



August 31, 2022

Mr. Tim Callanan  
County Manager  
Effingham County, Georgia  
804 South Laurel Street  
Springfield, Georgia 31329

**RE: Cost Estimate for Soil and Groundwater Sampling**  
Former Atlas Sand Facility  
216 Shady Oaks Drive  
Guyton, Georgia

Dear Mr. Callanan,

Trammco Environmental Solutions, LLC (Trammco) appreciates the opportunity to provide Effingham County (the Client) with this proposal to conduct soil and groundwater sampling related activities at the former Atlas Sand facility located at 216 Shady Oaks Drive in Guyton, Georgia (the Site). The proposed scope of work for these services is based on our recent phone correspondence and will include soil sampling, groundwater sampling, preparation of figures and tables, and development of alternative cleanup standards. Detailed discussions of the sampling event will be included in future Brownfield and/or Voluntary Remediation Program (VRP) deliverables. A letter summarizing alternative cleanup standards, estimated volume of soil removal for each alternative standard, and estimated cap size for each alternative standard will be prepared.

### **Project Understanding**

It's Trammco's understanding that the proposed activities outlined in this proposal are intended to assist the Client in meeting regulatory requirements and better define the potential volume of impacted soil that may need to be relocated or removed from the Site as part of remediation activities.

### **Proposed Scope of Work**

Trammco will collect soil and groundwater samples to help design the overall remediation strategy. The scope of work will include the following:

- Trammco will develop a Health and Safety Plan outlining potential safety concerns at the Site and responses.
- Trammco will cut and remove the locks from the twelve (12) on-Site shallow monitoring wells. Once the locks are removed, Trammco will visually inspect the wells. Trammco will utilize a submersible pump to redevelop the wells. This will be accomplished by pumping three to five well volumes or until the turbidity levels appear to decrease. Well development water will be placed in dedicated 55-gallon drums for temporary storage. Depending on analytical results from each well, the water maybe discharged to the ground or transported off-Site to an approved disposal location. Once each of the wells have been properly developed, they will be allowed twelve (12) to 24 hours to stabilize prior to sampling.

Groundwater samples will be collected from each well using a low flow low stress sampling method (peristaltic pump) and dedicated tubing to reduce the potential for cross contamination. Field parameters will be collected using properly calibrated equipment prior to initiating sampling activities and will include turbidity, pH, dissolved oxygen, conductivity, ORP, and temperature. Groundwater samples will be placed in clean, laboratory supplied containers with appropriate preservative.

- Groundwater samples will be analyzed by a NELAC-certified laboratory for total and dissolved Metals (As, Ba, and Pb) using appropriate EPA Methods
- Trammco will contact 811 to locate public utilities on the Site.
- Drill locations (that is, soil sample locations) will be georeferenced on a figure (GPS coordinates) and Trammco personnel will utilize a handheld GPS unit to locate sample locations in the field.
- Approximately 20 soil borings will be advanced in select locations to specific depths (approximately 2-10 feet below land surface) based on sampling locations and analytical data generated by previous consulting firms. Each boring location will be cleared using a hand auger prior to drilling using equipment. Based on the depth and anticipated soil conditions, Trammco anticipates utilizing direct push technology to collect soil samples from specific depths using a macro-core sampler and PVC liners. Once removed from the boring, the liners will be opened and screened for lithology and visual anomalies. Soil samples will be collected in clean, laboratory prepared containers. Downhole drilling tools will be decontaminated between borings using a phosphate-free detergent solution and a water rinse.

- Soil samples will be analyzed by a NELAC-certified laboratory using Totals and SPLP analysis for select Metals (As, Ba, and Pb), using the appropriate EPA Methods.
- Each of the borings will be backfilled with soil and bentonite to the ground surface.
- Trammco will evaluate the groundwater and soil data to determine if and at what concentrations the metals in soils may leach into groundwater. This evaluation will help in designing the soil cap and will dictate what soils will need to be relocated on the site or transported to an approved off site facility for disposal.
- Trammco will transmit preliminary results upon receipt of the laboratory data. Data tables and figures will be generated for discussion purposes.

### **Estimated Schedule and Cost**

Trammco will complete the tasks outlined in this proposal on a time and material basis. The estimated cost to complete these tasks is \$19,500. If Site or other conditions change that might impact this cost range, Trammco will notify client immediately. Attached is a rate sheet showing our billing rates and pass-through charges.

### **Assumptions**

- Trammco will have full access to the Site at the time of the sampling activities.
- If significant environmental concerns, beyond those listed above, are discovered during the sampling event, Trammco will contact the client to discuss the potential for additional sampling.
- This proposal assumes that soil samples can be collected using direct push methods. If drilling refusal is encountered, other drill methods may be required.
- If the client desires to stop work for any reason, a partial payment will be assessed for any work completed.

### **Schedule**

Trammco is currently scheduled to conduct the field work on September 8 and 9, 2022. It is anticipated that the laboratory report will be received within 2 weeks of completion of field activities. Data tables and figures can be generated within about a week of receipt of the laboratory data. Trammco will supply documents to the Client, and we recommend a conference call with the Client and outside counsel to discuss the information.

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Trammco shall strive to complete the project activities as efficiently and cost effectively as possible. Upon receipt of a purchase order, we are available to commence work immediately. If Site conditions change or if additional work outside of the scope of work occurs, Trammco will notify the Client immediately. If you have any questions or require additional information, please do not hesitate to contact me at (404) 788-8606 or [matt@trammco.com](mailto:matt@trammco.com).

Sincerely,



Matthew Trammell  
Principal



## TRAMMCO RATE SHEET

TES services will be billed on a time and material basis based upon the applicable Task Order and following the specific hourly rates below. Direct expenses will be invoiced at the rates listed below.

Labor Classifications	Hourly Rate
Principal	\$195
Senior Engineer/Geologist	\$185
Senior Project Manager	\$185
Engineer	\$165
Project Manager	\$165
Geologist/Sr. Scientist	\$155
Senior Field Supervisor	\$125
Staff Scientist	\$120
Field Manager	\$105
Field Technician	\$95
CAD Operator	\$85
Office/Clerical/Accounting	\$65
Direct Expenses	Rate
Auto Mileage	Current IRS Rate
Equipment Rental	Actual + 10%
Other Direct Expenses	Actual + 10%
Subcontractor/Outside Services	Actual + 10%