

**JEFFESON COUNTY
STEUBENVILLE, OHIO
SMITHFIELD WWTP AND PUMP STATIONS REHABILITATION**

**Addendum 2
April 14, 2022**

To: Prospective Bidders

From: Arcadis U.S., Inc.
6041 Wallace Road Extension
Wexford, PA 15090

Owner: Jefferson County
301 Market Street
Steubenville, OH 43952

This Addendum is part of the Bidding Documents and the Contract Documents and modifies the original Bidding Documents dated **February 2022**, as indicated below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification for award of the associated Contract.

This Addendum consists of two pages and the attachments as listed.

CHANGES TO INTRODUCTORY INFORMATION

- 1.01 Table of Contents: Add the following:
- | | | |
|----------|------------------|------------|
| 05 53 16 | Aluminum Grating | 05 53 16-1 |
|----------|------------------|------------|
- 1.02 Table of Contents: Delete the following:
- | | | |
|----------|----------|------------|
| 26 50 00 | Lighting | 26 50 00-1 |
|----------|----------|------------|

CHANGES TO SPECIFICATIONS

- 1.03 Section 05 53 16, Aluminum Grating:
Add the attached Section 05 53 16, Aluminum Grating.
- 1.04 Section 26 50 00, Lighting:
Delete this Section in its entirety.
- 1.05 Section 40 66 53, Multiple Address Radio Equipment:
Replace this Section with the attached revised Section 40 66 53, Multiple Address Radio Equipment.
- 1.06 Section 46 70 00, Lagoon Sludge Removal and Disposal:
Add the following paragraph to Part 1.1 Description:

B. Estimate of Quantities:

1. The OWNER has collected information and performed testing to estimate the quantity and condition of sludge located in the two lagoons. Attached to this Specification Section is a map showing sampling locations, and the information collected at each point. The OWNER does not guarantee that these sludge conditions will exist at time of construction. CONTRACTOR shall make his own investigations and calculations of the quantities and conditions of sludge to be removed.

Refer to the ATTACHMENTS herein for the attachment referenced in the preceding paragraph.

CHANGES TO DRAWINGS

- 1.07 On Drawing C-06, the hatch shown in Detail A – UV TANK WALL CUT DETAIL – SECTION should be shown as aluminum grating.
- 1.08 Add the following note to Drawing C-06:

NOTE:

: ENLARGE EXISTING OPENING IN TANK COVER AND INSTALL TWO 3-FEET WIDE (APPROXIMATE 6-FEET TOTAL) BY 10-FEET LONG ALUMINUM GRATING PANELS EXTENDING OVER UV UNIT.

ATTACHMENTS

- 1.09 Section 05 53 16, Aluminum Grating – five pages.
- 1.10 Section 40 66 53, Multiple Address Radio Equipment – six pages.
- 1.11 Attachment to Specification Section 46 70 00, Lagoon Sludge Removal and Disposal:
 - A. Map of Sampling Locations and Information – one page.
- 1.12 Question and Answer Document – two pages.

END OF ADDENDUM NO. 2

SECTION 05 53 16

ALUMINUM GRATING

PART 1 – GENERAL

1.1 DESCRIPTION

A. Scope:

1. CONTRACTOR shall provide all labor, materials, equipment, and incidentals as shown, specified, and required to furnish and install aluminum grating and frames.
2. The Work includes:
 - a. Providing grating, frames, and appurtenances.
 - b. Providing openings in aluminum grating to accommodate the Work under this and other Sections, and attaching to aluminum grating all items such as sleeves, bands, studs, fasteners, and items required for which provision is not specifically included under other Sections.

B. Coordination:

1. Review installation procedures under this and other Sections and coordinate installation of items to be installed with or before aluminum grating Work.

C. Related Sections:

1. Section 09 91 00, Painting.

1.2 REFERENCES

A. Standards referenced in this Section are:

1. AA Aluminum Design Manual.
2. ASTM B210, Specification for Aluminum and Aluminum-Alloy Drawn Seamless Tubes.
4. ASTM B221, Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
5. NAAMM MBG 531, Metal Bar Grating Manual.
6. NAAMM MBG 533, Welding Specifications for Fabrication of Steel, Aluminum and Stainless Steel Bar Grating.

