

THIRD AMENDMENT TO PROFESSIONAL CONSULTANT SERVICES AGREEMENT

ECOTEC SOLUTIONS, INC.

Monitoring, Reporting and Associated Operation Services for the
Tequesquite Landfill, Gas Collection System and Flare, Riverside, California (RFP No. 2097)

THIS THIRD AMENDMENT TO PROFESSIONAL CONSULTANT SERVICES AGREEMENT (“Third Amendment”) is made and entered into this _____ day of _____, 2024, by and between the CITY OF RIVERSIDE, a California charter city and municipal corporation (“City”), and ECOTEC SOLUTIONS, INC., a California corporation (“Contractor”), with respect to the following:

RECITALS

WHEREAS, the City and Contractor entered into that certain Professional Consultant Services Agreement dated November 4, 2021 (“Agreement”); and

WHEREAS, the City and Contractor entered into a First Amendment to Professional Consultant Services Agreement dated December 21, 2022 (“First Amendment”); and

WHEREAS, the City and Contractor entered into a Second Amendment to Professional Consultant Services Agreement dated December 14, 2023 (“Second Amendment”); and

WHEREAS, the Agreement is set to expire on June 30, 2024; and

WHEREAS, the City is satisfied with Contractor’s performance under the Agreement and desires to have Contractor continue providing the services referenced in that Agreement; and

WHEREAS, the City and Contractor would like to exercise their first-term extension option under paragraph 2 of the Agreement to extend the term of the Agreement for one (1) additional one (1)-year term, to June 30, 2025; and

WHEREAS, the City and Contractor would like to add additional compensation in the amount of Ninety Thousand Four Hundred Seventy-Eight Dollars and Eight Cents (\$90,478.08), for the extended term of the Agreement.

NOW, THEREFORE, incorporating the recitals set out above, the parties hereto mutually agree to the following amendment to the Agreement.

1. Section 2, Term, is hereby amended to extend the term of the Agreement to June 30, 2025.

2. Section 3, Compensation/Payment, is hereby amended to increase the compensation in the amount of Ninety Thousand Four Hundred Seventy-Eight Dollars and Eight Cents (\$90,478.08), for the extended term of the Agreement.

3. Exhibit "A" of the Agreement is hereby amended and replaced in its entirety with Exhibit "A-3," attached hereto and incorporated herein by this reference.

4. Exhibit "B" of the Agreement is hereby amended and replaced in its entirety with Exhibit "B-3," attached hereto and incorporated herein by this reference.

5. Exhibit "C" of the Agreement is hereby amended and replaced in its entirety with Exhibit "C-3," attached hereto and incorporated herein by this reference.

6. All other terms and conditions of the Agreement between the parties, which are not inconsistent with the terms of this Third Amendment, shall remain in full force and effect as if fully set forth herein.

[SIGNATURES ON FOLLOWING PAGE.]

IN WITNESS WHEREOF, the parties hereto have caused this Third Amendment to Professional Consultant Services Agreement to be duly executed the day and year first above written.

CITY OF RIVERSIDE,
a California charter city and municipal
corporation

ECOTEC SOLUTIONS, INC., a California
corporation

By: _____
City Manager

By: Kristopher Boswell
Print Name: KRISTOPHER BOSWELL
Its: VICE PRESIDENT
(Signature of Board Chair, President, or
Vice President)

Attest: _____
City Clerk

and

Certified as to Availability of Funds:

By: K. W. [Signature]
Chief Financial Officer

By: Kay Schlotfeldt
Print Name: KAY SCHLOTFFELDT
Its: SECRETARY
(Signature of Secretary, Assistant
Secretary, CFO, Treasurer, or Assistant
Treasurer)

Approved as to Form:

By: [Signature]
Deputy City Attorney

EXHIBIT "A-3"

SCOPE OF SERVICES

EXHIBIT A

Scope of Services

Proposers must have the capability of providing the full range of services outlined in the following Scope of Work:

A. Routine Monitoring and Associated Operations

Gas Extraction Well Field

Individual gas extraction wells and trench collectors need to be routinely monitored so that they can be tuned to effectively control emissions, prevent migration and realize optimum gas recovery. Routine monitoring should include analyses of the landfill gas (LFG) composition, temperature, and pressure at each gas extraction wells on a semimonthly basis, with tuning occurring monthly or as frequent as necessary to ensure proper management of the landfill gas. Measurements will also be taken at various sample ports in gas conveyance lines and at the inlet to the flare station to ensure that the individual well field sections as well as the total well field has appropriate vacuum.

