



Office of the Town Clerk
Diane M. Wilhelm Town Clerk

Registrar of Vital Statistics

Records Management Officer

Marriage Officer

June 23, 2016

H2M Architects & Engineers
290 Broad Hollow Road
Suite 400 E
Melville, NY 11747

To whom it may concern:

Enclosed please find a certified copy of resolution #498 which was duly declared adopted by the Riverhead Town Board at the Regular Town Board meeting on June 21, 2016. Please be advised that the resolution states as follows:

RESOLUTION #498

AWARDS REQUEST FOR PROPOSAL FOR YOUNGS AVENUE LANDFILL POST CLOSURE INSPECTIONS. TESTING AND REPORTING ACTIVITIES AND AUTHORIZES SUPERVISOR TO EXECUTE AN AGREEMENT FOR SUCH SERVICES

Sincerely,

Diane M. Wilhelm
Town Clerk

DMW:cd

cc:

PWGC Strategic Environment Engineering Solutions
Lockwood, Kessler & Bartlett, Inc.
R & C Formation, Ltd.
FPM Group, Ltd

TOWN OF RIVERHEAD

Resolution # 498

**AWARDS REQUEST FOR PROPOSAL FOR YOUNGS AVENUE LANDFILL
POST CLOSURE INSPECTIONS. TESTING AND REPORTING ACTIVITIES
AND AUTHORIZES SUPERVISOR TO EXECUTE AN AGREEMENT
FOR SUCH SERVICES**

Councilman Hubbard offered the following resolution,

which was seconded by Councilman Dunleavy

WHEREAS, in order to comply with the approved New York State Department of Environmental Conservation post closure plan for the Youngs Avenue Landfill and to re-affirm the Town of Riverhead commitment to comply with all requirements and scheduled activities as outlined in the NYS DEC approved post closure maintenance and monitoring plan (PCMMP), the Town solicited requests for proposals for professional engineering firms for services related to the required inspections, testing and reporting activities to comply with the Town's post closure plan; and

WHEREAS, the Town Board, by Resolution #203 adopted on April 5, 2016, authorized the Town Clerk to publish and post a Request for Proposals for Youngs Avenue Landfill Testing, Maintenance and Monitoring; and

WHEREAS, due to a clerical error and necessary time required to meet the deadline for submission for publication in the newspaper, Resolution #203 was corrected by Resolution #283 adopted on April 19, 2016 to reflect a publish and post date of April 14, 2016 in the official Town newspaper; deadline for submission of proposals of May 5, 2016; date for bid opening to May 6, 2016; and date for comments/questions to April 25, 2016; and

WHEREAS, five (5) responses to the Request for Proposals were received, opened and read aloud on May 6, 2016 in the Office of the Town Clerk, 200 Howell Avenue, Riverhead, New York; and

WHEREAS, the Town Engineering Department did review and evaluate each of the five proposals based upon the criteria set forth in the specifications; and

WHEREAS, after serious consideration and evaluation, the Town Engineering Department determined that the proposal submitted by H2M Architects & Engineers best met the criteria set forth in the request for proposals and an award to H2M Architects & Engineers in the best interests of the Town, subject to a formal agreement between Town and H2M Architects & Engineers detailing the services and costs related to the services, provision requiring strict adherence to NYSDEC procedures, protocols and schedules for inspections, testing, and submission of reports with penalty for failure to meet and adhere to such procedures, protocols, and schedules; and, finally, such other provisions as deemed appropriate by the Office of the Town Attorney.

NOW THEREFORE BE IT RESOLVED, that the Request for Proposals for professional engineering services related to the required inspections, testing and reporting activities to comply with the Town's post closure plan be and is hereby

awarded to H2M Architects & Engineers in the amount not to exceed \$53,485.00 subject to a formal agreement between Town and H2M Architects & Engineers detailing the services and costs related to the services, provision requiring strict adherence to NYSDEC procedures, protocols and schedules for inspections, testing, and submission of reports with penalty for failure to meet and adhere to such procedures, protocols, and schedules; and, finally, such other provisions as deemed appropriate by the Office of the Town Attorney; and be it further