1.3 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturer: Shall have at least five years experience manufacturing products substantially similar to those required and shall be able to submit documentation of at least five installations in satisfactory operation for at least five years each.

- B. Component Supply and Compatibility:
1. Obtain all products and materials included in this Section regardless of component manufacturer from a single aluminum-grating manufacturer.
 2. Aluminum grating manufacturer shall review and approve or prepare all Shop Drawings and other submittals for all products and materials furnished under this Section.
 3. Components shall be suitable for the specified service conditions and be integrated into overall assembly by aluminum grating manufacturer.
 4. Provide only one type of aluminum grating exclusively throughout the Project.

1.4 SUBMITTALS

- A. Action Submittals: Submit the following:
1. Shop Drawings:
 - a. Fabrication and erection of all Work. Include plans, elevations, and details of sections and connections. Show anchorage and accessory items.
 - b. Setting drawings and templates for location and installation of anchorage devices.
 2. Product Data:
 - a. Manufacturer's specifications, load tables, dimension diagrams, anchor details and installation instructions.
 3. Samples:
 - a. Representative Samples of grating, appurtenances and other finished products requested by ENGINEER.
 - b. ENGINEER'S review will be for type and finish only. Compliance with all other requirements is exclusive responsibility of CONTRACTOR.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Shipping, Handling and Unloading:
1. Deliver materials to the Site to ensure uninterrupted progress of the Work. Deliver anchor bolts and anchorage devices to be embedded in cast-in-place concrete in ample time to prevent delaying the Work.
 2. Comply with Section 01 65 00, Product Delivery Requirements.
- B. Storage and Protection:
1. Protect materials from corrosion and deterioration.
 2. Do not store materials in contact with concrete or other materials that might cause corrosion, staining, scratching, or damage materials or finish.
 3. Comply with Section 01 66 00, Product Storage and Handling Requirements.

PART 2 – PRODUCTS

2.1 SYSTEM PERFORMANCE

- A. Aluminum Grating: Provide aluminum grating complying with the following:
 - 1. Grating Design Loads: Uniform live load shall be as shown or indicated in the Contract Documents. Where live load is not shown or indicated, uniform live and concentrated loads shall be as indicated in the table below, whichever results in the greater design stresses.

	Live Load	Concentrated Load
a.	100 psf	500 lbs. per foot of grating width at center of span

- 2. Maximum Clear Span Deflection for Uniform Live Loads: 1/120 of span, but not more than 1/4-inch.
- 3. Maximum Fiber Stress: 12,000 psi.
- 4. Do not install aluminum grating in areas subject to vehicular traffic.
- 5. Minimum Size of Members:
 - a. Minimum size of bearing bars shall be within standard mill tolerance as indicated in load tables in NAAMM MBG 531 for applicable loading and deflection requirements.
 - b. Minimum dimensions of cross bars shall be as indicated in tables of Minimum Standard Cross Bars and Connecting Bars in NAAMM MBG 531.
- 6. Banding bar shall be 1/4-inch thick minimum. Top of banding bar shall be flush with top of grating, unless otherwise shown or indicated. Banding bar shall be 1/4-inch shorter than the bearing bar height.
- 7. Comply with requirements of AA Aluminum Design Manual.

2.2 MANUFACTURERS

- A. Grating, Products and Manufacturers: Provide one of the following:
 - 1. Swage-Locked I-Bar Grating, by IKG Industries.
 - 2. Swage-Locked I-Bar Grating, by AMICO.
 - 3. Or equal.

2.3 MATERIALS

- A. Bearing Bars: Aluminum alloy 6061-T6 or alloy 6063-T6, complying with ASTM B221.
- B. Cross Bars or Bent Connecting Bars: Aluminum alloy 6061-T6 or alloy 6063-T6, complying with either ASTM B221 or ASTM B210.
- C. Frames: Aluminum alloy 6061-T6 or alloy 6063-T6, complying with ASTM B221.

- D. Stud anchors welded to steel supports and other fasteners shall be Type 316 stainless steel.