Gas Conveyance Line

Monitor gas conveyance lines to identify locations of poor performance, excessive pressure drop or leakage.

Flare Station

Perform visual inspection of all above ground gas pipe systems, structures, and grounds; record flare data including gas composition and flow; record flare down time with proper documentation; and report to Regulatory Agencies as required. Provide digital storage of all above records as required and provide access to record by City personnel as requested.

Listed below are other routine monitoring and associated operation activities for the LFG and flare systems:

- Inspect LFG system for condensate leaks (weekly)
- Monitor and record flare station operation information including metrological station data (weekly)
- Monitor all condensate traps (weekly)
- Monitor record and adjust extraction wells (monthly)
- Monitor and record header sample ports (semimonthly)
- LFG probe monitoring (monthly)
- Condensate sump system check (weekly)
- Flare startup/shutdown report (monthly)
- Monthly operations reporting (monthly) – See Monthly Maintenance & Monitoring Progress Report below
- Operate flare to ensure treatment of collected LFG (continuous or as needed)
- Coordination (via e-mail, telephone, or on-site when necessary)

The selected contractor will not have any responsibility to perform the annual source test. Public Works Department coordinates the source test separate from this contract.

General Site Monitoring

At least monthly, perform visual inspection of overall site integrity and security and report to City staff any items for which maintenance or City consideration is recommended or necessary.

Monthly Monitoring Progress Report

Within 30 days of the last day of the reporting month, consultant shall prepare and deliver to the City, in electronic format, a monthly maintenance and monitoring progress report which at a minimum includes the following sections:

- Table of contents
- Purpose statement
- Background statement
- Monthly observation summary
- New items summary
- Corrective action summary
- Recommended action summary
- Well reading summary
- Surface emission monitoring summary
- Condensate trap monitoring results summary
- Probe monitoring report
- Concentration maps
- Flare and plant weekly call log
- Well balancing and tuning report
- Photographs of observations

It is understood that some parameters needed to populate select sections of the monthly maintenance and monitoring progress report may not be monitored on a monthly basis. It is expected that the progress report will include placeholders for these monitoring parameters and that they will only be updated when these activities are conducted consistent with the required monitoring frequency. The table of contents shall clearly identify when non-monthly monitoring parameters/activities have been updated.

B. Rule 1150.1 Compliance Monitoring and Reporting

Monitoring and reporting shall be conducted in accordance with the SCAQMD Rule 1150.1 Compliance Plan specifically prepared for the TL. Copies of the most recent two years of monitoring records shall be maintained at the site. An additional copy of all reports shall be provided to the City. Tasks include the following:

- Instantaneous surface monitoring and re-monitoring (quarterly)
- Integrated surface sampling (quarterly)

- Ambient air monitoring (quarterly)
- Landfill gas sampling, flare only (quarterly)
- Subsurface perimeter probe sampling (monthly)
- Quarterly reporting

C. Rule 1150.1 Quarterly Reporting

The Consultant will prepare and submit on behalf of the City, quarterly monitoring reports addressing all requirements in Rule 1150.1. Any incidence of actual or potential non-compliance shall be communicated to the City prior to submittal of any report and submittal postponed until approval to proceed is provided by the City. The report shall contain the following sections:

1. Introduction
 - Executive Summary
 - Instantaneous Surface Emissions Monitoring
 - Integrated Surface Emissions Sampling
 - Landfill Gas Sample Laboratory Results
 - Subsurface Perimeter Probe Monitoring
2. Instantaneous Surface Emissions Monitoring
 - Instantaneous Surface Emissions Monitoring Protocol
 - Instantaneous Surface Sampling Conditions
 - Instantaneous Surface Emissions Monitoring Results
3. Integrated Surface Emissions Monitoring
 - Integrated Surface Emissions Monitoring Protocol
 - Integrated Surface Sampling Conditions
 - Integrated Surface Sampling Results
 - Integrated Surface Sampling Laboratory Results
4. Subsurface Refuse Boundary Sampling Probes
 - Sampling Procedures for Subsurface Refuse Boundary Probes
 - Probe Analysis
5. Landfill Gas Sample
 - Landfill Gas Sampling Protocol
 - Landfill Gas Sample Results
6. Ambient Air Samples at the Landfill Property Boundary
 - Ambient Air Samplers
7. Field Equipment Specifications
 - Gas Extraction Monitor
 - Integrated Surface Sampler
 - Ambient Air Samplers
 - Tedlar Bags
8. Appendices
 - Appendix A (Instantaneous Monitoring Report)
 - Appendix B (Weather Data, Integrated Monitoring)
 - Appendix C (Lab Analysis, Chain of Custody)



STATEMENT OF UNDERSTANDING AND APPROACH

ECOTEC understands the need to routinely monitor each extraction well, gas conveyance line and the total flow entering the flare. We believe in proactive tuning and performing preventative maintenance. We also understand the security issues at this site and will be on site each week checking the perimeter and overall site conditions. ECOTEC has a good working relationship with Sun Power and routinely interact with their security staff. It is understood that preventative and other maintenance/repairs are not included in this project. Our experience performing this work and coordinating with the City's maintenance and operations staff over more than a decade will ensure a smooth transition while keeping the site operational and in compliance. Monitoring the probes and surface emissions is required. Data from these monitoring events will be used for both regulatory compliance and indication of when there are gross tuning problems or problems with the landfill cover. Exceedances in probe readings or surface emission require costly remediation and additional monitoring efforts. Early detection and proactive tuning to avoid these problems is much more cost efficient. In the past fifteen years ECOTEC's staff has been successful in preventing surface and subsurface emissions from the TL. We intend to keep this up by following monitoring schedule below and not just collecting data for regulatory reporting but evaluating the data and preventing problems before they occur. ECOTEC understands that routine and preventive tuning/adjustments of the wellfield is part of this project and has taken that into account in our monitoring budget. After the photovoltaic facility was constructed and there were some regulatory rule changes ECOTEC worked with the City to prepare and submit a revised monitoring plan to South Coast Air Quality Management District (SCAQMD). The plan is currently in the approval process. ECOTEC plans to continue providing regulatory liaison to facilitate the approval of the revised monitoring plan.

Continual Monitoring of the Flare

ECOTEC will monitor the flare continually for the following parameters and have the data stored digitally.

- Methane, Carbon Dioxide and Oxygen content in the landfill gas (LFG) entering the flare.
- Flare and LFG temperature
- Gas flow rate

Weekly Monitoring of Critical Gas System Components

The following items will be monitored weekly to ensure sound operations and safety of the site.

- Flare/Compressor Station Equipment, including all above ground gas pipe systems, structures, fluid levels and condensate containment vessels.
- Flare station operation
- LFG system for condensate leaks
- Manual condensate storage traps shall be observed for condensate level and leaks.
- Site security, perimeter fence condition and overall appearance

Semimonthly Monitoring of header Sample points

Header sample points will be monitored semimonthly to aid in system tuning and identify locations of poor performance, excessive pressure drop or leakage in the extraction system.

Monthly Monitoring and Reporting

ECOTEC will monitor and provide the following reports on a monthly basis to ensure effective tuning and communication of site conditions with the City.

- LFG extraction wells, monitoring and tuning. After each monitoring event is completed, well flow rate or vacuum adjustments for each well will be evaluated and implemented. Adjustments shall consist of varying the well's individual flow control valve as needed. After each adjustment is



performed, the system shall be allowed to reach equilibrium before any additional adjustments are made. Follow-up monitoring will be conducted, and extraction wells shall be adjusted in response to system balancing on an as needed basis. The goal is to achieve the highest MMBTU value possible while meeting regulatory compliance.

