

RESOLUTION NO. 2016-55

WHEREAS, the Township Council of the Township of Aberdeen is in need of professional engineering LSRP services associated with Strathmore Area Pump Station; and

WHEREAS, Michael McClelland, CME Associates submitted a proposal on January 15, 2016 for aforementioned engineering services.

NOW, THEREFORE, BE IT RESOLVED by the Township Council of the Township of Aberdeen that the Mayor And Clerk are authorized to execute an agreement with CME Associates for a cost not to exceed the sum of \$39,670.00, in accordance with a proposal dated January 15, 2016, attached hereto and made part of this resolution.

This agreement is made without competitive bidding as a “professional service” under the provisions of the Local Public Contracts Law, N.J.S.A. 40A:11-5(1)a(I).

BE IT FURTHER RESOLVED that this resolution is subject to the Township Manager’s certification of availability of Township of Aberdeen funds.



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BEHRAM TURAN, PE, LSRP

January 15, 2016

Ms. Holly Reycraft, Township Manager
Township of Aberdeen
One Aberdeen Square
Aberdeen, New Jersey 07747

**RE: Proposal – Additional LSRP Services
Strathmore Area Pump Station
Block 6 Lot 50.02
Township of Aberdeen, Monmouth County
Our File No.: PAB0314.02**

Dear Ms. Reycraft:

CME Associates, through its Environmental Division, Icon Engineering, has prepared the following proposal for environmental services for additional LSRP services to complete the remedial investigation and prepare a remedial action workplan for the Strathmore Area Pump Station site. Pursuant to the remediation timeframe requirements at N.J.A.C. 7:26C-3.2 and an approved timeframe extension request, a final Remedial Investigation Report must be submitted to the NJDEP by May 7, 2016.

Background

Several contaminated areas of concern have been identified on the site as documented in the *Preliminary Assessment Report* (January 2006) and the *Site Investigation Report* (July 2013). Soil, sediment, and groundwater are contaminated at concentrations above applicable remediation standards. The Township retained Behram Turan, P.E., LSRP of CME Associates as the Licensed Site Remediation Professional (LSRP) to direct remedial activities at the site. A remedial investigation to determine the extent of contamination in all impacted media is being conducted in accordance with the *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E). Pursuant to the remediation timeframe requirements at N.J.A.C. 7:26C-3.2 and an approved timeframe extension request, a final Remedial Investigation Report must be submitted to the NJDEP by May 7, 2016.

Scope of Work

Additional LSRP services are required to complete the remedial investigation in accordance with the *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) and applicable NJDEP guidance. The objective of the proposed additional investigation is to complete the evaluation of each contaminated area of concern and collect the information needed to assess remedial options.

Sampling will be performed in compliance with the NJDEP Field Sampling Procedures Manual (August 2005, updated April 2011) and the quality assurance requirements at N.J.A.C. 7:26E-2.1. All samples will be delivered to a State certified laboratory for analysis with standard turnaround time.



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Task 1: Drum Disposal

Approximately ten (10) drums of monitoring well soil cuttings and well development water are labeled "non-hazardous" and stored in sealed steel 55-gallon drums on an asphalt-paved area in front of the Maintenance Garage building. The drummed waste will be properly disposed offsite in compliance with applicable regulations. Note that for budgeting purposes we assume the waste to be contaminated but non-hazardous.

Task 2: Groundwater Investigation

Previous investigations identified tert-butyl alcohol (TBA) at concentrations above the Ground Water Quality Standards (GWQS; N.J.A.C. 7:9C) in monitoring well MW-2. Historically, chlorinated volatile compounds were also detected in the groundwater at well MW-1.

To confirm the findings of the above groundwater conditions, two additional (2) rounds of groundwater samples will be collected from the five (5) groundwater monitoring wells using a standard volume-based purge method. Samples will be analyzed for volatile organic compounds (VO+15). Quality control samples, including field blanks, laboratory trip blanks, and duplicate samples will also be collected and analyzed.

Task 3: Additional Soil Investigations

Soil contamination is present in several AOCs at concentrations above applicable remediation standards. Soil samples will be collected using direct-push Geoprobe boring equipment, unless otherwise stated. Soils will be screened visually and with a calibrated photo-ionization detector (PID) for indications of contamination, and samples will generally be biased to the 6-inch interval of greatest suspected contamination. Quality control samples, including field blanks, laboratory trip blanks, and duplicate samples will also be collected and analyzed.

- AOC-3: Former Drywell

Soil samples collected from this AOC contained benzo(a)pyrene and ideno(1,2,3-cd)pyrene concentrations above the SRS at three (3) to 3.5 feet bgs in June 2014 and at 6-6.5 in July 2012. The contamination is not fully delineated. Due to the presence of the subsurface sanitary sewer force main in the vicinity of this AOC, only two (2) of the five (5) proposed soil samples were able to be collected in June 2014 using the Geoprobe® machine in this AOC. Eight (8) discrete soil samples will be collected from four (4) soil borings advanced in this AOC and analyzed for PAH compounds. The soil borings will be installed manually to avoid damage to the force main.

