined as non-responsive. All Offerors shall provide sufficient written and verifiable information that responds to the requirements set forth herein and in the Scope of Work.

The Offerors may submit the proposals through three (3) means.

- i. Electronic File Transfer – The Offeror may submit the proposal using the electronic mail facility. This will enable the Offerors to upload proposal file by email attachment. The proposals must be uploaded by 2:00 PM on June 10, 2018, American Samoa Time.
- ii. In Person Delivery – Offerors may deliver the proposal in person at the ASPA Offices at the Tafuna Power Plant compound (Security Guard at the main gate will direct Offerors and/or Representative to the Procurement Office inside the compound) in Tafuna. Proposal must be received by 2:00 PM on June 10, 2018, American Samoa Time.

**VI. PRE-PROPOSAL QUESTIONS:** Any pre-proposal questions and/or clarifications shall be submitted in writing to the Procurement Manager Ioana Uli by email at bids@aspower. Pre-proposal questions must be received no later than December 1, 2017. ASPA will then issue addenda to address any questions and/or clarifications as may be necessary. ASPA reserves the right to issue addenda for any changes to this RFP. Offerors will be requested to send a signed “Receipt of Addenda” to ASPA for each addendum that may be issued

**VII. PROPOSAL PREPARATION INSTRUCTIONS**

- A. The proposal must contain four (4) parts as follow:
  1. Company’s Profile and Portfolio
  2. Technical:
    - a. Offeror must describe the approach that will be undertaken to achieve the goals and objectives of the Scope of Work.
  3. Prior Related Experience/Past Performance:
    - a. A description of the Offeror’s related experience must be provided.
    - b. A dossier of personnel qualifications and professional credentials as requested on the Attachment C, The Offeror Qualification Sheet, must be listed.
    - c. Attachment C must include a list of three or more references and a project history to document a minimum of five (5) years of specifically related experience.
  4. Proposed Price:
    - a. The Offeror’s price submittal shall be presented in a breakdown format.
    - b. The proposed price breakdown should identify all costs (e.g. analyzing, reporting, travel, etc.)
- B. OFFERORS shall prepare their proposals in detail accordingly.

**VIII. CONTRACT TERM**

- a. The term for this contract is **ninety (90) calendar days**.



- b. The contract term shall be initiated by the issuance of a Notice to Proceed by ASPA at which time a contract completion date will be established.
- c. ASPA will retain the sole option to renew or extend the contract after its initial term.

**IX. TYPE OF CONTRACT:** The Consultant will provide services to ASPA under a negotiated fixed fee agreement. The successful Offeror shall furnish the necessary personnel, materials, insurances, licenses, equipment, ground transportation to and from work areas, required materials or services, and otherwise do all things necessary to perform the work and services specified in the Scope of Work and to the satisfaction of ASPA.

The Consultant must at all times comply with all applicable workman's compensation, occupational disease, and occupational health and safety laws, statutes, and regulations to the full extent applicable. ASPA will not be held responsible in any way for claims filed by the successful Offeror or its employees for services performed under the terms of this RFP or the contract.

The Consultant shall be an independent contractor and not an agent or employee of the American Samoa Power Authority. ASPA will not be held responsible in any way for claims filed by the Consultant or its employees for services performed under the terms of this RFP or the contract

**X. BASIS FOR SELECTION:** Proposals will be evaluated by a Source Evaluation Board ("SEB"). SEB members shall be approved by the Executive Director. Submission of a proposal shall constitute a waiver of any challenge or dispute of the SEB members, as well as the choice of methodology set forth on the SEB score sheets. The award will be made by ASPA in accordance with the evaluation criteria set forth herein and with ASPA's Procurement Rules.

A determination shall be made by the SEB of those responsible Offerors whose proposals are susceptible of being selected for award. The determination shall be included in the contract file. Discussions may be conducted by the SEB with those responsible Offerors whose proposals are determined to be responsive and responsible to the RFP. These discussions shall only be conducted for the purpose of obtaining clarification from the Offeror on its proposal to ensure full understanding of and responsiveness to the RFP requirements. Discussions shall be conducted individually with each offeror and care shall be exercised to ensure that no information derived from a competing offeror's proposals is disclosed. All Offerors with whom discussions are conducted shall be accorded an opportunity to revise their proposals in response to specific clarifications based on the discussions. Unless the Procurement Manager determines that satisfactory evidence exists that a "mistake" has been made, as set forth in Procurement Rules §3-114, Offerors will not be permitted to revise their proposals after proposal opening.