- Landfill Subsurface Perimeter Probes Monitoring
- Monitoring and Maintenance reports will be completed documenting the well, probe and condensate trap readings. All monitoring and other activities that were undertaken during the month will be documented and any security, safety or operational concerns found will be delineated in both written form and with a picture (where possible) to help the City see the site conditions. The report shall include recommendations regarding maintenance repairs and/or system modifications that ECOTEC feels would be useful. Additionally, weekly flare logs with shutdown and startup information will be included.
- Drainage devices shall be monitored, and their condition will be reported.
- The automatic shutdown feature of the flare will be tested to ensure the system shuts down as designed and LFG is not vented when the flare is off.

Quarterly Monitoring and Sampling for 1150.1

ECOTEC will provide all SCAQMD Rule 1150.1 monitoring and reporting for the TL site. We fully intend to advise the City in a timely fashion should we find results that are potentially sensitive as soon as they are received. Such activities as surface maintenance to address desecration and settlement cracks will be detailed in the monthly and quarterly reports.

In a similar fashion the teams experience with compliance for SCAQMD Rule 1150.1 enables us to avoid problems with operating the gas collection system. We intend to keep the system at maximize methane production and perform compliance monitoring. Additionally, ECOTEC has coordinated with the City to revise the 1150.1 monitoring plan to accommodate the new Photovoltaic system. The plan is in the approval process.

All work will be performed in accordance with SCAQMD Guidelines for Implementation of Rule 1150.1

Instantaneous Surface Monitoring (quarterly)

The entire surface of the landfill has been divided into monitoring grids. Each grid measures approximately 50,000 square feet in area. The monitoring grids shall be used for both instantaneous and integrated surface monitoring/sampling. Instantaneous measurements of TOC concentrations immediately above the surface of the grids shall be obtained using a portable flame ionization detector (FID), which meets Guideline specifications. The probe of the FID must be held within 3 inches of the landfill surface while traversing the monitoring grids. A surface inspection shall also be performed during instantaneous surface monitoring to identify cracks or fissures in the landfill cover that could be potential pathways for LFG to escape to the atmosphere. Surface areas of the landfill at which total organic compound (TOC) concentrations exceed 200 parts per million by volume (ppmv) shall be marked with flags, identifying the areas of remediation. To initiate remediation, the City Project Manager of the landfill shall be notified of exceedance areas, Instantaneous Surface Monitoring (ISM) Data Sheets shall be distributed to appropriate personnel. Following implementation of mitigation measures, exceedance areas must be re-tested. Consultant shall notify the City Project Manager, in writing, of any outstanding exceedances at the end of each month.

Integrated Surface Sampling (quarterly)

One integrated surface sample will be collected from each of the established sampling grids during each sampling event. Each grid measures approximately 50,000 square feet in area. Each integrated surface



sample must be collected over a continuous 25-minute period while a field technician walks a prescribed path over the sampling grid. The samples shall be collected not more than 3 inches above the surface of the landfill. Samples must be collected only when meteorological conditions meet the requirements for wind speed and precipitation found in the Guidelines. Sampling must be conducted on days when there had been no rain during the preceding 72 hours. Sampling shall be discontinued if instantaneous wind speeds are greater than 10 miles per hour (mph), or if the average wind speed over a 15-minute period exceeds 5 mph. ECOTEC working with the regulatory agency will ask for a variance to exclude this type of sampling since the SEM-500 will be used during the Instantaneous sampling and that data can be used for the Integrated sampling.

Ambient Air Sampling (semiannual)

Ambient air sampling, including field procedures and equipment, shall be conducted in accordance with Guidelines and the approved Compliance Plan for TL. Ambient air samplers must be positioned at the perimeter of the landfill to collect air samples representative of upwind (i.e., background) and downwind (i.e., air that has passed over the landfill surface) conditions at the site.

Sighting of ambient air sampler locations must be based on evaluation of historic wind monitoring data collected at the landfill. Sampler locations shall be established to provide good meteorological exposure to the predominant offshore and onshore win flows. Ambient air samplers are operated to meet SCAQMD design criteria and performance specifications found in the Guidelines. Light-sealed boxes containing individual 10-liter Tedlar sample bags are housed within each weather-tight, ambient air sampler.