RESOLVED, in addition to the provision(s) set forth in an agreement between the Town and H2M Architects & Engineers requiring strict adherence to NYSDEC procedures, protocols and schedules for inspections, testing, and submission of reports as described above, in the event that H2M Architects & Engineers failure to meet or adhere to NYSDEC procedures, protocols or schedules, the Town Board hereby expressly reserves its right to immediately terminate the contract and award to the second most qualified firm; and be it further

RESOVLED, that the Town Board be and does hereby authorize the Supervisor to execute any documents or agreements with H2M Architects & Engineers to effectuate the terms of the specifications; and be it further

RESOLVED, that the Town Clerk be and is hereby authorized to forward a copy of this resolution to H2M Architects & Engineers, 290 Broad Hollow Road, Suite 400E, Melville, NY 11747, Town Engineering Department, Office of the Town Attorney and the Office of Accounting; and be it further

RESOLVED, that all Town Hall Departments may review and obtain a copy of this resolution from the electronic storage device and, if needed, a certified copy of same may be obtained from the Office of the Town Clerk.

THE VOTE

Hubbard Yes No Giglio Yes No
Wooten Yes No Dunleavy Yes No
Walter Yes No

The Resolution Was Thereupon Duly Declared Adopted



Office of the Town Clerk
Diane M. Wilhelm

Registrar of Vital Statistics

Records Management Officer

Marriage Officer

TO: Supervisor Walter, Councilpersons Dunleavy, Wooten, Giglio, Hubbard, Robert Kozakiewicz, Ann Marie Prudenti, Ken Testa

FROM: Julie O'Neill, Deputy Town Clerk

DATE: May 6, 2016

RE: Request for Proposals for Young's Avenue Landfill Post Closure Maintenance and Monitoring RFP Cost Proposals

**5 Request for Proposals were received and opened at 11am on May 6, 2016
See attached**

**H2M Architects & Engineers
290 Broad Hollow Rd, Suite 400E
Melville NY 11747
631 756-8000**

**PWGC Strategic Environment Engineering Solutions
630 Johnson Avenue, Suite 7
Bohemia NY 11716
631 589-6353
andy@pwgrosser.com**

**Lockwood, Kessler & Bartlett, Inc.
One Aerial Way
Syosset NY 11791
516 938-0600**

**R & C Formation, Ltd
171 Deer Park Ave, Suite 3
Babylon, NY 11702
631 472-9590**

**FPM Group, Ltd
909 Marconi Avenue
Ronkonkoma NY 11779
631 737-6200**

FEE PROPOSAL AND COST BREAKDOWN

**TOWN OF RIVERHEAD
YOUNGS AVENUE LANDFILL POST CLOSURE INSPECTIONS, TESTING AND REPORTING ACTIVITIES**

Task	TASK DESCRIPTION	FPM LABOR								SUBTOTAL	TASK TOTAL	
		ENGINEER V \$188.04	ENGINEER III \$143.21	SCIENTIST VI \$164.50	SCIENTIST II \$99.72	SCIENTIST I \$89.11	CADD OPERATOR II \$100.35	ADMIN. SUPPORT \$86.60				
I	MONTHLY, POST-STORM AND AS-NEEDED INSPECTIONS ¹ (Costs are per inspection event and include all reports and recommendations for repairs)	1	7								\$1,191	\$1,191
	Expenses (mileage)									\$40		
Task I Total Cost											\$1,230	
II	LANDFILL GAS MONITORING AND SAMPLING, ANALYSIS AND REPORTING ² [Total cost per cycle to include 5 quarterly rounds of landfill gas monitoring and groundwater sampling (4 routine and 1 baseline)]	11	21	172	164	10	10				\$39,157	
	NYSDOH ELAP Certified Laboratory Costs - 1 Baseline (\$5,000/ea) + 4 Routine (\$2,600/ea)										\$15,450	
	Field Equipment and Expenses ³ - \$1,100/round x 5 rounds										\$5,500	
Task II Total Cost											\$60,100	
III	REPORTING (Annual cost to provide all reports)										\$0	
Task III Total Cost											\$0	

Notes:

1. Inspection includes monitoring well network, gas probe network, landfill cover system, stormwater management system, and ancillary system inspections and associated reporting.
2. Cycle includes 5 quarterly rounds (over 15 months) of landfill gas monitoring and groundwater sampling (4 routine and 1 baseline parameter sampling rounds).
3. Two submersible pumps and generators, tubing, Landtech Gas Analyzer, Horiba parameter multimeter, Water level indicator, and miscellaneous items including mileage.
4. If additional cycles years are awarded, a small increase in costs would occur linked to the Consumer Price Index (CPI).

