

ORDINANCE NO. 19-10

**AUTHORIZING PROFESSIONAL SERVICES AGREEMENT
WITH TETRA TECH, INC.
(2019 Continued Environmental Consulting and Engineering Services for
Final Closure of City Landfill)**

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF COLLINSVILLE, that the Mayor is authorized to execute a professional services agreement in an amount not to exceed \$35,731 with Tetra Tech, Inc., 1634 Eastport Plaza, Collinsville, Illinois, for continued professional environmental engineering and consulting services of 2019 relating to the closed City landfill.

Said agreement is attached hereto and made a part hereof by reference.

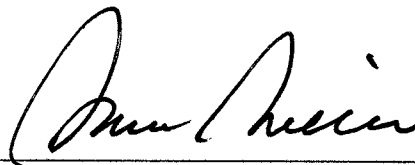
PASSED by the City Council of the City of Collinsville, Illinois, on February 25, 2019.

Ayes: Jerome, Brombolich, Stehman, Green, Miller

Nays: None


Absent: None

Approved: February 25, 2019



John Miller, Mayor

ATTEST:


Kimberly Wasser, City Clerk



February 15, 2019

Mr. Dennis Kress
City of Collinsville
Director of Water/Wastewater
300 Simpson St
Collinsville, IL 62234

Subject: Proposal for the Continuation of Engineering Services at the Closed Collinsville Landfill for 2019

Dear Mr. Kress:

Tetra Tech, Inc. is pleased to provide this time and materials proposal to the City of Collinsville (the City) for continuation of engineering services at the Closed Collinsville Landfill. Services described in this proposal include the final paperwork for the end of post-closure care at the Closed Collinsville Landfill.

2018 TASKS PERFORMED

The work performed in 2018 as a part of the 2018 scope of services and budget included:

- Submitted the 2017 Groundwater Assessment Monitoring and Trending Analysis Report (2017 data) on January 29, 2018. The report was approved as Supplemental Permit No. 2018-040-SP;
- Collected the 2018 annual groundwater samples on October 22, 2018 and resampling of specific parameters occurred on November 14, 2018 and December 17, 2018;
- Performed trending analysis for 14 parameters;
- Initiated validation of the extensive analytical database and began formatting the data for electronic data submittal; and
- Began preparation of the 2018 Annual Groundwater Assessment Report (submitted January 29, 2019).

Out of Scope Activities Performed in 2018

A number of activities were performed in 2018 that were not included in the scope of services associated with the 2018 budget. The purposes of the additional tasks were to support site closure and meet IEPA permit and closure requirements. With economy of resources and labor, Tetra Tech performed these activities within the 2018 budget. In fact, there is more than \$2,000 left in the budget which we will put toward the next invoice. The extra services performed within the 2018 budget are identified below.

- Recollected groundwater samples for a number of parameters (1,4-Dioxane, Total dissolved solids, chlorinated herbicides, boron and chloride) in November and December of 2018 from MW-1, MW-2, MW-4, and MW-6 to verify seasonal trends in the data. Data were trended before and after each re-sampling event. The extra sampling, analysis and trending performed confirmed that pre and post-landfill contaminant concentrations in 2018 did not impact the quality of the groundwater at the landfill.
- Throughout the year, clarified and discussed the sequence of final closure tasks and landfill and Environmental Land Use Control (ELUC) issues with the Illinois Environmental Protection Agency (IEPA), the City and the City's attorney for landfill issues. Additionally, Tetra Tech reviewed several versions of the ELUC prohibiting residential land use and damage to the landfill cap. ELUCs were finalized and recorded with the County Clerk's office in 2018

Tasks performed in January 2019 included: completion of verification of 2018 data and submittal to IEPA in special electronic format, finalization of 2018 trending results, tables, and the text of the report, submittal of the 2018 report. The report, data review and data submission were within the scope of services associated with the 2018 budget. Tetra Tech made every effort to economize and provide the City with the best value for the services provided. However, validating and database formatting of 31 additional parameters for five sample (155 additional parameters) was not captured in the 2018 proposal. An additional \$2800 was added to the 2018 budget for the analysis of the extensive list of parameters, but it did not cover the additional validation and formatting effort which approximately doubled compared to previous years.

