



July 6, 2026

Terry McNabb
AquaTechnex
PO Box 30824
Bellingham, WA 98228

Subject: *Notice of Award – Lacamas Lake Treatment 2026*

Dear Terry McNabb,

The purpose of this letter is to advise you that your company was awarded the contract for the above-referenced project at the City Council Meeting on July 6, 2026, at your bid price of \$232,288.00 including sales tax.

Please submit the following items at your earliest convenience:

- Name and Email of person signing contract (will be sent via DocuSign)
- ACORD Certificate of Insurance specifically naming the following as additional insured:
 - The City of Camas and its officers, elected officials, employees, agents, and volunteers
- Letter identifying your superintendent and two after-hours emergency telephone numbers

Please contact Brian Monnin at (360) 817-1563 ext. 4221 or bmonnin@cityofcamas.us with any comments or questions.

Sincerely,

Scott Collins
Public Works Director

cc: File, Brian Monnin,



"Advancing the Science of Lake Management"

Headquarters
P.O. Box 30824
Bellingham, WA 98228
Tel: (360) 527-1271
www.aquatechnex.com

Scope of Work

The Scope of Work is organized into four tasks: Task 1 – Notification of Residents and Businesses; Task 2 – Lacamas Lake Alum Application #1; Task 3 – Lacamas Lake Alum Application 2; and Task 4 – Lacamas Lake Alum Application #3. Each of the three alum applications assumes the application of approximately 16,372.5 gallons of liquid alum.

Task 1. Task 1. Notification of Residents and Businesses

Objective

The objective of this task is to complete all resident and business notification and shoreline sign posting required under the APAM General Permit prior to each alum treatment, ensuring that affected property owners, residents, businesses, and the public are informed of treatment activities and any associated water use restrictions.

Activities

- Prepare and distribute resident and business notifications to all waterfront residents and businesses within one-quarter (1/4) mile in each direction along the lake shoreline. Notification will be provided by mail, newsletter, or handbills delivered directly to the residences or businesses at least 10 days (and no more than 42 days) before the first treatment of the year.
- Prepare notifications using the Ecology Business and Residential Notice template. The notice will explain the treatment schedule for the season and will note that, because Lacamas Lake has a history of cyanobacterial blooms, algae treatment may occasionally occur outside the scheduled time periods without prior notice depending on bloom conditions.
- Email the address list and a copy of the notice to AWR (zoe@annearwaterresources.com); the City, Brian Monnin (BMonnin@cityofcamas.us); Ecology (apampreposttreat@ecy.wa.gov); and the Department of Natural Resources (dnrreais@dnr.wa.gov) no later than one business day following public distribution.
- Post shoreline signage no more than 48 hours before treatment at all private properties and public access shoreline areas within 400 feet of the treatment area, and at public boat launches within one-quarter (1/4) mile of the treated area. Signage will conform to the APAM sign template for phosphorus sequestration product application.
- Maintain signage in place until the end of each treatment, and remove signs thereafter.

Assumptions

- Notification and sign posting will be completed by the Applicator for the planned 2026 treatments.
- Notification templates and the APAM sign template will follow the current Ecology-approved formats.
- The City and AWR will be copied on notification submittals to Ecology and DNR.

- The public notification will be provided to the City for posting on the City website.
- The cost to post signage around the lake will include printing, mobilization, and posting.

Deliverables

- Copies of distributed resident and business notices and the associated address list.
- Confirmation of email transmittal of the notice and address list to Ecology and DNR.

Task 2. Lacamas Lake Alum Application #1

Objective

The objective of this task is to apply alum to Lacamas Lake in the 2026 treatment season, in mid July 2026, in accordance with the Lacamas Lake Treatment Plan and the APAM General Permit, achieving the prescribed phosphorus sequestration dose while maintaining lake water pH within permit-specified limits and protecting aquatic life.