- AOC-7: Former Sludge and Aeration Basin

Elevated benzo(a)pyrene soil concentrations above the NJDEP residential direct contact SRS were detected in soil samples from within the filled basin area and have been delineated. Arsenic and



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vanadium were detected in this AOC at concentrations above the residential direct contact SRS in fill soils throughout former sludge and aeration basin area, but is not fully delineated. The thickness of the fill layer is variable and extends down to 13 feet in some locations. Twelve (12) additional soil borings will be advanced manually to vertically and horizontally delineate the extent of the fill area (and affected soil) beyond the filled basin area perimeter. To fully delineate metal affected soils in AOC-7 and establish a background arsenic soil concentration, soils will be screened for indications of contamination, and 24 discrete soil samples will be collected and submitted for arsenic and vanadium analyses.

- AOC-10
Chlordane, arsenic, and vanadium were detected at concentrations above the direct contact SRS in the area of disturbed soils behind the maintenance garage. Concentrations of aluminum, dieldrin, beryllium, lead, and mercury are below direct contact SRSs but above IGWSSLs. Based on sample results, arsenic was detected above the NJDEP residential direct contact SRS at various depths, and lead was detected in surficial soils at concentrations above the default IGWSSL (and below NJDEP residential direct contact SRS) throughout this AOC. A site-specific Impact to Groundwater Soil Remediation Standard (IGWSRS) will be calculated for lead using previously collected data. Further soil sampling is recommended to establish a background arsenic concentration for the site. Ten (10) discrete soil samples will be collected in AOC-10 for arsenic analyses.

Task 4: Updated Receptor Evaluation and Well Search

Based on the investigation results, an updated site receptor evaluation and well search will be prepared in accordance with N.J.A.C. 7:26E-1.12.

Task 5: Remedial Investigation Report

A Remedial Investigation Report will be prepared in accordance with the Technical Requirements for Site Remediation (N.J.A.C. 7:26E-4.9). The report will include reference maps, site historical information, physical setting description, technical overview of sampling, sample location plans, analytical summary tables, laboratory reports, and electronic data deliverables. The report will present findings and recommendations with regard to additional remedial activities.

Budget

The budget for completion of the proposed scope of work is estimated at **\$39,670** as follows:

Task Description	Amount
Task 1: Drum Disposal	\$2,460
Task 2: Groundwater Investigation	\$9,090
Task 3: Additional Soil Investigation	\$17,160



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Task 4: Updated Receptor Evaluation & Well Search	\$1,490
Task 5: Remedial Investigation Report	\$9,470
Total	\$39,670

The above costs include an estimated **\$12,320** for subcontracted work (Geoprobe, equipment, and laboratory).

Limitations

The scope of work is limited to the tasks outlined above. Additional investigation and/or remediation required to comply with the *Administrative Requirements for the Remediation of Contaminated Sites* (ARRCS; N.J.A.C. 7:26C) and the *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) is not included in this proposal. If additional investigation and/or remediation are required to comply with applicable regulations, a separate cost proposal will be submitted for consideration. We assume that Aberdeen Township will directly pay the annual remediation fees for the case.

SPECIAL CONDITIONS FOR LSRP SERVICES

- The enactment of the Site Remediation Reform Act (SRRA; N.J.S.A. 58:10C-1 et seq) on May 7, 2009, and the adoption of the *Administrative Requirements for the Remediation of Contaminated Sites* (ARRCS; N.J.A.C. 7:26C) on November 4, 2009 require that all new remediation cases follow the provisions of SRRA. A key requirement of these rules is that a Licensed Site Remediation Professional (LSRP) must oversee all new remediation cases.
- The ARRCS requires the person responsible for conducting a remediation to notify the NJDEP of any confirmed discharges of contaminants or condition of Immediate Environmental Concern ("IEC"). Please note that being an LSRP, as a State licensed professional, I will thus have the obligation to report any such conditions to the NJDEP without obtaining any prior approval from the client.
- LSRP will provide the required services in accordance with SRRA and has the obligation to submit, maintain and preserve the relevant documents.
- LSRP is not responsible for client's failure to disclose relevant information, perform SRRA obligations, fund remediation, and follow LSRP's recommended actions. Client's failure to perform these obligations may result in fines/penalties by the NJDEP.
- The issuance of RAO by LSRP is not a guarantee or warranty that the site is free of contamination, or that it will be accepted by the NJDEP.



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- NJDEP may audit the RAO within three (3) years after the date the LSRP filed the RAO with the NJDEP. LSRP is not responsible for additional requirements imposed by NJDEP after review/audit, except to the extent they arise out of LSRP's negligence.

Scheduling

Work on the project will begin immediately following authorization. The documents will be forwarded to the Township for signing and notarization; CME will then submit to the NJDEP.

Your return of a signed copy of this proposal indicating your acceptance to the terms and conditions presented herein will represent your authorization for us to proceed.

CME Associates takes great pride in our commitment to personal service and our ability to successfully address our clients' interests. We look forward to working with the Township of Aberdeen and its staff on this project. We trust the information as contained herein addresses your requirements.

Should you have any questions regarding this matter, please do not hesitate to contact this office.

Very truly yours,

Michael J. McClelland, P.E.
Office of the Township Engineer

MM/BT/aa

cc: Behram Turan

ACCEPTED: _____

THIS _____ DAY OF _____, 2016

ATTESTED BY: _____

THIS _____ DAY OF _____, 2016