2.4 FABRICATION

- A. Use materials of minimum depth and thickness specified and required to comply with performance criteria in the Contract Documents.
- B. Provide grating as follows:
 - 1. Grating Type: Aluminum I-bar with swage-locked cross bars at right angles to bearing bars.
 - 2. Depth: One-inch minimum.
 - 3. Bearing Bars: Aluminum I-bar minimum of one-inch spaced at 1-3/16-inch on centers.
 - 4. Cross-Bars: Swage-locked to bearing bars at maximum spacing of four inches on centers.
 - 5. Surface: Grooved.
 - 6. Finish: Mill.
- D. Provide cutouts in grating for passage of piping, electrical conduit, valve stems, columns, ducts, and similar work. Where more than two bearing bars are included in a cut out, provide banding bars of same dimensions as bearing bars around opening welded to grating component parts.
- E. Gratings shall be accurately fabricated, free from warps, twists, and other defects that would affect grating appearance and grating serviceability.
- F. Welding shall conform to requirements of NAAMM MBG 533. Welds shall be ground smooth at top surfaces and bearing surfaces.
- G. Openings in and edges of gratings sections shall be banded with banding bars. Weld bands to intersecting members.
- H. Size each section of grating to weigh not more than 100 pounds, unless otherwise indicated in the Contract Documents.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine conditions under which Work is to be performed and notify ENGINEER in writing of conditions detrimental to proper and timely completion of the Work. Do not proceed with installation until unsatisfactory conditions are corrected.
- B. Check all dimensions at the Site after piping and equipment are in place and determine exact locations of openings and cutouts.

3.2 INSTALLATION

- A. Fastening to In-Place Construction:
 - 1. Use anchorage devices and fasteners to secure aluminum grating to supporting members or prepared openings, as recommended by manufacturer.
 - 2. Weld Type 316 stainless steel stud bolts to receive saddle clip or flange block anchors to supporting steel members. Drill for machine bolts when supports are aluminum.

- B. Cutting, Fitting, and Placing:
 - 1. Perform cutting, drilling and fitting required for installation. Set the Work accurately in location, alignment and elevation, plumb, level, true, and free of rack. Do not use wedges or shimming devices.
 - 2. Where gratings are penetrated by piping, electrical conduit, ducts, structural members, or similar protrusions, cut openings neatly and accurately to size and attach banding bar as specified.
 - 3. Divide panels into sections only to extent required for installation where aluminum grating is to be installed around previously installed piping, electrical conduit, ducts, structural members, or similar protrusions.

- C. Aluminum gratings in concrete floors shall be removable and arranged in sizes to be readily lifted. Provide aluminum gratings in concrete with aluminum angle frames with mitered corners and welded joints. Grind exposed joints smooth. Frames shall have welded anchors set into concrete. Angle size shall match grating depth selected for flush fit.

- D. Clearance at ends or between sections of grating shall be a maximum of 1/4-inch.

- E. Tops of aluminum gratings shall be set flush with surrounding construction.

- F. Aluminum gratings shall be set with full and uniform end bearing on frames to preclude rocking movement; do not use wedges or similar shimming devices.

- G. Protection of Aluminum from Dissimilar Materials: Coat aluminum surfaces in contact with dissimilar materials such as concrete, masonry, steel, or other metals, in accordance with Section 09 91 00, Painting.

+ + END OF SECTION + +

SECTION 40 66 53

MULTIPLE ADDRESS RADIO EQUIPMENT

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope of work:

1. RADIO SYSTEM SUPPLIER shall provide all labor, materials, equipment and incidentals as shown, specified and required to furnish, install, configure, test, start-up and place in satisfactory operation the telemetry system at the Smithfield Waste Water Treatment Plant (SWWTP) and nine Smithfield Pump Stations. The telemetry system shall be completely compatible and interoperable with the Process Control System (PCS) installed at the Service Center and the Barber's Hollow Wastewater Treatment Plant.
2. In order to centralize responsibility, it is required that all equipment provided under this Section be furnished by a single supplier as specified in Article 1.2, below. RADIO SYSTEM SUPPLIER shall guarantee and be the source of information on all equipment furnished regardless of the manufacturing and supply source of the equipment.
3. Electrical Work: All equipment, materials, and appurtenances, as well as all signal and power wiring and cable runs and interconnections, shall be in strict accordance with the requirements of Section 26 05 00, Electrical Work, unless specified otherwise herein.
4. Specific Information is provided below:
 - a. I/O Point Requirement: RADIO SYSTEM SUPPLIER shall provide a Telemetry Panel for each site with the number of Input/Output (I/O) points as described in Section 40 61 93, Process Control System Input Output Schedule. CONTRACTOR shall be responsible for installation of Telemetry Panel and termination of power and field wiring to the enclosures.
 - b. Enclosures:
 - 1) Except as noted below, radios (modems) and all related components shall be installed in Telemetry Panels (by RADIO SYSTEM SUPPLIER).
 - 2) Provide separate radio enclosures where shown on Drawings for the sites listed in the Control Panel Schedule in Section 40 67 17, Process Control Panels and Enclosures. Radio enclosure shall be in accordance with the requirements of Section 40 67 17, Process Control Panels and Enclosures. Furnish CAT6 cable to be installed by CONTRACTOR between PLC and Telemetry Panel.