The results of the evaluation will be documented, and written recommendation by the SEB will be sent to the Procurement Manager. Recommendation for award is sent to the Executive Director for approval.

ASPA reserves the right to make the award to the offeror that submits the proposal, which meets the requirements set forth herein and is in the best interests of ASPA after taking into

consideration the aforementioned factors. ASPA also reserves the right to select portions of a proposal, or to reject any and all proposals.

**XI. EVALUATION CRITERIA:** Proposals will be evaluated and ranked by the Source Evaluation Board according to the following point system:

Technical:	0-30 points possible
Experience:	0-30 points possible
Contract Price:	0-40 points possible
Total:	100 points (best possible score)

ASPA reserves the right to make the contract award to the Offeror that submits the proposal which best meets the requirements set forth herein and which is in the best interests of ASPA after taking into consideration the aforementioned factors.

**XII. ATTACHMENTS**

- A. Attachment A is the Proposal Transmittal Form
- B. Attachment B is the Scope of Work.
- C. Attachment C is the Proposal Cost Form.
- D. Attachment D is the Offeror's Qualification Form.

**XIII. QUALIFICATION OF OFFERORS:** ASPA may make such investigations as it deems necessary to determine the ability of the Offeror to perform the work and the Offeror shall furnish to ASPA such information and data for this purpose as ASPA may request, or else the Consultant may be deemed non-responsive. The Offeror shall submit at least that information require by the section entitled Attachment C, the "Offeror's Qualification Form".

**XIV. MULTIPLE PROPOSALS – COLLUSION:** If more than one Proposal is submitted by any one party or in the name of its clerk, partner or other person, all Proposals submitted by said party may be rejected by ASPA. This shall not prevent a Consultant from submitting alternate Proposals when called for. A party who has quoted prices on materials to a Consultant is not thereby disqualified from quoting prices to other Consultant or from submitting a Proposal directly for the materials or work.

If ASPA believes that collusion exists amongst any OFFEROR, none of the participants in such collusion will be considered. Proposals in which the prices are unreasonable or unrealistic may be rejected at ASPA's sole discretion.

**XV. BUSINESS LICENSE:** An Offeror from elsewhere than American Samoa shall be appropriately licensed in accordance with the state and/or country of the OFFEROR'S origin and shall be skilled and regularly engaged in the general type and size of work called for under this RFP. The successful Offeror shall possess a currently valid American Samoa Business License prior to the execution of the contract.

**XVI. CONTRACT DOCUMENTS:** The contract documents (the “Contract Documents”) which govern all work set forth by this RFP consist of the following:

1. This RFP;
2. All addenda to this RFP;
3. Any submissions pursuant to any issued addenda;
4. Any clarifications as may result from Proposal evaluations; and
5. The Contract (or the “Agreement”).

**XVII. WITHDRAWAL OF PROPOSAL:** Any Proposal may be withdrawn prior to the scheduled time for the opening of Proposals by notifying ASPA in a written request. No Proposal may be withdrawn after the time scheduled for opening of Proposals.

**XVIII. OPENING AND EVALUATION OF PROPOSALS:** In accordance with Procurement Rule § 3-110, Proposals will be opened and recorded as part of the record for the Source Evaluation Board on the date and at the time indicated above at the Procurement Office in Tafuna or in another place designated by the ASPA Procurement Manager in writing.

**XIX. EXECUTION OF CONTRACT:** The Consultant shall, after receiving the Notice of Award, sign and deliver to ASPA the Contract, together with other documents as required by ASPA.

**XX. ASSIGNMENT:** The Consultant shall not assign, transfer, convey or otherwise dispose of the Contract, or his right, title or interest therein, or his power to execute such Contract, to any other persons, firm or corporation without previous consent in writing of ASPA.

