

May 12, 2025

Terence Acquah
Village of Homewood
2020 Chestnut Road
Homewood, IL 60430

RE: Proposal for Water Quality Testing, Monitoring, and Pond Survey at Prairie Lakes

Dear Terence,

Fehr Graham is pleased to provide this proposal for water quality testing, sediment sampling, a pond survey, and regulatory reporting for the Prairie Lakes Stormwater Detention Facility in Homewood, Illinois. These services aim to establish baseline data for Prairie Lakes, in compliance with Best Management Practices (BMPs) for stormwater retention and urban pollution for NPDES and MS4s (Illinois Pollution Control Board Rules and Regulations 35 Ill. Adm. Code, Subtitle C, Chapter 1).

SCOPE OF SERVICES

The following tasks outline the approach to completing the above-referenced project:

Task 1: Water and Sediment Testing

Objective: Establish baseline sediment and water quality conditions in the Prairie Lakes Stormwater Detention Facility. Laboratory testing will follow MS4 sampling guidelines for measuring pollutant concentrations over time, sediment monitoring, and site-specific monitoring. Testing will aim to satisfy MS4 monitoring requirements and investigate other potential avenues of contamination within the Prairie Lakes detention facility that may be generated off-site.

» **Subtasks:**

- Conduct three (3) water sampling events between June and December 2025 to capture early summer algal bloom conditions and nutrient peaks, post-bloom conditions in the early fall, and low flow/base conditions in the winter. Sediment sampling will only occur during the 2nd (early fall) sampling period.
- Collect water quality grab samples for:
 - Nutrients (Total Nitrogen, Nitrate, Total Phosphorus, Orthophosphate).
 - TSS (Total Suspended Solids).
 - Chlorophyll-a (biological proxy for algae blooms).
 - Fecal coliforms.
 - Chlorides.
 - Metals (Dissolved Iron, Dissolved Arsenic, Dissolved Cadmium.
 - Dissolved Lead, Mercury - low-level).
- Measure field parameters (dissolved oxygen, temperature, pH, conductivity, turbidity) at each location during sampling events.
- Collect discrete sediment samples only once at all locations, excluding the mid-lake and outlet structure, for:
 - Metals (Including Barium, Lead, Iron, and Arsenic — based on past data).
 - PAHs (Polynuclear Aromatic Hydrocarbons: including Benzo[a]pyrene and Fluoranthene).
 - Grain size for sediment transport.
- Conduct visual inspections of algal blooms and water sheens when present.

» **Assumptions:**

- Sampling will occur at seven (7) locations: the northwest biofilter area, the western biofilter area, the southeast inlet/settling basin area, the northeastern drainage area, a mid-pond location near the outlet structure, and a storm sewer manhole downstream of Homewood Disposal.
- Water quality only, not sediment, will be taken at the mid-lake location, where algal growth potential is the primary concern.
- Water quality only, not sediment, will be taken at the outlet structure to determine the final water quality leaving the subject property before reaching downstream waters.
- Water quality only, not sediment, will be taken at the Homewood Disposal manhole to determine the water quality of the stormwater leaving this specific facility of concern.
- Homewood Disposal allows Fehr Graham access to their storm sewer manhole structure to the southeast of the facility.
- One storm event water quality sample will be taken between June and September after a rain event of ≥ 0.25 inches to capture nutrients first flushing from nearby stormwater drainage.
- Only one sediment sampling event will occur due to the absence of significant substrate disturbances caused by high flow or construction within the pond.

» **Deliverables:**

- Field data logs.
- Laboratory analysis reports.
- Detailed report summarizing findings, methodology, QA/QC procedures, and providing recommendations for remediation, management, or continued monitoring if necessary. The report will also recommend general health and safety controls if necessary.

Water and Sediment Sampling Lump Sum Fee: \$54,000

Task 2: Regulatory Monitoring and Compliance Report

Objective: Document monitoring results and compliance with standards for evaluating BMPs for urban pollution in a concise technical memorandum.

» **Subtasks:**

- Draft a monitoring plan with sampling frequencies aimed at ensuring that seasonal conditions of the facility are captured.
- Compare laboratory and sampling results to local, state, or federal standards and document any parameter exceedances.
- Include a narrative, figures, and applicable regulatory context.

» **Assumptions:**

- No follow-up modeling or stakeholder response is anticipated.
- Any exceedances or violations encountered as a result of the sampling will not be remediated by Fehr Graham under the scope of this proposal.

» **Deliverables:**

- Provide the Village of Homewood and the IEPA with a copy of the analytical results and the narrative comparing them to the applicable regulatory standards.