Activities

- Conduct daily on-site field (jar) testing prior to the start of applications each day to confirm that the alum dose, and buffer ratio (if a buffer is used), does not result in lake water pH values outside permit specifications, and to confirm that delivered chemicals meet project and permit specifications. Daily testing will follow the protocols in the APAM General Permit, including collection of lake water from within the planned treatment area at 0-0.5 m depth, dosing of test containers with a control, and measurement of pH at set intervals (e.g., 5, 15, 30, and 60 minutes).
- Apply approximately 16,372.5 gallons of liquid alum to the target treatment area using GPS-guided, boat-mounted subsurface injection to achieve even distribution across the treatment area at depth or surface fan jet application.
- Add buffer as needed to maintain lake water pH between 6.0 and 8.5; stop application and add buffer if lake pH drops to 6.2 or lower. A buoy with continuous pH monitoring will be deployed to meet in situ pH monitoring requirements.
- Conduct water quality monitoring during application, including in situ pH and vertical sonde profiles (temperature, pH, dissolved oxygen, and conductivity), in accordance with the APAM General Permit.
- Record GPS tracks/coverage maps, application rates, injection depth, weather and wind conditions, and field notes throughout the application.

Assumptions

- The final dose and treatment area will be finalized in the Lacamas Lake Treatment Plan prepared by AWR under a separate scope.
- Buffer will be available on-site and applied if needed to maintain pH within permit limits.
- Pre-treatment and post-treatment monitoring (other than the during-treatment monitoring noted above) will be conducted by the AWR team under a separate scope.

Deliverables

- Daily on-site field-testing logs, including pH results.
- Applicator treatment summary containing the product/chemistry, application method and conditions, actual application amounts, delivery truck tickets, GPS coverage data, and during-treatment water quality results described above.
- Field notes and photographs taken during treatment.

Task 3. Lacamas Lake Alum Application #2

Objective

The objective of this task is to apply a second alum treatment to Lacamas Lake in the 2026 treatment season, in early September 2026, in accordance with the Lacamas Lake Treatment Plan and the APAM General Permit, achieving the prescribed phosphorus sequestration dose while maintaining lake water pH within permit-specified limits and protecting aquatic life

Activities

- Conduct daily on-site field (jar) testing prior to the start of applications each day to confirm that the alum dose, and buffer ratio (if a buffer is used), does not result in lake water pH values outside permit specifications, and to confirm that delivered chemicals meet project and permit specifications. Daily testing will follow the protocols in the APAM General Permit, including collection of lake water from within the planned treatment area at 0-0.5 m depth, dosing of test containers with a control, and measurement of pH at set intervals (e.g., 5, 15, 30, and 60 minutes).
- Apply approximately 16,372.5 gallons of liquid aluminum sulfate to the target treatment area using GPS-guided, boat-mounted subsurface injection or fan jet application to achieve even distribution across the treatment area at depth.
- Add buffer as needed to maintain lake water pH between 6.0 and 8.5; stop application and add buffer if lake pH drops to 6.2 or lower. A buoy with continuous pH monitoring will be deployed to meet in situ pH monitoring requirements.
- Conduct water quality monitoring during application, including in situ pH and vertical sonde profiles (temperature, pH, dissolved oxygen, and conductivity), in accordance with the APAM General Permit.
- Record GPS tracks/coverage maps, application rates, injection depth, weather and wind conditions, and field notes throughout the application.

Assumptions

- The final dose and treatment area will be finalized in the Lacamas Lake Treatment Plan prepared by AWR under a separate scope.
- Buffer will be available on-site and applied if needed to maintain pH within permit limits.
- Pre-treatment and post-treatment monitoring (other than the during-treatment monitoring noted above) will be conducted by the AWR team under a separate scope.

Deliverables

- Daily on-site field-testing logs, including pH results.
- Applicator treatment summary containing the product/chemistry, application method and conditions, actual application amounts, delivery truck tickets, GPS coverage data, and during-treatment water quality results described above.
- Field notes and photographs taken during treatment.

