

OFFICE OF THE CITY ATTORNEY
DAWN MCINTOSH, City Attorney
411 West Ocean Boulevard, 9th Floor
Long Beach, CA 90802-4511

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FOURTH AMENDMENT TO AGREEMENT NO. 34467

34467

THIS FOURTH AMENDMENT TO AGREEMENT NO. 34467 is made and entered, in duplicate, as of August 9, 2023 for reference purposes only, pursuant to a minute order adopted by the City Council of the City of Long Beach at its meeting on August 8, 2023, by and between AECOM TECHNICAL SERVICES, INC., a California corporation ("Contractor"), with a place of business at 3995 Via Oro Avenue, Long Beach, California 90810, and the CITY OF LONG BEACH, a municipal corporation ("City").

WHEREAS, City requires specialized services requiring unique skills to be performed in connection with groundwater monitoring and reporting at former City Fuel Sites 7 and 17, and monitoring and maintaining the landfill gas control system at Davenport Park; and

WHEREAS, City and Contractor (the "Parties") entered into Agreement No. 34467 (the "Agreement") whereby Contractor agreed to provide these services, in addition to services at other City sites; and

WHEREAS, on September 13, 2016, City Council awarded a contract to AECOM as part of its adoption of RES 16-005 to provide services that would result in the accelerated removal of contaminants at closed City fuel sites more particularly described in Exhibit "A-1" and Exhibit "A-2", incorporated by this reference as if fully set forth herein; and

WHEREAS, on March 17, 2020, the Parties entered into a First Amendment to the Agreement to add additional services to the Scope of Work for the design and monitoring of a project to control methane landfill gases at Davenport Park and increase the Agreement amount by \$160,000 for a total Agreement amount not to exceed \$1,782,380 for the period ending on September 30, 2021 more particularly described in Exhibit "A-3", incorporated by this reference as if fully set forth herein; and

WHEREAS, on January 19, 2021, the Parties entered into a Second Amendment to complete construction drawing, bid assistance and construction

1 administration of the Davenport Park landfill gas emissions project, increasing the
2 Agreement amount by \$98,765 for a total not to exceed Agreement amount of
3 \$1,884,145 and add additional services to the Scope of Work more particularly described
4 in Exhibit "A-4", incorporated by this reference as if fully set forth herein; and

5 WHEREAS, on September 13, 2021, the Parties entered into a Third
6 Amendment to extend the term of the contract for an additional two-year period, increase
7 the Agreement amount by \$629,393 for the continued monitoring of the contaminants at
8 former fuel sites 7, 10, 11, and 17, and the continued monitoring and design plan for
9 control of methane landfill gases at Davenport Park more particularly described in Exhibit
10 "A-5", incorporated by this reference as if fully set forth herein; and

11 WHEREAS, the cases at former City fuel sites 10 and 11 have been closed
12 after successful remediation of the contaminants at these locations; and

13 WHEREAS, this contract extension and increase to the contract amount is
14 needed for continued groundwater and landfill gas monitoring for Davenport Park, and to
15 complete the remediation, monitoring, and reporting for fuel sites 7 and 17. Continued
16 treatment is needed at the former fuel sites as the biodegradation of the contaminants
17 progressed at a slower rate than initially projected. Groundwater and landfill gas
18 monitoring for Davenport Park is required to maintain compliance with the Water Board
19 and Los Angeles County Department of Public Health; and

20 WHEREAS, therefore, the Parties desire to extend the term of the contract
21 to September 30, 2026 and increase the Agreement amount by \$1,333,715 for the period
22 of October 1, 2023 to September 30, 2026 for an aggregate contract amount not to
23 exceed \$3,844,253 for the Scope of Work and Rates and Charges more particularly
24 described in Exhibit "A-6", attached hereto and incorporated by this reference;

25 NOW, THEREFORE, in consideration of the mutual terms, covenants, and
26 conditions herein contained, the Parties agree as follows:

- 27 1. Section 1.A. of the Agreement is hereby amended to read as follows:
28 "A. Contractor shall furnish specialized services more particularly