Fee Proposal

Young's Avenue Landfill Post Closure Maintenance and Monitoring

A breakdown of project-specific fees is provided below.

Task 1- Required Inspections

\$1,600.00/Inspection (includes Landfill Cover System, Stormwater Management System, Landfill Gas Monitoring System, Ancillary System and Groundwater Monitoring System)

Task 2 - Methane Gas and Groundwater Sampling and Analysis

\$3,500.00/Routine Event

\$5,000.00/Baseline Event

Task 3 – Reporting

Required Inspections - \$500.00/Report (includes Landfill Cover System, Stormwater Management System, Landfill Gas Monitoring System, Ancillary System and Groundwater Monitoring System)

Methane Gas/Groundwater Sampling and Analysis - \$2,500.00/Quarterly Report (\$10,000.00 annually)

The total fee for the performance of 5 quarterly inspections, 4 Routine and 1 Baseline methane/groundwater sampling events and the preparation of requisite reports is \$42,000.00.

Billable rates for proposed project-personnel are as follows:

Robert N. Casson: \$100.00/Hour

Steven Sobstyl: \$80.00/Hour

Melissa Yost: \$70.00/Hour

Arthur J. Scheff: \$70.00/Hour

Joseph F. Costanza: \$50.00/Hour



May 5, 2016

Mr. Ken Testa, PE
Office of the Town Engineer
Town of Riverhead
1295 Pulaski Street
Riverhead NY 11901

**RE: Engineering Services for the Young's Avenue Landfill Post Closure Maintenance and Monitoring
Cost Proposal**

Dear Mr. Testa:

LKB has been providing Landfill Post Closure Maintenance and Monitoring services identical to those required by the RFP for over 15 years. These services have included landfill gas and ground water monitoring, as well as inspecting capped landfills, and interfacing with the NYSDEC.

In addition, LKB has designed landfill capping projects and provided inspection services during construction. Consequently, if inspection efforts identify problem areas for corrective action, LKB can provide the necessary design and inspection services.

LKB has also been extremely successful in re-purposing closed landfills, having converted the capped 45-acre landfill in Merrick into an award-winning Passive Park, and converting the 38-acre Syosset landfill into a DPW truck parking area.

We appreciate the opportunity to provide our services to the Town and look forward to working with you on this project.

Sincerely,
Lockwood, Kessler & Bartlett, Inc.

A handwritten signature in black ink, appearing to read 'Paul Lappano', written in a cursive style.

Paul Lappano PE, BCEE, LEED AP
Vice President of Environmental Engineering

Table 1

Fee Proposal Summary

Task No.	Task Description	Method of Calculation (per RFP)	Subcategory	Itemized Cost	Reference ¹
1	Monthly, Post-Storm and As-Needed Inspections	Per Event	Quarterly	\$1,367.50	Table 2a
			Monthly/Post-Storm	\$1,245.00	Table 2b
			As-Needed ²	\$925.00	Table 2c
			Average Per Event Cost ³ :	\$1,235.50	
2	Methane Gas and Groundwater Sampling Analysis and Reporting	Total Cost Per 15-Month Cycle (Five Quarterly Rounds)	Methane Monitoring	\$2,590.00	Table 3a
			Water Sampling ⁴	\$14,170.00	Table 3b
			Laboratory Analysis ⁵	\$20,000.00	Table 3c
			Total Per-Cycle Cost:	\$36,760.00	
3	Reporting	Annual Cost, All Reports (Five Quarterly, One Annual)	Quarterly Inspections	\$2,810.00	Table 4a
			Additional Inspections ⁶	\$7,727.50	Table 4b
			Post-Closure Monitoring ⁷	\$7,575.00	Table 4c
			Total Annual Cost:	\$18,112.50	

