






SUBJECT: Award of proposal number 22-038P to Burns & McDonnell for the contract amount not to exceed \$120,000.00 annually to provide engineering consulting services for the Central Landfill.

AGENDA OF: December 7, 2021

ASSEMBLY ACTION:
Adopted unanimously 12-7-21 

MANAGER RECOMMENDATION: Present to the assembly for consideration.

APPROVED BY MICHAEL BROWN, BOROUGH MANAGER: 

Route To:	Department/Individual	Initials	Remarks
	Purchasing Officer		
	Public Works Director	Terry Dolan	Digitally signed by Terry Dolan Date: 2021.11.22 16:06:44 -09'00'
	Finance Director		
	Borough Attorney		
	Borough Clerk		

ATTACHMENT (S) : Fiscal Note: Yes X No
 Analysis Sheet (1p)
 Scope of Services (2p)

SUMMARY STATEMENT: On October 5, 2021, the Matanuska-Susitna Borough (MSB) Purchasing Division issued a solicitation requesting proposals from qualified firms to provide professional engineering consulting services for the Central Landfill (CLF) located in Palmer, Alaska. This scope of services addresses the necessary operation and development at CLF as laid out in the 2020 Development Plan, and required to provide continued solid waste disposal for MSB residents and businesses. Services will address planning, operation, regulatory, design, and construction administration support. Services purchased will support the Public Works Department in all assembly districts.

In response to the advertisement, two proposals were received. A proposal evaluation team made up of Borough Public Works staff evaluated the proposals and selected Burns & McDonnell as the most advantageous firm for the Borough.

The initial term for this agreement begins upon contract execution and ends on 6/30/2023 (not to exceed \$175,000). There are five one-year renewals subject to annual appropriation of funds by the Borough Assembly (each renewal contract year is not to exceed \$120,000).

The Public Works Department, Solid Waste Division will be administering the contract.

RECOMMENDATION OF ADMINISTRATION: Award of **PROPOSAL NUMBER 22-038P** to **BURNS & MCDONNELL** for the contract amount not to exceed **SEVEN HUNDRED SEVENTY FIVE THOUSAND DOLLARS AND 00/100 CENTS (\$775,000.00)** to **PROVIDE ENGINEERING CONSULTING SERVICES FOR THE CENTRAL LANDFILL.**

MATANUSKA-SUSITNA BOROUGH
FISCAL NOTE

Agenda Date: December 7, 2021

SUBJECT: Award of proposal number 22-038P to Burns & McDonnell for the contract amount not to exceed \$120,000.00 annually to provide engineering consulting services for the Central Landfill.

ORIGINATOR: Purchasing

FISCAL ACTION (TO BE COMPLETED BY FINANCE)	FISCAL IMPACT <u>YES</u> NO
AMOUNT REQUESTED: <u>\$120,000</u>	FUNDING SOURCE <u>SOLID WASTE OPERATIONS</u>
FROM ACCOUNT # <u>510.150.4110 510.150.401 422222</u>	PROJECT #
TO ACCOUNT :	PROJECT #
VERIFIED BY: <u>Kim M. Wood</u>	CERTIFIED BY:
DATE: <u>11-22-21</u>	DATE:

EXPENDITURES/REVENUES: (Thousands of Dollars)

OPERATING	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027
Personnel Services						
Travel						
Contractual	<u>120.0</u>					
Supplies						
Equipment						
Land/Structures						
Grants, Claims						
Miscellaneous						
TOTAL OPERATING	<u>120.0</u>					

CAPITAL						
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REVENUE						
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FUNDING: (Thousands of Dollars)

General Fund	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027
State/Federal Funds						
Other	<u>120.0</u>					
TOTAL	<u>120.0</u>					

POSITIONS:

Full-Time	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027
Part-Time						
Temporary						

ANALYSIS: (Attach a separate page if necessary)

PREPARED BY: _____ PHONE: _____

DEPARTMENT: _____ DATE: _____

APPROVED BY: Chiquita Denmark DATE: 11/23/2021



22-038P Central Landfill Engineering Services Scoring Summary

	Total	Objectives and Services	Relevant Project Experience	Proposed Project Staff	Methods	Management
Supplier	/ 100 pts	/ 24 pts	/ 22 pts	/ 19 pts	/ 18 pts	/ 17 pts
Burns & McDonnell	91.87 pts	22.4 pts	19.07 pts	19 pts	14.4 pts	17 pts
HDR	76.67 pts	16 pts	17.6 pts	13.93 pts	14.4 pts	14.73 pts