**XXI. TIME IS OF THE ESSENCE:** The time is of the essence in completing the work to be performed under the Contract. Delays and extensions of time may be allowed only in writing signed by both parties as in accordance with the provisions of the Agreement.

**XXII. RFP CONDITIONS:** This RFP does not commit ASPA to award a contract or to pay any cost incurred in the preparation of a proposal. The American Samoa Power Authority reserves the right to do the following:

1. Reject any Offeror for being non responsive to the Proposal requirements which are contained in this RFP;
2. Reject all proposals and reissue an amended RFP;
3. Request additional information from any Offeror submitting a proposal;
4. Select a Offeror for award based on other than “least cost” criteria (e. g. capability to complete work in a timely fashion or substantive and relevant work experience);
5. Negotiate a contract with the Offeror selected for award; and
6. Waive any non-material violations of rules contained in this RFP.

ASPA reserves the right to issue any addendum to this RFP. Consultant shall send ASPA a signed form confirming receipt of any addenda, and shall submit supporting/additional information as required by any addenda. In the event that any Consultants fails to acknowledge receipt of any such Addendum in the space provided, his Proposal shall be considered irregular and will be accepted by ASPA only if it is in ASPA's best interest. In the event that Addenda are not received until after the Consultant has submitted his Proposal, a supplementary Proposal may be submitted revising the original Proposal. Such supplementary proposals must be received by ASPA prior to the scheduled time for opening of Proposals.

**XXIII. INDEMNITY PROVISION:** The Consultant shall indemnify and hold harmless the American Samoa Power Authority and the American Samoa Government from and against any and all claims, damages, losses, and expenses including attorney's fees arising out of or resulting from the performance of this project, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease, death or damage to property of whatsoever nature, including the loss of use resulting therefrom, and whether or not is caused in whole or in part by any negligent act or omission of the Consultant, its sub Consultants, or anyone employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by the negligence of ASPA and/or the strict liability of ASPA, its agents and employees.

**XXIV. OFFEROR'S QUALIFICATION DATA:** It is the intention of ASPA to award a Contract only to a Consultant who is able to furnish satisfactory evidence that it has the requisite experience and ability and that it has sufficient capital, facilities and plant to enable it to prosecute the work successfully and promptly and to complete it within the term set forth in the Contract.

The Consultant shall submit as part of the total Proposal package, the following information:

- a. Name of organization;
- b. Address and phone number of home office, principal place of business and locations and contact information for any branch offices;
- c. Type of business structure, e.g., corporation, partnership, joint venture, proprietorship;
- d. Place of organization or state of incorporation;
- e. Name and addresses for all owners for businesses other than corporations;
- f. For corporations, list the names and addresses of directors, officers and stockholders with twenty (20) percent ownership interest or greater;
- g. Places, including individual states and territories of the United States, where registered as a foreign corporation;
- h. List all countries and all states, territories and possessions of the United States in which similar consulting work has been performed in the last three (3) years, including:
  - i. Name of awarding agency or owner for which work was performed;
  - ii. Nature and scope of contract, including total dollar value;
  - iii. Dates of performance;

- iv. Whether performance was completed within the specified time under the contract and, if not, why not; and
  - v. Whether contract was performed under joint venture, and if so, with whom and under what arrangement.
- 
- i. The Name or names of supervisory personnel employed on the work under this Contract, including the experience record for each that indicates the degree of responsibility and type of work supervised;
  - j. The names and addresses of three references.

**ATTACHMENT A**

**PROPOSAL TRANSMITTAL FORM**

Date: \_\_\_\_\_

AMERICAN SAMOA POWER AUTHORITY

American Samoa Government

The undersigned (hereinafter called an Offeror), proposes and agrees to furnish all the necessary information to

**“RFP NO. ASPA18.002.WTR - Fagaalu Surface Water System Development Project Preliminary Engineering Report”**

in accordance with the Scope of Work, General Terms and Conditions, and other procurement requirements specified in this document for the prices states in the itemized proposal form(s) attached hereto, plus any and all sums to be added and/or deducted resulting from all extra and/or omitted work in accordance with the unit and/or lump sum prices stated in the itemized proposal form attached hereto.