Ambient air sampling will be conducted over two simultaneous 12-hour periods. One sample will be collected for each 12-hour period from each upwind and downwind sampler and will be forwarded to the laboratory for analyses.

Ambient air sampling will be conducted when weather conditions conform to the meteorological criteria specified in the Guidelines. These include:

- No rainfall during the sampling period
- Average wind speeds not exceeding 15 mph during any 30-minute period.
- Instantaneous wind speeds not exceeding 25 mph

LFG Monitoring (quarterly)

LFG samples shall be collected from the main LFG header line entering the compressor/flare station. At the site, a LFG sample will be collected in a 10-liter Tedlar bag (enclosed in a light-sealed box) over a 10-minute period.

Perimeter Probe Sampling (monthly)

Perimeter probe sampling shall be conducted using procedures described in the Guidelines. Prior to collecting a sample, each probe must be evacuated until the TOC concentration remains constant for a minimum of 30 seconds, as indicated on a LANDTEC GEM 2000 or 5000 instrument. Each perimeter probe sample shall be monitored monthly, lab samples will be taken quarterly.

In addition, each monitored probe containing greater than 2% Methane shall require ISM Monitoring on the area between the probes and refuse footprint. This task will be performed at the same interval as probe monitoring.

Quarterly Reporting

Within 30 days of the end of each quarterly period, ECOTEC shall prepare site specific Draft Rule 1150.1 Quarterly Monitoring Report for the review by the City. Upon receipt and incorporation of comments,



Consultant shall submit a finalized report for the City of Riverside which will be submitted to SCAQMD within 45 days of the end of each quarter. Each report shall include an executive summary, a separate discussion of each task completed, summary tables of field measurements and laboratory analytical results, and a site map showing the locations of all monitoring points. Field data sheets and laboratory analytical reports will be included as appendices.

Rule 1150.1 Laboratory Analyses

ECOTEC will use Atm AA Inc. to perform the laboratory analyses needed for 1150.1 rule. All samples will be analyzed in accordance with the EPA prescribed methods and within the required holding times.

Integrated Surface Sample Analyses

A minimum of two samples or 10% of all exceedances, whichever is greater, per event shall be submitted for laboratory analysis within 72 hours of collection for Methane, total gaseous non-Methane organic compounds (TGNMO), and core group toxic air contaminants.

Ambient Air Sample Analyses

Upwind and downwind air samples shall be analyzed within 72 hours of sample collection for Methane, TGNMO, and core group toxic air contaminants.

LFG Sample Analyses

LFG samples shall be submitted for laboratory analysis within 72 hours for fixed gases (i.e., Methane, carbon dioxide, oxygen, and nitrogen), TGNMO, hydrogen sulfide, and core group toxic air contaminants.

Perimeter Probe Sample Analyses

A maximum of three samples from the site must be collected and sent for laboratory analyses from those probes showing a TOC concentration in excess of 5% by volume. If no probes are found, through field measurement, to have TOC concentrations above 5% by volume, one sample shall be collection from the probe showing the highest TOC concentration during each event and submitted for laboratory analysis. Samples must be analyzed within 72 hours of collection for Methane, Carbon Dioxide, TGNMO, and core group toxic air contaminants.

Periodic “As Necessary” Tasks

Regulatory Liaison Support

Should it be necessary ECOTEC will provide the City with regulatory liaison support to address any questions SCAQMD has about the reports, data, conclusions derived or sample analysis. Additionally, ECOTEC will provide time to discuss revising the monitoring plan with the City’s Utility department to accommodate the solar farm and reduce monitoring.