Total of RFP-requested Itemized Costs: \$56,107.50

Say: \$56,110.00

Total Project Cost if 15 inspections are performed - **Say: \$73,400.00**

Footnotes:

- 1 Backup for each task's cost is provided on Tables 2a through 4c, as referenced.
- 2 Itemized cost is average per-inspection form cost + Form DP-1 cost + Review/Report cost.
- 3 Average per-event cost for four quarterly inspections, nine monthly post-storm inspections and two as-needed inspections.
- 4 Cost assumes that purge water handling and disposal, if required, will be performed by Town contractor.
- 5 Analyses by State-certified lab, independent data validation per NYSDEC Part 360 is included.
- 6 Includes reports for nine monthly/post-storm inspections and two as-needed (e.g., post-repair) inspections per year.
- 7 EQUIS database management services and Part 375 Periodic Review Report are not included because they are not specified in SCS Manual or FPM Letter.

Table 2a
Per-Event Fee Breakdown for Monthly Inspections

Task 1 Project Staff		Forms* to be Completed and Man-Hours per Event									
Title	Name	FCS-1	SWS-1	SWS-2	SWS-3	SWS-4	SWS-5	LFG-1	LFG-2	AS-1	AS-2
Project Manager	Paul Lappano, PE, BCEE, LEED AP	0	0	0	0	0	0	0	0	0	0
Remediation Engineer	Theresa Heneveld, PE	0	0	0	0	0	0	0	0	0	0
Environmental Engineer	Joseph Maggio	1.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	0.25	
Environmental Engineer	Rex Chen	1.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	0.25	
Man Hours per Form:		3	1	1	1	1	1	1	0.5	0.5	

Table 2b
Per-Event Fee Breakdown for Monthly/Post-Storm Inspections

Task 1 Project Staff		Forms* to be Completed and Man-Hours per Event							Review/ Reports**	Hours per Event
Title	Name	FCS-1	SWS-1	SWS-2	SWS-3	SWS-4	SWS-5	DP-1		
Project Manager	Paul Lappano, PE, BCEE, LEED AP	0	0	0	0	0	0	0.5	0.5	1
Remediation Engineer	Theresa Heneveld, PE	0	0	0	0	0	0	1	0.5	1.5
Environmental Engineer	Joseph Maggio	1.5	0.5	0.5	0.5	0.5	0.5	0.5	0	4.5
Environmental Engineer	Rex Chen	1.5	0.5	0.5	0.5	0.5	0.5	0.5	0	4.5
Man Hours per Form:		3	1	1	1	1	1	2.5	1	

Table 2c
Fee Breakdown for Additional As-Needed Inspections

Task 1 Project Staff		Forms* to be Completed and Man-Hours per Event									
Title	Name	FCS-1	SWS-1	SWS-2	SWS-3	SWS-4	SWS-5	LFG-1	LFG-2	AS-1	AS-2
Project Manager	Paul Lappano, PE, BCEE, LEED AP	0	0	0	0	0	0	0	0	0	0
Remediation Engineer	Theresa Heneveld, PE	0	0	0	0	0	0	0	0	0	0
Environmental Engineer	Joseph Maggio	1.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0
Environmental Engineer	Rex Chen	1.5	0.5	0.5	0.5	0.5	0.5	0.5	0.25	0.25	0
Man Hours per Form:		3	1	1	1	1	1	1	0.5	0.5	0
Fee per Form:***		\$300.00	\$100.00	\$100.00	\$100.00	\$100.00	\$100.00	\$100.00	\$50.00	\$50.00	\$0.00

Footnotes:

- * Per Appendix D (Inspection Forms) of Post-Closure Monitoring and Maintenance Operations Manual. Not all forms are required for post-storm inspections
- ** Task 1 reports will be letter-style reports with DP-1 forms attached. More detailed reporting (e.g., post-repair reports) are included under Task 3 (Reporting)
- *** Total fee for additional as-needed inspections would be the sum of the Fee per Form costs + Review/Report costs