Regulatory Monitoring and Compliance Reporting Lump Sum Fee: \$10,000

Task 3: Pond Survey for Water and Sediment Depths

Objective: Assess sediment buildup within the retention pond resulting from urban runoff from the surrounding area not captured by the wetland biofilters, as well as sediment from eroded banks.

» **Subtasks:**

- Survey the water and sediment depth around the pond to create a bathymetric layout exhibiting the current conditions.

» **Assumptions:**

- Fehr Graham will be able to access all areas of the pond.
- No significant dredging, construction, or substrate removal and disturbance will occur during this project.

» **Deliverables:**

- A Computer-Aided Design (CAD) exhibit displaying the pond and sediment depth around the facility, to determine if sediment buildup is occurring and where it is occurring.

Pond Survey and Bathymetric Profile Lump Sum Fee: \$16,000

EXCLUSIONS

- » Civil engineering design plans and scoping for mechanical alterations to the pond, outlet structure, or adjacent outfalls for chemical pollutants, which may be encountered.
- » Stormwater modeling and hydraulic studies pertaining to the retention time of urban stormwater inputs.
- » A landscape assessment and maintenance plan are not part of the scope of work.
- » Geotechnical borings outside of the Prairie Lakes retention basin and vegetated wetland biofilters.

FEES

We propose completing the above scope of work for a total lump sum fee of \$80,000. The payment will be made in four (4) installments, and a milestone progress report update will be made after the second payment installment. This proposal shall be considered null and void if not executed before August 1, 2025.

SCHEDULE

We anticipate this process to be completed by the end of calendar year 2025, with all documentation prepared and ready for IEPA submittal and review. To meet this deadline, we have made the following assumptions:

- » The work can be scheduled to avoid inclement weather and at a day and time mutually agreed upon by both Fehr Graham and the Client.
- » The scope of work detailed above will not be modified significantly prior to or during implementation.

ADDITIONAL SERVICES

Additional support for tasks outside the scope of services will be provided per mutual written agreement referencing this Proposal.

AUTHORIZATION

Should this proposal meet your objectives, please indicate your authorization to proceed by signing the enclosed Agreement for Professional Services and returning it to our office.

We appreciate this opportunity to serve you and look forward to working with you on this project. If you have any questions or comments concerning the enclosed, please do not hesitate to contact our office.

Sincerely,



Matthew Drabik
Project Manager



Chris DeSilva
Chief Operating Officer

MTD:kk
Enclosure



Client Terence Acquah
Village of Homewood
2020 Chestnut Road
Homewood, IL 60430

Description of Services:

Proposal for Water Quality Testing, Monitoring, and Landscape Maintenance at Prairie Lakes

Fehr Graham will complete the scope of services as outlined in the proposal dated May 12, 2025, included herein.


COST:

The fixed fee for performing the above services is \$80,000

The attached General Conditions are incorporated into and made a part of this Agreement.

ACCEPTED AND AGREED TO:

I/we, the undersigned, authorize Fehr Graham to provide services as outlined above, and also agree that I/we are familiar with and **ACCEPT THE TERMS OF THE ATTACHED GENERAL CONDITIONS.**

CLIENT:	CONSULTANT:
Signature _____	By  _____
Name _____	Name <u>Chris DeSilva, PE</u>
Title _____	Title <u>Chief Operating Officer</u>
Date Accepted _____	Date Proposed <u>May 12, 2025</u>
	25-687

GENERAL CONDITIONS TO AGREEMENT FOR PROFESSIONAL SERVICES

1. The Client requests the professional services of Fehr Graham hereinafter called "The Consultant" as described herein.
2. The Consultant agrees to furnish and perform the professional service described in this Agreement in accordance with accepted professional standards. Consultant agrees to provide said services in a timely manner, provided, however, that Consultant shall not be responsible for delays in completing said services that cannot reasonably be foreseen on date hereof or for delays which are caused by factors beyond his control or delays resulting from the actions or inaction of any governmental agency. Consultant makes no warranty, expressed or implied, as to his findings, recommendations, plans and specifications or professional advice except that they were made or prepared in accordance with the generally accepted engineering practices.
3. It is agreed that the professional services described in the Agreement shall be performed for Client's account and that Client will be billed monthly for said services. A 1½% per month service charge will be incurred by Client for any payment due herein and not paid within 30 days of such billing which is equal to an ANNUAL PERCENTAGE RATE OF 18%. Partial payments will be first credited to the accrued service charges and then to the principal.
4. The Client and the Consultant each binds himself, his partners, successors, executors, and assigns to the other party to this Agreement and to the partners, successor, executors, and assigns of such other party in respect to this Agreement.
5. The Client shall be responsible for payment of all costs and expenses incurred by the Consultant for his account, including any such monies that the Consultant may advance for Client's account for purposes consistent with this Agreement.
6. The Consultant reserves the right to withdraw this Agreement if not accepted within 30 days.
7. A claim for lien will be filed within 75 days of the date of an invoice for services (last day of services rendered) unless the account is paid in full or other prior arrangements have been made. All attorney fees incurred by the Consultant due to the filing of said lien or the foreclosure thereof shall be borne by the Client.