The undersigned has read and understands the proposal requirements, and is familiar with and knowledgeable of the local conditions at the place where the work is to be performed. We have read the RFP Instructions and General Terms and Conditions attached to ascertain that all of the requirements of the proposal are submitted in the proposal envelope at the date and time for proposal opening.

\_\_\_\_\_  
Signed

Seal

Date: \_\_\_\_\_

## ATTACHMENT B

### SCOPE OF WORK

ASPA seeks to engage a Professional Engineering Firm that is best qualified and has the most competitive proposal to perform the work in a timely manner. The Consultant must have substantial experience in performing Preliminary Engineering Reports on Surface Water Systems. Qualification statements should include work experience relevant to this work. Budgeted price proposals should include, at a minimum, hourly rates by engineering discipline and the number of hours to perform the Scope of Services below. On an as needed basis, the Consultant and/or their appropriate representatives must be reasonably available to confer by telephone or electronically during business hours in American Samoa (six hours earlier than U.S. Eastern Standard Time; seven hours earlier than U.S. Eastern Daylight Time). ASPA will have staff available to coordinate with the Consultant for any work to be done in American Samoa. The Preliminary Engineering Report (PER) shall include the following:

1. Technical Feasibility Study, to include:
  - a. Estimated production capability of the proposed system. Amount of treated drinking water produced, both average and peak, for the various system design options. Estimates based on site testing, and historic data on stream flow, climate and seasonal variations, etc.
  - b. Analysis of the proposed site. Including: A study of the appropriateness, physical characteristics, and construction challenges of the site; The condition of existing catchment dam and reservoir; The advisability of rehabilitating the old reservoir structure vs. new construction; Consideration of environmental, archeological, permitting, and land use/acquisition issues.
  - c. Treatment options. An examination of various water treatment technology options (filtration, chemical, UV, etc.). Each analyzed for effectiveness with the source water's characteristics, technical complexity, on-going operational costs, maintenance requirements, operator expertise required, compliance with EPA regulations, and environmental impact.
2. Budget and Cost Analysis, to include:
  - a. Cost Benefit Analysis of various system options; Estimate of mobilization and construction costs; Detailed estimates of operational costs, including treatment, maintenance, tools, consumable supplies, and routine repairs; Estimated personnel costs, including additional staff required, training, and new EPA certification costs; Estimates of misc. expenses, including necessary legal work, required permits, and land lease costs (if applicable).
3. System Design.
  - a. A preliminary design plan for the type of system recommended by the consultant, as well as the most viable alternative. May include additional schematics and design highlights for other options, as requested. Design document to provide the preliminary engineering and data to form the basis of the actual construction plan to be developed by ASPA at a later date.
4. Recommendations.
  - a. A detailed justification of the recommended system design, based on the engineering, technical merit, and compliance with ASPA priorities: low maintenance, operation within the technical capabilities of existing staff, low

operational cost, able to meet projected water needs for at least 25 years, etc. May be required to provide similar information on alternative designs, upon request.

**Deliverables:** Three (3) double-sided copies of report sent to ASPA. Report shall be stamped by a U.S. registered professional engineer. Submit to ASPA all electronic files of the report and all supporting documents to include software output, etc... (Electronic files can be transferred using a secure FTP site or other ASPA approved online medium).

## **Background**

The proposed project will develop the necessary engineering plans for the construction of a new surface water system for the following community:

### ***Ifitoto*, Faga'alu Village**

The site of the project is a section of Faga'alu Village, in the central district of Tutuila Island, American Samoa. Traditionally the land occupied by this small community is known as *Ifitoto*. Although historically and politically a part of the larger village of Faga'alu, it is somewhat remote from the rest of the village and has its own local identity. It consists of approximately 67 acres in a narrow valley, up the main watershed from the village proper. The main Faga'alu village is built on a wide coastal plain around an ocean bay adjacent to Pago Pago harbor. Further isolating *Ifitoto* from the main village is the LBJ Tropical Medical Center. This large complex fills the majority of the valley. The Territory's only hospital completely separates *Ifitoto* from the rest of the village, accentuating its unique identity and character, despite being part of Faga'alu.

### **Service Area Demographics/Eligibility Criteria**

The 2010 US Census recorded a total population of the entire Faga'alu village as **910**. Separate population and other census data for the *Ifitoto* section were not calculated. However, the American Samoa Government estimates the current (2016) population of the *Ifitoto* area is approximately **300**. Records indicate there are approximately **74** homes and related buildings in the area. There are **50** service connections providing water to the households of *Ifitoto* not including the hospital.

### ***Ifitoto* Water System**

*Ifitoto* has its own water system, operated and maintained by the American Samoa Power Authority. The system is completely self-contained with no connections to Tutuila's central water system that serves the rest of Faga'alu village.

The simple system consists of a single ground water source (a well), approximately 1000 feet of water mains (8") and secondary service lines (2" and 1") feeding 50 customer connections (meters). Treatment is provided at the well site via a chemical feed system.

The original system was built in the mid-1960's following the construction of the LBJ Tropical Medical Center. Over the years, the system was expanded to accommodate the increasing population and development in the upper valley. The number of connections tripled between 1970 and 2000. The last major system upgrade was conducted in 2004 when the original 6" AC mains were replaced with 8" PVC pipes. The water well and treatment system have been upgraded several times over the years.



## **Original Faga'alu/Ifitoto Water System**

Before the development of *Ifitoto's* small ground water system, the area was served by a surface water catchment system built on Faga'alu Stream, above *Ifitoto* land.

The Faga'alu Stream watershed is one of the largest and most productive on Tutuila Island. The wide upper portion of the watershed extends up the slopes of Matafao, the tallest peak on Tutuila. The stream was the original water source for Faga'alu, and is the reason a village was established in that location. The archeological record confirms the importance of Faga'alu Stream in Samoa's history. Some of the earliest artifacts of human habitation in the Samoan archipelago were found at the mouth of the stream.

Numerous local myths and legends have developed around the stream's reputation for purity and reliability. One holds that in pre-contact times, a great drought caused all the streams in Samoa to dry up, except Faga'alu. Delegations from villages throughout the islands came to Faga'alu to collect water, and had to pay tribute to the village chiefs. True or not, the stream's reputation for never drying up, even in the worst droughts, continues to this day.

In the early 20<sup>th</sup> century, various colonial administrations attempted to harness this excellent water source with varying degrees of success. Finally just before World War II, the US Navy began work on a modern surface water system on Faga'alu Stream. The system included a concrete dam and reservoir, a distribution system (iron pipes, valves, mechanical controls), and a rudimentary filtration system (a slow sand filtration basin). Work was completed during the War. In the late 1940s, the Navy further enlarged the reservoir and upgraded the equipment prior to handing over operations of the system to the civilian government. The system continued to serve Faga'alu village for the next twenty-five years, virtually unchanged.

By the 1960s, the Faga'alu surface water system had deteriorated badly due to neglect and lack of maintenance. The quality and quantity of the water produced had declined significantly. Eventually most of the village was connected to the new central water system being developed for central Tutuila. Only *Ifitoto* land remained on the aging stream water system.

In 1963-64, the new LBJ Tropical Medical Center was built at the opening of the Faga'alu watershed valley, further isolating *Ifitoto* from the rest of the village. The original plans for the Medical Center called for the hospital to connect to the old surface water system. When extensive testing proved the water quality was below the then US standards, those plans were abandoned. The new hospital was connected to the central water system. The island government then had to decide what to do with the small *Ifitoto* community behind the hospital? It could not continue using the old, unhealthy water system. Extending the central water system up the valley, to serve the few homes that existed then, seemed cost prohibitive. A less expensive alternative was to create a separate self-contained (ground water) system for the small community.

It was determined that a single well, and simple distribution system, could provide sufficient quality water to serve the few isolated homes that then existed in the upper valley. That system was completed in 1968. It is the same system in use to this day in *Ifitoto*.

With the completion of the small *Ifitoto* ground water system, the old Faga'alu stream system was abandoned. The system's infrastructure (dam, reservoir, distribution system) deteriorated rapidly in the harsh climate of Samoa's tropical jungle. One of the best sources of fresh water on Tutuila Island has been neglected ever since.

## **The Need**

The proposed project will address several critical needs, including:

### **Water for *Ifitoto***

The small self-contained water system built in the 1960s for the *Ifitoto* community is no longer adequate. As the population of the valley multiplied and the number of houses grew, the system was expanded to meet the increasing demand. Main lines were extended and service lines added piecemeal in an attempt to keep up with the growth. After nearly fifty years, the system has expanded well beyond its original design parameters. In that time, the system has been stretched to serve more than twice the number of households and three times the original population. It can no longer reliably do so.

Trying to provide sufficient water from a single producing well has proven problematic. Although periodically upgraded over the years, it is simply inadequate to meet the current needs of the community. The well's size and design can barely produce enough water for the average daily demand placed on the system; it is considerably overtaxed during periods of peak demand. Continually overstressing the system has reduced its efficiency, led to frequent equipment failures, reduced the life span of equipment and system components, and greatly increased operational costs. Electricity and pumping costs have increased significantly, as new larger pumps were added. Treatment costs have increased as well, not only because of the increased volume of water being treated. Reduced water quality of the source water requires more extensive treatment, with more chemical use.

Increasing the size and capacity of the well, or adding a second one, will not address the most serious problem facing the *Ifitoto* system. The quality of the ground water in the area has deteriorated considerably in recent years. There has been a dramatic increase in sediment in the source (ground) water. Water turbidity has become as much a problem for the operators as the system's limited capacity.

The treatment system has struggled to deal with the increase in water turbidity. Often it is incapable of eliminating visible sediment. Customer complaints regarding turbidity have replaced those of low water pressure, and such complaints are growing. Maintenance costs have increased along with customer complaints. The sediment in the source water has increased so much that filters have to be cleaned and replaced frequently. The well has to be taken off line, with long service outages, so it can be flushed and cleaned every few months.

This increase in ground water turbidity is not confined to the present well location. Test wells drilled in the area, to find a suitable replacement well site, have found similar turbid water. Thus, building a larger capacity replacement ground water system for *Ifitoto* is not a viable alternative.

A new type of water system for the community is required.

### **Alternative Water Source for the LBJ Tropical Medical Central**

A new surface water system, utilizing Faga'alu Stream, could provide sufficient drinking water for the *Ifitoto* community. However, that system could provide additional benefits for the Territory. Among the most significant would be as an alternative and emergency water source for the LBJ Tropical Medical Center.

Over the past ten years, American Samoa has experienced numerous natural disasters: severe storms, tropical cyclones, and a major tsunami. The Territory is also subject to the periodic earthquakes. These disasters have highlighted the vulnerability of Tutuila's central water system, and the reliance on a single source for the island's drinking water. Water service to all, or parts, of the island has been disrupted in the wake of several natural disasters in recent years. Most serious of these disruptions occurred when the LBJ Tropical Medical Center was without water. As the Territory's only hospital the loss of water service, even for a brief period of time, can have serious consequences. This is particularly true in the midst of disaster; given that LBJ hospital is the sole source of treatment for injured victims. A loss of water service, in a disaster's immediate aftermath, can seriously compromise their treatment.

The proposed Faga'alu surface water system could provide the LBJ Tropical Medical Center with a reliable source of water in the event of a disaster. Water service to the hospital is particularly vulnerable during natural disasters. In the past, service was lost when the water mains along the coast were damaged by high storm waves. More common has been water loss due to storm related power outages. Water must be pumped to the hospital from wells many miles away from Faga'alu. Electric power is the most common utility service disrupted during natural disasters, being vulnerable to damage to power lines, poles, equipment, and power plant facilities. When such damage occurs, pumps cannot operate and water service is lost as well as power. With access to the proposed Faga'alu system, the Medical Center would have a reliable alternative source of water when needed. Since the new system will be gravity fed, it could serve the hospital even when electric power is lost.

The new Faga'alu system, connected to the hospital as well as *Ifitoto*, could provide uninterrupted water to LBJ Tropical Medical Center despite any damage done to the Territory's power or water infrastructure. In the event of a major disaster, the new system could help save lives.

Apart from its value during a disaster, the proposed new surface water system could benefit the hospital in other ways. It could be used to supplement the water it currently receives from the main system. Preliminary analysis indicates the new system could produce water volumes well in excess of *Ifitoto*'s needs. This additional water could be used by the hospital for part of its regular operation. Some of its clinic and services, such as its Kidney Dialysis Unit, are large water consumers. With the Territory's growing ground water concerns, major water consumers like the hospital have been asked to conserve water where possible. Should the supply problem worsen, it may begin to impact the availability and quality of some medical services. Having a supplemental water supply could help ease concerns about any impact a possible water shortages could have on medical care.

**ATTACHMENT C**  
**PROPOSAL COST FORM**

Engineering Firm to include a detail cost proposal as part of this form.

**TOTAL:** \$ \_\_\_\_\_

(in words: \_\_\_\_\_)

Price shall include all that is required to complete this work. Offeror shall propose a total cost as mentioned above.

Offeror Name: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

Business License Number: \_\_\_\_\_

**ATTACHMENT D**  
**OFFEROR'S QUALIFICATION SHEET**

1. NAME OF ORGANIZATION:

\_\_\_\_\_

2. ADDRESS:

\_\_\_\_\_

3. TELEPHONE:

Home Office

\_\_\_\_\_

Business Telephone

\_\_\_\_\_

Email Address

\_\_\_\_\_

Fax Number

\_\_\_\_\_

Taxpayer ID Number

\_\_\_\_\_

4. CONTACT PERSON:

\_\_\_\_\_

5. TYPE OF BUSINESS:

Corporation

Partnership

Proprietorship

Joint Venture

*Note: For Corporations – Articles of Incorporation Certification must be on record with the Treasurer of American Samoa. Copies of partnership agreements and articles of incorporation must be submitted to the revenue branch with application form and relevant documents. Aliens cannot operate sole ownership enterprises and partnerships with aliens are subject to immigration board review.*

Place of Organization or State of Incorporation:

\_\_\_\_\_

Owner's Names and Addresses (if not a Corporation):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

For Corporations: Names and Addresses of Directors, Officers, and Stockholders with 20% or greater interest in the company

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\_\_\_\_\_

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Individual States and Territories of the United States where company is registered as a foreign corporation

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6. List three projects of a similar nature, which have been completed by the Offeror within the last five (5) years, the total dollar amount of each project and the owner/contract person as a reference.

a. Name of Awarding Agency or Owner for which work was performed:

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Nature and Scope of Contract:

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Name, Address, and Phone Number of Agency Contact Person:

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Total Dollar Value: \_\_\_\_\_

Date Completed \_\_\_\_\_

If not completed, why?

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Was the contract performed under joint venture, if so with whom and under what arrangement?

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b. Name of Awarding Agency or Owner for which work was performed:

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Nature and Scope of Contract:

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Name, Address, and Phone Number of Agency Contact Person:

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Total Dollar Value: \_\_\_\_\_

Date Completed \_\_\_\_\_

If not completed, why?

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Was the contract performed under joint venture, if so with whom and under what arrangement?

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c. Name of Awarding Agency or Owner for which work was performed:

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Nature and Scope of Contract:

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Name, Address, and Phone Number of Agency Contact Person:

Total Dollar Value: \_\_\_\_\_

Date Completed \_\_\_\_\_

If not completed, why?

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Was the contract performed under joint venture, if so with whom and under what arrangement?

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d. Name of Awarding Agency or Owner for which work was performed:

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Nature and Scope of Contract:

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Name, Address, and Phone Number of Agency Contact Person:

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Total Dollar Value: \_\_\_\_\_

Date Completed \_\_\_\_\_

If not completed, why?

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Was the contract performed under joint venture, if so with whom and under what arrangement?



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7. List the name or names of supervisory personnel proposed to be employed on the work under this Contract, including the experience record for each that indicates the degree of responsibility and type of work supervised.

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8. List the names and addresses of three (3) references, at least one of which should be a bank or other lending institution, governmental agency, or bonding company.

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