Table 2a
 Summary of Man-Hours per Event

Summary of Man-Hours per Event						Review/ Reports**	Hours per Event	Billable Rate	Fee per Event
LFG-1	LFG-2	AS-1	AS-2	GMS-1	DP-1				
0	0	0	0	0	0.25	0.5	0.75	\$150.00	\$112.50
0	0	0	0	0	0.5	0.5	1	\$130.00	\$130.00
0.5	0.25	0.25	0.25	0.25	0.25	0	5.75	\$8100.00	\$575.00
0.5	0.25	0.25	0.25	0	0.25	0	5.5	\$100.00	\$550.00
1	0.5	0.5	0.5	0.25	1.25	1		Fee per Event:	\$1,367.50

Inspections

DP-1	Review/ Reports**	Hours per Event	Billable Rate	Fee per Event
0.5	0.5	1	\$150.00	\$150.00
1	0.5	1.5	\$130.00	\$195.00
0.5	0	4.5	\$100.00	\$450.00
0.5	0	4.5	\$100.00	\$450.00
2.5	1		Fee per Event:	\$1,245.00

Needed Inspections

Summary of Man-Hours per Event						Review/ Reports**	Billable Rate
LFG-1	LFG-2	AS-1	AS-2	GMS-1	DP-1		
0	0	0	0	0	0.25	0.5	\$150.00
0	0	0	0	0	0.5	0.5	\$130.00
0.5	0.25	0.25	0.25	0.25	0.25	0	\$100.00
0.5	0.25	0.25	0.25	0	0.25	0	\$100.00
1	0.5	0.5	0.5	0.25	1.25	1	
\$100.00	\$50.00	\$50.00	\$50.00	\$25.00	\$152.50	\$140.00	

Required for post-storm inspections
 are included under Task 3 (Reporting)

Table 3a
Per-Cycle Fee Breakdown for Quarterly Methane Monitoring

Task 2 Project Staff		Man-Hours per Monitoring Event*					Hours per Cycle	Billable Rate	Fee per Cycle
Title	Name	Event 1	Event 2	Event 3	Event 4	Event 5			
Project Manager	Paul Lappano, PC, BCEE, LEED AP	0.5	0	0	0	0	0.5	\$150.00	\$75.00
Ground-Water Professional	John Gerlach, CGWP, LEP	0.5	0	0	0.5	0	0.5	\$130.00	\$65.00
Environmental Engineer	Joseph Maggio	1.5	1	1	1	1	5.5	\$100.00	\$550.00
Environmental Engineer	Rex Chen	1.5	1	1	1	1	5.5	\$100.00	\$550.00
Man-Hours per Event:		4	2	2	2	2		Per-Cycle Fee:	\$1,240.00
								Per-Cycle Equipment Rental:	\$1,350.00
								Total Per-Cycle Methane Monitoring Cost:	\$2,590.00

Table 3b
Per-Cycle Fee Breakdown for Quarterly Water Sampling

Task 2 Project Staff		Man-Hours per Monitoring Event*					Hours per Event	Billable Rate	Fee per Cycle
Title	Name	Event 1	Event 2	Event 3	Event 4	Event 5			
Project Manager	Paul Lappano, PC, BCEE, LEED AP	0.5	0.25	0.25	0.25	0.25	1.5	\$150.00	\$225.00
Ground-Water Professional	John Gerlach, CGWP, LEP	3	1	1	1	1	7	\$130.00	\$945.00
Environmental Engineer	Joseph Maggio	10	10	10	10	10	50	\$100.00	\$5,000.00
Environmental Engineer	Rex Chen	10	10	10	10	10	50	\$100.00	\$5,000.00
Man-Hours per Event:		23.5	21.25	21.25	21.25	21.25		Fee per Event:	\$11,170.00
								Per-Cycle Equipment Cycle:	\$3,000.00
								Total Per-Cycle Water Sampling Cost:	\$14,170.00