2018 SUPPLEMENTAL PERMIT APPROVALS

From January 1, 2018 through December 31, 2018 IEPA issued one permit:

2017 Permits Issued for the Closed Collinsville Landfill

Permit Number	Date of IEPA Approval	Description	Document Submittal and IEPA Request for Extension for Review
2018-040-SP	7/24/15	The permit approves the 2018 annual report and addendum.	1/29/18 No extension requests from the IEPA.

No additional permit applications were submitted to IEPA in 2018. The 2018 Annual Groundwater Monitoring Report was submitted to IEPA as a permit application on January 29, 2018 and we are currently awaiting IEPA approval.

PROPOSED SCOPE OF FUTURE WORK

The last primary sampling event associated with the landfill occurred in October 2018. After the report submitted January 29, 2019 is approved by IEPA, Tetra Tech will submit the Affidavit for Certification of Post Closure-Care along with required historical monitoring information and a maintenance plan. Following receipt of the affidavit, the IEPA will perform a final inspection of the landfill including the leachate collection system and extraction wells, the monitoring wells and will survey the creek and landfill for problems such as seeps and erosion. Initially, IEPA will not approve the certification for the end of Post-Closure Care until the on-site wells are abandoned and the appropriate well abandonment paperwork is submitted. After submittal of the well abandonment information, the certification will be approved and the landfill will be permanently closed.

Tetra Tech has developed this proposal to address the requirements for termination of the landfill's period of post-closure. The proposed scope of work to address the tasks associated with the 2018 monitoring year and 2019 closure requirements include:

- **Task 1, Final Submittal of the 2018 Annual Groundwater Assessment Monitoring Report and Miscellaneous Tasks** - Activities include those performed in January 2019: final trending of the data using the Kendall-Mann Statistic, completion of validation and electronic database formatting, electronic data submittal, and final preparation, copying and submittal of the report as a supplemental permit application. This task includes miscellaneous 2019 closure activities. The anticipated miscellaneous tasks associated with final closure of the landfill are: assistance with preparing the landfill for the final IEPA inspection, response to potential IEPA negative findings associated with the inspection, review of the well abandonment report and other unanticipated tasks that may be required to expedite closure of the facility.
- **Task 2, Preparation of the Affidavit for Certification of Post-Closure Care and Associated paperwork** – Tetra Tech will complete the affidavit, obtain the required signatures, prepare a written summary of the data regarding all groundwater monitoring at the site with required statement associated with impacts to the area surrounding site, attach the Maintenance Plan (Task 3) and pertinent documents as required by IEPA, provide a Professional Engineer review and stamp of the submittal and submit four copies to IEPA.
- **Task 3, Assistance and Review of the Maintenance Plan** – Tetra Tech will prepare an outline for the City for the Maintenance Plan. The City will complete the plan and Tetra Tech will perform a review of the plan prior inclusion with the affidavit package.

PROPOSED COST

Tetra Tech proposes to perform this scope on a Time-and-Materials basis based on the estimates provided in Attachment A. Total Not-to-Exceed cost to perform the 2019 activities described above is \$35,731.00. Detailed costs for the individual tasks included in the scope of work are provided for your convenience. Summary costs for each task are:

2018 Project Cost Summary

Task	Description	Costs
1	Completion and final submittal of the 2018 Annual Groundwater Assessment Monitoring Report and Miscellaneous Tasks	\$15,672.00
2	Affidavit for Certification of Post-Closure Care	\$14,055.00
3	Framework for the Maintenance Plan and Final Review and PE Stamp	\$6,004.00
	Total Project Costs	\$35,731.00

The costs were based on the requirements for certification of Post-Closure Care and discussions with IEPA. Should conditions be encountered that change the scope of work or level of effort necessary to meet project objectives, the City will be notified immediately. No additional work beyond the proposed scope of work will be performed without the City's approval. Tetra Tech will perform additional activities, if requested, according to the fee schedule in place or as defined through future proposals to perform the additional work.