In the event suit must be filed by Consultant for the collection of fees for services rendered, Client will pay all reasonable attorney's fees and court costs.

If Client defaults in payment of fees or costs due under the terms of this Agreement and Consultant incurs legal expenses as a result of such failure, Client shall be responsible for payment for Consultant's reasonable attorney fees and costs so incurred.

8. The Consultant shall present, for the consideration of the Client, engineering and technical alternatives, based upon its knowledge and experience in accordance with accepted professional standards, with selection of alternatives and final decisions as requested by the client to be the sole responsibility of the Client.
9. Construction Phase Activities (When applicable) - In connection with observations of the work of the Contractor(s) while it is in progress the Consultant shall make visits to the site at intervals appropriate to the various stages of construction as the Consultant deems necessary in Agreement to observe as an experienced and qualified design professional the progress and quality of the various aspects of the Contractor(s)'s work. Based on information obtained during such visits and on such observation, the Consultant shall endeavor to determine in general if such work is proceeding in accordance with the Contract Documents and the Consultant shall keep the Client informed of the progress of the work.

The purpose of the Consultant's visits to the site will be to enable the Consultant to better carry out the duties and responsibilities assigned to and undertaken by the Consultant during the Construction Phase, and, in addition, by exercise of the Consultant's efforts as an experienced and qualified design professional, to provide for the Client a greater degree of confidence that the completed work of the Contractor(s) will conform generally to the Contract Documents and that the integrity of the design concept as reflected in the Contract Documents has been implemented and preserved by the Contractor(s). The Consultant shall not, during such visits or as a result of such observations of Contractor(s)' work in progress, supervise, direct or have control over Contractor(s)' work nor shall the Consultant have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected by Contractor(s), for safety precautions and programs incident to the work of Contractor(s) or for any failure of Contractor(s) to comply with laws, rules, regulations, ordinances, codes, or orders applicable to Contractors(s) furnishing and performing their work. Accordingly, the Consultant can neither guarantee the performance of the construction contracts by Contractor(s) nor assume responsibility for Contractor(s)' failure to furnish and perform their work in accordance with the Contract Documents.

10. Estimates of Fees – When fees are on a time and material basis the estimated costs required to complete the services to be performed are made on the basis of the Consultant's experience, qualifications, and professional judgment, but are not guaranteed. If the costs appear likely to exceed the estimate in excess of 20%, the Consultant will notify the Client before proceeding. If the Client does not object to the additional costs within seven (7) days of notification, the increased costs shall be deemed approved by the Client.
11. The Consultant is responsible for the safety on site of his own employees. This provision shall not be construed to relieve the Client or the Contractor(s) from their responsibility for maintaining a safe work site. Neither the professional services of the Consultant, nor the presence of his employees or subcontractors shall be construed to imply that the Consultant has any responsibility for any activities on site performed by personnel other than the Consultant's employees or subcontractors.
12. Original survey data, field notes, maps, computations, studies, reports, drawings, specifications and other documents generated by the Consultant are instruments of service and shall remain the property of the Consultant. The Consultant shall provide copies to the Client of all documents specified in the Description of Services.

Any documents generated by the Consultant are for the exclusive use of the Client and any use by third parties or use beyond the intended purpose of the document shall be at the sole risk of the Client. To the fullest extent permitted by law, the Client shall indemnify, defend and hold harmless the Consultant for any loss or damage arising out of the unauthorized use of such documents.