Table 3c
Per-Cycle Cost Estimate for Laboratory Analysis of Water Samples

Per-Cycle Monitoring Round Details		Number of Samples by Type*					Samples Per Round	Cost Per Sample**	Cost Per Round
Monitoring Round No.	Type	Water	Dup.	MS/MSD	E. Blank	T. Blank			
1	Routine	10	1	1***	1	0	12	\$300.00	\$3,600.00
2	Routine	10	1	1***	1	0	12	\$300.00	\$3,600.00
3	Routine	10	1	1***	1	0	12	\$300.00	\$3,600.00
4	Routine	10	1	1***	1	0	12	\$300.00	\$3,600.00
5	Baseline	12	1	1***	1	1***	14	\$400.00	\$5,600.00
Total Samples by Type:		52	5	5***	5	1***		Per-Cycle Lab Cost:	\$20,000.00
								Sample Pick-up:	No charge
								Total Per-Cycle Laboratory Cost:	\$20,000.00
								Total Per-Cycle Task 2 Cost:	\$36,760.00

Footnotes:

- * Based on field and laboratory scope of work in 1/31/13 FPM letter - Task 2 related reports will be provided under Task 3 (Reporting)
- ** Based on attached quotation from NYS-certified environmental laboratory. Provided at cost
- *** Laboratory analysis includes MS/MSDs and trip blanks. Round 5 baseline samples include surface-water samples from basin, if standing water present.



Table 4a

Annual Fee Breakdown for Quarterly Inspection Reports

Task 3 Project Staff		Hours per Report	No. of Reports	Total Hours	Billable Rate	Fee per Event
Title	Name					
Project Manager	Paul Lappano, PE, BCEE, LEED AP	0.25	4	1	\$150.00	\$150.00
Remediation Engineer	Theresa Heneveld, PE	0.5	4	2	\$130.00	\$260.00
Environmental Engineer	Joseph Maggio	3	4	12	\$100.00	\$1,200.00
Environmental Engineer	Rex Chen	3	4	12	\$100.00	\$1,200.00

Annual Quarterly Inspection Report Fee: \$2,810.00

Table 4b

Annual Fee Breakdown for Additional Monthly Post-Storm and As-Needed Inspection Reports*

Task 3 Project Staff		Hours per Report	No. of Reports	Total Hours	Billable Rate	Fee per Event
Title	Name					
Project Manager	Paul Lappano, PE, BCEE, LEED AP	0.25	11	2.75	\$150.00	\$412.50
Remediation Engineer	Theresa Heneveld, PE	0.5	11	5.5	\$130.00	\$715.00
Environmental Engineer	Joseph Maggio	3	11	33	\$100.00	\$3,300.00
Environmental Engineer	Rex Chen	3	11	33	\$100.00	\$3,300.00

Annual Additional Inspection Report Fee: \$7,727.50

Table 4c

Annual Fee Breakdown for Post-Closure Monitoring Reports (Methane and Ground-Water)

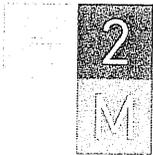
Task 3 Project Staff		Hours per Report	No. of Reports**	Total Hours	Billable Rate	Fee per Event
Title	Name					
Project Manager	Paul Lappano, PE, BCEE, LEED AP	0.5	5	2.5	\$150.00	\$375.00
Ground-Water Professional	John Gerlach, CGWP, LEP	8	5	40	\$130.00	\$5,200.00
Environmental Engineer	Joseph Maggio	2	5	10	\$100.00	\$1,000.00
Environmental Engineer	Rex Chen	2	5	10	\$100.00	\$1,000.00

Annual Methane and Water Monitoring Report Fee: \$7,575.00

Total Annual Task 3 Cost:	\$18,112.50
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Footnotes:

- * Assumes eight additional inspection reports will be required annually
- ** Includes five quarterly reports, in keeping with 5-quarter cycle, plus one annual report on NYSDEC ILI Landfill report template.



architects + engineers

290 Broad Hollow Road, Suite 400E ☎ 631.756.8000
Melville, NY 11747 ☎ 631.271.0787

May 2 2016

Diane M. Wilhelm, Town Clerk
Town of Riverhead
200 Howell Avenue
Riverhead, New York 11901

RE: **Cost Proposal** for Post Closure Inspections, Testing & Reporting
Young's Avenue Landfill
Town of Riverhead, New York
H2M Proposal LP 160454

Dear Ms. Wilhelm:

Pursuant to the Town of Riverhead (Town) Request for Proposal (RFP) dated April 8, 2016, H2M architects + engineers (H2M) is pleased to submit herein our Cost proposal to provide environmental services relative to groundwater sampling/analyses, landfill gas monitoring, inspections and associated reports for the above referenced property. This cost proposal is submitted in response to the Town of Riverhead RFP for Young's Avenue landfill post closure maintenance and monitoring, as well as subsequent addenda. This cost proposal is also submitted in conjunction with our technical proposal response, which has been submitted under separate cover.