COMPANY INFORMATION

ECOTEC Solutions, Inc. (ECOTEC)

ECOTEC specializes in the design and development of customized equipment and technology for gas collection, transmission, and treatment systems. ECOTEC personnel set to work on this project have over 25 years of experience in Landfill Gas (LFG) system design, build and operation. These personnel are currently performing the LFG operations of the Tequesquite Landfill and have been successfully providing these services over the past fifteen years (previously as LANDTEC North America). ECOTEC also offers products that serve to improve the accuracy and quality of data collection for use in our enterprise based software as well as those of our Clients. Technology development and integration is a key strength of ECOTEC. Our Datafield Software provides users a web accessible platform for data warehousing and reporting. Information is validated for data integrity, securely maintained, and presented in a number of formats including ad hoc reports, graphs, concentration maps, spatial plotting, and more. ECOTEC's innovation, ingenuity, and attention to detail provide continual advancements and opportunities for project developers, operators, and end users. We continue to modify and improve this system and enhancements are provided immediately to our clients. While ECOTEC is primarily a product supplier to the biogas and natural gas industries, it is very important to ECOTEC to keep a small highly qualified monitoring team that works on a few chosen sites. We are able to offer these sites the latest technologies, sometimes even before it is commercially available, and technicians that understand more about monitoring and the monitoring equipment being used than any others.

In addition, ECOTEC has expanded its global presence and has offices and facilities in Brazil, an instrument manufacturing company in the UK and in France. Below are the office locations that provide service work. All the work for this contract will be handled by the North American corporate office located in Colton, California. Additional information about the company is contained in Exhibit C.

ECOTEC Solutions, Inc.

850 S. Via Lata, Suite 115
Colton, CA 92324
USA
Tel: 909-906-1001 Fax: 909-906-1002
Web: www.ecotecco.com

GAZOMAT (France) an Ecotec Company

11 rue de l'Industrie BP 40101
67403 Illkirch-Graffenstaden Cedex
France
Tel: +33 0 1 85 65 04 37
Web: www.gazomat.com

ECOTEC England

Environmental Instruments LTD
Unit 5/6, The Mansley Centre
Timothy's Bridge Road,
Stratford-upon-Avon, Warwickshire, CV37 9NQ
Tel: + 44 01789 207459
Web: www.aqmesh.com

ECOTEC South America

Ecotec Produtos e Servicos Ambientais Ltda.
Rua Pedroso de Carmargo, 237 - Chácara
Santo Antonio - SP/SP CEP 0417-010
Brazil
Phone: +55(11) 5181-6591
Web: www.ecotecco.com.br

- Appendix D (Perimeter Probe Readings)
- Appendix E (Instrument Calibration Sheet)

D. Laboratory Analyses

The Consultant will ensure that the samples are analyzed within the EPA-prescribed holding times and are completed using the appropriate methods specified in SCAQMD Rule 1150.1

The Consultant will review reports from the laboratory to ensure that all required analyses have been performed, and to compare the results with historical data to pre-screen for anomalous or suspect results. Data anomalies will be identified and resolved with field and laboratory personnel.

E. Regulatory Liaison Support

The Consultant will provide the City with regulatory liaison support should the SCAQMD or the SARWQCB have any questions regarding reports, data, or conclusions derived from the data.

F. Solar Photovoltaic Facility

In 2014 Riverside Public Utilities (RPU) signed a Power Purchase Agreement with SunPower to build and operate a 7,300 KW solar photovoltaic (PV) facility on approximately 60 acres along the northern portion of the TL.

The solar PV facility is situated directly on top of the landfill cap and utilizes a ballasted racking system so as to prevent any penetration of the cap. The ballasted system will also serve to facilitate relocation of portions of the solar PV facility in the event of any unforeseen maintenance to the cap or LFG collection system is needed.

The Solar PV project is installed directly on the landfill cap and overlap the work area within which the requested services are to be provided. Consequently, consultant shall understand:

- A need to coordinate the services described herein throughout the duration of the construction of the solar PV facility; and thereafter
- Be prepared to work in close proximity to and/or immediately within the Solar PV facility as needed for activities such as gas collection well inspection, monitoring, tuning, and maintenance and surface gas monitoring. Consultant and its subcontractors shall be liable for any damages to the solar PV facility incurred during the course of providing the services outlined herein.



SCOPE OF WORK

ECOTEC is currently performing all the monitoring, sampling, testing, and reporting being proposed under the variance. We intend to keep doing so and use the existing monthly, quarterly, and biannual monitoring, sampling, and testing as partial fulfillment of the variance requirements. This scope of work defines the additional monitoring, sampling, testing, and reporting necessary. We assume that the variance will be in place for approximately 6 additional months (through Dec 2023) and have used that time frame for the gap analysis between the needs for the variance and the existing monitoring, sampling, testing, and reporting.