Task 4. Lacamas Lake Alum Application #3

Objective

The objective of this task is to apply a third alum treatment to Lacamas Lake in the 2027 treatment season, before June 30, 2027, in accordance with the Lacamas Lake Treatment Plan and the APAM General Permit, achieving the prescribed phosphorus sequestration dose while maintaining lake water pH within permit-specified limits and protecting aquatic life

Activities

- Conduct daily on-site field (jar) testing prior to the start of applications each day to confirm that the alum dose, and buffer ratio (if a buffer is used), does not result in lake water pH values outside permit specifications, and to confirm that delivered chemicals meet project and permit specifications. Daily testing will follow the protocols in the APAM General Permit, including collection of lake water from within the planned treatment area at 0-0.5 m depth, dosing of test containers with a control, and measurement of pH at set intervals (e.g., 5, 15, 30, and 60 minutes).
- Apply approximately 16,372.5 gallons of liquid aluminum sulfate to the target treatment area using GPS-guided, boat-mounted subsurface injection or fan jet application to achieve even distribution across the treatment area at depth.
- Add buffer as needed to maintain lake water pH between 6.0 and 8.5; stop application and add buffer if lake pH drops to 6.2 or lower. A buoy with continuous pH monitoring will be deployed to meet in situ pH monitoring requirements.
- Conduct water quality monitoring during application, including in situ pH and vertical sonde profiles (temperature, pH, dissolved oxygen, and conductivity), in accordance with the APAM General Permit.
- Record GPS tracks/coverage maps, application rates, injection depth, weather and wind conditions, and field notes throughout the application.

Assumptions

- The final dose and treatment area will be finalized in the Lacamas Lake Treatment Plan prepared by AWR under a separate scope.
- Buffer will be available on-site and applied if needed to maintain pH within permit limits.
- Pre-treatment and post-treatment monitoring (other than the during-treatment monitoring noted above) will be conducted by the AWR team under a separate scope.

Deliverables

- Daily on-site field-testing logs, including pH results.
- Applicator treatment summary containing the product/chemistry, application method and conditions, actual application amounts, delivery truck tickets, GPS coverage data, and during-treatment water quality results described above.
- Field notes and photographs taken during treatment.

Schedule

Work under this Scope of Work will be conducted during the 2026 and 2027 treatment season. The schedule will depend on the date of contract execution, anticipated to be July 6, 2026, and on Applicator availability. But the ability to mobilize for the July treatment will be considered favorably. The target is to complete the first alum application (Task 2) by mid-July and the second alum application (Task 3) in late August of 2026. The third alum application (Task 4) must be completed by June 30, 2027. All work under this Scope of Work must be completed by June 30, 2027.

Budget

The budget is provided in the table below. The 2026 treatments will be performed in July and August. The 2027 treatment will be performed prior to June 30th.

2026 Lacamas Lake Treatment Budget - AquaTechnex

Acres Treated	185		
Dose (gallons/acre)	88.5		
Total Gallons	16372.5		
Cost Category	Units	Cost/unit	Total
Public Notification and Lake Signage			
Public Notification and Lake Signage 2026	1	\$ 1,000.00	\$ 1,000.00
Public Notification and Lake Signage 2027	1	\$ 1,000.00	\$ 1,000.00
Treatment #1			
Alum (gallons) plus freight	16400	\$ 2.50	\$ 41,000.00
Freight Full Load	4	\$ 1,250.00	\$ 5,000.00
Monitoring	1	\$ 1,500.00	\$ 1,500.00
Buffer	1	\$ 1,000.00	\$ 1,000.00
MOB and Application	1	\$ 22,000.00	\$ 22,000.00
Treatment #2			
Alum (gallons) plus freight	16400	\$ 2.50	\$ 41,000.00
Freight Full Load	4	\$ 1,250.00	\$ 5,000.00
Monitoring	1	\$ 1,500.00	\$ 1,500.00
Buffer	1	\$ 1,000.00	\$ 1,000.00
MOB and Application	1	\$ 22,000.00	\$ 22,000.00
Treatment #3			
Alum (gallons) plus freight	16400	\$ 2.50	\$ 41,000.00
Freight Full Load	4	\$ 1,250.00	\$ 5,000.00
Monitoring	1	\$ 1,500.00	\$ 1,500.00
Buffer	1	\$ 1,000.00	\$ 1,000.00
MOB and Application	1	\$ 22,000.00	\$ 22,000.00
		Subtotal	\$ 213,500.00
		Tax (8.8%)	\$ 18,788.00
		Total	\$ 232,288.00