Cost Proposal

The project costs include labor and expenses for inspections under Task 1, labor and equipment associated with field services described under Tasks 2 and 3 above, analytical laboratory/data validation services as described under Task 4 and letter report preparation/submittal described under Task 5.

If this proposal meets with your approval, please return a signed copy and a purchase order as notification to proceed. We will schedule the required field work for sampling during the second quarter (April-June) of 2016 as required by NYSDEC assuming authorization is received from your office. If you should have any questions, please contact either Mr. Philip Schade at (631) 756-8000, ext. 1623 or Mr. Christopher Flynn at extension 1484.

Sincerely,

H2M architects + engineers

Philip J. Schade, P.E.
Vice President

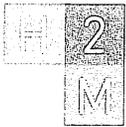
Christopher J. Flynn
Sr. Project Manager

Agreed and accepted by:

Name: _____

Title: _____

Date: _____



architects + engineers

290 Broad Hollow Road, Ste 400E
Melville, NY 11747

tel: 631.756.8000
fax: 631.271.0787

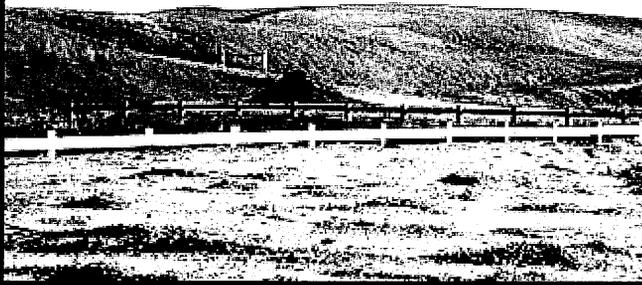
**TOWN OF RIVERHEAD
YOUNGS AVENUE LANDFILL
POST CLOSURE INSPECTIONS, TESTING & REPORTING**

COST PROPOSAL ⁽¹⁾

RFP Task	Proposal Task	Task Description	H2M Cost		Total Cost	Cost Per RFP Task
			Labor	Expenses		
	#		\$	\$	\$	
I	1	Periodic Inspections- Monthly, Post Storm, and as needed ⁽²⁾	Labor rate: \$60/hr x 4.5hrs = 270	40	310	\$310/ periodic inspection or \$210/ Quarterly Inspection
		Periodic Inspections – Quarterly ⁽³⁾	Labor rate: \$60/hr x 3.5hrs = 210	-	210	
II	2	Groundwater Well Sampling Program ⁽⁴⁾	Labor rate: \$60/hr x 60hrs = 3,600	2,269	5,869	\$45,735 / cycle
	3	Methane Gas Monitoring Program ⁽⁵⁾	-	-	(5)	
	4	Laboratory Analytical Costs				
		Baseline Parameters ⁽⁶⁾	5,715	175	5,890	
		Routine Parameters ⁽⁷⁾	2,625	-	2,625	
III	5	GW Well/Methane Gas Summary Reports ⁽⁸⁾	Labor rate: \$60/hr x 60hrs = 3600	-	3,600	3,600 / year

Notes:

- 1) Based on scope of services included in H2M Proposal No. LP160454 dated May 2, 2016
- 2) Cost per monthly and/or post-storm or as-needed inspection event as directed by Town Engineering Department
- 3) Cost per quarter for Compliance Inspections to be conducted concurrently with Groundwater Well/Methane Gas Monitoring Program
- 4) Cost per quarter for both Routine and Baseline Sampling Program assumed at two people for three days with expenses to include travel, bailers, pump, generators and miscellaneous equipment
- 5) Cost per quarter included in Task 2 assumes Methane Gas Monitoring to be done at same time as Task 2 Field Services
- 6) Cost per event includes Data Validation Services and QA/QC Samples for 10 wells
- 7) Cost per event includes QA/QC samples for 10 Wells. Laboratory data package and data validation (if warranted) would be additional \$175 per event
- 8) Total cost per cycle to prepare 5 Quarterly Reports