Perimeter Probe Monitoring

Currently ECOTEC is monitoring the probes monthly, the variance requires probes to be monitored at least every two weeks. The probes will be monitored at least once more per month, as necessary to monitor every two weeks.

Perimeter Probe Sampling and Testing

Currently ECOTEC samples and obtains laboratory testing of one probe each quarter. The variance requires at least one probe to be sampled and tested every two weeks. If there is landfill gas found in more than one probe, we may need to sample and laboratory test more than one. ECOTEC will sample and laboratory test one probe every two weeks and will notify the City if additional sampling and testing becomes necessary.

Ambient Air Monitoring

Currently ECOTEC samples and obtains laboratory testing of ambient air twice a year. The variance requires ambient air sampling and testing at least every two weeks along the southern boundary. ECOTEC will sample and laboratory test ambient air along the southern boundary every two weeks.

Wellhead Monitoring

Currently ECOTEC is monitoring the wellheads monthly, the variance requires wellheads to be monitored at least every two weeks. The wells will be monitored at least once more per month, as necessary to monitor every two weeks.

Integrated Surface Monitoring

Currently ECOTEC performs integrated surface monitoring of each of the established grids each quarter. The variance requires that monitoring be performed at least every two weeks. The site has approximately 100 grids, each approximately 50,000 square feet in area. Each grid must be monitored over a continuous 25-minute period while a field technician walks a prescribed path over the grid. The monitoring shall be done not more than 3 inches above the surface of the landfill and only when meteorological conditions meet the requirements for wind speed and precipitation. Monitoring must be conducted on days when there had been no rain during the preceding 72 hours. Monitoring shall be discontinued if instantaneous wind speeds are greater than 10 miles per hour (mph), or if the average wind speed over a 15-minute period exceeds 5 mph. When the weather is permitting ECOTEC will monitor each grid every two weeks.



Integrated Surface Sampling and Testing

Currently ECOTEC performs integrated surface sampling and laboratory testing for two grids each quarter. The variance requires that sampling and testing be done for at least two grids and up to 10% of the grids that are measured with more than 25ppmv TOC at least every two weeks. ECOTEC will sample and laboratory test two grids every two weeks and will notify the city if additional sampling and testing becomes necessary.

Instantaneous Surface Monitoring

Currently ECOTEC performs instantaneous surface monitoring of each of the established grids each quarter. The variance requires that monitoring be performed at least monthly. The site has approximately 100 grids, each approximately 50,000 square feet in area. Each grid must be monitored over a continuous 25-minute period while a field technician walks a prescribed path over the grid. The monitoring shall be done not more than 3 inches above the surface of the landfill and only when meteorological conditions meet the requirements for wind speed and precipitation. Monitoring must be conducted on days when there had been no rain during the preceding 72 hours. Monitoring shall be discontinued if instantaneous wind speeds are greater than 10 miles per hour (mph), or if the average wind speed over a 15-minute period exceeds 5 mph. When the weather is permitting ECOTEC will monitor each grid every month.

Reporting

Currently ECOTEC provides monthly monitoring and quarterly 1150.1 reports. With monitoring, sampling and testing being performed every two weeks we propose to report on the same basis. The existing reports will continue to be prepared and a more concise supplemental report that document the monitoring, sampling, and testing done each week will be provided to the city each week. The period will be Wednesday through Tuesday of the week. Each report shall include a summary of what monitoring, sampling and testing was completed, a separate discussion of each task completed, summary tables of field measurements and laboratory analytical results, and a site map showing the locations of all monitoring points.

Exhibit A – Scope of Work



City of Riverside Public Works
Bobby Gustafson
3900 Main Street
Riverside, CA 92522

February 9, 2024

RE: Extension of the Monitoring, Reporting and Associated Operation Services for the Tequesquite Landfill, Gas Collection System and Flare Riverside, California

Dear Mr. Gustafson,

Thank you for the opportunity to provide the City of Riverside with a proposal to continue the monitoring and reporting services at the Tequesquite Landfill for another year. ECOTEC is prepared and qualified to continue performing all the services. We are looking forward to continuing work for the City under the terms and conditions prescribed by the original Agreement.