Tetra Tech appreciates the opportunity to provide the City of Collinsville with this proposal for the final closure activities for the landfill. If you have any questions regarding this proposal or would like to schedule a meeting to discuss the project, please call me at (618) 343-2318. Tetra Tech looks forward to final closure of the landfill. We appreciate our good working relationship with the City of Collinsville and hope to be of further assistance to you in the future.

Respectfully Submitted,



Nancy Dickens, L.P.G.
Project Manager/Geologist

Enclosures

Tetra Tech, Inc.
2019 Final Closure of the Landfill
Cost Estimate
February 15, 2019

COST ESTIMATE - 2019 GENERAL ENGINEERING SERVICES, COLLINSVILLE, ILLINOIS
COST SUMMARY SHEET

DIRECT LABOR	FY 2019 Total Hours	FY 2019 Rate	Cost
Program Manager/Senior PE	17.00	\$165.00	\$2,805.00
Project Manager	119.00	\$136.00	\$16,184.00
Engineering Engineer (Report Review)	24.00	\$155.00	\$3,720.00
Statistician/Data Validator/Reviewer	25.00	\$137.00	\$3,425.00
Senior Chemist	15.00	\$72.00	\$1,080.00
Project Geologist	20.00	\$110.00	\$2,200.00
Environmental Scientist	0.00	\$101.00	\$0.00
Contract Administrator	15.00	\$96.00	\$1,440.00
Drafting	15.00	\$75.00	\$1,125.00
Clerk/Copying	19.00	\$58.00	\$1,102.00
Data Manager	20.00	\$72.00	\$1,440.00
Total Direct Labor			\$34,521.00

General Engineering Services	
<i>End of Post Closure Care</i>	
Direct Labor	\$34,521.00
Other Direct Costs	\$1,210.00
Travel and Per Diem	\$0.00
Total Estimated Cost	\$35,731.00

FY 2019 Cost Summary By Task	
Task 1 - 2018 Report and Additional Tasks	\$15,672.00
Task 2 - Affidavit for Ending Post Closure Car	\$14,055.00
Task 3 - Maintenance Plan	\$6,004.00
	\$35,731.00

DIRECT COSTS AND SUBCONTRACTOR COSTS	Rate	No.	Cost
Reproduction/shipment of forms/reports to IEPA	\$500.00	2	\$1,000.00
Reproduction/shipment of letters	\$100.00	1	\$100.00
Fee @ 10%			\$110.00
Total Other Direct Costs			\$1,210.00

INDIRECT COSTS	Rate	No.	Cost
Mileage - Eastport Plaza to Landfill and back	\$0.510	0	\$0.00
Total Travel and Per Diem Cost			\$0.00

**2019 FINAL CLOSURE ACTIVITIES
CLOSED COLLINSVILLE LANDFILL
COLLINSVILLE, IL**

Final Preparation and Submittal of the 2018 Annual Report and Miscellaneous Tasks*

DIRECT LABOR	Rate	Hours	Cost
Program Manager/Senior PE	\$165.00	3.00	\$495.00
Project Manager	\$136.00	50.00	\$6,800.00
Engineering Engineer (Report Review)	\$155.00	10.00	\$1,550.00
Statistician/Data Validator/Reviewer	\$137.00	20.00	\$2,740.00
Senior Chemist	\$72.00	10.00	\$720.00
Project Geologist	\$110.00	-	\$0.00
Environmental Scientist	\$101.00	-	\$0.00
Contract Administrator	\$96.00	7.00	\$672.00
Drafting	\$75.00	5.00	\$375.00
Clerk/Copying	\$58.00	10.00	\$580.00
Data Manager	\$72.00	15.00	\$1,080.00
Total Direct Labor		130	\$15,012.00

DIRECT COSTS AND SUBCONTRACTOR COSTS	Rate	No.	Cost
Reproduction/shipment of forms/reports to IEPA	\$500.00	1	\$500.00
Reproduction/shipment of letters	\$100.00	1	\$100.00
Fee @ 10%			\$60.00
Total Other Direct Costs			\$660.00

INDIRECT COSTS	Rate	No.	Cost
Mileage - Eastport Plaza to Landfill and back	\$0.510	0	\$0.00
Total Travel and Per Diem Cost			\$0.00

General Engineering Services

Task 1 - 2018 Report and Miscellaneous Activities

Direct Labor	\$15,012.00
Other Direct Costs	\$660.00
Travel and Per Diem	\$0.00
Total Estimated Cost	\$15,672.00

**Miscellaneous tasks that will include:
Review of additional paperwork destined for IEPA such as the well abandonment report, comments from IEPA concerning their inspection of the landfill or other miscellaneous paperwork.*

**2019 FINAL CLOSURE ACTIVITIES
CLOSED COLLINSVILLE LANDFILL
COLLINSVILLE, IL**

Affidavit for Certification of Post-Closure Care for Non-Hazardous Waste Facilities and Associated Papework

DIRECT LABOR	Rate	Hours	Cost
Program Manager/Senior PE	\$165.00	8.00	\$1,320.00
Project Manager	\$136.00	45.00	\$6,120.00
Engineering Engineer (Report Review)	\$155.00	8.00	\$1,240.00
Statistician/Data Validator/Reviewer	\$137.00	5.00	\$685.00
Senior Chemist	\$72.00	5.00	\$360.00
Project Geologist	\$110.00	20.00	\$2,200.00
Environmental Scientist	\$101.00	-	\$0.00
Contract Administrator	\$96.00	5.00	\$480.00
Drafting	\$75.00	6.00	\$450.00
Clerk/Copying	\$58.00	5.00	\$290.00
Data Manager	\$72.00	5.00	\$360.00
Total Direct Labor		112	\$13,505.00

General Engineering Services	
<i>Task 2 - Certification of Post-Closure Care</i>	
Direct Labor	\$13,505.00
Other Direct Costs	\$550.00
Travel and Per Diem	\$0.00
Total Estimated Cost	\$14,055.00

DIRECT COSTS AND SUBCONTRACTOR COSTS	Rate	No.	Cost
Reproduction/shipment of forms/reports to IEPA	\$500.00	1	\$500.00
Reproduction/shipment of letters	\$100.00	0	\$0.00
Fee @ 10%			\$50.00
Total Other Direct Costs			\$550.00

INDIRECT COSTS	Rate	No.	Cost
Mileage - Eastport Plaza to Landfill and back	\$0.510	0	\$0.00
Total Travel and Per Diem Cost			\$0.00

**2019 FINAL CLOSURE ACTIVITIES
CLOSED COLLINSVILLE LANDFILL
COLLINSVILLE, IL**

Framework for the Maintenance Plan and Final Review and PE Stamp for Submittal

DIRECT LABOR	Rate	Hours	Cost
Program Manager/Senior PE	\$165.00	6.00	\$990.00
Project Manager	\$136.00	24.00	\$3,264.00
Engineering Engineer (Report Review)	\$155.00	6.00	\$930.00
Statistician/Data Validator/Reviewer	\$137.00	-	\$0.00
Senior Chemist	\$72.00	-	\$0.00
Project Geologist	\$110.00	-	\$0.00
Environmental Scientist	\$101.00	-	\$0.00
Contract Administrator	\$96.00	3.00	\$288.00
Drafting	\$75.00	4.00	\$300.00
Clerk/Copying	\$58.00	4.00	\$232.00
Data Manager	\$72.00	-	\$0.00
Total Direct Labor		47	\$6,004.00

General Engineering Services

**Task 3 - Maintenance Plan
Framework and Review**

Direct Labor	\$6,004.00
Other Direct Costs	\$0.00
Travel and Per Diem	\$0.00
Total Estimated Cost	\$6,004.00

DIRECT COSTS AND SUBCONTRACTOR COS	Rate	No.	Cost
Reproduction/shipment of forms/reports to IEPA	\$500.00	0	\$0.00
Reproduction/shipment of letters	\$100.00	0	\$0.00
Fee @ 10%			\$0.00
Total Other Direct Costs			\$0.00

INDIRECT COSTS	Rate	No.	Cost
Mileage - Eastport Plaza to Landfill and back	\$0.510	0	\$0.00
Total Travel and Per Diem Cost			\$0.00