Town of Riverhead

**Young's Avenue Landfill
Post Closure Maintenance and
Monitoring Cost Proposal**



PWGC 
Strategic Environmental Engineering Solutions

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Cost Breakdown Sheet

Environmental Services - Youngs Avenue Landfill

TASK Service Provided	Rate	Units	# Units	TOTAL
Task 1 - Monthly, post storm and as needed inspections (per event)				
PWGC SERVICES				
Field Hydrogeologist	\$61.50	hr	8	\$ 492.00
REPORT PREPARATION				
Project Manager	\$122.40	hr	1	\$ 122.40
Project Hydrogeologist	\$70.50	hr	2	\$ 141.00
Subtotal per event				\$ 755.40
Task 1 - Services Subtotal (assumes 15 Inspections)				\$ 11,331.00
Task 2 - Methane Gas and Groundwater Sampling & Analysis (4 Events)				
Task 2A - Baseline Sampling (1 Event)				
PWGC SERVICES				
Project Manager	\$122.40	hr	2	\$ 244.80
Field Hydrogeologist (2)	\$61.50	hr	40	\$ 2,460.00
EQUIPMENT				
Grundfos Pump	\$65.00	day	2	\$ 130.00
Horiba U-52	\$125.00	day	2	\$ 250.00
GEM 2000 Gas Analyzer	\$135.00	day	1	\$ 135.00
Tubing and Supplies	\$300.00	event	1	\$ 300.00
LABORATORY SERVICES				
6NYCRR 360-2.11(d)(6) - Baseline Parameters	\$385.00	each	11	\$ 4,235.00
QA/QC Samples - Baseline Parameters	\$385.00	each	3	\$ 1,155.00
QA/QC Samples - Baseline VOCs (Trip Blank)	\$75.00	each	2	\$ 150.00
Filtered Baseline Metals	\$125.00	each	1	\$ 125.00
SUMMARY REPORT PREPARATION				
Project Manager	\$122.40	hr	1	\$ 122.40
Project Hydrogeologist	\$70.50	hr	2	\$ 141.00
Task 2B - Routine Sampling (4 Events)				
PWGC SERVICES				
Project Manager	\$122.40	hr	8	\$ 979.20
Field Hydrogeologist (2)	\$61.50	hr	160	\$ 9,840.00
EQUIPMENT				
Grundfos Pump	\$65.00	day	8	\$ 520.00
Horiba U-52	\$125.00	day	8	\$ 1,000.00
GEM 2000 Gas Analyzer	\$135.00	day	4	\$ 540.00
Tubing and Supplies	\$300.00	event	4	\$ 1,200.00
LABORATORY SERVICES				
6NYCRR 360-2.11(d)(6) - Routine Parameters	\$205.00	each	44	\$ 9,020.00
QA/QC Samples - Routine Parameters	\$205.00	each	12	\$ 2,460.00
QA/QC Samples - Routine VOCs (Trip Blank)	\$75.00	each	0	\$ -
Filtered Routine Metals	\$55.00	each	4	\$ 220.00
SUMMARY REPORT PREPARATION				
Project Manager	\$122.40	hr	4	\$ 489.60
Field Hydrogeologist	\$70.50	hr	8	\$ 564.00
Task 2 - Services Subtotal				\$ 36,281.00
Task 3 - Reporting (5 Quarterly Reports)				
PWGC SERVICES				
Principal	\$323.25	hr	5	\$ 1,616.25
Senior Project Manager	\$211.20	hr	10	\$ 2,112.00
Project Manager	\$122.40	hr	25	\$ 3,060.00
Project Hydrogeologist	\$70.50	hr	100	\$ 7,050.00
Field Hydrogeologist	\$61.50	hr	50	\$ 3,075.00
Data Validation (10%)	\$300.00	each	5	\$ 1,500.00
Task 3 - Services Subtotal				\$ 18,413.25
TOTAL:				\$ 66,025.25