ECOTEC's staff has been performing operations, maintenance, monitoring, and reporting services for the Tequesquite Landfill for over fifteen years. During that time, we have been successful in reducing the required monitoring by South Coast Air Quality Management District (SCAQMD) and keeping the system in compliance. ECOTEC has worked with Sun Power through the construction, implementation, and operation of the Photovoltaic Facility onsite. Recently ECOTEC successfully accomplish rigorous additional monitoring required by variance case 6157-2. We look forward to continuing to work with the City to ensure regulatory compliance and site safety.

ECOTEC is an innovative force. We have methane monitoring and detection instrumentation used globally and have developed software specifically for landfill monitoring and reporting which is used by the largest waste company in the US. Our staff has provided landfill engineering and technician training classes both domestically and abroad.

The attached proposal includes a detailed cost of the services for the same scope of services, terms and conditions in the original agreement for RFP 2097. If you have any questions or would like further information, please contact Mitchal Cassel at (909) 906-1001 extension 130.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mitchal Cassel', is written over a light blue horizontal line.

Mitchal Cassel
SVP Engineering
ECOTEC Solutions, Inc.

cc: Jamie Tooley, COO

EXHIBIT "B-3"
COMPENSATION

Exhibit B – Compensation



COST OF SERVICES

The scope of services, terms and conditions will remain the same as in the original agreement for RFP 2097. ECOTEC has kept the cost stable over the last three years. We are proposing a 3% increase for the 2024-2025 year to help offset some of the increases in internal costs for providing the service which we have encountered over the last three years.

Task	Frequency	Monthly Total	Quarterly Total	Annual Total
Routine O&M				
Inspect LFG system for condensate leaks	Weekly	\$267.80	\$803.40	\$3,213.80
Monitor & record flare station operation information	Weekly	\$267.80	\$803.40	\$3,213.80
Monitor all condensate traps	Weekly	\$267.80	\$803.40	\$3,213.80
Monitor, record and adjust extraction wells	Monthly	\$1,740.70	\$5,222.10	\$20,888.40
Monitor and record header sample ports	Semi-Monthly		\$803.40	\$3,213.80
LFG Probe monitoring	Monthly	\$267.80	\$803.40	\$3,213.80
Condensate sump system check	Weekly	\$267.80	\$803.40	\$3,213.80
Flare startup/shutdown report	Monthly	\$175.10	\$525.30	\$2,101.20
Monthly operations reporting	Monthly	\$875.50	\$2,626.50	\$10,506.00
Meetings and Coordination	Monthly	\$350.20	\$1,050.60	\$4,202.40
Field Inspection/Drainage report	Monthly	\$133.90	\$401.70	\$1,606.80
Rule 1150.1 Monitoring and Adjusting				
Instantaneous Surface Monitoring and Remonitoring	Quarterly		\$2,811.90	\$11,247.60
Integrated Surface Sampling	Quarterly		\$2,008.50	\$8,034.00
Ambient Air Monitoring	Quarterly		\$267.80	\$1,071.20
Landfill Gas Sampling (Flare Only)	Quarterly		\$80.34	\$321.36
Perimeter Probe Monitoring - Sampling	Monthly	\$200.85	\$602.55	\$2,410.20
Quarterly Reporting	Quarterly		\$1,339.00	\$5,356.00
		Sub-Total	\$4,815	\$21,756.69
		Discount (10%)	\$481.53	\$8,702.68
		Sub- Total	\$4,333.73	\$19,581.02
Reimbursables				
Equipment/Calibration Gases/Tedlar Bags	Quarterly		\$200.00	\$824.00
Lab Samples for 1150.1 (6 for 1150.1)	Quarterly		\$3,150.00	\$11,330.00
		Sub- Total	\$3,350.00	\$12,154.00
	Total	\$4,333.73	\$22,931.02	\$90,478.08

NOTE: Invoicing will be submitted on a monthly, progressive basis

EXHIBIT "C-3"

KEY PERSONNEL

Exhibit C – Key Personnel

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