## EXHIBIT B-4

## **AMENDMENT NUMBER 5 TO**

AGREEMENT FOR PROFESSIONAL SERVICES
BETWEEN
TETRA TECH
AND
THE CITY OF ANN ARBOR

This Amendment Number 5 ("Amendment") is to the agreement between the City of Ann Arbor, ("City") and Tetra Tech, Inc., ("Contractor") for 2018 Ann Arbor Landfill Monitoring and Maintenance Program, which is dated July 5, 2017 ("Agreement"). City and Contractor agree to amend the Agreement as follows:

1) Article V, Compensation of the Contractor, is amended to read as follows:

The Consultant shall be paid on the basis of time spent and materials used at the rates and prices specified, as amended for additional tasks by Amendment Number 1 (Exhibit B-1), Amendment Number 2 (Exhibit B-2), Amendment Number 3, Amendment 4 (Exhibit B-3), Amendment 5 (Exhibit B-4) for acceptable work performed and acceptable deliverables received. The Fiscal Year 22 and Fiscal Year 23 beginning July 1, 2021 and ending June 30, 2023 contract amount \$380,111 and contingency amount \$40,000. Total fee to be paid to the Consultant during the two year period Fiscal Year 22 and Fiscal Year 23 beginning July 1, 2021 and ending June 30, 2023 including contingency \$420,111.00 for the Services. Payment shall be made monthly following receipt of invoices submitted by the Consultant, and approved by the Contract Administrator.

All terms, conditions, and provisions of the Agreement, unless specifically amended above, shall apply to this Amendment and are made a part of this Amendment as though expressly rewritten, incorporated, and included herein.

City and Contractor agree that for this Amendment and any documents related to the Agreement: 1) signatures may be delivered electronically in lieu of an original signature; 2) to treat electronic signatures as original signatures that bind them; and 3) signatures may be executed and delivered by facsimile and upon such delivery, the facsimile signature will be deemed to have the same effect as if the original signature had been delivered to the other party.

This Amendment to the Agreement shall be binding on the Parties' heirs, successors, and assigns.

[SIGNATURE PAGE FOLLOWS]