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1 described in Exhibit "A-1", Exhibit "A-3", Exhibit "A-4", Exhibit "A-5", Exhibit "A-6",
2 attached to this Fourth Amendment, and incorporated by this reference, in
3 accordance with the standards of the profession, and City shall pay for these
4 services in the manner described below, in the amount not to exceed an
5 aggregate contract amount of Three Million Eight Hundred Forty-Four Thousand
6 Two Hundred Fifty-Three Dollars (\$3,844,253), at the rates or charges shown in
7 Exhibit "A-2", Exhibit "A-3", Exhibit "A-4", Exhibit "A-5", and Exhibit "A-6". For the
8 period of October 1, 2023 to September 30, 2026, Exhibit "A-6" shall control.

9 2. The term of this Agreement shall be deemed to have commenced at
10 midnight on October 1, 2016 and shall terminate at 11:59 p.m. on September 30, 2026,
11 unless sooner terminated as provided in this Agreement, or unless the services or the
12 Project is completed sooner;

13 3. Exhibit "A-6" to Agreement No. 34467 is attached hereto and
14 incorporated by this reference.

15 4. Except as expressly modified herein, all of the terms and conditions
16 contained in Agreement No. 34467 are ratified and confirmed and shall remain in full
17 force and effect.

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IN WITNESS WHEREOF, the Parties have caused this document to be
duly executed with all formalities required by law as of the date first stated above.

AECOM TECHNICAL SERVICES, INC., a
California corporation

August 10, 2023

By Jay F. Francisco
Name Jay Francisco
Title Associate Vice President

_____, 2023

By _____
Name _____
Title _____

EXECUTED PURSUANT
TO SECTION 301 OF
THE CITY CHARTER.

"Contractor"

CITY OF LONG BEACH, a municipal
corporation

August 17, 2023

By Linda J. Jakum
City Manager

"City"

This Fourth Amendment to Agreement No. 34467 is approved as to form on
August 10, 2023.

DAWN MCINTOSH, City Attorney

By [Signature]
Deputy



AECOM Technical Services, Inc. 213.593.8100 tel
300 South Grand Avenue 213.593.8730 fax
9th Floor
Los Angeles, CA 90071
www.aecom.com

SECRETARY'S CERTIFICATE

AECOM TECHNICAL SERVICES, INC. a California corporation

I, Armond Tatevossian, DO HEREBY CERTIFY that I am a duly elected and acting Secretary of AECOM Technical Services, Inc., a corporation organized under the laws of the State of California ("ATS" or "Corporation"), and the keeper of its records and corporate seal.

I FURTHER CERTIFY that the Corporation's principal place of business is 300 South Grand Avenue, 9th Floor, Los Angeles, California 90071.

I FURTHER CERTIFY that the signature of one officer or the signature of person other than an officer is acceptable if the bid is accompanied by a certified corporate resolution granting authority to said person to execute contracts on behalf of the corporation.

I FURTHER CERTIFY that pursuant to the Written Consent of the Board of Directors of ATS, adopted on July 12, 2023, and attached hereto as Exhibit A, Jay Francisco has signatory authority for ATS and is authorized to execute contracts and other documents on behalf of the Corporation.

IN WITNESS WHEREOF, I have subscribed my name and affixed the seal of the Corporation, this 10th day of August, 2023.

Armond Tatevossian
Secretary



**UNANIMOUS ACTION OF THE BOARD OF DIRECTORS
OF
AECOM TECHNICAL SERVICES, INC.**

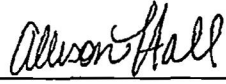
The undersigned, being all the members of the Board of Directors of AECOM TECHNICAL SERVICES, INC. (the "Corporation"), a California corporation, hereby take the following action:

RESOLVED: That, "the following U.S. based persons are designated with authority by the Board of Directors to execute contracts and other legal documents on behalf of the Corporation within the boundaries of specific Regions and Business Lines as noted and effective as of the dates set forth below:"

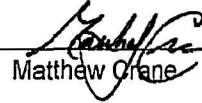
Effective July 12, 2023:

Last Name	First Name	Region	Business Line
Francisco	Jay	West	Environment

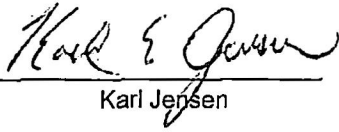
IN TESTIMONY WHEREOF, all the Directors have hereunto set their hands this 12th day of July, 2023.



Allison Hall



Matthew Crane



Karl Jensen



Armond Tatevossian

EXHIBIT A-6

City of Long Beach Proposal Fiscal Years 2024-2026

Agreement No. 34467
Effective September 14, 2016

April 28, 2023

Mr. Oliver Cruz
Fuel Operations Program Officer
Financial Management | Fleet Services Bureau
2600 Temple Avenue, Long Beach, CA 90806

Prepared for:

City of Long Beach
Mr. Oliver Cruz
Fuel Operations Program Officer
Financial Management | Fleet Services Bureau
2800 Temple Avenue, Long Beach, CA 90806

Prepared by:

Assaf A. Rees, PE
Engineering Manager
T: +1 562 277 6476
E: assaf.rees@aecom.com

AECOM
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1. Introduction

AECOM Technical Services, Inc. (AECOM) is pleased to submit this proposal to the City of Long Beach, California (the City) for the extension and modification of Agreement 34467 (the Contract) between AECOM and the City, effective September 14, 2016.

The Contract term ends on September 30, 2023 and is hereby proposed to be extended for an additional two years, from October 1, 2023 through September 30, 2026 (Fiscal Years 2024 through 2026 [FY24-FY26]) with the following objectives:

1. Complete groundwater monitoring and reporting (M&R) and remediation at the City's Fire Stations 7 and 17 (FS7 and FS17, respectively).
 - 1.1. The scope of work is being performed under the supervision of the Los Angeles Regional Water Quality Control Board (LARWQCB) and in compliance with the sites' approved Remedial Action Plans (RAPs) (March 20, 2019 and November 16, 2018, respectively) and the FS7 Waste Discharge Requirements (WDR) R4-2014-0187 and Monitoring and Reporting Program (MRP) No. CI-10484 (August 21, 2019).
 - 1.2. A *Case Closure Request* was submitted to the LARWQCB for FS17 in November 2022. Scope of work is to continue until a Case Closure and No Further Action letter is provided. The assumption based on past experience with Fire Stations 10 and 11 is that the regulatory closure process will take the LARWQCB two years to complete (i.e., FY23-FY24).
2. Perform groundwater M&R, landfill gas (LFG) M&R, and LFG control at the City's former Paramount Landfill in Davenport Park.
 - 2.1. The groundwater M&R scope of work is being performed under the supervision of the LARWQCB and in compliance with the site's WDR R4-2016-0361 and MRP No. CI-8327A (December 14, 2016).
 - 2.2. The LFG scope of work is being performed in accordance with the regulatory requirements of the Los Angeles County Department of Public Health, acting as the Local Enforcement Agency (LEA).
 - 2.2.1. LFG M&R in accordance with the *Work Plan for Landfill Gas Monitoring Infrastructure Development, Revision 3* (November 20, 2019), approved by the LEA on December 4, 2019.
 - 2.2.2. LFG control will be achieved via a system that is currently under construction by the City Department of Public Works with a completion date in June 2023. The system is planned for testing, startup, routine operations and maintenance (O&M), and M&R during the second part of FY23 under the current contract with AECOM and in compliance with the South Coast Air Quality Management District (SCAQMD) Permit to Operate Nos. A/N 625339, 625340, and 625341 (March 2, 2022).

2. Scope of Work

The scope of work for the City of Long Beach sites in FY24-FY25 consists of two main tasks, in accordance with the objectives specified above. Detailed descriptions are included below.

2.1 Fire Stations 7 and 17

Semiannual Groundwater M&R and remediation is ongoing at these sites. Both stations have operating biosparge systems for in situ aerobic bioremediation of gasoline constituents in groundwater, specifically benzene and MTBE (methyl tert-butyl ether). Fire Station 7 also has an approved in situ chemical oxidation (ISCO) remedy with one injection event performed in October 2019 and another in August 2022.