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SCOPE OF SERVICES

22-038P, CENTRAL LANDFILL ENGINEERING SERVICES

Project Background and Scope

The Matanuska-Susitna Borough (MSB) is seeking qualifications for professional engineering consulting services for the Central Landfill (CLF) located in Palmer, Alaska. This scope of services addresses the necessary operation and development at CLF as laid out in our 2020 Development Plan, and required to provide continued solid waste disposal for MSB residents and businesses. Services will address planning, operation, regulatory, design, and construction administration support for projects including:

- Operation of the recently installed landfill gas collection and control system (GCCS) (2021)
- Expansion of the GCCS as the CLF expands. (2022-23)
- Landfill gas reuse feasibility and implementation. (2022-24)
- Leachate management and treatment, including leachate recirculation design and implementation. (2022)
- Pre-design and design of Cell 5. (2022-26)
- Closure of Cell 2B and 3. (2023)
- Fill planning and operation support for Cell 4. (2021-30)
- Other General support for the CLF and MSB solid waste programs. (Ongoing)

More detail on these tasks are as follows:

Task 1 – Landfill Gas Collection, Design, Construction, Operation, and Reuse

Consultant shall provide services to help MSB operate the GCCS and troubleshoot any problems that impede optimal gas flow and quality, to plan and design collection expansion both during waste filling and at cell closure, to administer and document construction, and to complete associated regulator communication. The 2020 Plan evaluated options for landfill gas reuse including leachate evaporation and electric generation. Consultant shall assist MSB in further evaluating the feasibility of these options, meeting with utility and end-user stakeholders, and support any follow-on work. Designs shall include standard drawings and details provided to the MSB.

Task 2 – Landfill Leachate Management

Consultant shall provide assistance to MSB in leachate management after collection from the Landfill including pond storage and maintenance, pumping systems, treatment options, and compliance with discharge to the Anchorage Water and Wastewater Utility (AWWU). The 2020 Plan recommended that MSB implement leachate recirculation to treat leachate and reduce long term Landfill liability. Consultant will design, administer construction and assist MSB in operation of leachate recirculation systems consistent with Alaska Department of Environmental Conservation (ADEC) rules and regulations and within the RD&D permit currently in review at ADEC. Designs shall include standard drawings and details provided to the MSB.

Task 3- Landfill Cell Support

Cell 4 is anticipated to last approximately 10 years or approximately until 2032. Cell 4 will require ongoing support for slope consistency ensuring that all permit requirements are met as it is filled. Cell 5 construction area will need to be cleared and mined to minimize construction costs. Design floor elevations, established in the 2020 Plan, will be required to determine excavation limits. The consultant will provide geotechnical exploration plan, mining and construction schedule, excavation elevations and material to be used in the new landfill so that design and construction costs will be minimized.

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Task 4 - Cell 2B and 3 Closure

Cells 2B and 3 will also require closure in conjunction with a gas extraction plan (Task 1). The Consultant will be required to design the cap for cell 3, design the vertical gas wells and collection piping that will connect to the existing GCCS. Consultant will provide design, construction and operation support. Designs shall include standard drawings and details provided to the MSB.

Task 5 – General Landfill and MSB Solid Waste Program Support

The work for this subtask shall include general assistance on Landfill best practices, assistance during bidding, including attendance during pre-bid meeting(s) and providing responses to questions from prospective bidders, and other as needed on-call services for operation of the solid waste program. As outlined in the 2020 Development Plan, Cell 4 will require specific fill planning to establish construction boundaries for Cell 5. The Consultant shall provide MSB fill planning guidance for Cell 4, including layout of leachate recirculation and gas collection systems during development.

During construction, the consultant shall provide answers to design related questions, requests for information, revisions to project plans and specifications, as needed, and other related work during the construction process. Once the projects are completed, the consultant shall develop record drawings, sealed by a licensed engineer, based on contractor redlines and known changes that were made in the field.

Consultant shall plan to complete quarterly on-site meetings to coordinate various project work with MSB staff.

Project Schedule

Dates for completion and submittal of deliverables shall be as follows:

November 2021
End FY22

Anticipated Notice to Proceed
June 30th, 2022

Additional extensions not to exceed 5 total years.

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