

# CITY OF HIGH POINT

## AGENDA ITEM



### **Title: Kersey Valley Landfill – Groundwater Assessment Monitoring Program**

**From:** Terry Houk – Public Services Director  
Robby Stone – Asst. Director Public Services

**Meeting Date:** April 15, 2019

**Public Hearing:** N/A

**Advertising Date:** N/A  
**Advertised By:** On-Call

**Attachments:** Proposal for Environmental Services  
Sole Source Form

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### **PURPOSE:**

The City budgets for ongoing groundwater assessment and monitoring as required by the operating permit for the Kersey Valley Landfill. Monitoring has been conducted as required by the NC Division of Waste Management. Recently, the NC Division of Waste Management has identified additional contaminants for testing. The contaminant's testing criteria, laboratory requirements, frequency and monitoring needs have evolved and require changes to the current monitoring program.

### **BACKGROUND:**

The NC Division of Waste Management has mandated additional monitoring requirements that exceed the current and past requirements. The additional requirements are a result of broadening the testing criteria. More frequent and additional testing limits are needed to adhere to the NC Division of Waste Management requirements. Babbs & Associated, P.A. have been conducting the groundwater monitoring program at the Kersey Valley Landfill and have been instrumental in acting as a liaison between the city and state with the monitoring changes while advocating for the city.

### **BUDGET IMPACT:**

Funds for the groundwater assessment monitoring are in the Solid Waste Operating budget.

### **RECOMMENDATION / ACTION REQUESTED:**

The Public Services Department recommends approval of the contract and asks for the Council to award Babb & Associates, P.A. in the amount of \$39,300.00.



Financial Services

Purchasing Division



Requisition #

**CITY OF HIGH POINT  
SOLE SOURCE JUSTIFICATION  
FORM** (For Items Costing \$5000.00 or More)  
Statutory Reference N.C.G.S. 143-129(e)6

Vendor: **BABB & ASSOCIATES, P. A.**

Item(s): **GROUND WATER ASSESSMENT MONITORING**

Justification:

BABB & ASSOCIATES has provided this service for the Landfill for quite some time now and is in tune with any ongoing issues and typical/standard historical findings as well as NCDENR requirements associated with this site.

Estimated expenditure for the above item(s): **\$39,300.00 661741- Landfill**

CHECK ALL ENTRIES BELOW THAT APPLY TO THE PROPOSED PURCHASE.  
ATTACH A MEMO CONTAINING JUSTIFICATION AND SUPPORT DOCUMENTATION.

1. ☐ Performance or price competition for a product are not available.
2. ☐ A needed product is available from only one source of supply.
3. ☒ Standardization or compatibility is the overriding consideration.
4. ☐ The parts/equipment are required from this source to permit standardization.
5. ☐ None of the above applies. A detailed explanation and justification for this sole source request is contained in attached memo and support documentation.

The undersigned requests that competitive procurement be waived and that the vendor identified as the supplier of the material or service described in this sole source justification be authorized as a sole source for the material or service.

Department Head/Authorized Personnel

**Terry Houk**

Digitally signed by Terry Houk  
DN: cn=Terry Houk, o=City of High Point, ou=Public  
Services, email=terry.houk@highpointnc.gov, c=US  
Date: 2019.04.03 12:38:47 -0400

Department/Division

**Landfill**

Date

**4/3/19**

Approval Process

Under \$5,000 (Purchasing Manager)

\$5,000-\$30,000 (Financial Services Director)

\$30,000 – Up (City Council)

**Erik Conti**

Digitally signed by Erik Conti  
DN: cn=Erik Conti, o, ou, email=erik.conti@highpointnc.gov, c=US  
Date: 2019.04.03 14:18:47 -0400

**Bobby Fitzjohn**

Digitally signed by Bobby Fitzjohn  
DN: cn=Bobby Fitzjohn, o=City of High Point, ou=Financial Services,  
email=bobby.fitzjohn@highpointnc.gov, c=US  
Date: 2019.04.04 08:10:07 -0400

**Greg Demko**

Digitally signed by Greg Demko  
Date: 2019.04.05 09:58:16 -04'00'



March 21, 2019

Mr. Robby D. Stone, P.E.  
City of High Point, Public Services  
P.O. Box 230  
High Point, North Carolina 27261

Re: Proposal for Environmental Services  
Groundwater Assessment Monitoring Program  
Kersey Valley MSWLF, High Point, NC

Dear Mr. Stone:

At your request, Babb & Associates has prepared the following cost estimate for implementation and reporting of a Groundwater Assessment Monitoring Program at the Kersey Valley MSWLF. The assessment activities are in response to correspondence from the NC Division of Waste Management – Solid Waste Section dated January 18, 2019 (attached). The following activities and costs are estimated for project completion:

#### Background Sampling

- Sample two upgradient wells (MW-1 & MW-13S) for select inorganics (cobalt, vanadium, antimony, beryllium, and thallium)
- Five Quarterly events, three of which will correspond with semi-annual monitoring events.
- Perform statistical analysis to establish background concentrations.
- Use passive sampling techniques for two events to evaluate methodology.
- Cost estimate - \$3,500

#### Appendix II Monitoring

- Sample all monitoring wells in network for Appendix II list of compounds.
- Sample all surface water locations for Appendix I compounds + 1,4-dioxane.
- Sample leachate for Appendix I compounds + 1,4-dioxane
- Cost estimate - \$26,200

(continued on next page)

Groundwater Assessment

- Replace MW-9 with a deeper well (35' deep with 15' of screen)
- Cost estimate - \$6,000

Prepare Groundwater Assessment Report

- Cost estimate - \$3,600

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Total Estimated Project Cost	\$ 39,300.00
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Babb & Associates, P.A. appreciates this opportunity to propose environmental services to the City of High Point. If there are any questions regarding this proposal, please contact me at (919) 325-0696.

Respectfully,

Babb & Associates, P.A.



Gary D. Babb, P.G.  
President





ROY COOPER  
*Governor*

MICHAEL S. REGAN  
*Secretary*

MICHAEL SCOTT  
*Director*

January 18, 2019

Sent via email to [mike.spencer@highpointnc.gov](mailto:mike.spencer@highpointnc.gov)

Mr. Mike Spencer, Solid Waste Superintendent  
City of High Point MSWLF  
P.O. Box 230  
High Point, NC 27261

RE: City of High Point Kersey Valley MSWLF  
Permit # 4104-MSWLF-1991  
Guilford County FID # 1275840

Dear Mr. Spencer:

The NC Solid Waste Section has completed a review of the October 2018 Water Quality Monitoring Report submitted electronically by the City of High Point's consultant Babb & Associates on December 26, 2018. Prior to that, a 14-day notification of values exceeding a groundwater protection standard was submitted for the constituent 1,4-dioxane on December 4, 2018.

Based on the laboratory data submitted in the Water Quality Monitoring report, 1,4-dioxane was reported at a concentration of 12 ug/L in MW-9 on October 24, 2018 and was detected again at a concentration of 12 ug/L in MW-9 during a November 16, 2018 re-sampling event, exceeding the NC 2L standard of 3.0 ug/L for 1,4-dioxane. 1,4-dioxane was also detected in three surface water sampling points.

Additionally, cobalt was detected in 2 downgradient wells at concentrations above the NC Interim Maximum Allowable Concentration (IMAC) standard of 1.0 ug/L and vanadium was detected in 5 downgradient wells at concentrations exceeding the NC IMAC standard of 0.3 ug/L.

The 2L exceedance of 1,4-dioxane in MW-9 and IMAC exceedances of cobalt and vanadium in multiple wells at the facility require additional investigation. The facility can calculate new site-specific statistically-derived background concentrations for the metals in groundwater using a minimum of ten samples with turbidity values less than 10 NTUs collected from the upgradient background well, MW-1. After new site-specific statistical background concentrations have been calculated, the facility may then compare the metals exceedances detected in the downgradient wells to the new statistically-calculated background standard for each metal in the upgradient well.

Because the City of High Point Kersey Valley MSWLF is an active, lined MSWLF with a potentially continuous and ongoing source of contamination for the 1,4-dioxane detected in the groundwater, the facility is required to implement the assessment monitoring program in accordance with 15A NCAC .1634 Assessment Monitoring Program.

Please submit a Groundwater Assessment Plan to address the groundwater exceedances within 90 days of receipt of this letter. If you have any questions or comments please contact me by email at [christine.ritter@ncdenr.gov](mailto:christine.ritter@ncdenr.gov) or by phone at (919) 707-8254.

Sincerely,



Christine Ritter  
Hydrogeologist  
Environmental Compliance Branch  
NC Solid Waste Section

Cc: Adam Ulishney, Environmental Compliance Branch Head, NC SWS  
Ming Chao, Permitting Branch Engineer, NC SWS  
Jason Watkins, Field Operations Branch Head, NC SWS  
Chuck Kirchner, Senior Environmental Specialist, NC SWS  
Gary Babb, Babb & Associates