The term for the FS17 scope is only for the Long Beach Fiscal Year 2024 (i.e., October 1 through September 30), assuming case closure will be provided by September 2024. At FS7, the scope will continue through FY26 and include three additional ISCO injection events. Case closure at FS7 could therefore be requested by FY26, but a closure letter may require additional time for the LARWQCB to provide.

2.1.1 Field Tasks

To complete the scope of work, the following field tasks are proposed:

1. Eight semiannual groundwater monitoring events, Six at FS7 and two at FS17, including gauging and sampling of groundwater monitoring wells (13 and 20 wells, respectively). Events to include:
 - 1.1. Labor for planning, permitting, procurement, and performance;
 - 1.2. Field vehicles, equipment, and materials/supplies; and
 - 1.3. Laboratory analysis and investigative waste disposal services to include disposal of up to two drums on nonhazardous liquid waste.
2. Weekly operations, maintenance, and monitoring (OM&M) events of biosparging systems at FS7 (156 weeks) and FS17 (52 weeks), in accordance with the systems' OM&M Manuals. Events to include:
 - 2.1. Labor for planning and performance; and
 - 2.2. Field vehicles, equipment, and materials/supplies.
3. Three ISCO injection events at FS7 using base-activated sodium persulfate in accordance with the approved Remedial Action Plan Addendum (AECOM, 2019) and the site WDR MRP (LARWQCB 2019). Events to include:
 - 3.1. Labor for planning, permitting, procurement, and performance;
 - 3.2. Field vehicles, equipment, materials;
 - 3.3. Remedial reagent chemicals, up to pounds of 23,700 pounds of sodium persulfate and 42,000 pounds of sodium hydroxide; and
 - 3.4. Up to 15 days of injection services.

2.1.2 Deliverables

1. Eight semiannual *Groundwater Monitoring and Remedy Progress Reports*, Six at FS7 and two at FS17, will be prepared and submitted to the LARWQCB, by January 15 and July 15 each year, including accompanying data files, via the online Geotracker portal. The reports will be consistent with reports submitted in 2022 in format and content and include:
 - 1.1. Tabulated groundwater elevation, water quality, and chemical data for the period and historically;
 - 1.2. Site maps showing site features and conditions in three dimensions;
 - 1.3. Contour maps and charts depicting the nature and extent of impacts to groundwater;
 - 1.4. Tables and charts presenting system operations data;
 - 1.5. Summary of field activities and results;
 - 1.6. Summary of the remedial action and progress; and
 - 1.7. Planned activities.
2. Six semiannual *WDR Reports* will be prepared for FS7 and submitted to the LARWQCB, by January 15 and July 15 each year, including accompanying data files, via the online Geotracker portal. The reports will be consistent with reports submitted in 2022 in format and content and include:
 - 2.1. Tabulated groundwater elevation, water quality, and chemical data for the period;
 - 2.2. Site map showing the site layout and injection locations;
 - 2.3. Summary of field activities; and
 - 2.4. Certification statements.

2.2 Davenport Park

Semiannual Groundwater M&R and quarterly LFG M&R is ongoing. The LFG control system O&M and M&R (weekly, monthly, quarterly, and annual requirements) will be ongoing by this proposal's period of performance.

2.2.1 Field Tasks

1. Six semiannual groundwater monitoring events, including gauging and sampling of three groundwater monitoring wells and three piezometers. Events to include:
 - 1.1. Labor for planning, street work permitting (excluding fee payment), subcontractor procurement, and performance;
 - 1.2. Field vehicles, equipment, and materials; and
 - 1.3. Traffic control, laboratory analysis, and investigative waste disposal services.
2. Thirty Six (36) monthly LFG monitoring events, including field measurement of gas concentrations at 24 LFG and perimeter monitoring probes, sampling of one probe per event, and structure methane sensor calibration and data download. Events to include:
 - 2.1. Labor for planning, procurement, and performance;
 - 2.2. Field vehicles, equipment, and materials; and
 - 2.3. Laboratory analytical services.
3. Three annual LFG control system source tests. Events to include:
 - 3.1. Labor for planning, procurement, and performance;
 - 3.2. Field vehicles, equipment, and materials; and
 - 3.3. Source testing and laboratory analytical services.
4. 154 weekly, 36 monthly, and 12 quarterly OM&M events of the LFG control system. Events to include:
 - 4.1. Labor for planning, procurement, and performance;
 - 4.2. Field vehicles, equipment, and materials; and
 - 4.3. Laboratory analytical services.

2.2.2 Deliverables

1. Six semiannual *WDR Groundwater Monitoring Reports* will be prepared and submitted to the LARWQCB, by April 30 and October 30 each year, including accompanying data files, via the online Geotracker portal. Reports will be consistent with reports submitted in 2022 in format and content and include:
 - 1.1. Tabulated groundwater elevation, water quality, and chemical data for the period and historically;
 - 1.2. Site maps showing site features and conditions;
 - 1.3. Contour/post maps and charts depicting the nature and extent of impacts to groundwater;
 - 1.4. Tables and charts presenting statistical analysis data;
 - 1.5. Summary of field activities and results; and
 - 1.6. Planned operations.
2. Twelve quarterly *Landfill Gas Monitoring and Control Reports* will be prepared and submitted to the LEA, by January 30, April 30, July 30, and October 30 each year. Reports will be consistent with reports submitted in 2022 in format and content and include:
 - 2.1. Tabulated LFG monitoring and analytical data for the period and historically;
 - 2.2. Site maps showing site features and depicting the measured methane concentrations;
 - 2.3. Summary of field activities and results; and
 - 2.4. Planned operations.
3. Three annual *Source Test Reports* will be prepared and submitted to the SCAQMD. Reports to include:
 - 3.1. Tables presenting system and test parameters;
 - 3.2. Tables presenting emissions analytical data; and
 - 3.3. System description and Summary of test activities and results.

4. Three annual *LFG Control System Operations Reports* will be prepared and submitted to the SCAQMD. Reports to include:
 - 4.1. Tables and charts presenting system operations data;
 - 4.2. Tables and charts presenting LFG concentration and composition data;
 - 4.3. Tables and charts presenting LFG mass and volume removal and destruction efficiency;
 - 4.4. Site maps showing site, landfill, and system features;
 - 4.5. System description and Summary of system OM&M activities and results; and
 - 4.6. Planned operations.

3. Cost Estimate

AECOM will complete the above scope of work on a time and materials basis for an estimated cost of **\$1,333,714**. A detail of labor and reimbursable rates and costs is provided in **Appendix A**. Amended bill categories and rates for the contract extension are included in **Appendix B**. Fees and costs will be billed to the City on an accrued time and materials basis in accordance with Contract No. 34467 between AECOM and the City (dated September 14, 2016, fully executed on December 28, 2016, and amended on May 5, 2020 and January 21, 2021).

4. Assumptions

The level of effort and estimated cost to perform the SOW described in this proposal is based upon the following assumptions:

1. The cost estimate is based on known Site conditions and current regulations.
2. The cost estimate is based on current costs with up to 10% added for inflation to account for price increases in vendors and subcontractors' previously provided rates.
3. LEA, SCAQMD, LARWQCB, Long Beach Energy Services, Southern California Edison, and any other applicable agency, utility, and/or permit fees will be paid directly by the City.
4. Groundwater remediation, monitoring, and reporting at FS17 were costed for FY24 only, under the assumption that case closure will be approved by the LARWQCB by September 2024.
5. Case closure at FS7 could be requested following FY26. A closure letter will require additional time for the LARWQCB to provide, which is outside AECOM's control.
6. Site access will be facilitated by the City; therefore, no standby time will be incurred.
7. Field work will not be delayed or obstructed due to ongoing activities at each Site.
8. AECOM will work with the City to minimize impacts to existing site activities but will not be held responsible for interruptions to ongoing activities at each Site due to our scope of work.
9. All field work will be completed under Level D or modified level D personal protective equipment.
10. Laboratory analytical costs are based on a normal turnaround time (10 business days) for groundwater and vapor analysis at an off-site fixed laboratory.
11. Liquid wastes are assumed to all be classified as non-hazardous as defined by Federal and California Environmental Protection Agencies. AECOM will not assume ownership of any waste.
12. One round of review and up to four labor hours were budgeted to address reviewer comments and revise and resubmit each report, if needed. AECOM will notify the City before beginning this task if the labor effort to address requests for additional information and/or documentation exceeds our estimate of labor hours.
13. A cost and/or schedule adjustment may be necessary if changes to these assumptions occur during the course of the project.

5. Limitations

The City agrees that AECOM shall be required to use only reasonable efforts, consistent with the practice of other professionals engaged in similar activity, in the course of fulfilling AECOM's duties under this proposal. AECOM is not responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time the project was performed.

AECOM appreciates the opportunity to submit this proposal to the City. If you have any questions or require additional information, please contact Assaf Rees at assaf.rees@aecom.com or 562-277-6476.

Sincerely,

AECOM Technical Services, Inc.



Assaf Rees, P.E.
Engineering Manager



Mike Arvidson
Associate Vice President, Sr. Operations Manager

Appendix A
Cost Estimate

CONTRACT 34467 - EXTENSION TO FISCAL YEARS 2024-2026 COST ESTIMATE												
Groundwater Remediation and Landfill Gas Control, Monitoring, Operations, Maintenance, and Reporting City of Long Beach Fire Stations 7 and 17 and Davenport Park/Former Paramount Landfill												
	Fire Station 7 - Groundwater M&R + Remediation		Fire Station 17 - Groundwater M&R + Remediation		Davenport Park - Landfill Gas M&R + Landfill Gas		Davenport Park - LFG Control System OM&MR		TOTAL			
	Hourly	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours		Cost
Labor												
Engineering Sr. Manager	\$	200.00	\$	48,000.00	\$	20,800.00	\$	40,800.00	\$	45,600.00	\$	155,200.00
Engineer Sr. Manager	\$	120.00	\$	474	\$	16,080.00	\$	58,320.00	\$	36,000.00	\$	36,000.00
Engineer III	\$	160.00	\$	-	\$	-	\$	-	\$	600	\$	203,280.00
Science Manager	\$	105.00	\$	-	\$	-	\$	-	\$	96	\$	15,360.00
Scientist III	\$	180.00	\$	3	\$	540.00	\$	360.00	\$	60	\$	6,300.00
Project Director	\$	105.00	\$	18	\$	1,890.00	\$	210.00	\$	6	\$	1,080.00
Administrator V	\$	120.00	\$	3	\$	360.00	\$	120.00	\$	2	\$	240.00
Administrator Manager	\$	92.00	\$	12	\$	1,104.00	\$	368.00	\$	10	\$	1,200.00
GIS III	\$	180.00	\$	48	\$	7,680.00	\$	10,880.00	\$	36	\$	3,312.00
DB Director	\$	140.00	\$	12	\$	1,680.00	\$	560.00	\$	144	\$	23,040.00
Scientist V	\$	120.00	\$	4	\$	480.00	\$	1,200.00	\$	36	\$	5,040.00
Scientist IV	\$	120.00	\$	16	\$	1,920.00	\$	1,920.00	\$	60	\$	8,400.00
Technical Sr. Manager	\$	140.00	\$	45	\$	6,300.00	\$	1,820.00	\$	51	\$	7,140.00
Technical Manager	\$	120.00	\$	368	\$	43,920.00	\$	39,360.00	\$	78	\$	9,360.00
Engineer II	\$	105.00	\$	48	\$	5,040.00	\$	-	\$	408	\$	42,840.00
Technician V	\$	105.00	\$	300	\$	21,000.00	\$	5,600.00	\$	855	\$	89,775.00
Technician II	\$	60.00	\$	102	\$	6,120.00	\$	1,920.00	\$	855	\$	59,850.00
CAD I	\$	60.00	\$	18	\$	1,080.00	\$	360.00	\$	39	\$	2,160.00
Administrator I	\$	60.00	\$	18	\$	1,080.00	\$	360.00	\$	39	\$	2,160.00
Labor Subtotal			\$	201,594.00	\$	89,938.00	\$	165,970.00	\$	3673	\$	418,887.00
Subcontractors												
Analytical Laboratory - Air-ALS	\$	2,100.00	\$	12	\$	25,200.00	\$	4,200.00	\$	2,804.00	\$	93,060.00
Analytical Laboratory - Water - Eurofins	\$	350.00	\$	6	\$	2,100.00	\$	700.00	\$	6	\$	2,100.00
Waste Disposal - KVAC Env	\$	875.00	\$	15	\$	120,000.00	\$	-	\$	6	\$	5,250.00
Traffic Control - Statewide	\$	8,000.00	\$	15	\$	120,000.00	\$	-	\$	3	\$	1,500.00
ISCO Injection - Legacy	\$	500.00	\$	-	\$	-	\$	-	\$	-	\$	-
Electrician - Southland	\$	500.00	\$	-	\$	-	\$	-	\$	-	\$	-
Subtotal Subcontractors	\$	10%	\$	147,900.00	\$	4,900.00	\$	31,554.00	\$	31,554.00	\$	96,050.00
Markup	\$	10%	\$	14,790.00	\$	490.00	\$	3,155.40	\$	3,155.40	\$	27,981.40
Total Subcontractors	\$	10%	\$	162,690.00	\$	5,390.00	\$	34,709.40	\$	34,709.40	\$	105,666.00
Other Direct Costs												
Field Rental Equipment/Supplies	\$	100.00	\$	5,100.00	\$	1,800.00	\$	3,690.00	\$	5,400.00	\$	15,990.00
Field Materials/Supplies	\$	100.00	\$	3,360.00	\$	1,020.00	\$	1,500.00	\$	1,560.00	\$	7,440.00
Vehicle Use	\$	100.00	\$	11,100.00	\$	3,480.00	\$	3,300.00	\$	156	\$	15,600.00
Equipment Use	\$	100.00	\$	47,850.00	\$	-	\$	-	\$	-	\$	4,500.00
Sodium Persulfate	\$	100.00	\$	25,245.00	\$	-	\$	-	\$	-	\$	47,850.00
Sodium Hydroxide	\$	100.00	\$	1,511.40	\$	-	\$	-	\$	-	\$	25,245.00
City Borehole Permit	\$	100.00	\$	94,166.40	\$	6,220.00	\$	8,490.00	\$	27,060.00	\$	135,936.40
Subtotal ODCs	\$	10%	\$	94,166.40	\$	6,220.00	\$	8,490.00	\$	27,060.00	\$	135,936.40
Markup	\$	10%	\$	9,416.64	\$	622.00	\$	849.00	\$	2,706.00	\$	13,593.64
Total ODCs	\$	10%	\$	103,583.04	\$	6,842.00	\$	9,339.00	\$	29,766.00	\$	149,530.04
TOTAL COST			\$	467,207.04	\$	102,770.00	\$	300,079.40	\$	511,910.00	\$	876,377.44

Appendix B

Bill Categories and Rates

**CONTRACT 34467 - EXTENSION TO FISCAL YEARS 2024-2025
BILL CATEGORIES AND RATES**

Level	Engineer	Scientist	GIS/CAD/DB	Technician/ Admin	Project Management
I	\$ 92.00	\$ 80.00	\$ 60.00	\$ 60.00	-
II	\$ 105.00	\$ 92.00	\$ 70.00	\$ 70.00	-
III	\$ 120.00	\$ 105.00	\$ 80.00	\$ 80.00	-
IV	\$ 140.00	\$ 120.00	\$ 92.00	\$ 92.00	-
V	\$ 160.00	\$ 140.00	\$ 105.00	\$ 105.00	-
Manager	\$ 180.00	\$ 160.00	\$ 120.00	\$ 120.00	\$ 140.00
Sr. Manager	\$ 200.00	\$ 180.00	\$ 140.00	\$ 140.00	\$ 160.00
Director	\$ 220.00	\$ 200.00	\$ 160.00	-	\$ 180.00
Sr. Director	-	-	-	-	\$ 200.00
Principal	-	-	-	-	\$ 240.00