5. RADIO SYSTEM SUPPLIER shall be responsible for all installation and wiring details required for the radio telemetry equipment only, unless otherwise noted.
6. RADIO SYSTEM SUPPLIER shall coordinate with the CONTRACTOR, to install all items in a separate enclosure.
7. Provide the quantity shown of licensed 220 MHz radio (modems) for each of the following locations, with the features described in Article 1.6 and below.
 - a. Smithfield WWTP
 - b. 9 Smithfield Pump Stations.
8. The existing radio telemetry equipment shall remain in place under this contract and shall operate separately from the new telemetry equipment.

1.2 QUALITY ASSURANCE

- A. Qualifications:
 1. RADIO SYSTEM SUPPLIER shall have at least fifteen years' experience in the installation of PCS telemetry systems in similar geographic areas. RADIO SYSTEM SUPPLIER shall be certified by the radio manufacturer as a Full Service Channel Partner representative in the state of Ohio.
- B. All equipment provided under this Section shall be furnished by a single supplier who shall assume responsibility for providing a complete fully functional and integrated telemetry system.
- C. Conform to OSHA requirements during antenna installation at each site.
- D. The radio system supplier shall be:
 1. J&K Communications, Inc.
222 South Tower View Drive
Columbia City, IN 46725.
(260) 244-7975
 2. Or equal.

1.3 SUBMITTALS

- A. Comply with the requirements of Section 40 61 13, Process Control Systems General Provisions.
- B. Antenna pole and/or tower foundation(s) and support structures design calculations and drawings.

1.4 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. All equipment shall be stored in accordance with the manufacturers' recommendations prior to installation.

1.5 GENERAL COMMUNICATION FUNCTIONAL REQUIREMENTS

- A. Each radio shall support the establishment of a data communication network utilizing licensed radio.
- B. The telemetry system shall be capable of bidirectional transfer of data between radios located at Sites specified herein. Each unit shall support the standard Master/Slave polling configuration. However, due to the point to multi-point nature of the proposed system, each unit must support quiescent operation and initiate data transmissions under the following configurable conditions:
 - 1. Report by exception, whereby any unit will initiate transmission upon a defined exception condition.
 - 2. Time Interval Transmission, whereby any unit will initiate transmission at predefined time intervals.

1.6 RADIO NETWORK FUNCTIONAL REQUIREMENTS

- A. The topography of the Telemetry System service area does not permit direct line of sight radio paths to all remote Sites from any one location. As a result, the radio network shall provide data routing between radios to establish multiple-hop routes, overcoming local terrain. If alternative radio equipment is proposed, it will be necessary to submit an alternative radio architecture connectivity diagram as part of the Shop Drawing submittals. The connectivity diagram must show the paths available for transmission of communications for each remote Site.
- B. It shall be possible to interface with any radio in the network directly from a radio/processor interface computer or from laptop computers anywhere within the telemetry network, directly over the radio network. All radio communication shall be encrypted.

PART 2 - PRODUCTS

2.2 220 MHZ LICENSED RADIOS

- A. The 220 MHz licensed radios shall operate under CFR, Part 90 rules for licensed radio operation in the 200 MHz frequency band. The radio shall utilize a licensed frequency pair.
- B. Radio shall contain an Ethernet (IEEE 802.3) interface for connection to other equipment.
- C. Manufacturers: Provide one of the following:
 - 1. MDS SD Series, as manufactured by GE Digital Energy.
 - 2. Or equal.