13. No claim may be asserted by either party against the other party unless an action on the claim is commenced within two (2) years after the date of the Consultant's final invoice to the Client.
14. If a Client's Purchase Order form or acknowledgment or similar form is issued to identify the agreement, authorize work, open accounts for invoicing, provide notices, or document change orders, the preprinted terms and condition of said Purchase Order shall be superseded by the terms hereof.
15. Standard of Care – Services performed by Consultant under this agreement will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. No other representation expressed or implied, and no warranty or guarantee is included or intended in any report, opinion or document under this agreement.
16. Liability Insurance – Consultant will maintain such liability insurance as is appropriate for the professional services rendered as described in this Agreement. Consultant shall provide Certificates of Insurance to Client, upon Client's request, in writing.
17. Indemnification and Limitation of Liability – Client and Consultant each agree to indemnify and hold the other harmless, including their respective officers, employees, agents, members, and representatives, from and against liability for all claims, costs, losses, damages and expense, including reasonable attorney's fees, to the extent such claims, losses, damages or expenses are caused by the indemnifying party's acts, errors or omissions.

The Client understands that for the compensation herein provided Consultant cannot expose itself to liabilities disproportionate to the nature and scope hereunder. Therefore, the Client agrees to limit Consultant's liability to the Client arising from Consultant's professional acts, errors or omissions, such that the total aggregate liability of Consultant shall not exceed \$50,000 or Consultant's total fee for services rendered on this Project, whichever is less.

18. Allocation of Risk – Consultant and Client acknowledge that, prior to the start of this Agreement, Consultant has not generated, handled, stored, treated, transported, disposed of, or in any way whatsoever taken responsibility for any toxic substance or other material found, identified, or as yet unknown at the Project premises. Consultant and Client further acknowledge and understand that the evaluation, management, and other actions involving toxic or hazardous substances that may be undertaken as part of the Services to be performed by Consultant, including subsurface excavation or sampling, entails uncertainty and risk of injury or damage. Consultant and Client further acknowledge and understand that Consultant has not been retained to serve as an insurer of the safety of the Project to the Client, third parties, or the public.

Client acknowledges that the discovery of certain conditions and/or taking of preventative measures relative to these conditions may result in a reduction of the property's value. Accordingly, Client waives any claim against Consultant and agrees to indemnify, defend, and hold harmless Consultant and its subcontractors, consultants, agents, officers, directors, and employees from any claim or liability for injury or loss allegedly arising from procedures associated with environmental site assessment (ESA) activities or the discovery of actual or suspected hazardous materials or conditions. Client releases Consultant from any claim for damages resulting from or arising out of any pre-existing environmental conditions at the site where the work is being performed which was not directly or indirectly caused by and did not result from, in whole or in part, any act or omission of Consultant or subcontractor, their representatives, agents, employees, and invitees.

If, while performing the Services set forth in any Scope of Services, pollutants are discovered that pose unanticipated or extraordinary risks, it is hereby agreed that the Scope of Services, schedule, and costs will be reconsidered and that this Agreement shall immediately become subject to renegotiation or termination. Client further agrees that such discovery of unanticipated hazardous risks may require Consultant to take immediate measures to protect health and safety or report such discovery as may be required by law or regulation. Consultant shall promptly notify Client upon discovery of such risks. Client, however, hereby authorizes Consultant to take all measures Consultant believes necessary to protect Consultant and Client personnel and the public. Furthermore, Client agrees to compensate Consultant for any additional costs associated with such measures.

19. In the event of legal action to construe or enforce the provisions of this agreement, the prevailing party shall be entitled to collect reasonable attorney fees, court costs and related expenses from the losing party and the court having jurisdiction of the dispute shall be authorized to determine the amount of such fees, costs and expenses and enter judgment thereof.
20. Assignment - Neither party to this Agreement shall, without the prior written consent of the other party, which shall not be unreasonably withheld, assign the benefit or in any way transfer its obligations under this Agreement or any part hereof; provided, however, either Party may freely assign this Agreement to a parent, subsidiary or affiliate without the other party's consent. This Agreement shall inure to the benefit of and be binding upon the parties hereto, and except as otherwise provided herein, upon their executors, administrators, successors, and assigns.
21. Termination – The obligation to provide further services under this Agreement may be terminated by either party upon seven (7) days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party. In the event of any termination, Consultant will be paid for all services rendered to the date of receipt of written notice of termination, at Consultant's established chargeout rates, plus for all Reimbursable Expenses including a 15% markup.
22. Provision Severable – The unenforceability or invalidity of any provisions hereof shall not render any other provisions herein contained unenforceable or invalid.
23. Governing Law and Choice of Venue – Client and Consultant agree that this Agreement will be governed by, construed, and enforced in accordance with the laws of the State of Illinois. If there is a lawsuit, Client and Consultant agree that the dispute shall be submitted to the jurisdiction of the Illinois District Court in and for Stephenson County, Illinois.