## 

06/30/2021

STEPHEN POSTEMA, CITY ATTORNEY

EXHIBIT B-4

	Task Number		st - Fiscal Year: . 2021 to June 30, . 2022		ost - Fiscal Year: 1, 2022 to June 30, 2023		Total Project Cost FY 2021- 2023	Budg	get Remair to Date
DF ANN ARBOR LANDFILL									
GROUNDWATER MONITORING PROGRAM	1								
Collection of Static Groundwater Levels - Semi-Annual (April & October)	1.1	\$	2,761	\$	2,761	\$	5,521	\$	5,
Sample Groundwater Monitoring Wells - Semi-Annual (April & October)	1.2	\$	9,661	\$	9,661	\$	19,321	\$	19,
Perform Laboratory Analysis (April & October)	1.3	\$	3,197	\$	3,197	\$	6,395	\$	6
Review and Analysis of Results	1.4	\$	2,136	\$	2,136	\$	4,272	\$	4
Prepare and Submit Monitoring Report	1.5	\$	4,340	\$	4,340	\$	8,679	\$	8
Regulatory and/or Public Meetings	1.6	\$	5,118	\$	5,118	\$	10,235	\$	10
State Deliverables, HMP Updates, RAP	1.7	\$	9,874			\$	19,749		19
						\$	74,171	\$	74
LANDFILL GAS MONITORING PROGRAM	2								
Complete Field Monitoring - Quarterly (January, April, July and October)	2.1	\$	6,441	\$	6,441	\$	12,882	\$	1:
Prepare and Submit Monitoring Report	2.2	\$	6,438	\$	6,438	\$	12,876	\$	12
Regulatory and/or Public Meetings	2.3	\$	7,605	\$	7,605	\$	15,210	\$	19
Methane Gas Collection System Monitoring	2.4	\$	9,612	\$	9,612	\$	19,224	\$	19
Annual Methane Gas Monitoring Survey	2.5	\$	855	\$	855	\$	1,710	\$	
Federal Greenhouse Gas Reporting	2.6	\$	4,092	\$	4,092	\$	8,184	\$	1
Landfill Gas to Energy Feasibility Study	2.7	\$	30,280	\$	-	\$	30,280	\$	30
						\$	100,366	\$	10
WASTEWATER MONITORING PROGRAM	3								
Collection of Monthly Discharge Readings	3.1	\$	5,306	\$	5,306	\$	10,612	\$	1
Collection of Quarterly Wastewater Samples	3.2	\$	3,760	\$	3,760	\$	7,520	\$	
Perform Laboratory Analysis - 3 Quarterly & 1 Annual (April)	3.3	\$	3,115		3,115		6,231		
Submittal of Quarterly Reports	3.4	\$	5,536		5,536	\$	11,072		1
Renewal of Industrial User Permit	3.5	\$	1,481			\$	2,962		
Evaluation of Systems - Methane Collection System*  Evaluation of Systems - Purge, Observation & Monitoring Wells*  Evaluation of Systems - Perform/Contract Maintenance  Evaluation of Systems - Annual Maintenance Report	4.1 4.2 4.3	\$ \$ \$	3,745 27,039 2,921	\$	7,787 27,039 2,921	\$ \$ \$	11,532 54,077 5,842	\$ \$	11 54 5
	4.4	S					2.444	- 3	
	4.4	\$	1,222			\$ \$	2,444 73,895		7
	5	\$			1,222	\$	73,895	\$	
Evaluation of Systems - Annual Maintenance Report		\$		\$		\$		\$	
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT	5		1,222	\$ \$	1,222	\$ \$	73,895	\$	1
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT  Landfill Field Inspection	5 5.1	\$	1,222 9,870	\$ \$ \$	1,222 9,870	\$ \$ \$ \$ \$	73,895 19,740 2,228 30,156	\$ \$ \$ \$	1
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT  Landfill Field Inspection Health and Safety Plan	5 5.1 5.2	\$ \$	1,222 9,870 1,114	\$ \$ \$	9,870 1,114	\$ \$ \$	73,895 19,740 2,228	\$ \$ \$ \$	1
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT  Landfill Field Inspection Health and Safety Plan Project Manager (emergency response; meetings, budgeting, invoicing, procurement, etc.)  SOLAR PROJECT ASSISTANCE	5 5.1 5.2 5.3	\$ \$ \$	9,870 1,114 15,078	\$ \$ \$	9,870 1,114	\$ \$ \$ \$ \$	73,895 19,740 2,228 30,156 52,124	\$ \$ \$ \$	1 3 5
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT  Landfill Field Inspection Health and Safety Plan Project Manager (emergency response; meetings, budgeting, invoicing, procurement, etc.  SOLAR PROJECT ASSISTANCE Wetland Delineation	5 5.1 5.2 5.3 6 6.1	\$ \$ \$	9,870 1,114 15,078	\$ \$ \$ \$	9,870 1,114	\$ \$ \$ \$ \$	73,895 19,740 2,228 30,156 52,124	\$ \$ \$ \$ \$	1 <sup>-</sup> 3 5
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT  Landfill Field Inspection Health and Safety Plan Project Manager (emergency response; meetings, budgeting, invoicing, procurement, etc.)  SOLAR PROJECT ASSISTANCE Wetland Delineation T&E Review/Agency Consult	5 5.1 5.2 5.3 6 6.1 6.2	\$ \$ \$	1,222 9,870 1,114 15,078 5,214 3,567	\$ \$ \$ \$ \$	9,870 1,114	\$ \$ \$ \$ \$ \$	73,895  19,740 2,228 30,156 52,124  5,214 3,567	\$ \$ \$ \$ \$	1 3 5
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT  Landfill Field Inspection Health and Safety Plan Project Manager (emergency response; meetings, budgeting, invoicing, procurement, etc.)  SOLAR PROJECT ASSISTANCE  Wetland Delineation T&E Review/Agency Consult Phase IESA	5 5.1 5.2 5.3 6 6.1 6.2 6.3	\$ \$ \$ \$	9,870 1,114 15,078 5,214 3,567 3,761	\$ \$ \$ \$ \$ \$ \$	9,870 1,114	\$ \$ \$ \$ \$ \$	73,895  19,740 2,228 30,156 52,124  5,214 3,567 3,761	\$ \$ \$ \$ \$	1 3 5
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT  Landfill Field Inspection Health and Safety Plan Project Manager (emergency response; meetings, budgeting, invoicing, procurement, etc.)  SOLAR PROJECT ASSISTANCE  Wetland Delineation T&E Review/Agency Consult Phase I ESA Phase II ESA Phase II ESA	5 5.1 5.2 5.3 6 6.1 6.2 6.3 6.4	\$ \$ \$ \$	9,870 1,114 15,078 5,214 3,567 3,761 9,984	\$ \$ \$ \$ \$ \$ \$ \$	9,870 1,114	\$ \$ \$ \$ \$ \$ \$ \$	73,895  19,740 2,228 30,156 52,124  5,214 3,567 3,761 9,984	\$ \$ \$ \$ \$ \$	1 3 5