2.3 ANTENNAS

- A. Antennas and ground impulse suppressors shall be furnished for each Site as required. Antennas for non-integrated equipment shall be compatible with radios specified herein.
- B. Antenna mounting at each Site shall be determined by RADIO SYSTEM SUPPLIER at the time of installation, based on the physical propagation study of the terrain referenced in Article 1.1.A.4.a, above.

2.4 ANTENNA TRANSMISSION CABLE AND ACCESSORIES

- A. The transmission cable connecting the radio antenna port with the antenna shall be the low-loss foam-dielectric coaxial type. A single continuous piece of coaxial cable shall be furnished for each radio and antenna assembly. For coax runs exceeding 100 feet in length, furnish 7/8-inch diameter cable (Andrew LDF5-50A, or equal), minimum.
- B. Provide one 3-foot section of super flexible transmission cable for coax interconnection at the radio antenna port (one for each radio). Provide standard Type N connectors at each end, which will mate with the radio and the transmission cable.
- C. Provide two Type N connectors for terminating both ends of each transmission cable.
- D. Provide two coaxial cable grounding kits for each radio. Provide Andrew, or equal.
- E. Provide one in-line coaxial cable surge protector for each cable. Provide Polyphaser, or equal, with Type N connector mating.
- F. Provide Andrew coaxial cable hanger kits and clamping hardware. Adequate kits shall be installed to anchor the cables at three foot intervals on the vertical antenna mast/tower.
- G. All outdoor coaxial connectors shall be wrapped with two layers of Scotch Super 88 UV resistant tape or equal, and then coated with two layers of Scotch-Kote or equal.

2.5 RADIO ANTENNA MASTS OR POLES

- A. All antennas shall be mounted on antenna masts or poles. RADIO SYSTEM SUPPLIER shall determine mast or pole height based on field conditions and the results of the field propagation study. RADIO SYSTEM SUPPLIER shall make every effort to mount the antennas at the minimum allowable height so as to minimize the impact of the antenna on the surrounding environment. Location

and height of the antenna shall be such that a 99.9% uptime shall be guaranteed year round with a 15-year design goal. Final locations and height of antenna pole or masts shall be approved by OWNER prior to installation.

B. Material of Construction:

1. Masts: Provide masts for applications with less than 10 foot antenna mounting heights above building structure and can be rigidly supported from the building structure. Masts shall be constructed of minimum 2” rigid, heavy walled aluminum pipe, or of minimum 2” heavy walled fiberglass pipe as required for structural integrity in outdoor applications. Masts shall be anchored in at least two locations. Route communication cables through mast to a weather head located on top of the mast. Antenna shall be mounted to mast.
2. Poles: Provide poles for applications where antenna height exceeds the requirements of Paragraph 1, above. RADIO SYSTEM SUPPLIER shall be responsible for design of pole and foundation. Design calculations and drawings shall be signed and sealed by a professional engineer licensed in the State of Ohio.
 - a. Poles for antenna heights at or less than 30 feet above finished grade shall be an ANSI Class 4 treated wood pole, or better. Antenna pole shall be capable of supporting the antenna load at wind speeds up to 100 mph. Antenna pole shall be buried vertically at least six feet and set in concrete using a concrete form as recommended by the pole manufacturer.
 - b. Poles for antenna heights greater than 30 feet above finished grade shall be non-guyed (i.e., free standing) monopoles constructed of advanced composite materials. Pole shall be direct embedded a minimum of 10% of the pole height plus two feet, unless otherwise required to be deeper by the manufacturer. Where communication cables are routed within the hollow pole, provide suitable strain relief at top of pole and abrasion protection where penetrating pole. Pole shall be as manufactured by RS Technologies, or equal.
3. Mounting Hardware and Fasteners: Mounting Hardware and Fasteners shall be stainless steel, unless otherwise noted on the Drawings or in the Specifications.

2.6 SPARES

A. Provide the following spare equipment:

1. Minimum of one spare for each radio type provided with the system. The radios shall be suitable for installation at any of the telemetry Sites in the system. For each spare radio provide communication cables.
2. Minimum of one spare for each antenna type provided with the system.

B. The spare parts shall be packed in sturdy containers with clear indelible identification markings and shall be stored in a dry, warm location until transferred to the OWNER at the conclusion of the Project.

PART 3 - EXECUTION

3.1 TELEMETRY SYSTEM INSTALLATION

- A. RADIO SYSTEM SUPPLIER shall be responsible for the installation of all radio equipment.

3.2 TELEMETRY SYSTEM CONFIGURATION/PROGRAMMING

- A. Telemetry System shall be configured and programmed according to requirements set forth in this Section.

3.3 TELEMETRY SYSTEM FIELD TESTING

- A. Telemetry System shall be field tested in accordance with requirements set forth in Section 40 61 23, Process Control System Start-up and Field Testing.

3.4 TELEMETRY SYSTEM TRAINING

- A. Telemetry System training shall be provided in accordance with the requirements set forth in Section 40 61 26, Plant Monitoring and Control System Training.

++ END OF SECTION ++

Questions from Addendum #1:

- 1 Q 1) How much sludge volume is expected in the lagoons total?
- A Refer to Addendum #2 for information provided by Owner. Bidders may perform their own investigation, sampling and testing of the lagoon contents by making arrangements with Owner.**
- 2 Q 2) What if there is more than the estimated volume? Say maybe double? If so, is the fairest way to bid sludge removal per dry ton if going to a landfill?
- A Refer to Addendum #2 for information provided by Owner. Bidders may perform their own investigation, sampling and testing of the lagoon contents by making arrangements with Owner.**
- 7 Q 7) Is Land Application being proposed? And If so, will the contractor have to secure ground, screen the product for inorganics (plastics) and treat the biosolids to meet pathogen and vector attraction results?
- A The Contractor is responsible to determine disposal method, in accordance with applicable regulations.**
- 9 Q 9) The tops of the liners show significant wear. What will happen if after removing the biosolids it is determined that the lagoon liners need replaced?
- A If it is determined by Owner that the lagoon liners need replaced, this will be addressed during construction.**

New Questions - numbering continued from Addendum #1

- 12 Q In the specification section 40 66 53-1 in section 4.b.2 it calls for the radio enclosures to be near the base of the antenna structures and run fiber between the radio and plc enclosure. The E-02 drawing shows the radio enclosure being mounted to the outside wall of the Operations building and the E-07 Typical Pump Station Site Plan show the radio enclosure being mounted next the plc enclosure on the Pump Station structures. Please advise as to whether fiber optic cable is required.
- A Please refer to Addendum #2.**
- 13 Q In the specification section 40 66 53-2 in section 7 it calls for licensed 4.9GHz radios at the WWTP and Pump Stations. The radio system only uses 4.9 GHz for the back haul links and 220 MHz for the remote sites. The Smithfield Tank has 4.9GHz to it and an 220 MHz AP currently installed. I have provided a 220 MHz propagation study for the Plant and Booster Station to communicate directly to the Tank. I would also like to state that the FCC has had a freeze on the 4.9GHz for over a year, please advise.
- A Please refer to Addendum #2.**

- 14 Q I've looked through these drawings again and don't see what fixtures are needed; could you reply on the fixtures required ?
- A There are no new light fixtures in this Project. Specification 26 50 00 – Lighting is being removed from the Bidding Documents. The "Lighting Panel" shown on Drawing E-07 should be labeled "Panelboard".**
- 15 Q Is there a spec for the new hatch that is to be installed over the new UV equipment?
- A There will not be a hatch over the new UV units, but rather aluminum grating. Please refer to Addendum #2.**
- 16 Q Regarding Question 6 of Addendum 1, what is the flow rate and quantity of potable water that will be made available by the owner?
- A The existing potable waterline at the Site is 1 1/2" diameter feeding the Control Building; this line can be tapped by Contractor, but Owner provides no guarantee of the volume or pressure available from this line. If more potable water than is available at the Site is needed, the Owner will allow Contractor to fill trucks at the County Garage site along SR 151/Main Street from a new fire hydrant where the new Smithfield Water Tank is located. The Owner will not charge Contractor for such water. Contractor must coordinate truck filling with Owner, and must provide proper backflow protection, including an air gap.**