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT  Landfill Field Inspection Health and Safety Plan Project Manager (emergency response; meetings, budgeting, invoicing, procurement, etc.)  SOLAR PROJECT ASSISTANCE  Wetland Delineation T&E Review/Agency Consult Phase I ESA Phase II ESA BEA	5 5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5	\$ \$ \$ \$	9,870 1,114 15,078 5,214 3,567 3,761 9,984 3,129	\$ \$ \$ \$ \$ \$	9,870 1,114	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	73,895  19,740 2,228 30,156 52,124  5,214 3,567 3,761 9,984 3,129	\$ \$ \$ \$ \$ \$	11: 33: 5:
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT  Landfill Field Inspection Health and Safety Plan Project Manager (emergency response; meetings, budgeting, invoicing, procurement, etc.)  SOLAR PROJECT ASSISTANCE  Wetland Delineation T&E Review/Agency Consult Phase I ESA Phase I ESA BEA DCP of DDCC	5 5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,222 9,870 1,114 15,078 5,214 3,567 3,761 9,984 3,129 3,194	\$ \$ \$ \$ \$ \$ \$ \$ \$	9,870 1,114	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	73,895  19,740 2,228 30,156 52,124  5,214 3,567 3,761 9,984 3,194	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1: 33 5:
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT  Landfill Field Inspection Health and Safety Plan Project Manager (emergency response; meetings, budgeting, invoicing, procurement, etc.)  SOLAR PROJECT ASSISTANCE  Wetland Delineation T&E Review/Agency Consult Phase I ESA Phase II ESA BEA DCP of DDCC Cultural Desktop	5 5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,222 9,870 1,114 15,078 5,214 3,567 3,761 9,984 3,129 3,194 3,775	\$ \$\$\$	9,870 1,114	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	73,895  19,740 2,228 30,156 52,124  5,214 3,567 3,761 9,984 3,129 3,194 3,775	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11 33 5.
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT  Landfill Field Inspection Health and Safety Plan Project Manager (emergency response; meetings, budgeting, invoicing, procurement, etc.)  SOLAR PROJECT ASSISTANCE  Wetland Delineation T&E Review/Agency Consult Phase I ESA Phase II ESA BEA DCP of DDCC Cuttural Desktop JPA Permitting	5 5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8	555	1,222 9,870 1,114 15,078 5,214 3,567 3,761 9,984 3,129 3,194 3,775 2,958	\$ \$\$\$	9,870 1,114 15,078	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	73,895  19,740 2,228 30,156 52,124  5,214 3,567 3,761 9,984 3,129 3,194 3,775 2,958	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1: 33: 5:
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT  Landfill Field Inspection Health and Safety Plan Project Manager (emergency response; meetings, budgeting, invoicing, procurement, etc.)  SOLAR PROJECT ASSISTANCE  Wetland Delineation T&E Review/Agency Consult Phase I ESA Phase II ESA BEA DCP of DDCC Cultural Desktop	5 5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,222 9,870 1,114 15,078 5,214 3,567 3,761 9,984 3,129 3,194 3,775 2,958	\$ \$\$\$	9,870 1,114 15,078	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	73,895  19,740 2,228 30,156 52,124  5,214 3,567 3,761 9,984 3,129 3,194 3,775	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11 33 5.
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT  Landfill Field Inspection Health and Safety Plan Project Manager (emergency response; meetings, budgeting, invoicing, procurement, etc.)  SOLAR PROJECT ASSISTANCE  Wetland Delineation T&E Review/Agency Consult Phase I ESA Phase II ESA BEA DCP of DDCC Cuttural Desktop JPA Permitting	5 5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8	555	1,222 9,870 1,114 15,078 5,214 3,567 3,761 9,984 3,129 3,194 3,775 2,958	\$ \$\$\$	9,870 1,114 15,078	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	73,895  19,740 2,228 30,156 52,124  5,214 3,567 3,761 9,984 3,129 3,194 3,775 2,958 5,576	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1 3 5
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT  Landfill Field Inspection Health and Safety Plan Project Manager (emergency response; meetings, budgeting, invoicing, procurement, etc.)  SOLAR PROJECT ASSISTANCE  Wetland Delineation T&E Review/Agency Consult Phase I ESA Phase I ESA BEA DCP of DDCC Cultural Desktop JPA Permitting Coordination with CAA / DTE	5 5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9	555	1,222 9,870 1,114 15,078 5,214 3,567 3,761 9,984 3,129 3,194 3,775 2,958	\$ \$\$\$ \$\$\$\$\$\$\$\$	9,870 1,114 15,078	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	73,895  19,740 2,228 30,156 52,124  5,214 3,567 3,761 9,984 3,129 3,194 3,775 2,958 5,576	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1 3 5 5
Evaluation of Systems - Annual Maintenance Report  PROJECT OVERSIGHT  Landfill Field Inspection Health and Safety Plan Project Manager (emergency response; meetings, budgeting, invoicing, procurement, etc.)  SOLAR PROJECT ASSISTANCE  Wetland Delineation T&E Review/Agency Consult Phase I ESA Phase II ESA BEA DCP of DDCC Cuttural Desktop JPA Permitting	5 5.1 5.2 5.3 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8	555	1,222 9,870 1,114 15,078 5,214 3,567 3,761 9,984 3,129 3,194 3,775 2,958 2,788	\$ \$\$\$ \$\$\$\$\$\$\$\$	9,870 1,114 15,078 - - - - - - 2,788	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	73,895  19,740 2,228 30,156 52,124  5,214 3,567 3,761 9,984 3,129 3,194 3,775 2,958 5,576	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1: 33: 5: