



Distrito de Gestión de la Calidad del Aire de la Costa Sur
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**Formulario de Solicitud de Evaluación Acelerada del
Protocolo / Informe / CEMS / de las Pruebas en el Origen
LAP/ Certificación del Producto
Formulario 222-XST**

Sección I - Información sobre las Instalaciones

1. Nombre de la Empresa: Chiquita Canyon Landfill, LLC Código de Instalación: 119219
Equipo/ Dispositivo: Antorcha Cerrada de Biogás - Antorcha No. 1 de John Zink

2. La evaluación solicitada es para:

- a. ☐ Protocolo para realizar las Pruebas en el Origen
- b. ☒ Informe sobre las Pruebas en el Origen
- c. ☐ Solicitud de CEMS (Nueva)
- d. ☐ Solicitud de CEMS (Modificación)
- e. ☐ Evaluación de Aprobación de LAP
- f. ☐ Certificación del Producto (es decir, Reglas 1111, 1121, 1146.2 y 1174)

La Evaluación Acelerada no se realizará a menos que se marquen todas las declaraciones restantes:

- 3. ☒ Mediante el presente solicito una Evaluación Acelerada en el Origen para este documento.
- 4. ☒ Comprendo que esta solicitud podrá generar cargos adicionales después de completar la evaluación, como lo permite la Regulación III del Distrito.
- 5. ☒ Comprendo que esta solicitud no puede cancelarse una vez iniciada la evaluación.
- 6. ☒ Comprendo que esta solicitud de revisión acelerada no garantiza ninguna acción para ninguna fecha específica ni garantiza una aprobación.

Sección II - Certificación

MEDIANTE EL PRESENTE CERTIFICO QUE TODA LA INFORMACIÓN AQUÍ INCLUIDA Y LA INFORMACIÓN PRESENTADA CON ESTE DOCUMENTO ES VERÍDICA Y CORRECTA.

FIRMA DEL FUNCIONARIO RESPONSABLE DE LA EMPRESA:

CARGO DEL FUNCIONARIO RESPONSABLE DE LA EMPRESA:

Gerente de Distrito

ESCRIBA A MÁQUINA O EN IMPRENTA EL NOMBRE DEL FUNCIONARIO
RESPONSABLE DE LA EMPRESA:

Kevin Green

NÚMERO DE TELÉFONO:

(661) 812-5846

FIRMADO EL DÍA:

Informe sobre las Pruebas en el Origen para las Pruebas de Cumplimiento de 2026

Chiquita Canyon LLC

Vertedero de Chiquita Canyon, Código de Instalación 119219,
Castaic, California

Antorcha 1 (John Zink)

Elaborado para:	Cliente:	Instalaciones:
	SCS Engineers	Vertedero de Chiquita
	3900 Kilroy Airport Way, Ste. 300	29201 Henry Mayo Drive
	Long Beach, California 90806	Castaic, California 91384

Elaborado por:	Onterris Air Quality Services, LLC
	1631 E. St. Andrew Pl.
	Santa Ana, California 92705

Para Ser Presentado A:	Distrito de Gestión de la Calidad del Aire de la Costa Sur
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Número de Documento:	W002AS-068908-RT-8823
Fecha de la Prueba:	28 de julio de 2026
Fecha de Presentación:	25 de septiembre de 2026



Para el Planeta
y el Progreso

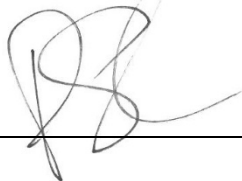
Revisión y Certificación

Prueba de Cumplimiento de 2026

SCS Engineers / Vertedero de Chiquita Canyon

Antorcha 1

Todo el trabajo, los cálculos y otras actividades y tareas realizados y presentados en este documento fueron llevados a cabo por mí o bajo mi dirección y supervisión. Mediante este instrumento certifico, a mi mejor saber y entender, que Onterris operó en cumplimiento con los requerimientos del Sistema de Gestión de la Calidad de Onterris y con ASTM D7036-04 durante este proyecto de análisis.



Pete San Juan
Gerente de Proyectos de Clientes

25/9/2026

Fecha

He revisado, tanto técnica como editorialmente, los detalles, los cálculos, los resultados, las conclusiones y otros materiales escritos apropiados aquí incluidos. Mediante el presente instrumento certifico que, a mi mejor saber y entender, el material presentado es auténtico, preciso y cumple con los requerimientos del Sistema de Gestión de la Calidad de Onterris y con ASTM D7036-04.



Surya Adhikari
Especialista Sénior en Informes de Control de la Calidad

25/9/2026

Fecha

Aviso Legal

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1 Introducción

1.1 Resumen del Programa de Pruebas

SCS Engineers contrató a Onterris Air Quality Services, LLC (Onterris) para que realizara un programa de pruebas de cumplimiento de emisiones en la Antorcha 1 de las instalaciones del Vertedero de Chiquita Canyon, ubicadas en Castaic, California. Onterris califica como laboratorio de análisis independiente bajo la Regla 304 del SCAQMD. No existe ningún conflicto de interés, como lo define la Regla 304 del SCAQMD, entre el Vertedero de Chiquita Canyon y Onterris.

Las pruebas se realizan para cumplir con los requerimientos de las Condiciones 12, 13, 16 y 22 del PTO de las instalaciones, para determinar el cumplimiento con los límites de emisiones emitidos por el Distrito de Gestión de la Calidad del Aire de la Costa Sur (SCAQMD) indicados en el Permiso para Operar (PTO) No. G73696 y en la Regla 1150.1 del SCAQMD.

Los objetivos específicos son:

- Realizar pruebas de cumplimiento de emisiones en la entrada y en la salida de la Antorcha 1, ubicada en el Vertedero de Chiquita Canyon
- Realizar el programa de pruebas con un enfoque en la seguridad

Onterris realizó las pruebas para medir los parámetros de las emisiones indicados en la Tabla 1-1.

Tabla 1-1 Resumen del Programa de Pruebas

Fecha de la Prueba	Código de la Unidad / Nombre de la Fuente	Actividad / Parámetros	Métodos de Prueba	Cantidad de Pasadas	Duración (Minutos)
28/7/2026	Entrada / Salida de la Antorcha 1	Velocidad/Caudal Volumétrico	SCAQMD 2.1 y Medidor de las Instalaciones	1	72
28/7/2026	Salida de la Antorcha 1	Humedad	SCAQMD 4.1	1	72
28/7/2026	Salida de la Antorcha 1	O ₂ , CO ₂ , NO _x , CO	SCAQMD 100.1	1	72
28/7/2026	Salida de la Antorcha 1	Total de Materia Particulada como PM 10	SCAQMD 5.1	1	72
28/7/2026	Salida de la Antorcha 1	TGNMNEO	SCAQMD 25.3	1 en Duplicado	60
28/7/2026	Entrada / Salida de la Antorcha 1	Orgánicos Traza	EPA TO-15	3	30
28/7/2026	Entrada de la Antorcha 1	O ₂ , CO ₂ , N ₂ , Metano (CH ₄)/TGNMO	ASTM D1945 / EPA 18	1 en Duplicado	30
28/7/2026	Entrada de la Antorcha 1	Btu, Factor F	ASTM D3588	1 en Duplicado	30
28/7/2026	Entrada de la Antorcha 1	Ácido Sulfhídrico / Azufre Total como H ₂ S	SCAQMD 307-91	1 en Duplicado	30

Para simplificar este informe, se incluye una lista de Unidades y Abreviaturas en el Apéndice D1. En todo este informe no se definen nomenclaturas químicas, acrónimos ni unidades de informe. Por favor, consulte la lista para conocer los detalles específicos.

Este informe presenta los resultados de las pruebas y los datos de respaldo, las descripciones de los procedimientos para realizar las pruebas, las descripciones de las instalaciones y las ubicaciones de los puntos de toma de muestras y un resumen de los procedimientos de aseguramiento de la calidad utilizados por Onterris. Los resultados de las pruebas de emisiones promedio se resumen y se comparan con los límites de sus respectivos permisos en la Tabla 1-2. Los resultados de las pruebas en el origen demuestran que la antorcha opera con emisiones de contaminantes criterio y de VOC por debajo de los límites del permiso del SCAQMD, excepto el Total de Azufre Reducido en la Entrada, expresado como H₂S, y el índice de emisiones de SO_x calculado en la Salida (lb/hr) expresado como SO₂. Los resultados detallados de cada una de las pasadas de las pruebas se encuentran en la Sección 4.0. Todos los datos de respaldo se encuentran en los apéndices.

Las pruebas fueron realizadas por el personal de Onterris indicado en la Tabla 1-3. Las pruebas se realizaron en cumplimiento con el plan de prueba (protocolo), Número de Documento de Onterris W0020AS-068908-PP-1565, presentado al SCAQMD el 29 de mayo de 2026.

Table 1-2 Summary of Average Compliance Results – Chiquita Canyon Landfill Flare 1
July 28, 2026

Parameter/Units	Inlet Result	Exhaust Result	Limit
NO_x			
ppm	--	9.54	--
ppm @ 3% O ₂	--	19.22	--
lb/hr (as NO ₂)	--	1.70	3.9
lb/day (as NO ₂)	--	40.72	--
lb/MMBtu (as NO ₂)	--	0.027	0.06 (BACT)
lb/MMCF (as NO ₂)	--	9.68	--
CO⁽²⁾			
ppm	--	<20.00	2,000 (Rule 407)
ppm @ 3% O ₂	--	<40.29	--
lb/hr	--	<2.16	5.6
lb/day	--	<51.95	--
lb/MMBtu	--	<0.035	--
lb/MMCF	--	<12.35	--
Methane			
ppm	300,420	<1.85	--
lb/hr	2,221	<0.11	--
Destruction Efficiency % Methane		>99.99	>99
VOC			
ppm (as CH ₄)	2,723	14.39	--
lb/hr (as CH ₄)	20.13	0.89	0.92 (Exhaust)
lb/day (as CH ₄)	483	21.37	--
lb/MMBtu (as CH ₄)	--	0.015	--
ppm (as hexane)	454	2.40	--
ppm @ 3% O ₂ (as hexane) ⁽¹⁾	477	5.15	20 (Exhaust)
lb/MMCF (as hexane)	--	4.55	--
lb/MMBtu (as hexane)	--	0.014	--
lb/hr (as hexane)	18.0	0.80	--
Destruction Efficiency, % Hexane ⁽¹⁾		95.58	>98
Particulate Matter			
gr/dscf	--	0.0041	0.057 (Rule 404)
gr/dscf at 12% CO ₂	--	0.0051	0.1 (Rule 409)
lb/hr	--	0.85	1.4
lb/day	--	20.50	--
lb/MMBtu	--	0.014	--
lb/MMCF	--	4.29	--
Total Sulfur Compounds			
Total Sulfur Inlet, ppm	183.2	--	150 (Rule 431.1)
SO _x Exhaust, lb/hr (as SO ₂) ⁽³⁾	--	5.42	2.5
SO _x Exhaust, lb/day (as SO ₂) ⁽³⁾	--	130.0	--
lb/MMCF	--	30.9	--

⁽¹⁾ SCAQMD Rule 1150.1 and NSPS require that a flare meet the concentration standard or DRE.

⁽²⁾ Values presented reflect 20% of the selected analyzer range.

⁽³⁾ The exhaust SO_x emission results are calculated from inlet reduced sulfur concentrations.

1.2 Personal Clave

A continuación se incluye una lista de participantes del proyecto:

Información sobre las Instalaciones

Ubicación del Origen: Chiquita Canyon LLC
Vertedero de Chiquita Canyon
2901 Henry Mayo Drive
Castaic, California 91384

Contacto del Proyecto: Cornelius Fong
Cargo: Gerente de Proyectos
Empresa: SCS Engineers
Teléfono: 562.743.7895

Información sobre la Agencia

Agencia Reguladora: Distrito de Gestión de la Calidad del Aire de la Costa Sur

Contacto de la Agencia: Rodney Davis
Teléfono: 909.396.2206
Email: RDavis@aqmd.gov

Información sobre la Empresa que Realiza las Pruebas

Empresa que Realiza las Pruebas: Onterris Air Quality Services

Contacto: Pete SanJuan
Cargo: Gerente de Proyectos de Clientes
Teléfono: 714.279.6777
Email: PSanjuan@onterris.com

Información sobre el Laboratorio

Laboratorio:	Onterris Air Quality Services Santa Ana, California	Onterris Enthalpy Analytical Orange, California
Ubicación del Laboratorio:		
Métodos:	SCAQMD 5.1	SCAQMD 25.3, EPA TO-15
Laboratorio:	Quantum Analytical	
Ubicación del Laboratorio:	Carson, California	
Métodos:	SCAQMD 307-91 ASTM D1945/3588, EPA 18	

Test personnel and observers are summarized in Table 1-3.

Table 1-3 Test Personnel and Responsibilities

Role	Primary Assignment	Additional Responsibilities
Project Manager	Coordinate Project, Operate mobile lab	Post-test follow up, Facility interface, Test crew coordination
Field Technician	Execute stack platform responsibilities	Preparation, Support PM

2 Descripciones de la Planta y de la Ubicación de los Puntos de Muestreo

2.1 Descripción, Operación y Equipos de Control del Proceso

La antorcha actualmente se utiliza para quemar biogás. El dispositivo de control (Antorcha No. 1) instalado en CCL es un soplador/antorcha de LFG fabricado por John Zink Company. Es una Antorcha John Zink Modelo ZTOF con una capacidad de caudal de 4,000 pies cúbicos estándar por minuto (scfm) y una capacidad nominal de 120 Millones de Unidades Térmicas Británicas (MMBtu) por hora. La antorcha recibe LFG de dos sopladores de 150 caballos de fuerza. La antorcha cuenta con reguladores de combustión automáticos, una termocupla en la chimenea, un escáner de llamas ultravioleta, un detector de fallas de llama y un control de corte automático. La antorcha también cuenta con un sistema de inyección de condensados. La unidad está diseñada para acomodar equipos para tomar muestras en la entrada y en la salida. La antorcha se describe en el permiso como de 136 pulgadas de diámetro y 50 pies de alto.

A medida que se van descomponiendo los desechos en el vertedero, se van generando gases en la subsuperficie, que contienen metano, CO₂ y otros productos de descomposición. El biogás se recolecta utilizando pozos de gas verticales y horizontales ubicados en el vertedero.

El quemador de ignición funciona con gas propano. El quemador principal funciona únicamente con biogás. La antorcha cuenta con reguladores de aire en la entrada para controlar la temperatura de la combustión. Hay termocuplas instaladas a varias alturas para indicar la temperatura y así controlar la temperatura de la combustión. Medidores de flujo específicos y calibrados monitorean individualmente el caudal del biogás. Cuando se informan emisiones basadas en combustible, se incluye en el informe final una copia del certificado de calibración del medidor de flujo de las instalaciones con la descripción del medidor.

2.2 Ubicaciones de los Puntos de Muestreo de los Gases de Combustión

Se verificó en el campo que las ubicaciones de muestreo cumplieran con el Método 1.1 del SCAQMD. Las condiciones aceptables del flujo ciclónico se confirmaron utilizando el Método 1.1 del SCAQMD, Sección 2.4. Los diagramas de las ubicaciones de las muestras y la ubicación de los puntos del recorrido se presentan en el Apéndice A1. No había puertos de muestreo disponibles en la entrada para medir el caudal y la humedad; por lo tanto, el caudal de entrada de biogás se registró desde el medidor de combustible calibrado de las instalaciones.

Se accedió a la salida de la antorcha desde un elevador aéreo. Los dos puertos estaban ubicados a 90° sobre la circunferencia de la chimenea de la antorcha. Se utilizaron veinticuatro puntos en el recorrido, en todas las pruebas de particulados, caudal y Sistema de Monitoreo Continuo de Emisiones (CEMS).

2.3 Condiciones Operativas y Datos del Proceso

Se realizaron pruebas de emisiones mientras la Antorcha 1 estaba operando en las condiciones requeridas por el permiso del SCAQMD y la regla aplicable. La Antorcha 1 se operó a una temperatura medida de 1,549 °F y a un caudal de combustible medido de 2,922 scfm.

El personal de la planta fue el responsable de establecer las condiciones de la prueba y de tomar todos los datos operativos de la unidad aplicables. Los datos del proceso que se proporcionaron se presentan en el Apéndice B. Los datos tomados incluyen los siguientes parámetros:

- Temperatura, °F
- Flujo de Combustible, scfm

3 Tomas de Muestras y Procedimientos Analíticos

3.1 Métodos de Prueba

Los métodos de prueba para este programa de pruebas se presentan en la Tabla 1-1. A continuación se presenta más información sobre las aplicaciones o modificaciones específicas a los procedimientos estándar.

3.1.1 Método 2.1 del SCAQMD - Caudal

Se estableció el caudal de biogás en la antorcha según la especificación, utilizando la instrumentación que estaba en el sitio. Se midió el caudal de gas en la salida junto con las pruebas de particulados, utilizando un sistema combinado de tubo Pitot/sonda siguiendo los Métodos 2.1 y 5.1 del SCAQMD. El caudal de salida también se calculó estequiométricamente utilizando la composición del gas en la entrada, el caudal y el Método 19 de la EPA. Todos los resultados de las tablas informadas utilizan el caudal medido en la salida. Los cálculos del caudal de salida se incluyen en el Apéndice A.

3.1.2 Método 4.1 del SCAQMD - Humedad

La humedad se midió en el flujo de salida de la antorcha. Se utilizó el Método 4.1 del SCAQMD para determinar la humedad en la salida. La determinación de la humedad en la salida de la antorcha se realizó en combinación con la prueba de materia particulada.

3.1.3 Método 5.1 del SCAQMD - Materia Particulada

La concentración de materia particulada y el índice de emisiones se determinaron por impactación húmeda siguiendo el Método 5.1 del SCAQMD. Se utilizó una sonda de cuarzo con una boquilla de cuarzo integral para tomar las muestras del flujo de salida. La muestra viaja desde la sonda hasta los frascos a través de una tubería flexible de Teflón. Entre el tercer y cuarto frasco hay un filtro de respaldo tarado. Hay una termocupla y un tubo Pitot sujetos a la sonda, para facilitar la toma de muestras isoquinéticas en cada uno de los 24 puntos del recorrido. Se utilizaron dos puertos para acceder a los puntos del recorrido. Se tomó una única muestra de 72 minutos.

El análisis involucra una extracción inorgánica de la fracción líquida. El total de particulados consiste en la fracción de H₂O seca y el filtro de respaldo. Se analizó aún más la fracción acuosa para observar el contenido de ácido y sulfato y, en cumplimiento con el método, el menor de los dos valores se restó del total, como está permitido. Los resultados de los particulados se informan como total de particulados o PM₁₀, ya que se asume que toda la materia particulada emitida desde la antorcha es inferior a 10 micrones.

3.1.4 Método 25.3 del SCAQMD y 18 de la EPA - Metano y Total de Orgánicos Gaseosos Sin Metano

Se midieron el metano y el total de orgánicos gaseosos sin metano (TGNMO) en la entrada y en la salida siguiendo el Método 18 de la EPA y el Método 25.3 del SCAQMD, respectivamente. Las muestras en la entrada se tomaron en bolsas Tedlar. Quantum Analytical, en Carson, California, analizó las muestras de biogás por GC/FID siguiendo el Método 18 de la EPA para Metano y TGNMO.

Las mediciones del gas de salida se realizaron utilizando el Método 25.3 del SCAQMD. Este método ha recibido la aprobación de la EPA con el uso del Factor de Corrección de Sesgo de 1.086. La muestra se toma utilizando una sonda de acero inoxidable conectada por tuberías de Teflón a un frasco de vidrio que contiene 2-3 ml de H₂O purificado. Los orgánicos condensables se capturan en el frasco de agua. Los orgánicos no condensables viajan por la fracción de agua y se recogen en un tanque de acero inoxidable evacuado. La sonda y la línea de muestreo se purgan con gases de combustión continuamente durante 5 minutos antes de tomar las muestras. El tanque y las muestras de H₂O fueron analizados en cumplimiento con el Método 25.3 del SCAQMD por Onterris Enthalpy Analytical Laboratories en Orange, California, utilizando TCA/FID.

3.1.5 Método 100.1 del SCAQMD - O₂, CO₂, NO_x y CO

Las mediciones de O₂, CO₂ y N₂ en la entrada se obtuvieron de las muestras del biogás de las bolsas Tedlar siguiendo el Método 10.1 del SCAQMD. Quantum Analytical, en Carson, California, analizó estas muestras por GC/TCD.

Las mediciones de O₂, CO₂, NO_x y CO en la salida se realizaron utilizando el Método de muestreo 100.1 del SCAQMD con un CEMS.

Estas mediciones de los CEMS se obtuvieron utilizando uno de los sistemas de monitoreo continuo de emisiones de MAQS. El sistema incluye una sonda de acero inoxidable conectada a una línea de Teflón calentada de 30 pies para extraer la muestra de la salida. El gas de muestra después se dirige por un separador de humedad eléctrico, un filtro y una bomba de muestreo. Una bomba peristáltica drena el separador continuamente. La muestra después viaja hacia el suelo utilizando una tubería de Teflón, a través de un colector de muestras, y se entrega a los analizadores. El control de fugas se realizó tapando la punta de la sonda y aplicando un vacío de >25" Hg en todo el sistema de muestreo. Cuando todos los medidores de flujo indican un flujo de 0.000 scfh, se demuestra que el sistema está libre de cualquier tipo de fuga.

Se realizó una prueba de errores de calibración en cada analizador antes de realizar las pruebas y al completar el programa de pruebas. La prueba de errores de calibración se realizó ajustando el instrumento con gas cero y gas de calibración alto, y después registrando el valor encontrado al inyectar gas cero, gas de calibración medio y gas de calibración alto. La desviación permitida es del 2% de la escala para procedimientos del Método 100.1 del SCAQMD. La linealidad del instrumento se calculó en base a los resultados de las pruebas de errores de calibración previas a las pruebas. La desviación permitida calculada en linealidad es del 1% del rango para procedimientos del Método 100.1 del SCAQMD.

Se utilizó Gas de Calibración del Protocolo 1 de la EPA para la calibración de todos los analizadores. En cumplimiento con los procedimientos del Método 100.1 del SCAQMD, se realizaron controles de sesgo del sistema previos y posteriores a la prueba para cada pasada de prueba. El control de sesgo del sistema se realizó entregando gas cero y gas de calibración a la punta de la sonda del CEM y registrando la concentración de las especies tal como se encontró. No se realizó ningún ajuste del analizador entre estos controles de sesgo del sistema previos y posteriores. Después se aplicaron los cálculos para la corrección del sesgo medido del sistema y de la deriva del instrumento en cada pasada de prueba. El límite permitido para la desviación del sesgo del sistema es del 5% del rango del instrumento.

Se realizaron mediciones de las emisiones para determinar la concentración de O₂, CO₂, NO_x y CO durante 72 minutos con carga operativa normal. Se determinaron las concentraciones promedio durante la prueba, utilizando un recorrido de 24 puntos. Este promedio de prueba después se corrigió por el sesgo medido del sistema

y la deriva. Los datos de N₂ de salida se calcularon por la diferencia con la concentración de los demás componentes principales del gas de salida. El analizador de NO_x estuvo en modo de operación NO_x. Se realizó un control del conversor de NO₂ en el sitio y cumplió con los criterios de eficiencia del 90%.

3.1.6 Método TO-15 de la EPA - Hidrocarburos Orgánicos Traza

Se tomaron especies de orgánicos traza por triplicado en contenedores summa revestidos en la entrada y en la salida. Las muestras fueron analizadas por Cromatografía de Gases/Espectroscopía de Masas (GC/MS) por Onterris Enthalpy Analytical en Orange, California, siguiendo el protocolo del Método TO-15 de la EPA. Se tomaron muestras de la entrada y de la salida de la antorcha simultáneamente por un período de treinta minutos. Los caudales utilizados para calcular los índices de emisiones (lb/hr) son el caudal del medidor de entrada de las instalaciones y los flujos medidos en las salidas. Se tomaron muestras en un solo punto.

3.1.7 Método 307-91 del SCAQMD – Ácido Sulfhídrico y Compuestos de Azufre Reducido

Se tomó una muestra de biogás para determinar el ácido sulfhídrico y compuestos de azufre reducido especiados en una bolsa Tedlar. Las muestras fueron analizadas mediante GC/SCD por Quantum Analytical en Carson, California, siguiendo el protocolo del Método 307-91 del SCAQMD. Las muestras de las bolsas Tedlar se analizaron por duplicado dentro de las 24 horas desde la toma de muestras.

3.1.8 Análisis del Combustible

Las muestras de biogás se tomaron en una bolsa Tedlar y se analizaron para determinar la composición del gas combustible, el poder calorífico superior (HHV) y el Factor F (dscf/MMBtu) mediante ASTM D1945/D3588. Todas las muestras se sellaron y etiquetaron para el transporte al laboratorio analítico, para su análisis. Quantum Analytical, en Carson, California, realizó estos análisis. El caudal de salida también se calculó mediante el Método 19 de la EPA, utilizando los valores de los resultados del laboratorio y el caudal de combustible y se comparó con el caudal de salida medido.

4 Análisis de las Pruebas y Resultados

4.1 Desviaciones y Excepciones en las Pruebas de Campo

No hubo desviaciones ni excepciones en el campo en relación con el plan de prueba o a los métodos de prueba durante este programa de pruebas.

4.2 Presentación de los Resultados

Los resultados promedio se comparan con los límites de los permisos en la Tabla 1-2. Los resultados de las pasadas de pruebas individuales realizadas se presentan en la Tabla 4-1. Las emisiones se informan en unidades consistentes con las indicadas en las regulaciones o requerimientos aplicables. Los resultados de las pruebas en el origen demuestran que la antorcha opera con emisiones de contaminantes criterio y de VOC por debajo de los límites del permiso del SCAQMD, excepto el Total de Azufre Reducido en la Entrada, expresado como H₂S, y el índice de emisiones de SO_x calculado en la Salida (lb/hr) expresado como SO₂. En los apéndices se incluye más información, como se indica en la Tabla de Contenido.

Table 4-1 Emission Results – Chiquita Canyon Landfill Flare 1

Parameter/Units	Inlet Result	Exhaust Result	Limit
O ₂ , %	3.87	12.01	--
CO ₂ , %	39.20	9.57	--
N ₂ , %	24.29	78.41	--
H ₂ O, %	--	10.3	--
Flow Rate, wscfm	--	27,258	--
Flow Rate, dscfm	2,922	24,447	<4,000 (inlet)
Temperature, °F ⁽⁴⁾	--	1,509	--
Temperature, °F ⁽⁵⁾	--	1,549	>1400
Btu/scf	312.0	--	--
NO_x			
ppm	--	9.54	--
ppm @ 3% O ₂	--	19.22	--
lb/hr (as NO ₂)	--	1.70	3.9
lb/day (as NO ₂)	--	40.72	--
lb/MMBtu (as NO ₂)	--	0.027	0.06 (BACT)
lb/MMCF (as NO ₂)	--	9.68	--
CO⁽²⁾			
ppm	--	<20.00	2,000 (Rule 407)
ppm @ 3% O ₂	--	<40.29	--
lb/hr	--	<2.16	5.6
lb/day	--	<51.95	--
lb/MMBtu	--	<0.035	--
lb/MMCF	--	<12.35	--
Methane			
ppm	300,420	<1.85	--
lb/hr	2,221	<0.11	--
Destruction Efficiency, % Methane	--	>99.99	>99
VOC			
ppm (as CH ₄)	2,723	14.39	--
lb/hr (as CH ₄)	20.13	0.89	0.92 (Exhaust)
lb/day (as CH ₄)	483	21.37	--
lb/MMBtu (as CH ₄)	--	0.015	--
ppm (as hexane)	454	2.40	--
ppm @ 3% O ₂ (as hexane) ⁽¹⁾	477	5.15	20 (Exhaust)
lb/MMCF (as hexane)	--	4.55	--
lb/MMBtu (as hexane)	--	0.014	--
lb/hr (as hexane)	18.0	0.80	--
Destruction Efficiency, % Hexane ⁽¹⁾	--	95.58	>98
Particulate Matter			
gr/dscf	--	0.0041	0.057 (Rule 404)
gr/dscf at 12% CO ₂	--	0.0051	0.1 (Rule 409)
lb/hr	--	0.85	1.4
lb/day	--	20.50	--
lb/MMBtu	--	0.014	--
lb/MMCF	--	4.29	--
Sulfur Compounds			
H ₂ S, ppm	108.5	--	--
Carbonyl Sulfide, ppm	<0.05	--	--
Methyl Mercaptan, ppm	69.43	--	--
Ethyl Mercaptan, ppm	<0.85	--	--
Dimethyl Sulfide, ppm	4.09	--	--
Unidentified S Compounds, ppm	0.38	--	--
Total Sulfur Compounds			
Total Reduced Sulfur Inlet, ppm	183.2	--	150 (Rule 431.1)
SO _x Exhaust, lb/hr (as SO ₂) ⁽³⁾	--	5.42	2.5
SO _x Exhaust, lb/day (as SO ₂) ⁽³⁾	--	130.0	--
lb/MMCF	--	30.9	--

Notes:

⁽¹⁾ SCAQMD Rule 1150.1 and NSPS require that a flare meet the concentration standard or DRE.

⁽²⁾ Values presented reflect 20% of the selected analyzer range.

⁽³⁾ The exhaust SO_x lb/hr and lb/day results are calculated from inlet reduced sulfur concentrations.

⁽⁴⁾ Temperatures taken from the sampling ports.

⁽⁵⁾ Temperatures taken from the facility.

5 Actividades Internas de QA/QC

5.1 Auditorías de QA/QC

La caja de medidores y el tren de muestreo utilizados durante el muestreo realizado estuvieron dentro de los requerimientos de sus respectivos métodos. Todos los controles de fugas posteriores al testeo, los volúmenes mínimos medidos, las duraciones mínimas de las muestras y el porcentaje de isocinética cumplieron con los criterios de QA/QC aplicables, excepto donde se indica en la Sección 5.2.

Las auditorías de calibración del Método 100.1 del SCAQMD estuvieron todas dentro de las especificaciones de rendimiento del sistema de medición para Error de Calibración, Linealidad, Sesgo del Sistema de las Muestras y Deriva del Analizador, excepto donde se indica en la Sección 5.2.

Los controles de la eficiencia del conversor de NO₂ a NO del analizador de NO_x se realizaron en cumplimiento con los procedimientos del Método 100.1 del SCAQMD. La eficiencia de la conversión cumplió con los criterios, excepto donde se indica en la Sección 5.2.

Los resultados analíticos de QA/QC del Método 5.1 del SCAQMD se incluyen en el informe de laboratorio. Se cumplió con los criterios de QA/QC del método, excepto donde se indica en la Sección 5.2.

Los resultados analíticos de QA/QC del Método 25.3 del SCAQMD se incluyen en el informe de laboratorio. Se cumplió con los criterios de QA/QC del método, excepto donde se indica en la Sección 5.2.

Los resultados analíticos de QA/QC del Método 18 de la EPA se incluyen en el informe de laboratorio. Se cumplió con los criterios de QA/QC del método, excepto donde se indica en la Sección 5.2.

5.2 Análisis de QA/QC

Se cumplieron todos los criterios de QA/QC durante este programa de pruebas.

5.3 Declaración de Calidad

Onterris está calificado para realizar este programa de análisis y ha establecido un sistema de gestión de la calidad que permitió la acreditación con la Norma D7036-04 de ASTM (Práctica Estándar para la Competencia de Organismos de Pruebas de Emisiones al Aire). Onterris participa en evaluaciones funcionales anuales para cumplir con D7036-04 que realiza la Asociación Americana de Acreditación de Laboratorios (A2LA). Todos los análisis realizados por Onterris son supervisados en el sitio por lo menos por una Persona Calificada (QI) como se define en la Sección 8.3.2 de D7036-04. Los objetivos de calidad de los datos para estimar la incertidumbre de la medición dentro de los límites documentados en los métodos de análisis se cumplen utilizando protocolos de análisis aprobados para cada proyecto, como se define en D7036-04 en las Secciones 7.2.1 y 12.10. En los apéndices del informe se incluye información adicional de aseguramiento de la calidad. El contenido de este informe se modela en base al Documento de Pautas del Centro de Medición de Emisiones de la EPA (GD - 043).

Appendix A Field Data and Calculations

Appendix A1 Sampling Location Schematics/Process Flow Diagrams

METHOD 1 DATA SHEET

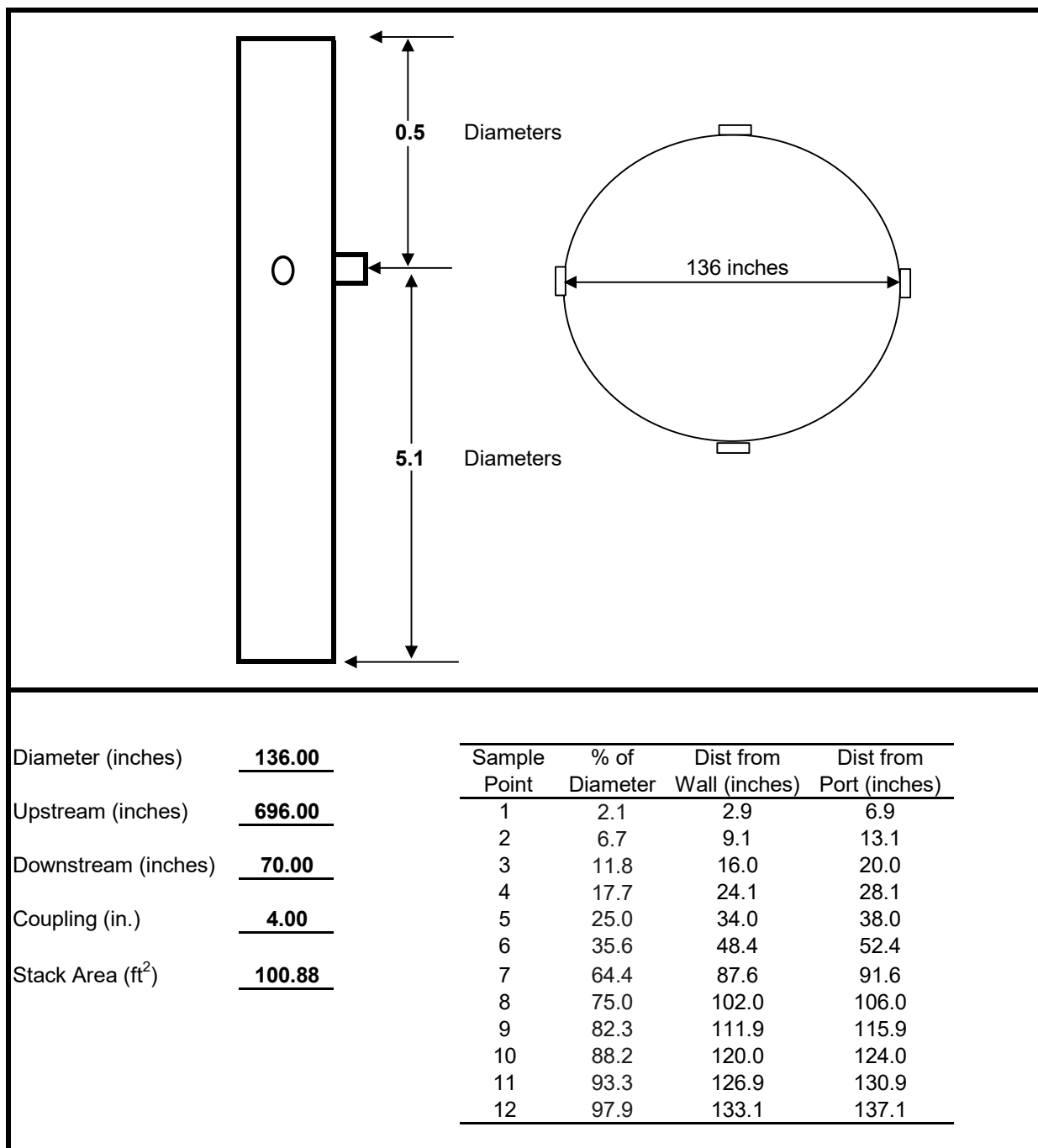
EXHAUST SAMPLE LOCATION

Client: Chiquita Canyon Landfill

Date: 7/28/26

Location: Flare 1

Performed By: SJ, KT, RC



Appendix A2 Sample Data Sheets

Wet Chemical Sampling System Data and Worksheet

Client: WASTE CONNECTIONS
 Location: CHICQUITA PLANT
 Date: 7/26/26
 Run No: 1201
 Operator: ST/KI/RE
 Meter Box No: 46WIS
 Meter ΔH@: L032
 Meter Yd: 1.003
 Stack Area, ft²: 100.88
 Traverse Points, Min/Point: 2.1/3
 ΔH= 3751 x ΔP
 Probe Condition, Pre/Post Test: ✓
 Silica Gel Expended, Y/N: N
 Filter Condition After Test: ✓
 Check Weight: 500/500

Ambient Temperature: 86
 Barometric Pressure: 28.75
 Assumed Moisture: 10%
 Pitot Tube Coeff, Cp: 0.84
 Probe ID No/Material: 12-3 / Q12
 Probe Length: 12'
 Nozzle ID No/ Material: 2604 / Q12
 Nozzle Diameter: 0.648
 Filter No/Type: CAF-55
 Pre-Test Leak Rate: <0.004 CFM@ 17 in. Hg.
 Post-Test Leak Rate: <0.004 CFM@ 11 in. Hg.
 Pitot Leak Check - Pre: ✓ Post: ✓
 Chain of Custody: Sample Custodian: [Signature]
 Sampler: KI/RE
 Sample Custodian: [Signature]

Imp. # Contents Post-Test - Pre-Test = Difference
 1 DEH20 9101.6 133.6
 2 1" 733.3 725.3
 3 MT 642.7 641.5
 4 39 1003.1 900.2
 Total: -1001.2

Port / Point	Time	Meter Volume, ft³	ΔP In. H ₂ O	ΔH In. H ₂ O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter temp, °F In Out	Vacuum In. Hg.	Pstatic In. H ₂ O
1	1032	699.200	0.025	0.9	1504	N/A	N/A	56	N/A	9	-0.07
2	1035	701.51	0.027	1.0	1511			57	78	5	
3	1038	702.73	0.026	1.0	1511			57	79	5	
4	1041	704.26	0.029	1.1	1513			58	79	5	
5	1044	706.4	0.026	1.0	1518			56	81	5	
6	1047	708.32	0.023	0.9	1515			58	81	5	
7	1050	710.61	0.025	0.9	1513			57	82	5	
8	1053	711.55	0.029	1.1	1512			57	82	5	
9	1056	713.37	0.031	1.2	1510			56	83	5	
10	1059	715.19	0.030	1.1	1510			56	84	5	
11	1102	717.61	0.031	1.2	1509			56	84	5	
12	1125	719.49	0.029	1.1	1504			57	85	5	
1	1128/110	721.08	0.027	1.0	1506			56	85	5	
11	1113	722.51	0.025	0.9	1507			56	86	5	
10	1116	724.21	0.026	1.0	1505			57	87	5	
9	1119	726.45	0.023	0.9	1510			56	87	5	
8	1122	728.11	0.020	0.8	1511			56	87	4	
7	1125	730.17	0.022	0.8	1513			56	88	4	
6	1128	731.73	0.024	0.9	1510			57	89	5	
5	1131	733.103	0.023	0.9	1505			57	89	5	
4	1134	735.24	0.025	0.9	1502			58	90	5	
3	1137	737.95	0.027	1.0	1506			58	90	5	
2	1140	739.80	0.024	0.9	1508			59	91	5	
Average:	1143	741.30	0.022	0.8	1508			59	91	4	
Comments:	1146	742.819	-0.01								

Cycle 3 6 1 7 9 4 8 2 4 0 5 1 9 7 6 2 2 3 7 5 18 4 3

Client: Waste Connections
Location: Chiquita Ave 1
Date: 7-28-24
Run No: F/B
Operator: KT/ee
Meter Box No: 48WGS
Meter ΔH@: 1.232
Meter Yd: 1.003
Stack Area, ft²: —
Traverse Points, Min/Point: —
ΔH= — x ΔP
Probe Condition, Pre/Post Test: F/B
Silica Gel Expended, Y/N: —
Filter Condition After Test: —
Check Weight: 5.00 / 5.00

Ambient Temperature: _____

Barometric Pressure: _____

Assumed Moisture: _____

Pitot Tube Coeff, Cp: _____

Probe ID No/Material: _____

Probe Length: _____

Nozzle ID No/ Material: _____

Nozzle Diameter: _____

Filter No/Type: _____

Pre-Test Leak Rate: 0.006 CFM@ 15 in. Hg.

Post-Test Leak Rate: 0.006 CFM@ 15 in. Hg.

Pitot Leak Check - Pre: _____ Post: _____

Chain of Custody: Sample Custodian: _____

Sampler: _____

Sample Custodian: _____

Imp. #	Contents	Post-Test	Pre-Test	Difference
1	Diff 20	828.2	731.5	
2	"	722.6	722.6	
3	mt	650.0	650.0	
4	sg	967.4	967.4	
			-100.0	
	Total:			

[illegible]

Comments:

**SCAQMD METHOD 25.3
EVACUATED CANISTER SAMPLING DATA**

Client/Facility: CHILQUITA LANDFILL Date: 7-28-26

Unit/Location: FLARE 1 Performed By: RC

Probe Material cone 1 Probe Length 3'

Connecting Tubing Material Teflon Connecting Tubing Length 5' 3'

Barometric Pressure 28.79 Ambient Temperature 86°F

Test No.		1		1			
Vial ID		15A		15B			
Canister ID		C80213		C80228			
		Time	Vacuum	Time	Vacuum	Time	Vacuum
Pre-Test Leak Check	Start	0900	15	0900	18		
Pre-Test Leak Check	Stop	0915	15	0915	18		
Sample Collection	Start	1032	28	1032	28		
		1042	27	1042	27		
		1052	25	1052	25		
		1102	22	1102	23		
		1112	20	1112	20		
		1122	17	1122	17		
		1127	13	1127	13		
Sample Collection	Stop	1132	10	1132	10		
Post-Test Leak Check	Start	1200	10	1200	10		
Post-Test Leak Check	Stop	1210	10	1210	10		
Line Rinse Volume							

Comments: _____



Date of last revision 2/14/2017

Master Document Storage\Forms\Datasheets\Field Datasheets
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W002AS-068908-RT-8823

Modified EPA Method TO-15 Evacuated Canister Sampling Data

Client/Facility: W- CHIGUTA Date: 7-28-26

Unit/Location: FLARE 1 EXHAUST Performed By: KR/RC

Probe Material SS Probe Length 36"

Connecting Tubing Material — Connecting Tubing Length —

Barometric Pressure 28.79 Ambient Temperature 86°

Test No.		1		2		3	
Canister ID		CE0276		CE0282		CE0285	
		Time	Vacuum	Time	Vacuum	Time	Vacuum
Pre-Test Leak Check	Start	0900	22	0900	24	0900	23
Pre-Test Leak Check	Stop	0910	22	0910	26	0910	23
Sample Collection	Start	1032	30	1107	30	1137	30
	20	1042	23	1117	22	1147	22
	20	1052	13	1127	14	1157	13
END →	30	1102	5	1137	5	1207	5
Sample Collection	Stop						
Post -Test Leak Check	Start	1220	5	1220	5	1220	5
Post-Test Leak Check	Stop	1230	5	1230	5	1230	5

Comments: _____

Modified EPA Method TO-15
Evacuated Canister Sampling Data

Client/Facility: WC CH2M Date: 7-28-26
Unit/Location: Flare - 1 inlet Performed By: ST. R
Probe Material SS Probe Length 36
Connecting Tubing Material - Connecting Tubing Length -
Barometric Pressure 28.79 Ambient Temperature 86

Test No.		1		2		3	
Canister ID		C80042		C84186		C80118	
		Time	Vacuum	Time	Vacuum	Time	Vacuum
Pre-Test Leak Check	Start	0900	18	0900	21	0900	26
Pre-Test Leak Check	Stop	0910	18	0910	21	0910	26
Sample Collection	Start	1032	30	1107	30	1137	30
		1042	26	1117	22	1147	24
		1052	14	1127	15	1157	16
end		1102	5	1137	5	1207	5
Sample Collection	Stop						
Post -Test Leak Check	Start	1220	5	1220	5	1220	5
Post-Test Leak Check	Stop	1230	5	1230	5	1230	5

Comments: _____

TEDLAR BAG SAMPLING DATA SHEET

CLIENT: WASTE CONVECTIONS PERFORMED BY: ST/KT/RC
 LOCATION: CHICUITA UNIT: FLAME INLET

Test #	1A	1B			
Date	7/28/26	7/28/26			
Time (start/stop)	1034/1102	1032/1102			
Bag #	INLET 1A	INLET 1B			

Comments: _____

Appendix A3 Instrumental Test Method Data

REFERENCE METHOD 1-MINUTE AVERAGE DATA						
RUN NUMBER 1						
Date	Time	O ₂	CO ₂	NO _x	CO	
7/28/2026	10:33:00 AM	11.844	9.702	9.781	-0.59	12
7/28/2026	10:34:00 AM	11.879	9.683	9.758	-0.586	12
7/28/2026	10:35:00 AM	11.963	9.565	9.555	-0.568	12
7/28/2026	10:36:00 AM	11.726	9.849	9.906	-0.547	11
7/28/2026	10:37:00 AM	11.625	9.95	10.157	-0.547	11
7/28/2026	10:38:00 AM	11.806	9.724	9.781	-0.552	11
7/28/2026	10:39:00 AM	11.861	9.696	9.641	-0.545	10
7/28/2026	10:40:00 AM	11.809	9.755	9.844	-0.528	10
7/28/2026	10:41:00 AM	11.927	9.607	9.544	-0.533	10
7/28/2026	10:42:00 AM	12.256	9.284	9.048	-0.498	9
7/28/2026	10:43:00 AM	12.386	9.174	8.863	-0.464	9
7/28/2026	10:44:00 AM	12.089	9.522	9.362	-0.492	9
7/28/2026	10:45:00 AM	12.257	9.301	9.08	-0.498	8
7/28/2026	10:46:00 AM	11.794	9.812	9.888	-0.521	8
7/28/2026	10:47:00 AM	11.891	9.697	9.607	-0.54	8
7/28/2026	10:48:00 AM	11.8	9.805	9.781	-0.55	7
7/28/2026	10:49:00 AM	11.654	9.888	9.962	-0.543	7
7/28/2026	10:50:00 AM	11.785	9.722	9.814	-0.554	7
7/28/2026	10:51:00 AM	11.705	9.91	10.009	-0.544	6
7/28/2026	10:52:00 AM	11.765	9.775	9.847	-0.572	6
7/28/2026	10:53:00 AM	11.883	9.637	9.768	-0.553	6
7/28/2026	10:54:00 AM	11.958	9.569	9.543	-0.56	5
7/28/2026	10:55:00 AM	11.902	9.64	9.63	-0.556	5
7/28/2026	10:56:00 AM	11.97	9.571	9.677	-0.529	5
7/28/2026	10:57:00 AM	11.866	9.733	9.839	-0.478	4
7/28/2026	10:58:00 AM	11.647	9.938	10.141	-0.544	4
7/28/2026	10:59:00 AM	11.848	9.698	9.633	-0.541	4
7/28/2026	11:00:00 AM	11.718	9.823	9.913	-0.546	3
7/28/2026	11:01:00 AM	11.74	9.793	9.839	-0.577	3
7/28/2026	11:02:00 AM	11.58	9.979	10.059	-0.571	3
7/28/2026	11:03:00 AM	11.863	9.657	9.454	-0.577	2
7/28/2026	11:04:00 AM	11.967	9.62	9.52	-0.563	2
7/28/2026	11:05:00 AM	12.174	9.403	9.15	-0.559	2
7/28/2026	11:06:00 AM	11.837	9.711	9.624	-0.573	1
7/28/2026	11:07:00 AM	11.835	9.719	9.629	-0.575	1
7/28/2026	11:08:00 AM	12.148	9.356	9.285	-0.574	1
7/28/2026	11:11:00 AM	12.018	9.462	9.137	-0.492	12
7/28/2026	11:12:00 AM	12.08	9.448	9.161	-0.556	12
7/28/2026	11:13:00 AM	11.864	9.659	9.322	-0.59	12
7/28/2026	11:14:00 AM	12.154	9.307	9.12	-0.602	11
7/28/2026	11:15:00 AM	11.64	9.894	9.961	-0.603	11
7/28/2026	11:16:00 AM	11.935	9.521	9.395	-0.627	11
7/28/2026	11:17:00 AM	11.987	9.481	9.262	-0.601	10
7/28/2026	11:18:00 AM	12.218	9.311	9.146	-0.604	10
7/28/2026	11:19:00 AM	11.468	10.014	9.951	-0.606	10
7/28/2026	11:20:00 AM	12.142	9.267	9.012	-0.622	9
7/28/2026	11:21:00 AM	11.932	9.466	9.278	-0.604	9
7/28/2026	11:22:00 AM	11.533	9.93	9.877	-0.634	9
7/28/2026	11:23:00 AM	11.668	10.072	10.031	-0.639	8
7/28/2026	11:24:00 AM	11.735	9.646	9.469	-0.632	8
7/28/2026	11:25:00 AM	11.458	9.922	9.866	-0.636	8
7/28/2026	11:26:00 AM	11.662	9.716	9.542	-0.626	7
7/28/2026	11:27:00 AM	12.157	9.164	8.893	-0.627	7
7/28/2026	11:28:00 AM	12.255	9.067	8.871	-0.618	7
7/28/2026	11:29:00 AM	12.307	9.011	8.958	-0.641	6
7/28/2026	11:30:00 AM	12.26	9.027	8.941	-0.641	6
7/28/2026	11:31:00 AM	12.301	8.94	8.813	-0.65	6
7/28/2026	11:32:00 AM	11.919	9.342	9.15	-0.669	5
7/28/2026	11:33:00 AM	11.547	9.734	9.795	-0.705	5
7/28/2026	11:34:00 AM	11.675	9.615	9.492	-0.714	5
7/28/2026	11:35:00 AM	11.478	9.795	9.802	-0.701	4
7/28/2026	11:36:00 AM	11.375	9.839	9.915	-0.698	4
7/28/2026	11:37:00 AM	12.092	9.093	8.866	-0.715	4
7/28/2026	11:38:00 AM	12.405	8.798	8.637	-0.724	3
7/28/2026	11:39:00 AM	11.8	9.4	9.415	-0.696	3
7/28/2026	11:40:00 AM	11.445	9.766	9.935	-0.738	3
7/28/2026	11:41:00 AM	11.576	9.669	9.7	-0.718	2
7/28/2026	11:42:00 AM	11.526	9.649	9.731	-0.729	2
7/28/2026	11:43:00 AM	11.949	9.217	9.061	-0.584	2
7/28/2026	11:44:00 AM	12.008	9.148	8.758	-0.679	1
7/28/2026	11:45:00 AM	12.385	8.73	8.374	-0.733	1
7/28/2026	11:46:00 AM	12.425	8.694	8.485	-0.733	1
Average		11.89	9.56	9.49	-0.60	

REFERENCE METHOD DATA LOGGER

Date	Time	O ₂ %	CO ₂ %	NO _x PPM	CO PPM	Comments
7/28/2026	9:53:00	-0.005	-0.018	-0.002	-0.015	< NO
7/28/2026	9:54:00	-0.006	-0.026	-0.005	-0.013	
7/28/2026	9:55:00	-0.008	-0.018	-0.005	-0.028	< Zero Cal
7/28/2026	9:56:00	10.488	9.137	10.741	20.78	
7/28/2026	9:57:00	18.157	18.096	24.533	92.681	
7/28/2026	9:58:00	18.133	18.057	23.931	92.564	
7/28/2026	9:59:00	18.112	17.985	22.505	91.938	< Span High
7/28/2026	10:00:00	18.107	17.954	22.523	91.908	
7/28/2026	10:01:00	18.107	17.97	22.525	91.823	< NO
7/28/2026	10:02:00	10.68	10.422	12.905	83.35	
7/28/2026	10:03:00	8.735	8.721	10.406	46.022	
7/28/2026	10:04:00	8.726	8.708	10.404	45.723	< Direct Mid
7/28/2026	10:05:00	8.725	8.718	10.403	45.702	
7/28/2026	10:06:00	8.723	8.696	12.311	45.676	
7/28/2026	10:07:00	8.721	8.675	14.1	45.641	
7/28/2026	10:08:00	8.719	8.673	16.357	45.64	
7/28/2026	10:09:00	8.717	8.669	16.531	45.648	< NO2 Audit NOx
7/28/2026	10:10:00	8.716	8.676	5.838	45.632	
7/28/2026	10:11:00	5.273	5.106	-0.006	40.326	
7/28/2026	10:12:00	-0.017	-0.043	-0.005	1.127	< NO2 Audit NO
7/28/2026	10:13:00	-0.021	-0.038	-0.005	-0.112	
7/28/2026	10:14:00	-0.047	-0.048	-0.005	-0.112	
7/28/2026	10:15:00	14.229	0.249	-0.005	0.641	
7/28/2026	10:16:00	20.519	0.303	-0.005	0.25	
7/28/2026	10:17:00	13.274	5.405	0.011	0.07	
7/28/2026	10:18:00	8.712	8.818	0.01	-0.085	< System O2, CO2
7/28/2026	10:19:00	8.706	8.89	0.003	-0.099	
7/28/2026	10:20:00	8.7	8.893	0.001	-0.093	
7/28/2026	10:21:00	3.339	3.38	6.257	-0.116	
7/28/2026	10:22:00	-0.04	0.165	8.712	8.818	
7/28/2026	10:23:00	-0.045	0.161	10.411	-0.125	< System NOx
7/28/2026	10:24:00	-0.049	0.172	5.039	11.468	
7/28/2026	10:25:00	-0.052	0.167	0.003	45.387	
7/28/2026	10:26:00	-0.052	0.171	0.001	45.524	< System CO
7/28/2026	10:27:00	-0.055	0.189	0	45.54	
7/28/2026	10:28:00	-0.057	0.173	-0.004	43.994	
7/28/2026	10:29:00	10.883	8.76	8.487	5.328	
7/28/2026	10:30:00	12.122	9.387	9.392	-0.542	
7/28/2026	10:31:00	12.193	9.342	9.263	-0.531	
7/28/2026	10:32:00	12.007	9.539	9.472	-0.568	< Start Test Flare 1
7/28/2026	10:33:00	11.844	9.702	9.781	-0.59	12
7/28/2026	10:34:00	11.879	9.683	9.758	-0.586	12
7/28/2026	10:35:00	11.963	9.565	9.555	-0.568	12
7/28/2026	10:36:00	11.726	9.849	9.906	-0.547	11
7/28/2026	10:37:00	11.625	9.95	10.157	-0.547	11
7/28/2026	10:38:00	11.806	9.724	9.781	-0.552	11
7/28/2026	10:39:00	11.861	9.696	9.641	-0.545	10
7/28/2026	10:40:00	11.809	9.755	9.844	-0.528	10
7/28/2026	10:41:00	11.927	9.607	9.544	-0.533	10

REFERENCE METHOD DATA LOGGER

Date	Time	O ₂ %	CO ₂ %	NO _x PPM	CO PPM	Comments
7/28/2026	10:42:00	12.256	9.284	9.048	-0.498	9
7/28/2026	10:43:00	12.386	9.174	8.863	-0.464	9
7/28/2026	10:44:00	12.089	9.522	9.362	-0.492	9
7/28/2026	10:45:00	12.257	9.301	9.08	-0.498	8
7/28/2026	10:46:00	11.794	9.812	9.888	-0.521	8
7/28/2026	10:47:00	11.891	9.697	9.607	-0.54	8
7/28/2026	10:48:00	11.8	9.805	9.781	-0.55	7
7/28/2026	10:49:00	11.654	9.888	9.962	-0.543	7
7/28/2026	10:50:00	11.785	9.722	9.814	-0.554	7
7/28/2026	10:51:00	11.705	9.91	10.009	-0.544	6
7/28/2026	10:52:00	11.765	9.775	9.847	-0.572	6
7/28/2026	10:53:00	11.883	9.637	9.768	-0.553	6
7/28/2026	10:54:00	11.958	9.569	9.543	-0.56	5
7/28/2026	10:55:00	11.902	9.64	9.63	-0.556	5
7/28/2026	10:56:00	11.97	9.571	9.677	-0.529	5
7/28/2026	10:57:00	11.866	9.733	9.839	-0.478	4
7/28/2026	10:58:00	11.647	9.938	10.141	-0.544	4
7/28/2026	10:59:00	11.848	9.698	9.633	-0.541	4
7/28/2026	11:00:00	11.718	9.823	9.913	-0.546	3
7/28/2026	11:01:00	11.74	9.793	9.839	-0.577	3
7/28/2026	11:02:00	11.58	9.979	10.059	-0.571	3
7/28/2026	11:03:00	11.863	9.657	9.454	-0.577	2
7/28/2026	11:04:00	11.967	9.62	9.52	-0.563	2
7/28/2026	11:05:00	12.174	9.403	9.15	-0.559	2
7/28/2026	11:06:00	11.837	9.711	9.624	-0.573	1
7/28/2026	11:07:00	11.835	9.719	9.629	-0.575	1
7/28/2026	11:08:00	12.148	9.356	9.285	-0.574	1
7/28/2026	11:09:00	12.375	9.126	8.96	-0.535	Port
7/28/2026	11:10:00	15.591	5.851	5.64	-0.505	Change
7/28/2026	11:11:00	12.018	9.462	9.137	-0.492	12
7/28/2026	11:12:00	12.08	9.448	9.161	-0.556	12
7/28/2026	11:13:00	11.864	9.659	9.322	-0.59	12
7/28/2026	11:14:00	12.154	9.307	9.12	-0.602	11
7/28/2026	11:15:00	11.64	9.894	9.961	-0.603	11
7/28/2026	11:16:00	11.935	9.521	9.395	-0.627	11
7/28/2026	11:17:00	11.987	9.481	9.262	-0.601	10
7/28/2026	11:18:00	12.218	9.311	9.146	-0.604	10
7/28/2026	11:19:00	11.468	10.014	9.951	-0.606	10
7/28/2026	11:20:00	12.142	9.267	9.012	-0.622	9
7/28/2026	11:21:00	11.932	9.466	9.278	-0.604	9
7/28/2026	11:22:00	11.533	9.93	9.877	-0.634	9
7/28/2026	11:23:00	11.668	10.072	10.031	-0.639	8
7/28/2026	11:24:00	11.735	9.646	9.469	-0.632	8
7/28/2026	11:25:00	11.458	9.922	9.866	-0.636	8
7/28/2026	11:26:00	11.662	9.716	9.542	-0.626	7

REFERENCE METHOD DATA LOGGER

Date	Time	O ₂ %	CO ₂ %	NO _x PPM	CO PPM	Comments
7/28/2026	11:27:00	12.157	9.164	8.893	-0.627	7
7/28/2026	11:28:00	12.255	9.067	8.871	-0.618	7
7/28/2026	11:29:00	12.307	9.011	8.958	-0.641	6
7/28/2026	11:30:00	12.26	9.027	8.941	-0.641	6
7/28/2026	11:31:00	12.301	8.94	8.813	-0.65	6
7/28/2026	11:32:00	11.919	9.342	9.15	-0.669	5
7/28/2026	11:33:00	11.547	9.734	9.795	-0.705	5
7/28/2026	11:34:00	11.675	9.615	9.492	-0.714	5
7/28/2026	11:35:00	11.478	9.795	9.802	-0.701	4
7/28/2026	11:36:00	11.375	9.839	9.915	-0.698	4
7/28/2026	11:37:00	12.092	9.093	8.866	-0.715	4
7/28/2026	11:38:00	12.405	8.798	8.637	-0.724	3
7/28/2026	11:39:00	11.8	9.4	9.415	-0.696	3
7/28/2026	11:40:00	11.445	9.766	9.935	-0.738	3
7/28/2026	11:41:00	11.576	9.669	9.7	-0.718	2
7/28/2026	11:42:00	11.526	9.649	9.731	-0.729	2
7/28/2026	11:43:00	11.949	9.217	9.061	-0.584	2
7/28/2026	11:44:00	12.008	9.148	8.758	-0.679	1
7/28/2026	11:45:00	12.385	8.73	8.374	-0.733	1
7/28/2026	11:46:00	12.425	8.694	8.485	-0.733	1
7/28/2026	11:47:00	12.149	8.955	8.934	-0.751	end
7/28/2026	11:48:00	11.508	9.581	9.816	-0.764	
7/28/2026	11:49:00	9.054	8.959	10.397	22.917	
7/28/2026	11:50:00	8.642	8.45	10.235	44.435	
7/28/2026	11:51:00	8.638	8.435	10.215	44.486	
7/28/2026	11:52:00	10.073	9.309	9.903	39.404	
7/28/2026	11:53:00	11.719	9.579	9.357	2.014	
7/28/2026	11:54:00	9.044	9.101	2.66	-0.68	
7/28/2026	11:55:00	8.64	8.853	0.01	-0.468	< System O2, CO2
7/28/2026	11:56:00	2.275	3.587	7.343	-0.476	
7/28/2026	11:57:00	-0.088	1.078	10.179	-0.484	
7/28/2026	11:58:00	-0.092	-0.014	10.408	-0.497	< System NOx
7/28/2026	11:59:00	-0.095	-0.022	3.097	19.277	
7/28/2026	12:00:00	-0.098	-0.027	0	44.242	
7/28/2026	12:01:00	-0.1	-0.036	-0.002	45.05	< System CO
7/28/2026	12:02:00	7.134	0.056	0.078	43.2	
7/28/2026	12:03:00	20.654	0.05	0.015	5.174	
7/28/2026	12:04:00	18.719	10.109	13.913	39.501	
7/28/2026	12:05:00	17.976	16.112	22.571	90.44	
7/28/2026	12:06:00	17.972	17.959	22.573	90.39	< Direct High
7/28/2026	12:07:00	12.329	12.735	17.521	84.288	
7/28/2026	12:08:00	8.618	8.851	10.411	45.97	
7/28/2026	12:09:00	8.615	8.85	10.403	44.957	< Direct Mid
7/28/2026	12:10:00	3.241	3.612	3.583	33.542	
7/28/2026	12:11:00	-0.082	0.119	0.004	-0.231	
7/28/2026	12:12:00	-0.085	-0.022	0.002	-0.044	
7/28/2026	12:13:00	-0.087	-0.032	0.005	-0.061	< Direct Zero
7/28/2026	12:14:00	-0.089	-0.024	-0.001	-0.067	
7/28/2026	12:15:00	-0.088	0.008	-0.002	-0.066	

SPAN GAS RECORD

CLIENT/LOCATION: Chiquita Canyon Landfill Flare 1

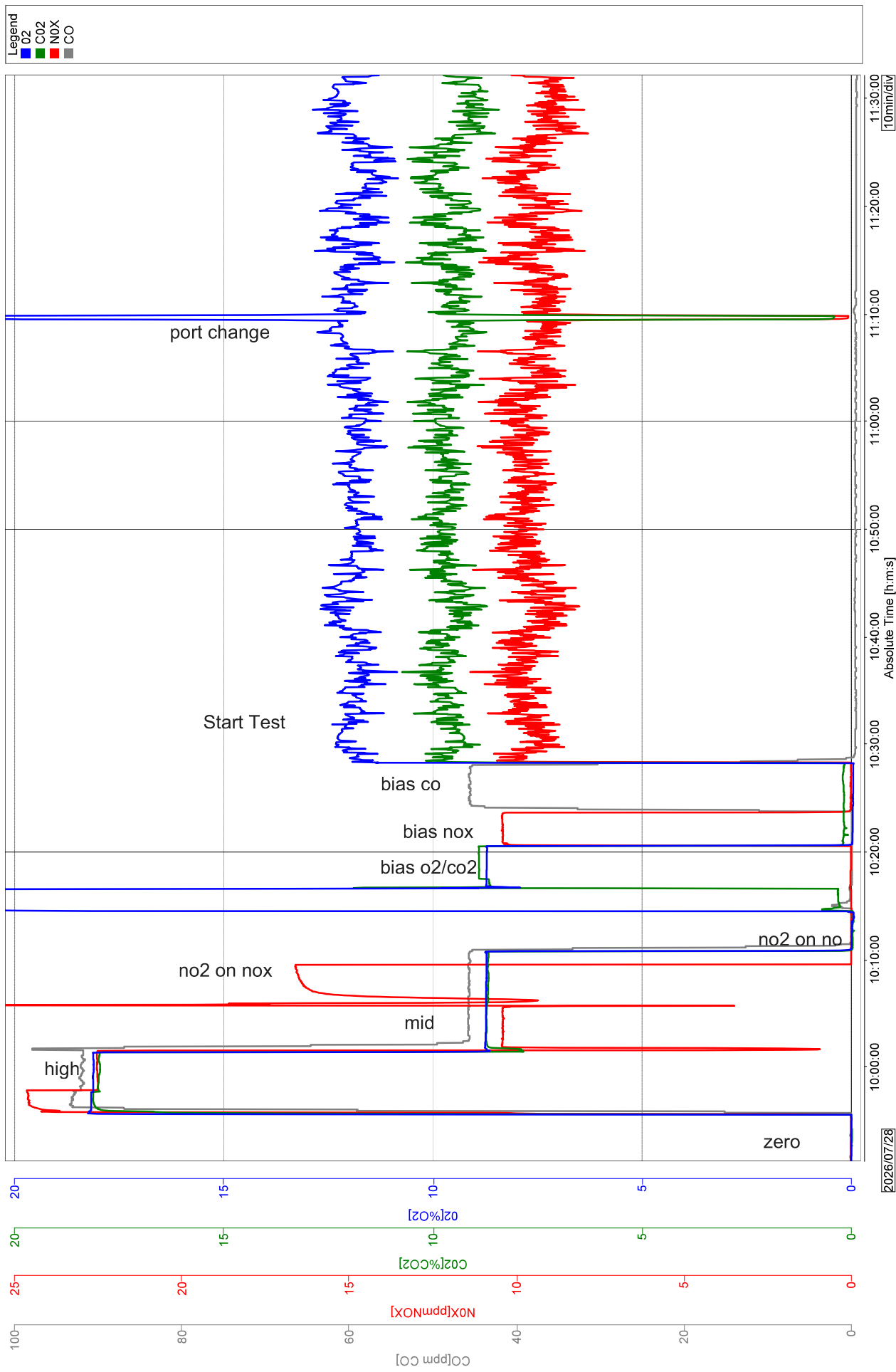
DATE: 7/28/26

TRUCK/CEM I.D.: T4

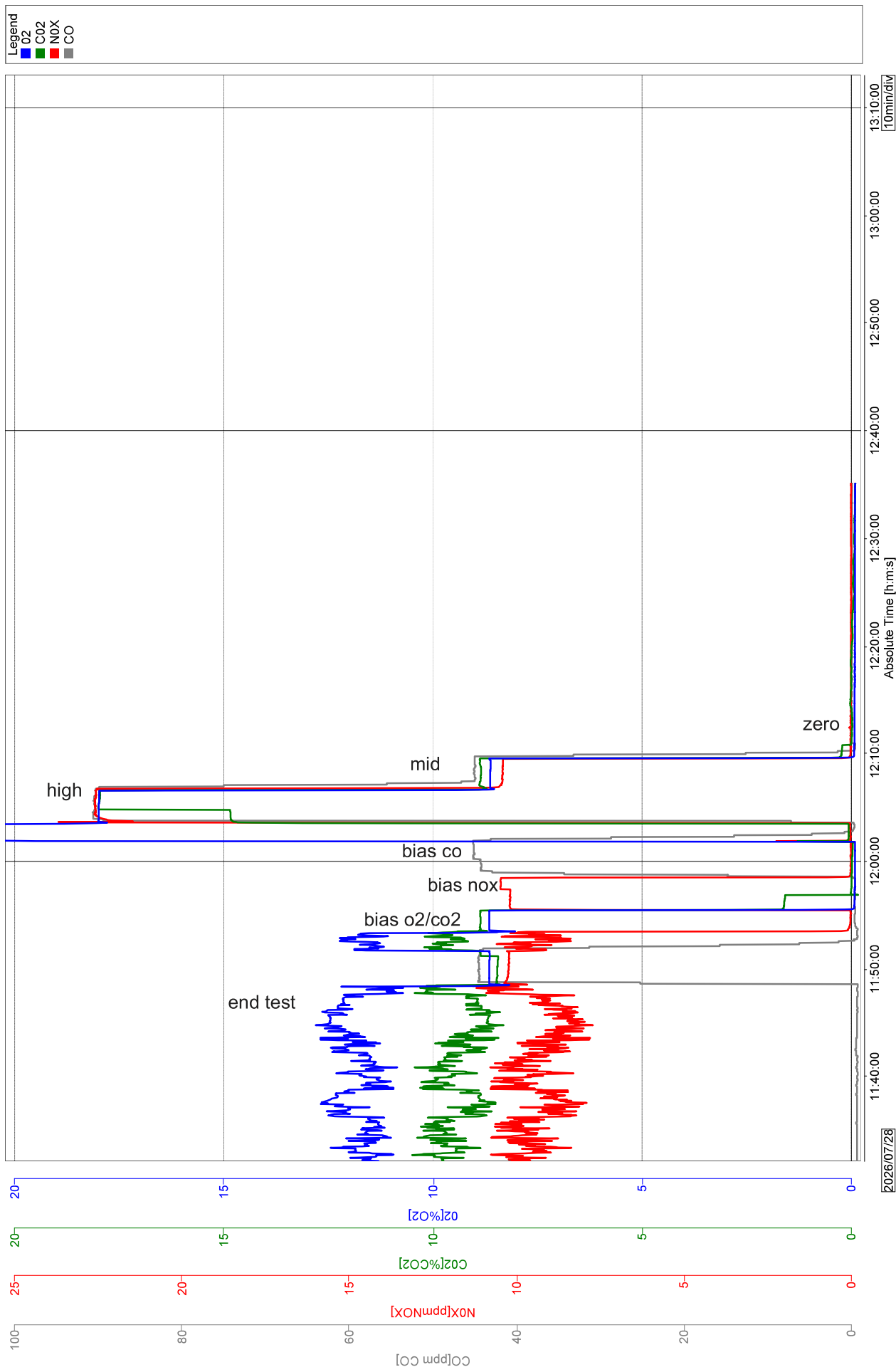
BY: SJ, KT, RC

	Gas	Cylinder #	Value	Exp. Date	Vendor ID	% of Range
ZERO	Low	EB0153435	0.0	5/22/34	NA	
O₂	Mid	EB0112960	8.79	5/21/34	B32026	43.9%
O₂	High	CC360644	18.11	7/13/34	B32026	90.6%
CO₂	Mid	EB0112960	8.85	5/21/34	B32026	44.2%
CO₂	High	CC360644	17.84	7/13/34	B32026	89.2%
NO_x	Mid	AAL071561	10.47	12/22/28	B32025	41.9%
NO_x	High	XC034785B	22.50	4/16/28	B32025	90.0%
NO₂	NO₂	CC364790	17.80	5/27/27	F22026	
CO	Mid	CC57706	45.07	2/25/34	B32026	45.1%
CO	High	CC1442	90.18	9/13/30	B32022	90.2%

File Name : 72809510.DEV
Serial No. : S5E205126
Print Groups : T4
Print Range : 2026/07/28 09:51:18.000 - 2026/07/28 12:35:06.000



File Name : 72809510.DEV
Serial No. : S5E205126
Print Groups : T4
Print Range : 2026/07/28 09:51:18.000 - 2026/07/28 12:35:06.000



Appendix A4 O_2 , CO_2 , NO_x , and CO Calculations / Results

**DATA AND WORKSHEET
RUN NUMBER 1**

TEST CONSTANTS					TEST VARIABLES				
Station: Chiquita Canyon Landfill Unit: Flare 1 Performed By: SJ, KT, RC Cp: 0.84 T _{ref} : 60 °F Stack Area: 100.88 ft ² Meter Y _d : 1.003					Start Date: 7/28/26 Start/End Time: 10:32 11:46 Test Condition: 1549 degrees F Barom. Pressure: 28.79 Pstack: -0.02 iwg Pstack: 28.79 "Hg MW: 28.77 lb/lb-mole				
METHOD 2.1 DATA					METHOD 100.1 DATA				
Point	dP (in. H ₂ O)	sqrt(dP)	Temp °F	Vel. (fps)	O ₂	CO ₂	NO _x	CO	
					Analyzer Range	20	20	25	100
					Cal Gas Value	8.79	8.85	10.47	45.07
					Pre-Test Direct Zero	-0.01	-0.02	-0.01	-0.03
					Pre-Test Direct Span	8.73	8.71	10.40	45.72
					Pre-Test System Zero	-0.05	0.16	0.01	-0.09
					Pre-Test System Span	8.71	8.82	10.41	45.52
					Post-Test System Zero	-0.09	-0.01	0.01	-0.47
					Post-Test System Span	8.64	8.85	10.41	45.05
					Post-Test Direct Zero	-0.09	-0.03	0.01	-0.06
					Post-Test Direct Span	8.62	8.85	10.40	44.96
					Raw Test Average	11.89	9.56	9.49	-0.60
					Cal Corrected Average	12.01	9.57	9.54	-0.32
Average	0.0257	0.1603	1509.3	17.72	Pre-test zero bias	-0.2%	0.9%	0.1%	-0.1%
					Pre-test span bias	-0.1%	0.5%	0.0%	-0.2%
					Post-test zero bias	0.0%	0.1%	0.0%	-0.4%
					Post-test span bias	0.1%	0.0%	0.0%	0.1%
					Zero drift	-0.2%	-0.9%	0.0%	-0.4%
					Span drift	-0.4%	0.2%	0.0%	-0.5%
Stack Flow Rate: 107,285 wacfm Stack Flow Rate: 24,447 dscfm									
METHOD 4.1 DATA									
Dry Gas Meter				Impingers				Meter Pressure: 1.0 iwg Sample Volume: 40.275 dscf H ₂ O Volume : 4.630 scf Moisture Content: 10.3 %	
Time	Vol.	T _m (in)	T _m (out)	#/Matl.	End	Start	Diff.		
Start				H ₂ O			0.0		
				H ₂ O			0.0		
End				Empty			0.0		
				SG			0.0		
Total	43.619		84.8	Total			99.6		
RESULTS									
	Ref. Meth	Defaulted	As Found	Permit Limits					
	O ₂ %		12.01						
	NO _x ppm		9.54						
	NO _x @ 3% O ₂		19.22						
	NO _x lb/hr		1.70	3.9					
	NO _x lb/day		40.72						
	NO _x lb/MMBtu		0.027	0.06					
	NO _x lb/MMCF		9.68						
	CO ppm	<20.00	-0.32	2000					
	CO @ 3% O ₂	<40.29	-0.64						
	CO lb/hr	<2.16	-0.03	5.6					
	CO lb/day	<51.95	-0.83						
	CO lb/MMBtu	<0.035	-0.001						
	CO lb/MMCF	<12.35	-0.20						

Note: Moisture and Flow data is from the PM run

*Cal corrected concentration is below the MDL. Using 20% of range

Appendix A5 Particulate Matter Calculations / Results

PARTICULATE DATA AND CALCULATIONS

Client/Location	Chiquita Canyon Landfill	Reference Temp (F)	60
Unit	Flare 1	Fuel	Landfill gas
Sample Location	Stack	Data By	SJ, KT, RC
Operating Condition	1,549		
Test No.	F1-1-PM		
Date	7/28/2026		
Test Method	SCAQMD 5.1		
Sample Train	48-WCS		
Pitot Factor	0.84		
Meter Cal Factor	1.003		
Stack Area (ft²)	100.88		
Sample Time (Minutes)	72		
Bar Press ("Hg)	28.79		
Nozzle Diam (inches)	0.648		
Fuel HHV (Btu/Scf)	312	From Fuel Analysis	
F-Factor (dscf/MMBTu)	10,043	From Fuel Analysis	
Start/Stop Time	1032/1146		
Stack Press (iwg)	-0.020		
Stack Temp (°F)	1509.3		
Velocity Head (iwg)	0.0257		
Stack O₂ (%)	12.01		
Stack CO₂ (%)	9.57		
Meter Vol (acf)	43.619		
Meter Temp (°F)	84.8		
Meter Press (iwg)	1.0		
Liquid Vol (ml)	99.6		
Std Sample Vol (SCF)	40.275		
Std Sample Vol (Nm³)	1.063		
Moisture Fraction	0.103		
Stack Gas Mol Wt	28.77		
Stack Gas Velocity (ft/sec)	17.72		
Stack Flow Rate (wacfm)	107,285		
Stack Flow Rate (dscfm)	24,447		
Isokinetic Ratio (%)	100.8		
			Limit
Particulate Catch¹, mg	10.65		
Grain Loading, gr/dscf	0.0041		0.057 (Rule 404)
Grain Loading @ 3% O₂	0.0082		--
Grain Loading @ 12% CO₂	0.0051		0.1 (Rule 409)
Mass Emissions, lb/hr	0.85		1.4
Emission rate, lb/day	20.50		--
Emission factor, lb/MMBTu	0.014		--
Emission factor, lb/MMSCF	4.29		--

¹ Aqueous fraction was further analyzed for acid and sulfate content, and lesser of the two fractions was subtracted from the total as allowed by Method

Test 1

	Vm	Ts	dP	dP ^{0.5}	dH	Tmi	Tmo
1	699.200	1504	0.025	0.1581	0.9		78
2		1511	0.027	0.1643	1.0		78
3		1511	0.026	0.1612	1.0		79
4		1513	0.029	0.1703	1.1		79
5		1518	0.026	0.1612	1.0		81
6		1515	0.023	0.1517	0.9		81
7		1513	0.025	0.1581	0.9		82
8		1512	0.029	0.1703	1.1		82
9		1512	0.031	0.1761	1.2		83
10		1510	0.030	0.1732	1.1		84
11		1509	0.031	0.1761	1.2		84
12		1504	0.029	0.1703	1.1		85
1		1506	0.027	0.1643	1.0		85
2		1507	0.025	0.1581	0.9		86
3		1505	0.026	0.1612	1.0		87
4		1510	0.023	0.1517	0.9		87
5		1511	0.020	0.1414	0.8		87
6		1513	0.022	0.1483	0.8		88
7		1510	0.024	0.1549	0.9		89
8		1505	0.023	0.1517	0.9		89
9		1502	0.025	0.1581	0.9		90
10		1506	0.027	0.1643	1.0		90
11		1508	0.024	0.1549	0.9		91
12	742.819	1508	0.022	0.1483	0.8		91
	43.619	1509.3	0.0257	0.1603	0.97	84.8	

Impingers

Post	Pre	Diff
0	100	-100
909.6	733.6	176
733.3	725.8	7.5
642.7	641.5	1.2
1003.1	988.2	14.9
	3189.1	99.6

Appendix A6 VOC, Trace Organics, and Sulfur Calculations/Results

METHOD 25.3 DATA

Client/Location.....	Chiquita Canyon Landfill	Reference Temp (F).....	60	
Unit.....	Flare 1	Fuel.....	Landfill Gas	
Sample Location.....	Stack	Data By.....	SJ, KT, RC	
Operating Condition (°F).....	1,549			
Test No.....	C-F1-1A	C-F1-1B	Average	Limit
Date.....	7/28/2026	7/28/2026		
Test Method.....	SCAQMD 25.3	SCAQMD 25.3		
Stack Area (ft ²).....	100.88	100.88		
Sample Time (Minutes).....	60	60		
Bar. Press (in. Hg.).....	28.79	28.79		
Start/Stop Time.....	1032/1132	1032/1132		
Stack O ₂ (%).....	12.8	12.3	(from canister analysis)	
O ₂ Correction Factor.....	3	3		
Stack Flow Rate (dscfm).....	24,447	24,447	(from PM)	
Methane (ppm).....	< 1.80	< 1.90	< 1.85	
Methane (lb/hr).....	< 0.111	0.118	< 0.114	
Canister VOC (ppm).....	2.57	2.89	2.73	
Water Vial VOC (ppm).....	10.90	10.15	10.53	
Total VOC (ppm)	13.47	13.04	13.26	
Method 25.3 Multiplier.....	1.086	1.086	--	
VOC as Methane (ppm)	14.63	14.16	14.39	
VOC as Methane (ppm @ 3% O ₂)....	32.33	29.48	30.90	
VOC as Methane (lb/hr).....	0.90	0.88	0.89	
VOC as Methane (lb/MMBtu).....	0.016	0.015	0.015	
VOC as Hexane (ppm)	2.44	2.36	2.40	
VOC as Hexane (ppm @ 3% O ₂)....	5.388	4.913	5.15	20
VOC as Hexane (lb/hr).....	0.811	0.785	0.80	
VOC as Hexane (lb/MMBtu).....	0.014	0.013	0.014	

INLET- VOC TEST RESULTS

Test Number	1-VOC-1
Reference Temperature, F	60
Test Date	7/28/2026
Test Method	EPA 18
Inlet O ₂ (%)	3.87
Inlet Flow Rate, dscfm	2,922
O ₂ Correction Factor (%)	3
F-Factor	10,043

Lab Results, ppm component			
Compound	Carbon Atoms	Run 1A	Run 1B
Methane	1	298,801	302,038
TNMOC as C1	1	2,725	2,721

TGNMOC, ppm as Methane	Average Results
ppm	2,723
ppm @3% O ₂	2,861
lb/hr	20.1

TGNMOC, ppm as Hexane	Average Results
ppm	454
ppm @3% O ₂	477
lb/hr	18.0

Methane	Average Results
ppm	300,420
ppm @3% O ₂	315,674
lb/hr	2,221

Analyte	Inlet Run 1		
	Result	Units	Reporting Limit
Benzene	100000	ppbv	580
Benzyl chloride	ND	ppbv	180
Chlorobenzene	300	ppbv	180
1,2-Dichlorobenzene	ND	ppbv	180
1,4-Dichlorobenzene	820	ppbv	180
1,1-Dichloroethane	ND	ppbv	180
1,2-Dichloroethane	290	ppbv	180
1,1-Dichloroethene	ND	ppbv	180
Methylene Chloride	ND	ppbv	180
1,2-Dibromoethane	ND	ppbv	180
Tetrachloroethene	ND	ppbv	180
Carbon Tetrachloride	ND	ppbv	180
Toluene	22000	ppbv	180
1,1,1-Trichloroethane	ND	ppbv	180
Trichloroethene	ND	ppbv	180
Chloroform	ND	ppbv	180
Vinyl Chloride	ND	ppbv	180
m,p-Xylenes	12000	ppbv	360
o-Xylene	4300	ppbv	180
1,3-Dichlorobenzene	ND	ppbv	180

Analyte	Inlet Run 2		
	Result	Units	Reporting Limit
Benzene	110000	ppbv	440
Benzyl chloride	ND	ppbv	440
Chlorobenzene	ND	ppbv	440
1,2-Dichlorobenzene	ND	ppbv	440
1,4-Dichlorobenzene	830	ppbv	440
1,1-Dichloroethane	ND	ppbv	440
1,2-Dichloroethane	ND	ppbv	440
1,1-Dichloroethene	ND	ppbv	440
Methylene Chloride	ND	ppbv	440
1,2-Dibromoethane	ND	ppbv	440
Tetrachloroethene	ND	ppbv	440
Carbon Tetrachloride	ND	ppbv	440
Toluene	21000	ppbv	440
1,1,1-Trichloroethane	ND	ppbv	440
Trichloroethene	ND	ppbv	440
Chloroform	ND	ppbv	440
Vinyl Chloride	ND	ppbv	440
m,p-Xylenes	12000	ppbv	890
o-Xylene	4100	ppbv	440
1,3-Dichlorobenzene	ND	ppbv	440

Analyte	Inlet Run 3		
	Result	Units	Reporting Limit
Benzene	120000	ppbv	540
Benzyl chloride	ND	ppbv	410
Chlorobenzene	ND	ppbv	410
1,2-Dichlorobenzene	ND	ppbv	410
1,4-Dichlorobenzene	840	ppbv	410
1,1-Dichloroethane	ND	ppbv	410
1,2-Dichloroethane	ND	ppbv	410
1,1-Dichloroethene	ND	ppbv	410
Methylene Chloride	ND	ppbv	410
1,2-Dibromoethane	ND	ppbv	410
Tetrachloroethene	ND	ppbv	410
Carbon Tetrachloride	ND	ppbv	410
Toluene	21000	ppbv	410
1,1,1-Trichloroethane	ND	ppbv	410
Trichloroethene	ND	ppbv	410
Chloroform	ND	ppbv	410
Vinyl Chloride	ND	ppbv	410
m,p-Xylenes	12000	ppbv	830
o-Xylene	4300	ppbv	410
1,3-Dichlorobenzene	ND	ppbv	410

Analyte	Outlet Run 1		
	Result	Units	Reporting Limit
Benzene	25	ppbv	0.36
Benzyl chloride	ND	ppbv	0.36
Chlorobenzene	ND	ppbv	0.36
1,2-Dichlorobenzene	ND	ppbv	0.36
1,4-Dichlorobenzene	ND	ppbv	0.36
1,1-Dichloroethane	ND	ppbv	0.36
1,2-Dichloroethane	ND	ppbv	0.36
1,1-Dichloroethene	ND	ppbv	0.36
Methylene Chloride	ND	ppbv	0.36
1,2-Dibromoethane	ND	ppbv	0.36
Tetrachloroethene	ND	ppbv	0.36
Carbon Tetrachloride	ND	ppbv	0.36
Toluene	5.2	ppbv	0.36
1,1,1-Trichloroethane	ND	ppbv	0.36
Trichloroethene	ND	ppbv	0.36
Chloroform	ND	ppbv	0.36
Vinyl Chloride	0.82	ppbv	0.36
m,p-Xylenes	1.0	ppbv	0.72
o-Xylene	0.38	ppbv	0.36
1,3-Dichlorobenzene	ND	ppbv	0.36

Analyte	Outlet Run 2		
	Result	Units	Reporting Limit
Benzene	1.1	ppbv	0.38
Benzyl chloride	ND	ppbv	0.38
Chlorobenzene	ND	ppbv	0.38
1,2-Dichlorobenzene	ND	ppbv	0.38
1,4-Dichlorobenzene	ND	ppbv	0.38
1,1-Dichloroethane	ND	ppbv	0.38
1,2-Dichloroethane	ND	ppbv	0.38
1,1-Dichloroethene	ND	ppbv	0.38
Methylene Chloride	ND	ppbv	0.38
1,2-Dibromoethane	ND	ppbv	0.38
Tetrachloroethene	ND	ppbv	0.38
Carbon Tetrachloride	ND	ppbv	0.38
Toluene	ND	ppbv	0.38
1,1,1-Trichloroethane	ND	ppbv	0.38
Trichloroethene	ND	ppbv	0.38
Chloroform	ND	ppbv	0.38
Vinyl Chloride	ND	ppbv	0.38
m,p-Xylenes	ND	ppbv	0.75
o-Xylene	ND	ppbv	0.38
1,3-Dichlorobenzene	ND	ppbv	0.38

Analyte	Outlet Run 3		
	Result	Units	Reporting Limit
Benzene	0.67	ppbv	0.39
Benzyl chloride	ND	ppbv	0.39
Chlorobenzene	ND	ppbv	0.39
1,2-Dichlorobenzene	ND	ppbv	0.39
1,4-Dichlorobenzene	ND	ppbv	0.39
1,1-Dichloroethane	ND	ppbv	0.39
1,2-Dichloroethane	ND	ppbv	0.39
1,1-Dichloroethene	ND	ppbv	0.39
Methylene Chloride	ND	ppbv	0.39
1,2-Dibromoethane	ND	ppbv	0.39
Tetrachloroethene	ND	ppbv	0.39
Carbon Tetrachloride	ND	ppbv	0.39
Toluene	ND	ppbv	0.39
1,1,1-Trichloroethane	ND	ppbv	0.39
Trichloroethene	ND	ppbv	0.39
Chloroform	ND	ppbv	0.39
Vinyl Chloride	ND	ppbv	0.39
m,p-Xylenes	ND	ppbv	0.78
o-Xylene	ND	ppbv	0.39
1,3-Dichlorobenzene	ND	ppbv	0.39

SCAQMD Method 307.91 Analytical Results
Chiquita Canyon Flare 1
7/28/2026

Analyte	Inlet 1	Inlet 2	Average
Sulfur Compounds:			
H ₂ S, ppm	132.4	84.59	108.50
Carbonyl Sulfide, ppm	<0.05	<0.05	<0.05
Methyl Mercaptan, ppm	84.99	53.87	69.43
Ethyl Mercaptan, ppm	1.65	<0.05	<0.85
Dimethyl Sulfide	5.02	3.15	4.09
Unidentified S Compounds, ppm	0.60	0.16	0.38
Total Sulfur as H₂S, ppm	224.7	141.8	183.22

Appendix A7 General Equations

General Emissions Calculations

I. Stack Gas Velocity

A. Stack gas molecular weight, lb/lb-mole

$$MW_{dry} = 0.44 * \% CO_2 + 0.32 * \% O_2 + 0.28 * \% N_2$$

$$MW_{wet} = MW_{dry} * (1 - B_{wo}) + 18 * B_{wo}$$

B. Absolute stack pressure, iwg

$$P_s = P_{bar} + \frac{P_{sg}}{13.6}$$

C. Stack gas velocity, ft/sec

$$V_s = 2.9 * C_p * \sqrt{\Delta P} * \sqrt{T_s} * \sqrt{\frac{29.92 * 28.95}{P_s * MW_{wet}}}$$

II. Moisture

A. Sample gas volume, dscf

$$V_{mstd} = 0.03342 * V_m * \left(P_{bar} + \frac{\Delta H}{13.6} \right) * \frac{T_{ref}}{T_m} * Y_d$$

B. Water vapor volume, scf

$$V_{wstd} = 0.0472 * V_{ic} * \frac{T_{ref}}{528^{\circ}R}$$

C. Moisture content, dimensionless

$$B_{wo} = \frac{V_{wstd}}{(V_{mstd} + V_{wstd})}$$

III. Stack Gas Volumetric Flow Rate

A. Actual stack gas volumetric flow rate, wacfm

$$Q = V_s * A_s * 60$$

B. Standard stack gas flow rate, dscfm

$$Q_{sd} = Q * (1 - B_{wo}) * \frac{T_{ref}}{T_s} * \frac{P_s}{29.92}$$

IV. Gaseous Mass Emission Rates, lb/hr

$$M = \frac{\text{ppm} * MW_i * Q_{sd} * 60}{SV * 10^6}$$

V. Emission Rates, lb/MMBtu

$$\frac{\text{lb}}{\text{MMBtu}} = \frac{\text{ppm} * MW_i * F}{SV * 10^6} * \frac{20.9}{20.9 - \% O_2}$$

VI. Percent Isokinetic

$$I = \frac{17.32 * T_s (V_{mstd})}{(1 - B_{wo}) * V_s * P_s * Dn^2} * \frac{528^\circ R}{T_{ref}}$$

VII. Particulate Emissions

- (a) Grain loading, gr/dscf
 $C = 0.01543 (M_n / V_{mstd})$

- (b) Grain loading at 12% CO₂, gr/dscf
 $C_{12\% CO_2} = C (12\% CO_2)$

- (c) Mass emissions, lb/hr
 $M = C * Q_{sd} * (60 \text{ min/hr}) / (7000 \text{ gr/lb})$

- (d) Particulate emission factor

$$\text{lb}/10^6 \text{ Btu} = Cx \frac{1 \text{ lb}}{7000 \text{ gr}} * F * \frac{20.9}{20.9 - \% O_2}$$

Nomenclature:

A_s	=	stack area, ft ²
B_{wo}	=	flue gas moisture content, dimensionless
$C_{12\%CO_2}$	=	particulate grain loading, gr/dscf corrected to 12% CO ₂
C	=	particulate grain loading, gr/dscf
C_p	=	pitot calibration factor, dimensionless
D_n	=	nozzle diameter, inches
F	=	fuel F-Factor, dscf/MMBtu @ 0% O ₂
H	=	orifice differential pressure, iwg
I	=	% isokinetics
M_n	=	mass of collected particulate, mg
M_i	=	mass emission rate of specie i, lb/hr
MW	=	molecular weight of flue gas, lb/lb-mole
M_{wi}	=	molecular weight of specie i:
		SO ₂ : 64
		NO _x : 46
		CO: 28
		HC: 16
t	=	sample time, minutes
ΔP	=	average velocity head, iwg = $(\sqrt{\Delta P})^2$
P_{bar}	=	barometric pressure, inches Hg
P_s	=	stack absolute pressure, inches Hg
P_{sg}	=	stack static pressure, iwb
Q	=	wet stack flow rate at actual conditions, wacfm
Q_{sd}	=	dry standard stack flow rate, dscfm
SV	=	specific molar volume of an ideal gas at standard conditions, ft ³ /lb-mole
T_m	=	meter temperature, °R
T_{ref}	=	reference temperature, °R
T_s	=	stack temperature, °R
V_s	=	stack gas velocity, ft/sec
V_{lc}	=	volume of liquid collected in impingers, ml
V_m	=	uncorrected dry meter volume, dcf
V_{mstd}	=	dry meter volume at standard conditions, dscf
V_{wstd}	=	volume of water vapor at standard conditions, scf
Y_d	=	meter calibration coefficient

Appendix B Facility Process Data

CHIQUITA CANYON LANDFILL FLARE NO. 1 (FL-1995, formerly FL-150)

DAQSTANDARD R9.05.04
Data Viewer R9.05.04
SCS Engineers Cornelius Fong
Device Type DX1000
Serial No. S5LA04465
Sampling Interval 60.000 sec
Damage Check Not Damaged

Date	Time	Ch.	CH003		CH004	
		Tag	FL-150 INST FLOW		FL-150 TEMP	
		Unit	SCFM		°F	
		sec	MIN	MAX	MIN	MAX
2026/07/28	10:30:00	0.000	2901	2934	1539	1544
2026/07/28	10:31:00	0.000	2884	2930	1539	1543
2026/07/28	10:32:00	0.000	2892	2934	1543	1551
2026/07/28	10:33:00	0.000	2892	2936	1551	1557
2026/07/28	10:34:00	0.000	2888	2929	1556	1559
2026/07/28	10:35:00	0.000	2879	2934	1553	1556
2026/07/28	10:36:00	0.000	2885	2920	1551	1554
2026/07/28	10:37:00	0.000	2876	2929	1550	1551
2026/07/28	10:38:00	0.000	2883	2928	1548	1551
2026/07/28	10:39:00	0.000	2885	2936	1550	1552
2026/07/28	10:40:00	0.000	2889	2938	1549	1552
2026/07/28	10:41:00	0.000	2876	2925	1543	1550
2026/07/28	10:42:00	0.000	2888	2934	1538	1543
2026/07/28	10:43:00	0.000	2881	2920	1537	1538
2026/07/28	10:44:00	0.000	2906	2943	1537	1539
2026/07/28	10:45:00	0.000	2896	2932	1538	1542
2026/07/28	10:46:00	0.000	2892	2940	1542	1545
2026/07/28	10:47:00	0.000	2888	2930	1545	1548
2026/07/28	10:48:00	0.000	2891	2944	1547	1549
2026/07/28	10:49:00	0.000	2894	2939	1548	1554
2026/07/28	10:50:00	0.000	2900	2946	1554	1556
2026/07/28	10:51:00	0.000	2897	2954	1555	1559
2026/07/28	10:52:00	0.000	2884	2935	1558	1560
2026/07/28	10:53:00	0.000	2895	2957	1557	1559
2026/07/28	10:54:00	0.000	2892	2950	1557	1559
2026/07/28	10:55:00	0.000	2898	2953	1551	1559
2026/07/28	10:56:00	0.000	2897	2935	1545	1551
2026/07/28	10:57:00	0.000	2893	2956	1541	1545
2026/07/28	10:58:00	0.000	2896	2936	1540	1541
2026/07/28	10:59:00	0.000	2900	2937	1540	1544
2026/07/28	11:00:00	0.000	2893	2935	1543	1549
2026/07/28	11:01:00	0.000	2901	2942	1549	1553
2026/07/28	11:02:00	0.000	2899	2939	1551	1553
2026/07/28	11:03:00	0.000	2893	2939	1549	1551
2026/07/28	11:04:00	0.000	2889	2944	1546	1549
2026/07/28	11:05:00	0.000	2896	2936	1546	1548
2026/07/28	11:06:00	0.000	2917	2950	1547	1549
2026/07/28	11:07:00	0.000	2901	2944	1544	1547
2026/07/28	11:08:00	0.000	2895	2951	1542	1544
2026/07/28	11:09:00	0.000	2911	2953	1544	1548
2026/07/28	11:10:00	0.000	2907	2964	1547	1549
2026/07/28	11:11:00	0.000	2910	2953	1546	1548
2026/07/28	11:12:00	0.000	2918	2944	1547	1549
2026/07/28	11:13:00	0.000	2918	2969	1548	1549

Run

CHIQUITA CANYON LANDFILL FLARE NO. 1 (FL-1995, formerly FL-150)

DAQSTANDARD R9.05.04
Data Viewer R9.05.04
SCS Engineers Cornelius Fong
Device Type DX1000
Serial No. S5LA04465
Sampling Interval 60.000 sec
Damage Check Not Damaged

Date	Time	Ch.	CH003		CH004	
		Tag	FL-150 INST FLOW		FL-150 TEMP	
		Unit	SCFM		°F	
		sec	MIN	MAX	MIN	MAX
2026/07/28	11:14:00	0.000	2913	2955	1548	1550
2026/07/28	11:15:00	0.000	2894	2961	1549	1550
2026/07/28	11:16:00	0.000	2909	2953	1550	1553
2026/07/28	11:17:00	0.000	2908	2955	1552	1554
2026/07/28	11:18:00	0.000	2902	2937	1552	1554
2026/07/28	11:19:00	0.000	2908	2943	1552	1553
2026/07/28	11:20:00	0.000	2911	2940	1552	1554
2026/07/28	11:21:00	0.000	2906	2947	1553	1554
2026/07/28	11:22:00	0.000	2904	2940	1550	1554
2026/07/28	11:23:00	0.000	2906	2956	1546	1550
2026/07/28	11:24:00	0.000	2894	2956	1546	1547
2026/07/28	11:25:00	0.000	2890	2950	1546	1548
2026/07/28	11:26:00	0.000	2916	2955	1547	1548
2026/07/28	11:27:00	0.000	2910	2945	1543	1547
2026/07/28	11:28:00	0.000	2900	2940	1541	1543
2026/07/28	11:29:00	0.000	2909	2943	1541	1544
2026/07/28	11:30:00	0.000	2911	2950	1541	1544
2026/07/28	11:31:00	0.000	2901	2949	1541	1547
2026/07/28	11:32:00	0.000	2898	2952	1547	1550
2026/07/28	11:33:00	0.000	2903	2949	1550	1554
2026/07/28	11:34:00	0.000	2893	2935	1553	1557
2026/07/28	11:35:00	0.000	2897	2948	1556	1557
2026/07/28	11:36:00	0.000	2899	2951	1556	1558
2026/07/28	11:37:00	0.000	2900	2942	1554	1557
2026/07/28	11:38:00	0.000	2909	2944	1553	1554
2026/07/28	11:39:00	0.000	2902	2946	1553	1554
2026/07/28	11:40:00	0.000	2911	2951	1552	1554
2026/07/28	11:41:00	0.000	2899	2938	1546	1555
2026/07/28	11:42:00	0.000	2911	2947	1537	1546
2026/07/28	11:43:00	0.000	2904	2956	1533	1537
2026/07/28	11:44:00	0.000	2908	2967	1534	1538
2026/07/28	11:45:00	0.000	2908	2953	1538	1541
2026/07/28	11:46:00	0.000	2901	2962	1540	1542
2026/07/28	11:47:00	0.000	2915	2958	1541	1549
2026/07/28	11:48:00	0.000	2912	2962	1549	1556
2026/07/28	11:49:00	0.000	2904	2950	1553	1556
2026/07/28	11:50:00	0.000	2899	2963	1552	1553
2026/07/28	11:51:00	0.000	2899	2946	1553	1556
2026/07/28	11:52:00	0.000	2903	2944	1554	1556
2026/07/28	11:53:00	0.000	2888	2934	1555	1556
2026/07/28	11:54:00	0.000	2896	2947	1551	1556
2026/07/28	11:55:00	0.000	2911	2941	1549	1551
2026/07/28	11:56:00	0.000	2908	2947	1549	1551
2026/07/28	11:57:00	0.000	2903	2960	1550	1554

CHIQUITA CANYON LANDFILL FLARE NO. 1 (FL-1995, formerly FL-150)

DAQSTANDARD R9.05.04
Data Viewer R9.05.04
SCS Engineers Cornelius Fong
Device Type DX1000
Serial No. S5LA04465
Sampling Interval 60.000 sec
Damage Check Not Damaged

Date	Time	Ch.	CH003		CH004	
		Tag	FL-150 INST FLOW		FL-150 TEMP	
		Unit	SCFM		°F	
		sec	MIN	MAX	MIN	MAX
2026/07/28	11:58:00	0.000	2912	2954	1553	1554
2026/07/28	11:59:00	0.000	2911	2952	1551	1555
2026/07/28	12:00:00	0.000	2902	2950	1549	1551

Stop

Average during Run:	2922	1549
Minimum during Run:	2876	1533
Maximum during Run:	2969	1560

Chiquita Canyon
Flare 1
July 28, 2026
SUMMARY OF EPA M-19 SOURCE TEST DATA AND CALCULATIONS

PARAMETER	UNITS	Run 1A	Run 1B	Average
DATE		7/28/2026	7/28/2026	7/28/2026
FUEL FLOW	SCFM	--	--	2,922
CALORIFIC VALUE	BTU/CF	311.0	313.0	312.0
F FACTOR (Fd)	DSCF/MMBTU	10,038	10,048	10,043
EXHAUST O2 CONCENTRATION	%VD	--	--	12.01
HEAT INPUT - LANDFILL GAS	MMBTU/MIN	--	--	0.9117
EXHAUST VOLUME FLOW RATE	DSCFM	--	--	21,536

Values stated based on a standard temperature of: 60 °F

RAA compared to measured flow rate: 11.91 % <20%

Data File:

COMPONENT VALUES DETERMINED AT CALIBRATION**Integral Transducer****PCB** PCB 100385**PCB** PCB 100389

R5 800

R-GAIN 4420

R7 800

R8 100

R9 909

R15 5760

FLOW SENSOR - 50 OHMS NI @75 DEG F

TEMP SENSOR - 100 OHMS NI @75 DEG F

CALIBRATION POTENTIOMETERS

TA 548

TC 579

OPERATING RANGE

	minimum	maximum	units
FLOW	0	4500	SCFM LANDFILL GAS MIX
TEMPERATURE	40	200	F
PRESSURE	0	15	PSIG

COMMENTS

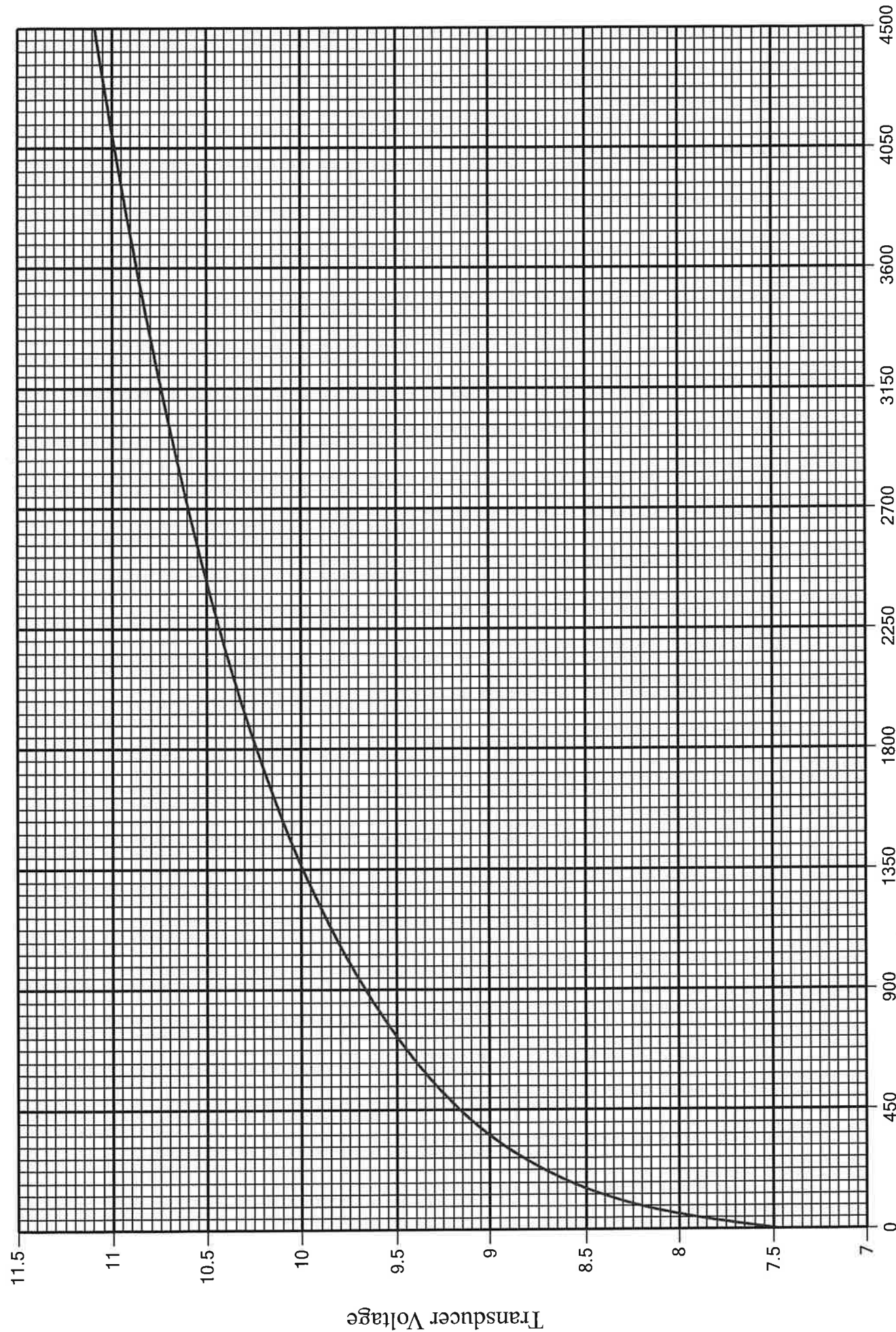
16" FIBERGLASS LINE

LFG MIX: 28% CH₄, 41% CO₂, 4% O₂**METER OUTPUT SIGNAL CALIBRATION**

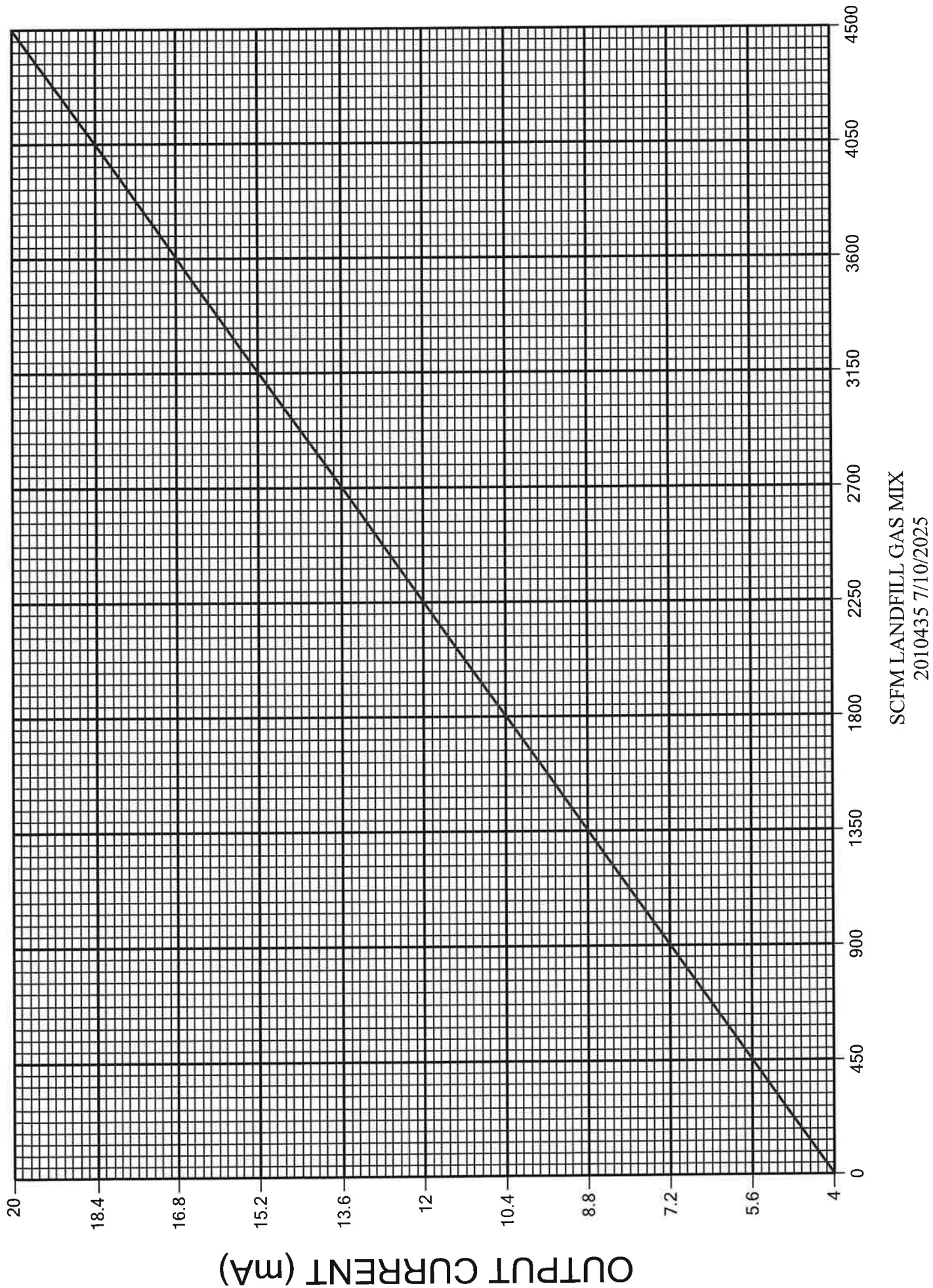
mA	SCFM LANDFILL GAS MIX	Volts
4.00	0.000	7.4640
4.16	45.000	7.8670
4.32	90.000	8.1740
4.80	225.000	8.7230
5.60	450.000	9.1620
7.20	900.000	9.6670
8.80	1350.000	9.9920
10.40	1800.000	10.2350
12.00	2250.000	10.4320
13.60	2700.000	10.5980
15.20	3150.000	10.7430
16.80	3600.000	10.8700
18.40	4050.000	10.9860
20.00	4500.000	11.0910

9500 EEPROM SETUP DATA

Maximum Flow Range	4500	SCFM LANDFILL GAS MIX
Flow FS at 20 mA	4500	SCFM LANDFILL GAS MIX
Flow Full Scale Displayed	4500	SCFM LANDFILL GAS MIX
Totalizer Counts	450	per/Min
Totalizer Decimal Point	0	
Display Cutoff	3	% FS
Filter Time Constant	2 SEC	



Volume - SCFM ID:16.0 at 60
2010435 Custom 7/10/2025



Thermal Instrument Company**METER CONFIGURATION PAGE**Serial Number **2010435**

Firmware 9500

Meter Type

Revision

Build

Parameter	Value
Flow Full Scale	4500.000
Flow at 20 mA	4500.000
Totalizer Count/minute	450
Totalizer Decimal Point	0
Zero Cutoff	3 % FS
Filter Time Constant	2 sec
Totalizer	0
Offset	0

Tech Initials SR

THERMAL INSTRUMENT COMPANY, INC.

CALIBRATION CERTIFICATION

We certify that the calibration accuracies listed below are obtained on equipment, and with methods, that can be traced directly to the US National Institute of Standards and Technology.

FLOWRATE READOUT ACCURACY: $\pm$ 1% Full Scale

Purchase Order: 07-EST1380

PRESSURE TESTED AT:

Standards:

METER SERIAL NUMBER: **2010435**

MODEL NUMBER: **62-9/9500I**

The calibration listed above was performed under the following conditions:

0 - 4500 SCFM LANDFILL GAS MIX

40 - 200 DEG F

0 - 15 PSIG

16" FIBERGLASS LINE

LFG MIX: 28% CH₄, 41% CO₂, 4% O₂

Customer Address:

SCS Engineers

Cornelius Fong

29201 Henry Mayo Dr

Castaic

United States

CA

91384

Standard Conditions: 60Deg. F @ 1 ATM

Deviations:

CERTIFIED THAT THE SUPPLIES/SERVICES DETAILED HEREIN HAVE BEEN INSPECTED AND TESTED IN ACCORDANCE WITH THE CONDITIONS AND REQUIREMENTS OF THE CONTRACT OR PURCHASE ORDER, AND UNLESS OTHERWISE SPECIFIED AS AN AGREED DEVIATION FROM THE CONTRACT, CONFORM IN ALL RESPECTS TO THE SPECIFICATION(S) AND DRAWING(S) RELEVANT THERETO

NA

Signature

Susan Rosbury

Date

July 10, 2025

217 Sterner Mill Road, Trevoese, PA 19053

Phone: 215-355-8400

Fax: 215-355-1789

Web: www.thermalinstrument.com

Appendix C Laboratory Analysis Data

Appendix C1 Particulate Matter Analysis

Particulate Calculation Sheet

Project #: PROJ-068908
Client Name: Chiquita Canyon
Sample Location: Flare 1
Received Date: Aug 10, 2026

	Run Results
LAB ANALYSIS (mg)	Flare 1 1-PM
Glass Fiber Filter Catch	2.9
(1) Filter Acid	0.0
(2) Filter Total Sulfate	0.0
Insoluble Particulate Catch	2.6
(1) Insoluble Particulate Catch Acid	0.0
(2) Insoluble Particulate Catch Total Sulfate	0.0
Impinger (Inorganic Fraction) Catch	22.2
(1) Impinger Acid	17.2
(2) Impinger Total Sulfate	17.2
Organic Fraction Extract	0.1
Uncorrected Total Particulate	27.8

FILTER TEMPERATURE LESS THAN 200°F (mg)	
Filterable Particulate (A+C)	5.5
Backhalf Particulate (E+G)	22.3
Total Particulate (A+C+E-F*+G)	10.7
Solid Particulate (J-B*-D*-G)	10.6

FILTER TEMPERATURE GREATER THAN 200°F (mg)	
Filterable Particulate (A+C)	5.5
Backhalf Particulate (E+G)	22.3
Total Particulate (A-B*+C-D*+E-F*+G)	10.7
Solid Particulate (J-G)	10.6

* Use Lower of (1) and (2)

PARTICULATE

SCAQMD 5.1, WET IMPINGEMENT

Project #: PROJ-068908
Client Name: Chiquita Canyon
Sample Location: Flare 1
Test Run #: FB-PM-Flare 1

Sample Date: Jul 28, 2026
Received Date: Aug 10, 2026
Analyst Initials: IG

Sample Fraction	Container ID	Total Weight (g)	Tare Weight (g)	Sample Weight (mg)	Aliquot Correction (TV/V _{evap}) (ml/ml)	Sample Weight Correction Net Gain (mg/sample)	Blank Based on Total Volume (mg)
1. Glass Fiber Filter	55-8894	0.1656	0.1656	0.0	-----	0.0	-----
2. Insoluble Particulate Filter	55-8927	0.1642	0.1642	0.0	-----	0.0	-----
3. Impinger Contents & Rinses	3388	28.6596	28.6593	0.3	369	0.3	NA
a. Inorganic Fraction					369		
b. Organic Fraction	3389	30.1294	30.1290	0.4	369	0.4	NA
125 ml MeCl ₂ (5x25mL)					369		

Total Particulate = 0.7 mg

Method of Sample Prep/Analysis Notes

PARTICULATE

SCAQMD 5.1, WET IMPINGEMENT

Project #: PROJ-068908
Client Name: Chiquita Canyon
Sample Location: Flare 1
Test Run #: Flare 1 1-PM

Sample Date: Jul 28, 2026
Received Date: Aug 10, 2026
Analyst Initials: IG

Sample Fraction	Container ID	Total Weight (g)	Tare Weight (g)	Sample Weight (mg)	Aliquot Correction (TV/V _{evap}) (ml/ml)	Sample Weight Correction Net Gain (mg/sample)	Blank Based on Total Volume (mg)
1. Glass Fiber Filter	55-8893	0.1683	0.1654	2.9	-----	2.9	-----
2. Insoluble Particulate Filter	55-8928	0.1663	0.1637	2.6	-----	2.6	-----
3. Impinger Contents & Rinses	3390	29.6751	29.6529	22.2	480	22.2	NA
a. Inorganic Fraction					480		
b. Organic Fraction	3391	29.3410	29.3409	0.1	480	0.1	NA
125 ml MeCl ₂ (5x25mL)					480		

Total Particulate = 27.8 mg

Method of Sample Prep/Analysis Notes

Particulate Acid Base Titration Analysis

Project #: PROJ-068908
Client Name: Chiquita Canyon
Sample Location: Flare 1
Titrant Used: 0.1 N NaOH

Sample Date: Jul 28, 2026
Analysis Date: Aug 20, 2026
Analyst Initials: IG
Analysis Required: H₂SO₄ · 2H₂O

Test Run #	Sample Fraction	Total Vol (ml) (TV)	V _{recon}	V _{evap}	Aliquot Vol (ml) (A)	Titrant Volume (ml) (V _T)	Average V _T Volume (ml) (V)	Container ID	mg/Sample
Blank (V_b): 50ml DI H ₂ O					50	0.00 0.00	0.00	$N = \frac{(0.02 * A_{STD})}{V_{STD}}$	
Standardization (STD): 30ml DI H ₂ O + 20ml 0.02000 N H ₂ SO ₄					20	4.36 4.34	4.35	N= 0.0919540	
Audit Sample: 5ml 0.1 N H ₂ SO ₄ + 45ml DI H ₂ O					5	5.23 5.28	5.26	Recovery: 97%	
Flare 1 1-PM	Inorganic Fraction	480	150	480	50	0.91 0.95	0.93	Beaker #3390	17.20

Method of Sample Prep/Analysis Notes

$$\text{mg H}_2\text{SO}_4 \cdot 2\text{H}_2\text{O} = (V) (N) \left(\frac{134.11}{2} \right) \left(\frac{V_{\text{recon}}}{A} \right) \left(\frac{TV}{V_{\text{evap}}} \right)$$

$$\text{Where: } V = V_{\text{Tave}} - V_b$$

pH Meter Calibration Check:		
Measured	Actual	Deviation
4.04	4.0	1.0%
7.02	7.0	0.3%

Notes:

- 1) Sample fraction reconstituted in DI H₂O for a minimum of 4 hours.
- 1a) Filter reconstituted with 5mls of 0.1N HCl in addition to DI H₂O.
- 2) Sample is volumed to 150mls with DI H₂O.
- 3) Duplicate analysis using 50ml aliquots.
- 4) Sample is titrated to a pH end-point of 4.2 using certified 0.1N NaOH
- 5) Replicate titration values must agree to within 0.05 mls of each other.

Particulate Sulfate Titration Analysis

Project #: PROJ-068908
Client Name: Chiquita Canyon
Sample Location: Flare 1
Titration Used: 0.01 N BaCl₂

Sample Date: Jul 28, 2026
Analysis Date: Aug 20, 2026
Analyst Initials: IG
Analysis Required: H₂SO₄ · 2H₂O

Test Run #	Sample Fraction	Total Vol (ml) (TV)	V _{recon}	V _{evap}	Dilution Factor (DF)	Aliquot Vol (ml) (A)	Titration Volume (ml) (V _T)	Average V _T Volume (ml) (V)	Container ID	mg/Sample
Blank (V_b): 10ml DI H ₂ O + 40ml IPA						10	0.01 0.01	0.01	$N = \frac{(0.02 * A_{STD})}{V_{STD}}$	
Standardization (STD): 15ml DI H ₂ O + 5ml 0.02 N H ₂ SO ₄ + 80ml IPA						5	9.43 9.47	9.44	N = 0.01059322	
Audit Sample: 5ml 1000 ppm SO ₄ + 15ml DI H ₂ O + 80ml IPA						5	9.55 9.51	9.52	Recovery: 97%	
Flare 1 1-PM	Inorganic Fraction	480	150	480	1	10	1.63 1.60	1.61	Beaker #3390	17.15

Method of Sample Prep/Analysis Notes

$$\text{mg H}_2\text{SO}_4 \cdot 2\text{H}_2\text{O} = (\text{DF})(V)(N) \left(\frac{134.11}{2} \right) \left(\frac{V_{\text{recon}}}{A} \right) \left(\frac{TV}{V_{\text{evap}}} \right) \quad \text{Where: } V = V_{\text{Tave}} - V_b$$

Notes:

- 1) Using leftover reconstituted sample made in steps 1-2 in Acid Base Titration
- 2) Use 1:4 ratio of sample to 100% IPA for analysis. (10mls of sample to 40mls of IPA)
- 3) Add two to four drops of Thorin Indicator.
- 4) Titrate to a pink end point with BaCl₂
- 5) Replicate titration values must agree within 1% or 0.05ml, whichever is greater.

PARTICULATE
SCAQMD 5.1, WET IMPINGEMENT

Project #:	PROJ-068908	Sample Date:	Jul 28, 2026
Client Name:	Chiquita Canyon	Received Date:	Aug 10, 2026
Sample Location:	Flare 1	Analyst Initials:	IG
Test Run #:	FB-PM-Flare 1		

Sample Fraction	Container ID	Total Weight (g)	Tare Weight (g)	Aliquot Correction (TV/V _{evap}) (ml/ml)
1. Glass Fiber Filter	55-8894	0.1656	0.1656	-----
2. Insoluble Particulate Filter	55-8927	0.1642	0.1642	-----
3. Impinger Contents & Rinses	3388	28.6596	28.6593	369
a. Inorganic Fraction				369
b. Organic Fraction	3389	30.1294	30.1290	369
125 ml MeCl ₂ (5x25mL)				369

Method of Sample Prep/Analysis Notes

PARTICULATE
SCAQMD 5.1, WET IMPINGEMENT

Project #:	PROJ-068908	Sample Date:	Jul 28, 2026
Client Name:	Chiquita Canyon	Received Date:	Aug 10, 2026
Sample Location:	Flare 1	Analyst Initials:	IG
Test Run #:	Flare 1 1-PM		

Sample Fraction	Container ID	Total Weight (g)	Tare Weight (g)	Aliquot Correction (TV/V _{evap}) (ml/ml)
1. Glass Fiber Filter	55-8893	0.1683	0.1654	-----
2. Insoluble Particulate Filter	55-8928	0.1663	0.1637	-----
3. Impinger Contents & Rinses	3390	29.6751	29.6529	480
a. Inorganic Fraction				480
b. Organic Fraction	3391	29.3410	29.3409	480
125 ml MeCl ₂ (5x25mL)				480

Method of Sample Prep/Analysis Notes

Particulate Acid Base Titration Analysis

Project #: PROJ-068908
Client Name: Chiquita Canyon
Sample Location: Flare 1
Analysis Date: Aug 20, 2026
Analyst Initials: IG

Test Run #	Sample Fraction	Total Vol (ml) (TV)	V _{recon}	V _{evap}	Aliquot Vol (ml) (A)	Titrant Volume (ml) (V _T)	Container ID
Blank (V_b): 50ml DI H ₂ O					50	0.00 0.00	NA
Standardization (STD): 30ml DI H ₂ O + 20ml 0.02000 N H ₂ SO ₄					20	4.36 9.34	NA
Audit Sample: 5ml 0.1 N H ₂ SO ₄ + 45ml DI H ₂ O					5	5.23 5.28	NA
Flare 1 1-PM	Inorganic Fraction	480	150	480	50	0.91 0.95	Beaker #3390

Method of Sample Prep/Analysis Notes

pH Meter Cal. Check:	
Measured	Actual
4.04	4.0
7.62	7.0

Analysis Required: H₂SO₄ · 2H₂O

Notes:

- 1) Sample fraction reconstituted in DI H₂O for a minimum of 4 hours.
- 1a) Filter reconstituted with 5mls of 0.1N HCl in addition to DI H₂O.
- 2) Sample is volumed to 150mls with DI H₂O.
- 3) Duplicate analysis using 50ml aliquots.
- 4) Sample is titrated to a pH end-point of 4.2 using certified 0.1N NaOH
- 5) Replicate titration values must agree to within 0.05 mls of each other.

Particulate Sulfate Titration Analysis

Project #: PROJ-068908
Client Name: Chiquita Canyon
Sample Location: Flare 1
Analysis Date: Aug 20, 2026
Analyst Initials: IG

Test Run #	Sample Fraction	Total Vol (ml) (TV)	V _{recon}	V _{evap}	Dilution Factor (DF)	Aliquot Vol (ml) (A)	Titration Volume (ml) (V _T)	Container ID
Blank (V_b): 10ml DI H ₂ O + 40ml IPA						10	0.01 0.01	NA
Standardization (STD): 15ml DI H ₂ O+ 5ml 0.02 N H ₂ SO ₄ +80ml IPA						5	9.43 9.47	NA
Audit Sample: 5ml 1000 ppm SO ₄ + 15ml DI H ₂ O + 80ml IPA						5	9.55 9.51	NA
Flare 1 1-PM	Inorganic Fraction	480	150	480	1	10	1.63 1.60	Beaker #3390

Method of Sample Prep/Analysis Notes

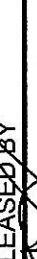
Analysis Required: H₂SO₄ · 2H₂O

Notes:

- 1) Using leftover reconstituted sample made in steps 1-2 in Acid Base Titration
- 2) Use 1:4 ratio of sample to 100% IPA for analysis. (10mls of sample to 40mls of IPA)
- 3) Add two to four drops of Thorin Indicator.
- 4) Titrate to a pink end point with BaCl₂
- 5) Replicate titration values must agree within 1% or 0.05ml, whichever is greater.

CLIENT: Chiquita Canyon	PROJ-068908	TEST DATE(S): 7/28/2026
LOCATION: Flare 1		SAMPLER(S): PSJ, KT, RC
SAMPLE LOCATION: Stack		PROJECT MANAGER: PSJ
TEST METHOD(S): SCAQMD 5.1		DATE DUE: ASAP
OUTSIDE LAB REQUIRED?: No		COMPLIANCE TEST?: Yes

[illegible]

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
	8/10/26	Dan Smith	8/10/26 1400

ANALYSIS REQUIRED:	PM by SCAQMD Method 5.1, with Organics Extraction and Acid/Sulfate
--------------------	--

Appendix C2 VOC, Trace Organics, Sulfur, and Fuel Gas Analysis



Onterris
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

onterris.com

Lab Job Number : 564759
Report Level : II
Report Date : 08/12/2026

Analytical Report *prepared for:*

Pete San Juan
Onterris Air Quality Services
1631 E. St Andrew Pl
Santa Ana, CA 92705

Location: Chiquita Flare 1 / PROJ-068908

Authorized for release by:

A handwritten signature in black ink, appearing to read "Richard Villafania".

Richard Villafania, Senior Project Manager
+1 714.771.6900
richard.villafania@onterris.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, CA ELAP #1338-S1, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, ORELAP# 4197



Sample Summary

Pete San Juan	Lab Job #:	564759
Onterris Air Quality	Location:	Chiquita Flare 1 / PROJ-068908
Services	Date Received:	07/29/26
1631 E. St Andrew Pl		
Santa Ana, CA 92705		

Sample ID	Lab ID	Collected	Matrix
FLARE 1 EXH (C80213)	564759-001	07/28/26 11:32	Air
FLARE 1 EXH (C80228)	564759-002	07/28/26 11:32	Air
FLARE 1 INLET 1	564759-003	07/28/26 11:02	Air
FLARE 1 INLET 2	564759-004	07/28/26 11:37	Air
FLARE 1 INLET 3	564759-005	07/28/26 12:07	Air
FLARE EXH 1	564759-006	07/28/26 11:02	Air
FLARE EXH 2	564759-007	07/28/26 11:37	Air
FLARE EXH 3	564759-008	07/28/26 12:07	Air

Case Narrative

Onterris Air Quality Services
1631 E. St Andrew Pl
Santa Ana, CA 92705
Pete San Juan

Lab Job Number: 564759
Location: Chiquita Flare 1 / PROJ-
068908
Date Received: 07/29/26

- This data package contains sample and QC results for eight air samples, requested for the above referenced project on 07/29/26. The samples were received in good condition.
- Analyses were performed at 2532 E Cerritos Ave., Anaheim, CA, 92806.

Volatile Organics in Air by MS (EPA TO-15):

No analytical problems were encountered.

Non-Methane Non-Ethane Organic Compounds (SCAQMD 25.3):

- This data package contains the raw instrument data for the samples and QA/QC as well as the ICAL and MDL/PQL summary. Supporting field documentation (if supplied by the client) follows the COC and receipt documentation. Samples were analyzed by SCAQMD method 25.3 and 10.1 modified (% and ppm level fixed gases).
- No analytical problems were encountered.



Air Media Chain of Custody

Select Testing Laboratory

Client: ONTERRIS AIR QUALITY SVCS.
Address: 1631 E. ST. ANTHONY PL.
City/State/ZIP: SANTA ANA CA 92705
Phone/Email: PS@juvco.onterris.com
Collected By: _____

Project Manager:

Project Name/Number:

Site Address:

Invoice Info/PO#/Quote#:

LAB-COR-GF001-00

Page 1 of 1

P. S. JUVEN

PAOS-068908

CHAVITA FLAME 1

564759

Analysis Requested

Barometric Pressure (in Hg) _____
Ambient Air Temp (°F) _____

Sample Identification	Matrix	Sample Type	Media Type	Media ID	Flow Controller ID	Sample Start/Stop Date	Sample Start/Stop Time	Initial/Final Pressure (in Hg)	Initial/Final Canister Temp (°F)	Final Volume (m ³ , mL, L)	Analysis Requested
1 FLAME EXH 1	(S)	(C)	(C)	180213	15A	7/29/26	1032	30	10	10	SCAND 25.3
2 FLAME EXH 2	(S)	(C)	(C)	180214	15B	7/29/26	1032	30	10	10	SCAND 25.3
3 FLAME EXH 3	(S)	(C)	(C)	180215	15C	7/29/26	1032	30	10	10	SCAND 25.3
4 FLAME EXH 4	(S)	(C)	(C)	180216	15D	7/29/26	1032	30	10	10	SCAND 25.3
5 FLAME EXH 5	(S)	(C)	(C)	180217	15E	7/29/26	1032	30	10	10	SCAND 25.3
6 FLAME EXH 6	(S)	(C)	(C)	180218	15F	7/29/26	1032	30	10	10	SCAND 25.3
7 FLAME EXH 7	(S)	(C)	(C)	180219	15G	7/29/26	1032	30	10	10	SCAND 25.3
8 FLAME EXH 8	(S)	(C)	(C)	180220	15H	7/29/26	1032	30	10	10	SCAND 25.3
9 FLAME EXH 9	(S)	(C)	(C)	180221	15I	7/29/26	1032	30	10	10	SCAND 25.3
10 FLAME EXH 10	(S)	(C)	(C)	180222	15J	7/29/26	1032	30	10	10	SCAND 25.3

Relinquished By: Case Juvco Date: 7/29/26 Time: 11:47
Received By: [Signature] Date: 7/29/26 Time: 11:47

All TATs Subject to Approval by Onterris Laboratories, LLC

Comments

INCLUDE 1,3 DICHLOROBENZENE WITH QUTE 150.1

Workorder #



Login 564759

Matrix: A=Ambient|H=Headspace|I=Indoor|LV=Landfill/Vent Gas|PM=Particulate Matter|S=Source|V=Vapor/Soil Vapor|W=Worker exposure|X=Other
Sample Type: B=Blank|C=Composite|Co=Co-located|D=Duplicate|G=Grab|S=Spike|X=Other
Media Type: B=Bag|Bd=Badge|C=Canister|F=Filter|L=Liquid|P=PUF|S=Sampling bomb|T=Tube|TD=Thermal Desorption|X=Other

Unless otherwise agreed in writing, these services are provided pursuant to the terms and conditions as set forth at onterris.com/te this order is expressly limited to these terms and conditions



SAMPLE RECEIPT CHECKLIST

Section 1: General Info			
Date Received: <u>7/29/26</u> Job#: <u>564759</u> Client: <u>Onterris Air Quality Services</u>			
Section 2: Shipping / Custody			
Are custody seals present? ☐ Yes ☒ No			
Custody seals intact on arrival? ☒ N/A ☐ Yes ☐ No ☐ On cooler / box ☐ On samples			
☐ Courier ☒ Walk-In ☐ Field Sampling ☐ Shipping Info: _____			
Section 3a: Condition / Packaging			
☐ Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)			
Date Opened <u>7/29/26</u> By (initials) <u>JXR</u> Type of ice used: ☐ Wet ☐ Blue/Gel ☒ None			
☐ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)			
☐ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)			
If no cooler: Observed/Corrected Temp (°C): _____ / _____ Thermometer/IR Gun ID: <u>IR20</u> CF: <u>-0.1</u>			
Cooler Temp (obs/corr) (°C) #1: <u>3.5</u> / <u>3.4</u> #2: _____ / _____ #3: _____ / _____ #4: _____ / _____ #5: _____ / _____ #6: _____ / _____			
Section 3b: Microbiology Samples			
☒ No microbiology samples submitted (skip 3b)			
☐ Within temp range 0.0 - 10.0°C or received on ice directly from field.			
☐ Adequate headspace for microbiology analysis.			
Section 3c: Air Samples			
☐ No air samples submitted (skip 3c)			
☐ 1.4L Canisters ☒ 6L Canisters ☐ Tedlar Bags ☐ MCE Cassettes ☐ Sorbent Tubes ☒ Other <u>Impinger vials</u>			
Tedlar Bags received protected from light (ASTM D5504 Sulfur only)? ☐ N/A ☐ Yes ☐ No			
Section 4: Containers / Labels / Samples			
	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	✓		
2) Is the sampler's name present on the CoC?		✓	
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	✓		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)			✓
5) Were all of, and only, the correct samples received?	✓		
6) Are sample labels present, legible, and in agreement with the CoC?	✓		
7) Does the container count match the CoC?	✓		
8) Was sufficient sample volume / mass received for the analyses requested?	✓		
9) Were samples received in proper containers for the analyses requested?	✓		
10) Were samples received with > 1/2 holding time remaining?	✓		
11) Are samples properly preserved as indicated by CoC / labels?	✓		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			✓
13) Are VOA vials free from headspace/bubbles > 6mm?			✓
Section 5: Explanations / Comments			
(If no comments are made, then no discrepancies noted.)			
4,6*: No times on tags			
☐ No additional discrepancies			
Form Completed By (print): <u>ABD</u> (sign): <u>ABD</u>			
Date Labeled: <u>7/29/26</u> By (print): <u>RXC</u> (sign): <u>ABD for RXC</u>			

Analysis Results for 564759

Pete San Juan
Onterris Air Quality Services
1631 E. St Andrew Pl
Santa Ana, CA 92705

Lab Job #: 564759
Location: Chiquita Flare 1 / PROJ-068908
Date Received: 07/29/26

Sample ID: FLARE 1 EXH (C80213)

Lab ID: 564759-001

Collected: 07/28/26 11:32

Matrix: Air

564759-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SCAQMD 25.3									
Methane	<1.8		ppmC	1.8	1.8	411871	08/04/26	08/04/26	MPD
Carbon Monoxide	1.8		ppmC	1.8	1.8	411871	08/04/26	08/04/26	MPD
Ethene/Ethane	<1.8		ppmC	1.8	1.8	411871	08/04/26	08/04/26	MPD
Carbon Dioxide	8.1		%v/v	0.0002	1.8	411871	08/04/26	08/04/26	MPD
Oxygen	12.8		%v/v	0.2	1.8	411871	08/04/26	08/04/26	MPD
TNMNEOC	14.6		ppmC	0.6	1.8	411871	08/04/26	08/04/26	MPD

Sample ID: FLARE 1 EXH (C80228)

Lab ID: 564759-002

Collected: 07/28/26 11:32

Matrix: Air

564759-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: SCAQMD 25.3									
Methane	<1.9		ppmC	1.9	1.9	411871	08/04/26	08/04/26	MPD
Carbon Monoxide	ND		ppmC	1.9	1.9	411871	08/04/26	08/04/26	MPD
Ethene/Ethane	<1.9		ppmC	1.9	1.9	411871	08/04/26	08/04/26	MPD
Carbon Dioxide	8.2		%v/v	0.0002	1.9	411871	08/04/26	08/04/26	MPD
Oxygen	12.3		%v/v	0.2	1.9	411871	08/04/26	08/04/26	MPD
TNMNEOC	14.2		ppmC	0.6	1.9	411871	08/04/26	08/04/26	MPD

Analysis Results for 564759

Sample ID: FLARE 1 INLET 1	Lab ID: 564759-003	Collected: 07/28/26 11:02
	Matrix: Air	

564759-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15									
Prep Method: METHOD									
Benzene	100,000		ppbv	580	2900	412433	08/11/26 01:39	08/11/26 01:39	ZNZ
Benzene	330,000		ug/m3	1,900	2900	412433	08/11/26 01:39	08/11/26 01:39	ZNZ
Benzyl chloride	ND		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Benzyl chloride	ND		ug/m3	930	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Chlorobenzene	300		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Chlorobenzene	1,400		ug/m3	830	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,2-Dichlorobenzene	ND		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,2-Dichlorobenzene	ND		ug/m3	1,100	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,4-Dichlorobenzene	820		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,4-Dichlorobenzene	4,900		ug/m3	1,100	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,1-Dichloroethane	ND		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,1-Dichloroethane	ND		ug/m3	730	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,2-Dichloroethane	290		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,2-Dichloroethane	1,200		ug/m3	730	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,1-Dichloroethene	ND		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,1-Dichloroethene	ND		ug/m3	710	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Methylene Chloride	ND		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Methylene Chloride	ND		ug/m3	620	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,2-Dibromoethane	ND		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,2-Dibromoethane	ND		ug/m3	1,400	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Tetrachloroethene	ND		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Tetrachloroethene	ND		ug/m3	1,200	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Carbon Tetrachloride	ND		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Carbon Tetrachloride	ND		ug/m3	1,100	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Toluene	22,000		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Toluene	81,000		ug/m3	680	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,1,1-Trichloroethane	ND		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,1,1-Trichloroethane	ND		ug/m3	980	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Trichloroethene	ND		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Trichloroethene	ND		ug/m3	960	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Chloroform	ND		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Chloroform	ND		ug/m3	880	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Vinyl Chloride	ND		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Vinyl Chloride	ND		ug/m3	460	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
m,p-Xylenes	12,000		ppbv	360	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
m,p-Xylenes	53,000		ug/m3	1,600	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
o-Xylene	4,300		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
o-Xylene	19,000		ug/m3	780	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,3-Dichlorobenzene	ND		ppbv	180	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
1,3-Dichlorobenzene	ND		ug/m3	1,100	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ
Surrogates				Limits					
Bromofluorobenzene	100%		%REC	60-140	900	412250	08/07/26 20:17	08/07/26 20:17	ZNZ

Analysis Results for 564759

Sample ID: FLARE 1 INLET 2
Lab ID: 564759-004
Collected: 07/28/26 11:37
Matrix: Air

564759-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15									
Prep Method: METHOD									
Benzene	110,000		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Benzene	350,000		ug/m3	1,400	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Benzyl chloride	ND		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Benzyl chloride	ND		ug/m3	2,300	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Chlorobenzene	ND		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Chlorobenzene	ND		ug/m3	2,000	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,2-Dichlorobenzene	ND		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,2-Dichlorobenzene	ND		ug/m3	2,700	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,4-Dichlorobenzene	830		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,4-Dichlorobenzene	5,000		ug/m3	2,700	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,1-Dichloroethane	ND		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,1-Dichloroethane	ND		ug/m3	1,800	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,2-Dichloroethane	ND		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,2-Dichloroethane	ND		ug/m3	1,800	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,1-Dichloroethene	ND		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,1-Dichloroethene	ND		ug/m3	1,800	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Methylene Chloride	ND		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Methylene Chloride	ND		ug/m3	1,500	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,2-Dibromoethane	ND		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,2-Dibromoethane	ND		ug/m3	3,400	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Tetrachloroethene	ND		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Tetrachloroethene	ND		ug/m3	3,000	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Carbon Tetrachloride	ND		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Carbon Tetrachloride	ND		ug/m3	2,800	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Toluene	21,000		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Toluene	81,000		ug/m3	1,700	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,1,1-Trichloroethane	ND		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,1,1-Trichloroethane	ND		ug/m3	2,400	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Trichloroethene	ND		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Trichloroethene	ND		ug/m3	2,400	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Chloroform	ND		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Chloroform	ND		ug/m3	2,200	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Vinyl Chloride	ND		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Vinyl Chloride	ND		ug/m3	1,100	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
m,p-Xylenes	12,000		ppbv	890	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
m,p-Xylenes	51,000		ug/m3	3,900	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
o-Xylene	4,100		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
o-Xylene	18,000		ug/m3	1,900	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,3-Dichlorobenzene	ND		ppbv	440	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
1,3-Dichlorobenzene	ND		ug/m3	2,700	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ
Surrogates				Limits					
Bromofluorobenzene	99%		%REC	60-140	2200	412250	08/07/26 21:15	08/07/26 21:15	ZNZ

Analysis Results for 564759

Sample ID: FLARE 1 INLET 3	Lab ID: 564759-005	Collected: 07/28/26 12:07
	Matrix: Air	

564759-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15									
Prep Method: METHOD									
Benzene	120,000		ppbv	540	2700	412439	08/10/26 15:58	08/10/26 15:58	ZNZ
Benzene	380,000		ug/m3	1,700	2700	412439	08/10/26 15:58	08/10/26 15:58	ZNZ
Benzyl chloride	ND		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Benzyl chloride	ND		ug/m3	2,100	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Chlorobenzene	ND		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Chlorobenzene	ND		ug/m3	1,900	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,2-Dichlorobenzene	ND		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,2-Dichlorobenzene	ND		ug/m3	2,500	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,4-Dichlorobenzene	840		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,4-Dichlorobenzene	5,100		ug/m3	2,500	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,1-Dichloroethane	ND		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,1-Dichloroethane	ND		ug/m3	1,700	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,2-Dichloroethane	ND		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,2-Dichloroethane	ND		ug/m3	1,700	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,1-Dichloroethene	ND		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,1-Dichloroethene	ND		ug/m3	1,600	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Methylene Chloride	ND		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Methylene Chloride	ND		ug/m3	1,400	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,2-Dibromoethane	ND		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,2-Dibromoethane	ND		ug/m3	3,200	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Tetrachloroethene	ND		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Tetrachloroethene	ND		ug/m3	2,800	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Carbon Tetrachloride	ND		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Carbon Tetrachloride	ND		ug/m3	2,600	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Toluene	21,000		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Toluene	80,000		ug/m3	1,600	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,1,1-Trichloroethane	ND		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,1,1-Trichloroethane	ND		ug/m3	2,300	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Trichloroethene	ND		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Trichloroethene	ND		ug/m3	2,200	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Chloroform	ND		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Chloroform	ND		ug/m3	2,000	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Vinyl Chloride	ND		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Vinyl Chloride	ND		ug/m3	1,100	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
m,p-Xylenes	12,000		ppbv	830	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
m,p-Xylenes	53,000		ug/m3	3,600	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
o-Xylene	4,300		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
o-Xylene	19,000		ug/m3	1,800	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,3-Dichlorobenzene	ND		ppbv	410	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
1,3-Dichlorobenzene	ND		ug/m3	2,500	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ
Surrogates				Limits					
Bromofluorobenzene	104%		%REC	60-140	2100	412250	08/07/26 21:55	08/07/26 21:55	ZNZ

Analysis Results for 564759

Sample ID: FLARE EXH 1
Lab ID: 564759-006
Collected: 07/28/26 11:02
Matrix: Air

564759-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15									
Prep Method: METHOD									
Benzene	25		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Benzene	81		ug/m3	1.2	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Benzyl chloride	ND		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Benzyl chloride	ND		ug/m3	1.9	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Chlorobenzene	ND		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Chlorobenzene	ND		ug/m3	1.7	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,2-Dichlorobenzene	ND		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,2-Dichlorobenzene	ND		ug/m3	2.2	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,4-Dichlorobenzene	ND		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,4-Dichlorobenzene	ND		ug/m3	2.2	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,1-Dichloroethane	ND		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,1-Dichloroethane	ND		ug/m3	1.5	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,2-Dichloroethane	ND		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,2-Dichloroethane	ND		ug/m3	1.5	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,1-Dichloroethene	ND		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,1-Dichloroethene	ND		ug/m3	1.4	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Methylene Chloride	ND		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Methylene Chloride	ND		ug/m3	1.3	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,2-Dibromoethane	ND		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,2-Dibromoethane	ND		ug/m3	2.8	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Tetrachloroethene	ND		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Tetrachloroethene	ND		ug/m3	2.4	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Carbon Tetrachloride	ND		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Carbon Tetrachloride	ND		ug/m3	2.3	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Toluene	5.2		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Toluene	20		ug/m3	1.4	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,1,1-Trichloroethane	ND		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,1,1-Trichloroethane	ND		ug/m3	2.0	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Trichloroethene	ND		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Trichloroethene	ND		ug/m3	1.9	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Chloroform	ND		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Chloroform	ND		ug/m3	1.8	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Vinyl Chloride	0.82		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Vinyl Chloride	2.1		ug/m3	0.92	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
m,p-Xylenes	1.0		ppbv	0.72	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
m,p-Xylenes	4.5		ug/m3	3.1	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
o-Xylene	0.38		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
o-Xylene	1.6		ug/m3	1.6	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,3-Dichlorobenzene	ND		ppbv	0.36	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
1,3-Dichlorobenzene	ND		ug/m3	2.2	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ
Surrogates				Limits					
Bromofluorobenzene	104%		%REC	60-140	1.8	412250	08/07/26 17:08	08/07/26 17:08	ZNZ

Analysis Results for 564759

Sample ID: FLARE EXH 2
Lab ID: 564759-007
Collected: 07/28/26 11:37
Matrix: Air

564759-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15									
Prep Method: METHOD									
Benzene	1.1		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Benzene	3.5		ug/m3	1.2	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Benzyl chloride	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Benzyl chloride	ND		ug/m3	2.0	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Chlorobenzene	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Chlorobenzene	ND		ug/m3	1.7	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,2-Dichlorobenzene	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,2-Dichlorobenzene	ND		ug/m3	2.3	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,4-Dichlorobenzene	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,4-Dichlorobenzene	ND		ug/m3	2.3	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,1-Dichloroethane	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,1-Dichloroethane	ND		ug/m3	1.5	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,2-Dichloroethane	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,2-Dichloroethane	ND		ug/m3	1.5	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,1-Dichloroethene	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,1-Dichloroethene	ND		ug/m3	1.5	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Methylene Chloride	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Methylene Chloride	ND		ug/m3	1.3	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,2-Dibromoethane	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,2-Dibromoethane	ND		ug/m3	2.9	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Tetrachloroethene	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Tetrachloroethene	ND		ug/m3	2.6	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Carbon Tetrachloride	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Carbon Tetrachloride	ND		ug/m3	2.4	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Toluene	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Toluene	ND		ug/m3	1.4	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,1,1-Trichloroethane	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,1,1-Trichloroethane	ND		ug/m3	2.1	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Trichloroethene	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Trichloroethene	ND		ug/m3	2.0	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Chloroform	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Chloroform	ND		ug/m3	1.8	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Vinyl Chloride	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Vinyl Chloride	ND		ug/m3	0.96	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
m,p-Xylenes	ND		ppbv	0.75	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
m,p-Xylenes	ND		ug/m3	3.3	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
o-Xylene	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
o-Xylene	ND		ug/m3	1.6	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,3-Dichlorobenzene	ND		ppbv	0.38	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
1,3-Dichlorobenzene	ND		ug/m3	2.3	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ
Surrogates				Limits					
Bromofluorobenzene	96%		%REC	60-140	1.9	412250	08/07/26 18:47	08/07/26 18:47	ZNZ

Analysis Results for 564759

Sample ID: FLARE EXH 3
Lab ID: 564759-008
Collected: 07/28/26 12:07
Matrix: Air

564759-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15									
Prep Method: METHOD									
Benzene	0.67		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Benzene	2.1		ug/m3	1.2	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Benzyl chloride	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Benzyl chloride	ND		ug/m3	2.0	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Chlorobenzene	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Chlorobenzene	ND		ug/m3	1.8	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,2-Dichlorobenzene	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,2-Dichlorobenzene	ND		ug/m3	2.3	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,4-Dichlorobenzene	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,4-Dichlorobenzene	ND		ug/m3	2.3	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,1-Dichloroethane	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,1-Dichloroethane	ND		ug/m3	1.6	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,2-Dichloroethane	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,2-Dichloroethane	ND		ug/m3	1.6	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,1-Dichloroethene	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,1-Dichloroethene	ND		ug/m3	1.5	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Methylene Chloride	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Methylene Chloride	ND		ug/m3	1.4	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,2-Dibromoethane	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,2-Dibromoethane	ND		ug/m3	3.0	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Tetrachloroethene	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Tetrachloroethene	ND		ug/m3	2.6	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Carbon Tetrachloride	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Carbon Tetrachloride	ND		ug/m3	2.5	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Toluene	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Toluene	ND		ug/m3	1.5	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,1,1-Trichloroethane	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,1,1-Trichloroethane	ND		ug/m3	2.1	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Trichloroethene	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Trichloroethene	ND		ug/m3	2.1	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Chloroform	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Chloroform	ND		ug/m3	1.9	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Vinyl Chloride	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Vinyl Chloride	ND		ug/m3	1.0	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
m,p-Xylenes	ND		ppbv	0.78	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
m,p-Xylenes	ND		ug/m3	3.4	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
o-Xylene	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
o-Xylene	ND		ug/m3	1.7	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,3-Dichlorobenzene	ND		ppbv	0.39	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
1,3-Dichlorobenzene	ND		ug/m3	2.3	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ
Surrogates				Limits					
Bromofluorobenzene	95%		%REC	60-140	2	412250	08/07/26 19:36	08/07/26 19:36	ZNZ

< Value is less than indicated concentration

ND Not Detected

Analysis Results for 564759

Batch QC

Type: Lab Control Sample	Lab ID: QC1402169	Batch: 412250
Matrix: Air	Method: EPA TO-15	Prep Method: METHOD

QC1402169 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Benzene	10.79	10.00	ppbv	108%		70-130
Benzyl chloride	9.246	10.00	ppbv	92%		70-130
Chlorobenzene	9.298	10.00	ppbv	93%		70-130
1,2-Dichlorobenzene	9.621	10.00	ppbv	96%		70-130
1,4-Dichlorobenzene	9.036	10.00	ppbv	90%		70-130
1,1-Dichloroethane	10.69	10.00	ppbv	107%		70-130
1,2-Dichloroethane	10.28	10.00	ppbv	103%		70-130
1,1-Dichloroethene	10.42	10.00	ppbv	104%		70-130
Methylene Chloride	10.01	10.00	ppbv	100%		70-130
1,2-Dibromoethane	10.20	10.00	ppbv	102%		70-130
Tetrachloroethene	11.13	10.00	ppbv	111%		70-130
Carbon Tetrachloride	10.51	10.00	ppbv	105%		70-130
Toluene	10.34	10.00	ppbv	103%		70-130
1,1,1-Trichloroethane	10.94	10.00	ppbv	109%		70-130
Trichloroethene	9.965	10.00	ppbv	100%		70-130
Chloroform	10.59	10.00	ppbv	106%		70-130
Vinyl Chloride	10.69	10.00	ppbv	107%		70-130
m,p-Xylenes	20.09	20.00	ppbv	100%		70-130
o-Xylene	9.976	10.00	ppbv	100%		70-130
1,3-Dichlorobenzene	9.403	10.00	ppbv	94%		70-130
Surrogates						
Bromofluorobenzene	10.15	10.00	ppbv	102%		60-140

Batch QC

Type: Lab Control Sample Duplicate	Lab ID: QC1402170	Batch: 412250
Matrix: Air	Method: EPA TO-15	Prep Method: METHOD

QC1402170 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Benzene	10.80	10.00	ppbv	108%		70-130	0	25
Benzyl chloride	8.897	10.00	ppbv	89%		70-130	4	25
Chlorobenzene	9.398	10.00	ppbv	94%		70-130	1	25
1,2-Dichlorobenzene	9.407	10.00	ppbv	94%		70-130	2	25
1,4-Dichlorobenzene	8.706	10.00	ppbv	87%		70-130	4	25
1,1-Dichloroethane	10.79	10.00	ppbv	108%		70-130	1	25
1,2-Dichloroethane	10.29	10.00	ppbv	103%		70-130	0	25
1,1-Dichloroethene	10.39	10.00	ppbv	104%		70-130	0	25
Methylene Chloride	10.03	10.00	ppbv	100%		70-130	0	25
1,2-Dibromoethane	10.48	10.00	ppbv	105%		70-130	3	25
Tetrachloroethene	11.15	10.00	ppbv	111%		70-130	0	25
Carbon Tetrachloride	10.52	10.00	ppbv	105%		70-130	0	25
Toluene	10.53	10.00	ppbv	105%		70-130	2	25
1,1,1-Trichloroethane	10.98	10.00	ppbv	110%		70-130	0	25
Trichloroethene	10.00	10.00	ppbv	100%		70-130	0	25
Chloroform	10.67	10.00	ppbv	107%		70-130	1	25
Vinyl Chloride	10.64	10.00	ppbv	106%		70-130	0	25
m,p-Xylenes	20.14	20.00	ppbv	101%		70-130	0	25
o-Xylene	10.02	10.00	ppbv	100%		70-130	0	25
1,3-Dichlorobenzene	9.220	10.00	ppbv	92%		70-130	2	25
Surrogates								
Bromofluorobenzene	9.818	10.00	ppbv	98%		60-140		

Batch QC

Type: Blank	Lab ID: QC1402171	Batch: 412250
Matrix: Air	Method: EPA TO-15	Prep Method: METHOD

QC1402171 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Benzene	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
Benzyl chloride	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
Chlorobenzene	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
1,2-Dichlorobenzene	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
1,4-Dichlorobenzene	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
1,1-Dichloroethane	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
1,2-Dichloroethane	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
1,1-Dichloroethene	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
Methylene Chloride	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
1,2-Dibromoethane	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
Tetrachloroethene	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
Carbon Tetrachloride	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
Toluene	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
1,1,1-Trichloroethane	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
Trichloroethene	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
Chloroform	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
Vinyl Chloride	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
m,p-Xylenes	ND		ppbv	0.40	08/07/26 12:48	08/07/26 12:48
o-Xylene	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
1,3-Dichlorobenzene	ND		ppbv	0.20	08/07/26 12:48	08/07/26 12:48
Surrogates				Limits		
Bromofluorobenzene	92%		%REC	60-140	08/07/26 12:48	08/07/26 12:48

Type: Lab Control Sample	Lab ID: QC1402809	Batch: 412433
Matrix: Air	Method: EPA TO-15	Prep Method: METHOD

QC1402809 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Benzene	10.24	10.00	ppbv	102%		70-130
Surrogates						
Bromofluorobenzene	10.03	10.00	ppbv	100%		60-140

Type: Lab Control Sample Duplicate	Lab ID: QC1402810	Batch: 412433
Matrix: Air	Method: EPA TO-15	Prep Method: METHOD

QC1402810 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Benzene	10.17	10.00	ppbv	102%		70-130	1	25
Surrogates								
Bromofluorobenzene	10.06	10.00	ppbv	101%		60-140		

Batch QC

Type: Blank	Lab ID: QC1402811	Batch: 412433
Matrix: Air	Method: EPA TO-15	Prep Method: METHOD

QC1402811 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Benzene	ND		ppbv	0.20	08/10/26 11:37	08/10/26 11:37
Surrogates			Limits			
Bromofluorobenzene	98%		%REC	60-140	08/10/26 11:37	08/10/26 11:37

Type: Lab Control Sample	Lab ID: QC1402828	Batch: 412439
Matrix: Air	Method: EPA TO-15	Prep Method: METHOD

QC1402828 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Benzene	10.89	10.00	ppbv	109%		70-130
Surrogates						
Bromofluorobenzene	9.828	10.00	ppbv	98%		60-140

Type: Lab Control Sample Duplicate	Lab ID: QC1402829	Batch: 412439
Matrix: Air	Method: EPA TO-15	Prep Method: METHOD

QC1402829 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Benzene	10.82	10.00	ppbv	108%		70-130	1	25
Surrogates								
Bromofluorobenzene	9.753	10.00	ppbv	98%		60-140		

Type: Blank	Lab ID: QC1402830	Batch: 412439
Matrix: Air	Method: EPA TO-15	Prep Method: METHOD

QC1402830 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Benzene	ND		ppbv	0.20	08/10/26 13:44	08/10/26 13:44
Surrogates			Limits			
Bromofluorobenzene	91%		%REC	60-140	08/10/26 13:44	08/10/26 13:44

ND Not Detected



Results

SCAQMD 25.3/10.1 Results Summary

Parameter	Units	Nomenclature	Sample 1	Sample 2
Enthalpy LR/Sample ID #	none	Eid	564759-001	564759-002
Client Sample ID#	none	Cid	Flare 1 EXH (C80213, 15A)	Flare 1 EXH (C80228, 15B)
Sample Data				
Canister ID #	none	Tid	C80213	C80228
Canister Volume	Liters (L)	Vc	6.0	6.0
Initial Canister Pressure	mmHg (A)	Pi	0.0	0.0
Initial Canister Pressure Check Date	mm/dd/yy	none	7/27/2026	7/27/2026
Post Sampling Canister Pressure	mmHg (A)	Pr	492.2	467.1
Post Purge Final Canister Pressure	mmHg (A)	Pf	901.80	900.80
Canister Receipt Date	mm/dd/yy	none	7/29/2026	7/29/2026
Atmospheric Pressure	mmHg (A)	Pa	760.0	760.0
Canister Dilution Factor	none	Dftank	1.83	1.93
Sample Volume	Liters (L)	Vsample	3.89	3.69
Aqueous Impinger Volume	Milliliters (ml)	Vi	3.380	3.064
TOC Analysis Dilution Factor	none	Dftoc	4.0	4.0
Ideal Gas Volume	Liters/mole	Vid	24.47	24.47
Atomic Weight of Carbon	grams/mole	Ac	12.01	12.01
Bias Correction Factor	none	CFb	1.086	1.086
Results and Calculations				
Avg Raw TOC Result	ppmC	Ci	1.57	1.53
TOC Trip Blank Result	ppmC	Cb	0.03	0.03
Final Gaseous TOC Result = (((Ci - Cb) x TOCdf) x Vi xPa xVid)/(Vc x Pr xAc)	ppmC	Cw	10.90	10.15
Avg Raw NMNEOC Result	ppmC	Cm	1.40	1.50
Final NMNEOC Result = Cm x (Pf/Pr-Pi)	ppmC	Cc	2.57	2.89
Final Methane Result = Avg Conc x (Pf/Pr-Pi)	ppmC	Cmt	< 1.8	< 1.9
Final Carbon Monoxide Result = Avg Conc x (Pf/Pr-Pi)	ppmC	Cco	1.8	1.9
Final Ethene/Ethane Result = Avg Conc x (Pf/Pr-Pi)	ppmC	Cet	< 1.8	< 1.9
Final Carbon Dioxide Result = Avg Conc x (Pf/Pr-Pi)	%v/v	Cco2	8.1	8.2
Final Oxygen Result = Avg Conc x (Pf/Pr-Pi)	%v/v	Co2	12.8	12.3
Final TNMNEOC Result = (Cc +Cw) x CFb	ppmC	Cvoc	14.6	14.2



Sample Data

	Sample 1	Sample 2
Enthalpy ID	564759-001	564759-002
Client ID	Flare 1 EXH (C80213, 15A)	Flare 1 EXH (C80228, 15B)
LIMS Batch ID:	411871	411871
Canister ID #	C80213	C80228
Canister Cleaning Date	5/14/2026	5/22/2026
Canister Volume	6.0	6.0
Initial Canister Pressure	0	0
Canister Pressure Check Date	7/27/2026	7/27/2026
Post Sampling Canister Pressure	-267.8	-292.9
Post Purge Final Canister Pressure	141.8	140.8
Canister Receipt and Purge Date	7/29/2026	7/29/2026
Analysis Date/Time	8/4/2026	8/4/2026
Reagent Water ID	072726A	072726A
Vial ID#	15A	15B
TOC final return Volume	3.3798	3.0638
TOC Analytical Dilution Factor	4.00	4.00
Result 1	0.00	0.00
Result 2	0.00	0.00
RPD %	#DIV/0!	#DIV/0!
Avg Methane Result	0.00	0.00
Result 1	1.00	1.00
Result 2	1.00	1.00
RPD %	0.00	0.00
Avg Carbon Monoxide Result	1.00	1.00
Result 1	1.40	1.50
Result 2	1.40	1.50
RPD %	0.00	0.00
Avg TNMNEOC Result	1.40	1.50
Result 1	44361.00	42658.80
Result 2	44210.80	42649.50
RPD %	0.34	0.02
Avg Carbon Dioxide Result	44285.90	42654.15
Result 1	0.00	0.00
Result 2	0.00	0.00
RPD %	#DIV/0!	#DIV/0!
Avg Ethene/Ethane Result	0.0	0.0
Result 1	7.10	6.50
Result 2	6.90	6.30
RPD %	2.86	3.13
Avg Oxygen Result	7.00	6.40
Result 1	42.10	38.90
Result 2	41.10	38.70
RPD %	2.40	0.52
Avg Nitrogen Result	41.60	38.80
Avg raw TOC	1.5689	1.5303
TOC Blank	0.0311	0.0311
Fixed Gases Total %	97.2	95.4

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 12-59-41 564759-001 inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : 564759-001
Sample ID : 564759-001

Injection Date: 2026-08-04 12:59 Calculation Date: 2026-08-06 14:52

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TC#1 Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Methane		5.511					
2	Carbon Monox	1.0	7.538	-0.520	6375	BB	26.9	M
3	NMNEOC	1.4	14.875	0.735	32143	BB	79.1	
Totals:		2.4		0.215	38518			

Status Codes:
M - Missing peak

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 2 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 39 microVolts - monitored before this run

Manual injection

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Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 12-59-41 564759-001 inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : 564759-001

Injection Date: 2026-08-04 12:59 Calculation Date: 2026-08-10 12:09

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : FID Run Time : 23.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Carbon Dioxi	44361.0	4.768	-0.497	480153216	BB	16.0	M
2	Ethane	10.029	10.029					
Totals:		44361.0		-0.497	480153216			

Status Codes:
M - Missing peak

Total Unidentified Counts : 20104 counts

Detected Peaks: 2 Rejected Peaks: 0 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 47 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 12-59-41 564759-001 inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods\2025\scaqmd 253 quant 090425 reg.mth
Method File : c:\brukerws\methods\active gc methods\2025\scaqmd 253 quant 090425 reg.mth
Sample ID : 564759-001

Injection Date: 2026-08-04 12:59 Calculation Date: 2026-08-10 12:33

Operator : MPD/DJL Detector Type: 4XX-GC (10 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Rear = TCD Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (% V/V)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Hydrogen		2.623					
2	Oxygen	7.1	3.213	0.082	2200917	BP	3.6	M
3	Nitrogen	42.1	3.751	-0.141	10308424	PB	9.0	
4	Methane		5.229					M
5	Carbon Monox		7.446					M
Totals:		49.2		-0.059	12509341			

Status Codes:
M - Missing peak

Total Unidentified Counts : 0 counts

Detected Peaks: 2 Rejected Peaks: 0 Identified Peaks: 5

Multipplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 53390 microVolts LSB: 1 microVolts

Noise (used): 200 microVolts - fixed value
Noise (monitored before this run): 520 microVolts

Manual injection

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Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 13-26-04 564759-001 inj 2 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : 564759-001
Sample ID : 564759-001

Injection Date: 2026-08-04 13:26 Calculation Date: 2026-08-06 14:52

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TQA#1 Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Methane		5.511					
2	Carbon Monox	1.0	7.572	-0.486	6355	BB	27.4	M
3	NMNEOC	1.4	14.875	0.735	31213	BB	63.9	
Totals:		2.4		0.249	37568			

Status Codes:
M - Missing peak

Total Unidentified Counts : 0 counts

Detected Peaks: 5 Rejected Peaks: 3 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 27 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 13-26-04 564759-001 inj 2 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : 564759-001

Injection Date: 2026-08-04 13:26 Calculation Date: 2026-08-10 12:09

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Carbon Dioxi	44210.8	4.767	-0.498	478748512	BB	15.9	M
2	Ethane	10.029	10.029					
Totals:		44210.8		-0.498	478748512			

Status Codes:
M - Missing peak

Total Unidentified Counts : 23760 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 50 microVolts LSB: 1 microVolts

Noise (used): 20 microVolts - monitored before this run

Manual Injection

Injection Date: 2026-08-04 13:26Calculation Date: 2026-08-10 12:34

Operator : MPD/DJL
Workstation: Windows
Instrument : Bruker GC/TCA#1
Channel : Rear = TCD
Detector Type: 4XX-GC (10 Volts)
Bus Address : 44
Sample Rate : 5.00 Hz
Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (% V/V)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Hydrogen		2.623					
2	Oxygen	6.9	3.213	0.082	2116929	BB	3.6	M
3	Nitrogen	41.1	3.751	-0.141	10061654	BB	9.0	
4	Methane		5.229					M
5	Carbon Monox		7.446					M
Totals:		48.0		-0.059	12178583			

Status Codes:
M - Missing peak

Total Unidentified Counts : 417195 counts

Detected Peaks: 3Rejected Peaks: 0Identified Peaks: 5

Multipplier: 1Divisor: 1Unidentified Peak Factor: 0

Baseline Offset: 53549 microVoltsLSB: 1 microVolts

Noise (used): 200 microVolts - fixed value
Noise (monitored before this run): 86 microVolts

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 13-52-30 564759-002 inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : 564759-002

Injection Date: 2026-08-04 13:52 Calculation Date: 2026-08-06 14:53

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Methane		5.511					
2	Carbon Monox	1.0	7.565	-0.493	6056	BB	27.7	M
3	NMNEOC	1.5	14.888	0.748	33412	BB	70.7	
Totals:		2.5		0.255	39468			

Status Codes:
M - Missing peak

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 2 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 13-52-30 564759-002 inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : 564759-002

Injection Date: 2026-08-04 13:52 Calculation Date: 2026-08-10 12:10

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : FID Run Time : 23.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Carbon Dioxi	42658.8	4.751	-0.514	464144064	BB	15.7	M
2	Ethane	10.029	10.029					
Totals:		42658.8	-0.514		464144064			

Status Codes:
M - Missing peak

Total Unidentified Counts : 41278 counts

Detected Peaks: 16 Rejected Peaks: 9 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 8 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 13-52-30 564759-002 inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\2026\080426 25.3\2026-08-04 13-52-30 564759-002 inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : 564759-002

Injection Date: 2026-08-04 13:52 Calculation Date: 2026-08-11 11:38

Operator : MPD/DJL Detector Type: 4XX-GC (10 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Rear = TCD Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (% V/V)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Hydrogen		2.623					
2	Oxygen	6.5	3.211	0.080	1994034	BP	3.6	M
3	Nitrogen	38.9	3.758	-0.134	9539666	PB	9.0	M
4	Methane		5.229					M
5	Carbon Monox		7.446					M
Totals:		45.4		-0.054	11533700			

Status Codes:
M - Missing peak

Total Unidentified Counts : 426969 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 53286 microVolts LSB: 1 microVolts

Noise (used): 200 microVolts - fixed value
Noise (monitored before this run): 127 microVolts

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 14-18-41 564759-002 inj 2 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : 564759-002

Injection Date: 2026-08-04 14:18 Calculation Date: 2026-08-06 14:55

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Methane		5.511					M
2	Carbon Monox	1.0	7.592	-0.466	6285	BB	30.1	
3	NMNEOC	1.5	14.875	0.735	34192	BB	59.0	
Totals:		2.5		0.269	40477			

Status Codes:
M - Missing Peak

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 2 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 25 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 14-18-41 564759-002 inj 2 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\2026\080426 25.3\2026-08-04 14-18-41 564759-002 inj 2 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : 564759-002

Injection Date: 2026-08-04 14:18 Calculation Date: 2026-08-10 12:09
Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Carbon Dioxi	42649.5	4.768	-0.497	464056064	BB	15.8	M
2	Ethane	10.029	10.029					
Totals:		42649.5	-0.497	-0.497	464056064			

Status Codes:
M - Missing peak

Total Unidentified Counts : 29474 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 15 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 14-18-41 564759-002 inj 2 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : 564759-002
Sample ID : 564759-002

Injection Date: 2026-08-04 14:18 Calculation Date: 2026-08-11 11:38

Operator : MPD/DJL Detector Type: 4XX-GC (10 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Rear = TCD Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis

Peak Measurement: Peak Area

Calculation Type: External Standard

Peak No.	Peak Name	Result (% V/V)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Hydrogen		2.623					
2	Oxygen	6.3	3.210	0.079	1953463	BV	3.6	M
3	Nitrogen	38.7	3.755	-0.137	9486488	VB	9.0	
4	Methane		5.229					M
5	Carbon Monox		7.446					M
Totals:		45.0		-0.058	11439951			

Status Codes:

M - Missing peak

Total Unidentified Counts : 443805 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 5

Multipplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 52981 microVolts LSB: 1 microVolts

Noise (used): 200 microVolts - fixed value

Noise (monitored before this run): 331 microVolts

Manual injection

General Info
 Analysis Name 20260804A.adb
 Template Name 080426.tdb
 Operator Administrator
 Date 8/4/2026
 Time 8:52:43 AM

Template Settings						
Element	Integration Time	Samples	Extra Samples	Max. CV	Volume	Max Conc.
Carbon	75	3	2	5	200	20
Nitrogen	100	2	2	2	200	20
Sample Time	300					

Calibration Info								
CurveNo	Type	FileName:	Volume	Correlation	R-squared	A0:	A1:	A2:
1	TC	20250625A.adb	200	0.999936703	0.99987	0	657,446	0
2	IC	20250626A.adb	200	0.998022735	0.99605	0	674,782	0

Identification		Inj. Type	Sample Info		CV	Inj. Volume
			Conc.	Area		
System Rinse	TOC		0.1474	-	-	
	TC		0.2383	156674	3.87	200
	IC		0.0909	61335	2.49	200
MB 080426	TOC		0.0738	-	-	
	TC		0.1818	119511	3.34	200
	IC		0.1080	72884	19.78	200
RL check 1.0 ug/ml S30737	TOC		0.8318	-	-	
	TC		1.1212	737127	2.50	200
	IC		0.2894	195293	1.71	200
CCV 10.0 ug/ml S30738	TOC		9.1337	-	-	
	TC		9.4724	6227604	1.10	200
	IC		0.3387	228575	2.85	200
Water Blank	TOC		0.2608	-	-	
	TC		0.3908	256933	2.3	200
	IC		0.1300	87703	3.7	200
564759 Trip Blank	TOC		0.0311	-	-	
	TC		0.2105	138389	6.0	200
	IC		0.1794	121041	0.4	200
564759-001 4x	TOC		1.5689	-	-	
	TC		1.8349	1206328	0.5	200
	IC		0.2660	179478	3.2	200
564759-002 4x	TOC		1.5303	-	-	
	TC		1.8015	1184401	3.3	200
	IC		0.2712	183027	4.9	200
Water Blank	TOC		0.1428	-	-	
	TC		0.3582	235522	6.8	200
	IC		0.2154	145364	4.2	200
RL check 1.0 ug/ml S30737	TOC		0.8896	-	-	
	TC		1.1851	779108	2.5	200
	IC		0.2954	199343	3.5	200
CCV 10.0 ug/ml S30738	TOC		9.4042	-	-	
	TC		9.7116	6384836	1.029	200
	IC		0.3074	207424	2.683	200



QA/QC Data

SCAQMD 25.3/10.1 QAQC Summary

Opening TNMNEOC CV's				
Analyte	Target	Result	% rec	Rec Limit
TNMNEOC Low	1.0	1.0	100.0	90-110
TNMNEOC High	10.0	10.4	104.0	90-110

Opening FG's CV's				
Analyte	Target	Result	% rec	Rec Limit
Oxygen	21.5	20.2	94.0	85-115
Nitrogen	78.1	75.3	96.4	85-115
Carbon Monoxide	5.00	5.0	100.0	85-115
Methane	5.00	5.0	100.0	85-115
Carbon Dioxide	5.00	4.8	95.9	85-115

Opening TOC CV's				
Analyte	Target	Result	% rec	Rec Limit
TOC	10.00	9.1	91.3	90-110

Closing TNMNEOC CV's				
Analyte	Target	Result	% rec	Rec Limit
TNMNEOC Low	1.0	1.0	100.0	90-110
TNMNEOC High	10.0	10.4	104.0	90-110

Closing FG's CV's				
Analyte	Target	Result	% rec	Rec Limit
Oxygen	21.5	20.6	95.8	85-115
Nitrogen	78.1	75.9	97.2	85-115
Carbon Monoxide	5.00	5.0	100.0	85-115
Methane	5.00	5.0	100.0	85-115
Carbon Dioxide	5.00	4.8	96.1	85-115

Closing TOC CV's				
Analyte	Target	Result	% rec	Rec Limit
TOC	10.00	9.4	94.0	90-110

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Title      : c:\brukerws\data\2026\080426 25.3\2026-08-04 08-38-26 argon blank inj 1 - scaqmd 253 analysis 090425.run
Run File   : c:\brukerws\data\2026\080426 25.3\2026-08-04 08-38-26 argon blank inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID  : Argon Blank

Injection Date: 2026-08-04 08:38      Calculation Date: 2026-08-06 14:48

Operator   : MPD/DJL      Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows      Bus Address : 44
Instrument : Bruker GC/TCA#1      Sample Rate : 5.00 Hz
Channel    : Middle = FID      Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode      : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.      Peak Name      Ret. Time      Result      Area      Sep.      Width      Status
-----      -
1 Methane      5.511          (ppmC)          (counts)      Code (sec)      1/2      Codes
2 Carbon Monox 8.058          (min)          (min)          (min)          (min)          (min)          (min)
3 NMNEOC      14.140          (min)          (min)          (min)          (min)          (min)          (min)
-----      -
Totals:      0.0          0.000          0.000          0.000          0.000          0.000          0.000
Status Codes:
M - Missing peak

Total Unidentified Counts : 0 counts
Detected Peaks: 2      Rejected Peaks: 2      Identified Peaks: 3
Multiplier: 1      Divisor: 1      Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts      LSB: 1 microVolts
Noise (used): 23 microVolts - monitored before this run
Manual injection

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Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 08-38-26 argon blank inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method ID : Argon Blank

Injection Date: 2026-08-04 08:38 Calculation Date: 2026-08-10 11:57

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Carbon Dioxi		5.265					M
2	Ethane		10.029					M
Totals:			0.0	0.000	0			

Status Codes:
M - Missing Peak

Total Unidentified Counts : 18136 counts

Detected Peaks: 3 Rejected Peaks: 1 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

150220 Noise (used): 29 microVolts - monitored before this run

Manual injection

Print Date: Mon Aug 10 12:23:11 2026 Page 1 of 1

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 08-38-26 argon blank inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : Argon Blank

Injection Date: 2026-08-04 08:38 Calculation Date: 2026-08-10 12:22

Operator : MPD/DJL Detector Type: 4XX-GC (10 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Rear = TCD Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BBO-455D **

Peak No.	Peak Name	Result (% V/V)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Hydrogen		2.623					M
2	Oxygen		3.131					M
3	Nitrogen		3.883					M
4	Methane		5.192					M
5	Carbon Monox		7.446					M
Totals:			0.0	0.000	0			

Status Codes:
M - Missing peak

Total Unidentified Counts : 409693 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 5

Multipplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 54826 microVolts LSB: 1 microVolts

Noise (used): 200 microVolts - fixed value

Noise (monitored before this run): 346 microVolts

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 09-04-24 argon blank inj 2 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : Argon Blank **DUP**
Sample ID : Argon Blank

Injection Date: 2026-08-04 09:04 Calculation Date: 2026-08-06 14:48

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 Code (sec)	Status Codes
1	Methane		5.511					M
2	Carbon Monox		8.058					M
3	NMNEOC		14.140					M
Totals:			0.0	0.000	0			

Status Codes:
M - Missing peak

Total Unidentified Counts : 0 counts

Detected Peaks: 2 Rejected Peaks: 2 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 12 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 09-04-24 argon blank inj 2 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : Argon Blank *DWP*
Sample ID : Argon Blank

Injection Date: 2026-08-04 09:04 Calculation Date: 2026-08-10 11:57

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Carbon Dioxi		5.265					M
2	Ethane		10.029					M
Totals:		0.0		0.000			0	

Status Codes:
M - Missing peak

Total Unidentified Counts : 20692 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 69 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 09-04-24 argon blank inj 2 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : Argon Blank **DVP**

Injection Date: 2026-08-04 09:04 Calculation Date: 2026-08-10 12:22

Operator : MPD/DJL Detector Type: 4XX-GC (10 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Rear = TCD Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (% V/V)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Hydrogen		2.623					M
2	Oxygen		3.131					M
3	Nitrogen		3.883					M
4	Methane		5.192					M
5	Carbon Monox		7.446					M
Totals:			0.0	0.000	0			

Status Codes:
M - Missing peak

Total Unidentified Counts : 416297 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 5

Multipplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 54100 microVolts LSB: 1 microVolts

Noise (used): 200 microVolts - fixed value
Noise (monitored before this run): 192 microVolts

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 09-30-35 1.0 ppmc s23851 inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\2026\080426 25.3\2026-08-04 09-30-35 1.0 ppmc s23851 inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : 1.0 ppmc S23851

Injection Date: 2026-08-04 09:30 Calculation Date: 2026-08-06 11:05

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TC#1 Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmc)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Methane	0.9	5.303	-0.208	5529	BB	8.3	
2	Carbon Monox	0.8	7.515	-0.543	4803	BB	24.9	
3	NMNEOC	1.0	14.603	0.463	23795	BB	19.3	
Totals:		2.7		-0.288	34127			

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 45 microVolts - monitored before this run

Manual injection

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Title : c:\brukerws\data\2026\080426_25_3\2026-08-04_09-30-35_1.0 ppmc s23851 inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\2026\080426_25_3\2026-08-04_09-30-35_1.0 ppmc s23851 inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : 1.0 ppmc S23851

Injection Date: 2026-08-04 09:30 Calculation Date: 2026-08-10 12:00

Operator : MPD/DJL Detector Type: 4X-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Carbon Dioxl	1.0	4.899	-0.366	11867	BB	16.1	
2	Ethane	0.7	10.039	0.010	10043	BB	31.9	
Totals:		1.7		-0.356	21910			

Total Unidentified Counts : 21381 counts

Detected Peaks: 4 Rejected Peaks: 0 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 33 microVolts - monitored before this run

Manual injection

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Print Date: Thu Aug 06 11:06:07 2026      Page 1 of 1

Title      : c:\brukerwa\data\2026\080426 25_3\2026-08-04 09-56-45 1.0 ppmc s23851 inj 2 - scaqmd 253 analysis 090425.run
Run File   : c:\brukerwa\data\2026\080426 25_3\2026-08-04 09-56-45 1.0 ppmc s23851 inj 2 - scaqmd 253 analysis 090425.run
Method File : c:\brukerwa\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID  : 1.0 ppmc S23851 dup

Injection Date: 2026-08-04 09:56      Calculation Date: 2026-08-06 11:05

Operator   : MPD/DJL      Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows      Bus Address : 44
Instrument  : Bruker GC/TCA#1      Sample Rate : 5.00 Hz
Channel    : Middle = FID      Run Time : 23.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 01187-6211-BR0-455D **

Run Mode      : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.      Peak Name      Result (ppmC)      Ret. Time (min)      Time Offset (min)      Area (counts)      Sep. 1/2 Code (sec)      Width Status Codes
-----
1 Methane      0.9      5.302      -0.209      5762      BB      9.4
2 Carbon Monox 0.8      7.608      -0.450      4739      BB      28.3
3 NMNEOC      1.0      14.601      0.461      23700      BB      19.3
-----
Totals:      2.7      -----      34201

Total Unidentified Counts : 0 counts
Detected Peaks: 4      Rejected Peaks: 1      Identified Peaks: 3
Multiplier: 1      Divisor: 1      Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts      LSB: 1 microVolts
Noise (used): 15 microVolts - monitored before this run
Manual injection
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Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 09-56-45 1.0 ppmc s23851 inj 2 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\2026\080426 25.3\2026-08-04 09-56-45 1.0 ppmc s23851 inj 2 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 req.mth
Sample ID : 1.0 ppmc S23851 *744*

Injection Date: 2026-08-04 09:56 Calculation Date: 2026-08-10 12:00

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis

Peak Measurement: Peak Area

Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Width 1/2 Code (sec)	Status Codes
1	Carbon Dioxi	1.0	4.901	-0.364	12260	BB 16.2	
2	Ethane	0.8	10.035	0.006	11197	BB 33.4	
Totals:		1.8		-0.358	23457		

Total Unidentified Counts : 20476 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 52 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 10-22-48 10 ppmc s24005 inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mch
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mch
Sample ID : 10 ppmc S24005

Injection Date: 2026-08-04 10:22 Calculation Date: 2026-08-04 11:12

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TC#1 Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Methane	9.0	5.304	-0.207	55597	BB	9.5	
2	Carbon Monox	8.1	7.478	-0.558	51256	BB	26.9	
3	NMNEOC	10.4	14.602	0.462	239251	BB	19.1	
Totals:		27.5		-0.303	346104			

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 24 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 10-22-48 10 ppmc s24005 inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : 10 ppmc S24005

Injection Date: 2026-08-04 10:22 Calculation Date: 2026-08-10 12:00

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Carbon Dioxl	9.2	4.914	-0.351	112966	BB	16.2	
2	Ethane	7.6	10.048	0.019	110359	BB	33.1	
Totals:		16.8		-0.332	223325			

Total Unidentified Counts : 29528 counts

Detected Peaks: 5 Rejected Peaks: 0 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 29 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 10-48-56 10 ppmc s24005 inj 2 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\2026\080426 25.3\2026-08-04 10-48-56 10 ppmc s24005 inj 2 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : 10 ppmc S24005 **DWP**
Injection Date: 2026-08-04 10:48 Calculation Date: 2026-08-06 11:10
Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TC#1 Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 23.000 min
Injection Date: 2026-08-04 10:48 Calculation Date: 2026-08-06 11:10
Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TC#1 Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Width Sep. 1/2 Code (sec)	Status Codes
1	Methane	8.9	5.304	-0.207	55031	BB 9.5	
2	Carbon Monox	8.0	7.502	-0.556	50615	BB 26.4	
3	NNNEOC	10.4	14.602	0.462	238505	BB 19.1	
Totals:		27.3		-0.301	344151		

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 43 microVolts - monitored before this run

Manual injection

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Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 10-48-56 10 ppmc s24005 inj 2 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : 10 ppmc S24005 *17 mp*

Injection Date: 2026-08-04 10:48 Calculation Date: 2026-08-10 12:00

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/ICA#1 Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Carbon Dioxi	9.2	4.916	-0.349	112699	BB	16.3	
2	Ethane	7.6	10.051	0.022	110870	BB	33.2	
Totals:		16.8	-0.327		223569			

Total Unidentified Counts : 20828 counts

Detected Peaks: 4 Rejected Peaks: 1 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 21 microVolts - monitored before this run

Manual injection

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Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 11-15-08 fgs ccv s23941 inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\2026\080426 25.3\2026-08-04 11-15-08 fgs ccv s23941 inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : FGS CCV S23941

Injection Date: 2026-08-04 11:15      Calculation Date: 2026-08-10 12:06

Operator : MPD/DJL      Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows      Bus Address : 44
Instrument : Bruker GC/TCD#1      Sample Rate : 5.00 Hz
Channel : Front = FID      Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No. Peak Name Ret. Time Result (ppmC) Time Offset (min) Area (counts) Sep. Code Width (sec) Status Codes
-----
1 Carbon Diox 47962.3 4.758 -0.507 513390496 BB 16.5 M
2 Ethane 10.029
-----
Totals: 47962.3 -0.507 513390496

Status Codes:
M - Missing peak

Total Unidentified Counts : 21010 counts
Detected Peaks: 3 Rejected Peaks: 1 Identified Peaks: 2
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts LSB: 1 microVolts
Noise (used): 37 microVolts - monitored before this run
Manual injection
*****

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Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 11-15-08 fgs ccv s23941 inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\2026\080426 25.3\2026-08-04 11-15-08 fgs ccv s23941 inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090423 reg.mth
Sample ID : FGS CCV S23941

Injection Date: 2026-08-04 11:15 Calculation Date: 2026-08-10 12:26

Operator : MPD/DJL Detector Type: 4XX-GC (10 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Rear = TCD Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (% V/V)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Hydrogen		2.623					
2	Oxygen	3.6	3.209	0.078	1098525	BB	4.0	
3	Nitrogen	5.0	3.868	-0.024	1224467	BB	6.1	
4	Methane	5.0	5.192	-0.037	3723384	BB	9.8	
5	Carbon Monox	5.0	7.143	-0.303	1254952	BB	17.0	
Totals:		18.6		-0.286	7301328			

Status Codes:
M - Missing peak

Total Unidentified Counts : 423077 counts

Detected Peaks: 5 Rejected Peaks: 0 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 54255 microVolts LSB: 1 microVolts

Noise (used): 200 microVolts - fixed value

Noise (monitored before this run): 221 microVolts

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 11-41-14 fgs ccv s23941 inj 2 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\2026\080426 25.3\2026-08-04 11-41-14 fgs ccv s23941 inj 2 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mch
Sample ID : FGS CCV S23941 *dup*

Injection Date: 2026-08-04 11:41 Calculation Date: 2026-08-10 12:06

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Carbon Dioxi	47908.7	4.742	-0.523	512901632	BB	16.5	M
2	Ethane	10.029	10.029	-0.523	512901632			
Totals:		47908.7		-0.523	512901632			

Status Codes:
M - Missing peak

Total Unidentified Counts : 19876 counts

Detected Peaks: 4 Rejected Peaks: 1 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 23 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 11-41-14 fgs ccv s23941 inj 2 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\2026\080426 25.3\2026-08-04 11-41-14 fgs ccv s23941 inj 2 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mch
Sample ID : FGS CCV S23941 **DWP**

Injection Date: 2026-08-04 11:41 Calculation Date: 2026-08-10 12:27

Operator : MPD/DJL Detector Type: 4XX-GC (10 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Rear = TCD Run Time : 23.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (% W/V)	Ret. Time (min)	Time Offset (min)	Area (counts)	Width Sep. 1/2 Code (sec)	Status Codes
1	Hydrogen		2.623				M
2	Oxygen	3.6	3.207	0.076	1100474	BP 4.0	
3	Nitrogen	5.0	3.866	-0.026	1214836	PB 6.0	
4	Methane	5.0	5.191	-0.038	3712347	BB 9.8	
5	Carbon Monox	4.9	7.142	-0.304	1211408	BB 17.1	
Totals:		18.5		-0.292	7239065		

Status Codes:
M - Missing Peak

Total Unidentified Counts : 434660 counts

Detected Peaks: 6 Rejected Peaks: 0 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 54581 microVolts LSE: 1 microVolts

33 of 220

Noise (used): 200 microVolts - fixed value

Noise (monitored before this run): 189 microVolts

Manual injection

Title : c:\brukerws\data\080426 25.3\2026-08-04 12-07-26 lab air inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\080426 25.3\2026-08-04 12-07-26 lab air inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : Lab Air

Injection Date: 2026-08-04 12:07 Calculation Date: 2026-08-06 14:50

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Methane	2.0	5.307	-0.204	12480	BB	9.4	
2	Carbon Monox	0.8	7.622	-0.436	5006	BB	26.9	
3	NMNEOC	1.8	14.951	0.811	41442	BB	0.0	
Totals:		4.6	0.171		58928			

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 28 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 12-07-26 lab air inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : Lab Air

Injection Date: 2026-08-04 12:07 Calculation Date: 2026-08-10 12:06

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Carbon Dioxi	558.1	4.893	-0.372	6853366	BB	15.8	M
2	Ethane	10.029	10.029					
Totals:		558.1		-0.372	6853366			

Status Codes:
M - Missing peak

Total Unidentified Counts : 21009 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 69 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 12-07-26 lab air inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : Lab Air

Injection Date: 2026-08-04 12:07 Calculation Date: 2026-08-10 12:29

Operator : MPD/DJL Detector Type: 4XX-GC (10 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Rear = TCD Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (% V/V)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Hydrogen		2.623					M
2	Oxygen	20.2	3.214	0.083	6229424	BV	3.3	
3	Nitrogen	75.3	3.682	-0.210	18442258	VB	11.5	
4	Methane		5.229					M
5	Carbon Monox		7.446					M
Totals:		95.5		-0.127	24671682			

Status Codes:
M - Missing peak

Total Unidentified Counts : 421443 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 5

Multipplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 55020 microVolts LSB: 1 microVolts

Noise (used): 200 microVolts - fixed value
Noise (monitored before this run): 491 microVolts

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 12-33-30 lab air inj 2 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : Lab Air
Sample ID : *dup*

Injection Date: 2026-08-04 12:33 Calculation Date: 2026-08-06 14:51

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Methane	1.9	5.302	-0.209	11595	BB	9.2	
2	Carbon Monox	0.6	7.622	-0.436	3793	BB	21.8	
3	NMNEOC	2.6	14.812	0.672	59145	BB	94.7	
Totals:		5.1		0.027	74533			

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 30 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 12-33-30 lab air inj 2 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : Lab Air **DWP**

Injection Date: 2026-08-04 12:33 Calculation Date: 2026-08-10 12:06

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/PCA#1 Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. 1/2 Code (sec)	Width (sec)	Status Codes
1	Carbon Diox	582.2	4.886	-0.379	7148507	BB	15.7	M
2	Ethane	10.029	10.029					
Totals:		582.2		-0.379	7148507			

Status Codes:
M - Missing peak

Total Unidentified Counts : 21379 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 45 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-04 12-33-30 lab air inj 2 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\2026\080426 25.3\2026-08-04 12-33-30 lab air inj 2 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : Lab Air *dup*

Injection Date: 2026-08-04 12:33 Calculation Date: 2026-08-10 12:29

Operator : MPD/DJL Detector Type: 4XX-GC (10 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Rear = TCD Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (% V/V)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. 1/2 Code (sec)	Width Status Codes
1	Hydrogen		2.623				M
2	Oxygen	20.2	3.213	0.082	6226245	BV 3.3	
3	Nitrogen	74.8	3.681	-0.211	18332356	VB 11.5	
4	Methane		5.229				M
5	Carbon Monox		7.446				M
Totals:		95.0		-0.129	24558601		

Status Codes:
M - Missing peak

Total Unidentified Counts : 419733 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 5
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 52510 microVolts LSB: 1 microVolts

Noise (used): 200 microVolts - fixed value
Noise (monitored before this run): 315 microVolts

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-05 02-11-50 argon blank inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\2026\080426 25.3\2026-08-05 02-11-50 argon blank inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : Argon Blank

Injection Date: 2026-08-05 02:11 Calculation Date: 2026-08-06 14:48
Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. 1/2 Code (sec)	Width	Status Codes
1	Methane		5.511					M
2	Carbon Monox		8.058					M
3	NMNEOC		14.140					M
Totals:		0.0		0.000			0	

Status Codes:
M - Missing peak

Total Unidentified Counts : 0 counts

Detected Peaks: 1 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 32 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-05 02-11-50 argon blank inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : Argon Blank

Injection Date: 2026-08-05 02:11 Calculation Date: 2026-08-10 11:59

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCIION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Carbon Diox	5.265	5.265					M
2	Ethane	10.029	10.029					M
Totals:		0.0		0.000				

Status Codes:
M - Missing peak

Total Unidentified Counts : 21205 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Message (used): 42 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-05 02-11-50 argon blank inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : Argon Blank

Injection Date: 2026-08-05 02:11 Calculation Date: 2026-08-10 12:23

Operator : MPD/DJL Detector Type: 4XX-GC (10 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Rear = TCD Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (% V/V)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Hydrogen		2.623					M
2	Oxygen		3.131					M
3	Nitrogen		3.883					M
4	Methane		5.192					M
5	Carbon Monox		7.446					M
Totals:			0.0	0.000			0	

Status Codes:
M - Missing peak

Total Unidentified Counts : 424336 counts

Detected Peaks: 1 Rejected Peaks: 0 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 51595 microVolts LSB: 1 microVolts

Noise (used): 200 microVolts - fixed value

Noise (monitored before this run): 257 microVolts

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-05 02-37-59 1.0 ppmc s23851 inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : 1.0 ppmc S23851

Injection Date: 2026-08-05 02:37 Calculation Date: 2026-08-06 11:07

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TGA#1 Sample Rate : 5.00 Hz
Channel : Middle - FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis

Peak Measurement: Peak Area

Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Methane	0.9	5.300	-0.211	5611	BB	9.4	
2	Carbon Monox	0.9	7.572	-0.486	5691	BB	28.6	
3	NMNEOC	1.0	14.604	0.464	23451	BB	19.0	
Totals:					2.8			
					-0.233			

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 1 Identified Peaks: 3

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 52 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-05 02-37-59 1.0 ppmc s23851 inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\2026\080426 25.3\2026-08-05 02-37-59 1.0 ppmc s23851 inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mch
Sample ID : 1.0 ppmc S23851

Injection Date: 2026-08-05 02:37 Calculation Date: 2026-08-10 12:02

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Carbon Dioxi	1.0	4.901	-0.364	12350	BB	16.1	
2	Ethane	0.8	10.031	0.002	11636	BB	33.1	
Totals:		1.8		-0.362	23986			

Total Unidentified Counts : 20498 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 42 microVolts - monitored before this run

Manual injection

```

Print Date: Thu Aug 06 11:13:13 2026          Page 1 of 1

Title       : c:\brukerws\data\2026\080426 25.3\2026-08-05 03-04-08 10 ppmc s24005 inj 1 - scaqmd 253 analysis 090425.run
Run File    : c:\brukerws\data\2026\080426 25.3\2026-08-05 03-04-08 10 ppmc s24005 inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID   : 10 ppmC S24005

Injection Date: 2026-08-05 03:04      Calculation Date: 2026-08-06 11:12

Operator   : MPD/DJL      Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows      Bus Address : 44
Instrument  : Bruker GC/TCA#1  Sample Rate : 5.00 Hz
Channel    : Middle = FID      Run Time   : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode      : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

  Peak   Peak   Result   Ret.   Time   Area   Sep.   Width   Status
  No.    Name    (ppmC)  (min) (min) (counts) Code (sec) Codes  -----
  -----
1 Methane      9.0      5.301 -0.210  55872  BB   8.5
2 Carbon Monox 8.1      7.488 -0.570  51099  BB  26.8
3 NNNEOC      10.4     14.602  0.462  239213 BB  19.1
-----
Totals:                27.5      -0.318      346184

Total Unidentified Counts : 0 counts

Detected Peaks: 4      Rejected Peaks: 1      Identified Peaks: 3

Multiplier: 1      Divisor: 1      Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts      LSB: 1 microVolts

Noise (used): 42 microVolts - monitored before this run

Manual injection
*****

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Print Date: Mon Aug 10 12:04:49 2026 Page 1 of 1

Title : c:\brukerws\data\080426 25 3\2026-08-05 03-04-08 10 ppmc s24005 inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\080426 25 3\2026-08-05 03-04-08 10 ppmc s24005 inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : 10 ppmc S24005

Injection Date: 2026-08-05 03:04 Calculation Date: 2026-08-10 12:02

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker gc/TCA#1 Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. Code	Width 1/2 (sec)	Status Codes
1	Carbon Diox1	9.3	4.917	-0.348	114174	BB	16.3	
2	Ethane	7.7	10.050	0.021	111641	BB	33.1	
Totals:		17.0	-0.327		225815			

Total Unidentified Counts : 20495 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 37 microVolts - monitored before this run

Manual injection

```

Print Date: Mon Aug 10 12:08:07 2026                               Page 1 of 1

Title      : c:\brukerws\data\2026\080426 25.3\2026-08-05 03-30-12 fgs ccv s23941 inj 1 - scaqmd 253 analysis 090425.run
Run File   : c:\brukerws\data\2026\080426 25.3\2026-08-05 03-30-12 fgs ccv s23941 inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID  : FGS CCV S23941

Injection Date: 2026-08-05 03:30      Calculation Date: 2026-08-10 12:06

Operator   : MPD/DJL      Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows      Bus Address : 44
Instrument  : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel    : Front = FID   Run Time    : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode      : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No. Peak Name Result (ppmC) Ret. Time (min) Time Offset (min) Area (counts) Sep. 1/2 Code (sec) Width Status Codes
-----
1 Carbon Diox 48048.4 4.763 -0.502 514174688 BB 16.8 M
2 Ethane 10.029
-----
Totals: 48048.4 -0.502 514174688

Status Codes:
M - Missing peak

Total Unidentified Counts : 21311 counts
Detected Peaks: 2 Rejected Peaks: 0 Identified Peaks: 2
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0
Baseline Offset: 0 microVolts LSB: 1 microVolts
Noise (used): 44 microVolts - monitored before this run
Manual injection
*****

```

Print Date: Mon Aug 10 12:31:20 2026 Page 1 of 1

Title : c:\brukerws\data\2026\080426 25.3\2026-08-05 03-30-12 fgs ccv s23941 inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 res.mth
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 res.mth
Sample ID : FGS CCV S23941

Injection Date: 2026-08-05 03:30 Calculation Date: 2026-08-10 12:27

Operator : MPD/DJL Detector Type: 4XX-GC (10 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/ICA#1 Sample Rate : 5.00 Hz
Channel : Rear = TCD Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (% V/V)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. 1/2 Code (sec)	Width	Status Codes
1	Hydrogen		2.623					M
2	Oxygen	3.6	3.209	0.078	1105287	BP 4.0		
3	Nitrogen	5.0	3.867	-0.023	1224252	BB 6.0		
4	Methane	5.0	5.191	-0.038	3737960	BB 9.8		
5	Carbon Monox	5.0	7.141	-0.305	1245277	BB 17.1		
Totals:		18.6		-0.290	7312776			

Status Codes:
M - Missing peak

Total Unidentified Counts : 404333 counts

Detected Peaks: 5 Rejected Peaks: 0 Identified Peaks: 5

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 51665 microVolts LSB: 1 microVolts

Noise (used): 200 microVolts - fixed value

Noise (monitored before this run): 300 microVolts

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-05 03-56-17 lab air inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\2026\080426 25.3\2026-08-05 03-56-17 lab air inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : Lab Air

Injection Date: 2026-08-05 03:56 Calculation Date: 2026-08-06 14:51
Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Middle = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. 1/2 Code (sec)	Status Codes
1	Methane	2.0	5.302	-0.209	12617	BB 9.3	
2	Carbon Monox	0.6	7.602	-0.456	3971	BB 21.0	
3	NMNEOC	1.5	15.002	0.862	34107	BB 86.3	
Totals:		4.1		0.197	50695		

Total Unidentified Counts : 0 counts

Detected Peaks: 4 Rejected Peaks: 1 Identified Peaks: 3
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 33 microVolts - monitored before this run

Manual injection

Title :
Run File : c:\brukerws\data\2026\080426 25.3\2026-08-05 03-56-17 lab air inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : Lab Air

Injection Date: 2026-08-05 03:56 Calculation Date: 2026-08-10 12:06

Operator : MPD/DJL Detector Type: 4XX-GC (1000 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Front = FID Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (ppmC)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. 1/2 Code (sec)	Width Code (sec)	Status Codes
1	Carbon Dioxi	417.2	4.898	-0.367	5124689	BB	15.8	M
2	Ethane	10.029						
Totals:		417.2		-0.367	5124689			

Status Codes:
M - Missing peak

Total Unidentified Counts : 19797 counts

Detected Peaks: 4 Rejected Peaks: 1 Identified Peaks: 2

Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 0 microVolts LSB: 1 microVolts

Noise (used): 37 microVolts - monitored before this run

Manual injection

Title : c:\brukerws\data\2026\080426 25.3\2026-08-05 03-56-17 lab air inj 1 - scaqmd 253 analysis 090425.run
Run File : c:\brukerws\data\2026\080426 25.3\2026-08-05 03-56-17 lab air inj 1 - scaqmd 253 analysis 090425.run
Method File : c:\brukerws\methods\active gc methods 2025\scaqmd 253 quant 090425 reg.mth
Sample ID : Lab Air

Injection Date: 2026-08-05 03:56 Calculation Date: 2026-08-10 12:27
Operator : MPD/DJL Detector Type: 4XX-GC (10 Volts)
Workstation: Windows Bus Address : 44
Instrument : Bruker GC/TCA#1 Sample Rate : 5.00 Hz
Channel : Rear = TCD Run Time : 23.000 min

** MSWS 8.0.1 for SCION Version 8.0.1 ** 01187-6211-BB0-455D **

Run Mode : Analysis
Peak Measurement: Peak Area
Calculation Type: External Standard

Peak No.	Peak Name	Result (% V/V)	Ret. Time (min)	Time Offset (min)	Area (counts)	Sep. 1/2 Code (sec)	Width Code (sec)	Status Codes
1	Hydrogen		2.623					M
2	Oxygen	20.6	3.213	0.082	6351042	BV 3.3		
3	Nitrogen	75.9	3.681	-0.211	18579976	VB 11.5		
4	Methane		5.229					M
5	Carbon Monox		7.446					M
Totals:		96.5		-0.129	24931018			

Status Codes:
M - Missing peak

Total Unidentified Counts : 404789 counts

Detected Peaks: 3 Rejected Peaks: 0 Identified Peaks: 5
Multiplier: 1 Divisor: 1 Unidentified Peak Factor: 0

Baseline Offset: 51718 microVolts LSB: 1 microVolts

Noise (used): 200 microVolts - fixed value
Noise (monitored before this run): 348 microVolts

Manual injection



ICAL Data

Calibration Curves Report

File: c:\... \active gc methods 2025\scaqmd 253 quant 090425 reg.mth

Detector: 45X-GC, Address: 44, Channel ID: Middle

Methane

External Standard Analysis - Locked

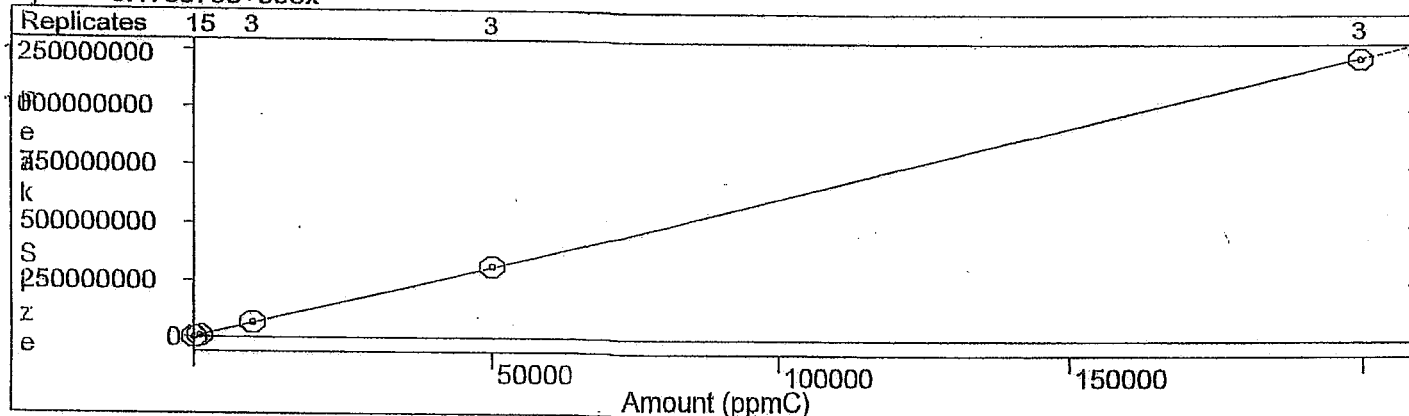
Curve Type: Linear

Origin: Force

$$y = +6.178576e+003x$$

Resp. Fact. RSD: 4.798%

Coeff. Det.(r²): 0.999977



Carbon Monoxide

External Standard Analysis - Locked

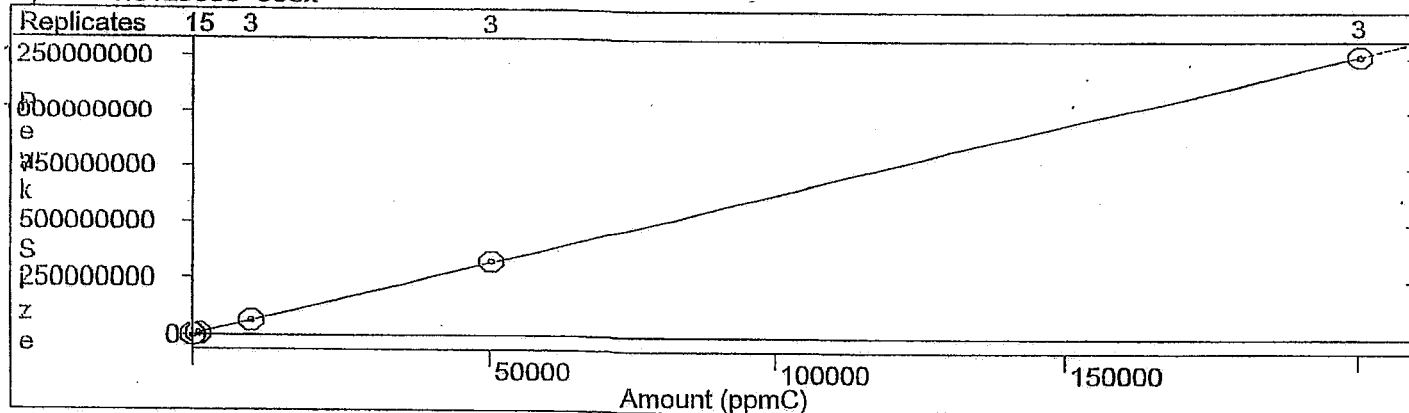
Curve Type: Linear

Origin: Force

$$y = +6.312955e+003x$$

Resp. Fact. RSD: 8.621%

Coeff. Det.(r²): 0.999976



NMNEOC

External Standard Analysis - Locked

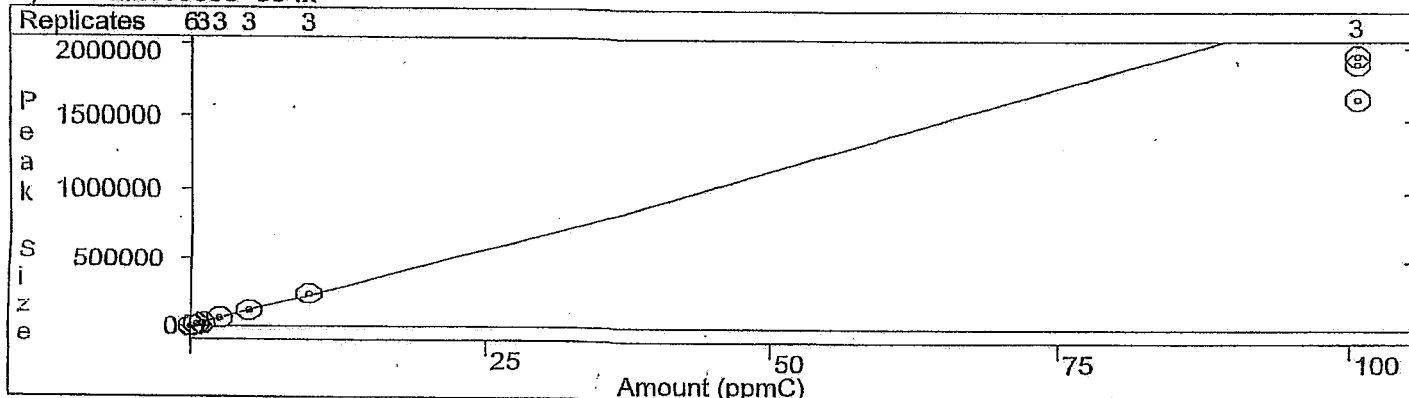
Curve Type: Linear

Origin: Force

$$y = +2.296585e+004x$$

Resp. Fact. RSD: 11.16%

Coeff. Det.(r²): 0.992776



Print Date: 09 Sep 2025 10:21:19

Calibration Curves Report

File: c:\... \active gc methods 2025\scaqmd 253 quant 090425 reg.mth

Detector: 45X-GC, Address: 44, Channel ID: Front

Carbon Dioxide

External Standard Analysis - Locked

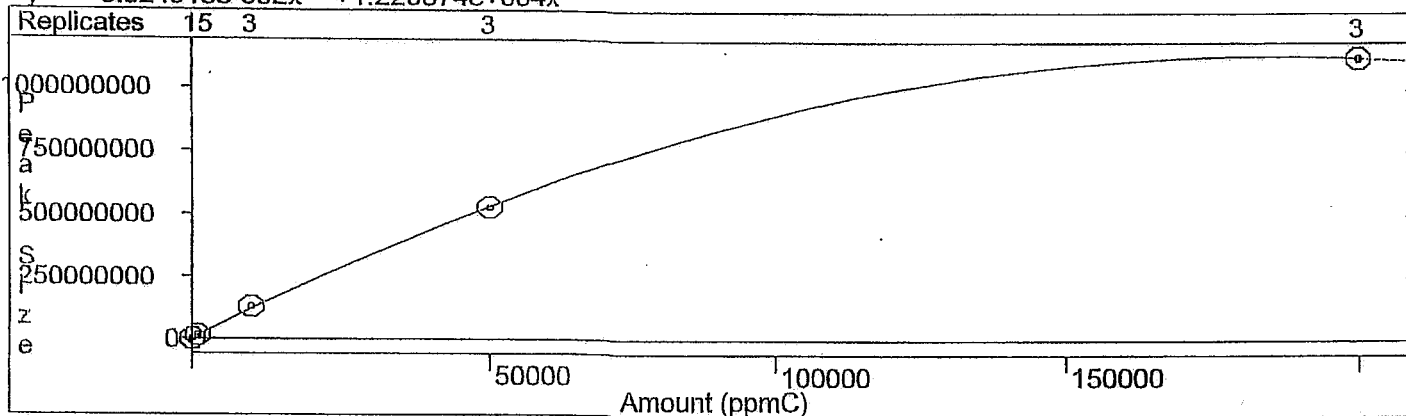
Curve Type: Quadratic (Edited)

Origin: Force

$$y = -3.324918e-002x^2 + 1.229874e+004x$$

Resp. Fact. RSD: 28.22%

Coeff. Det.(r²): 0.999911



Ethane

External Standard Analysis - Locked

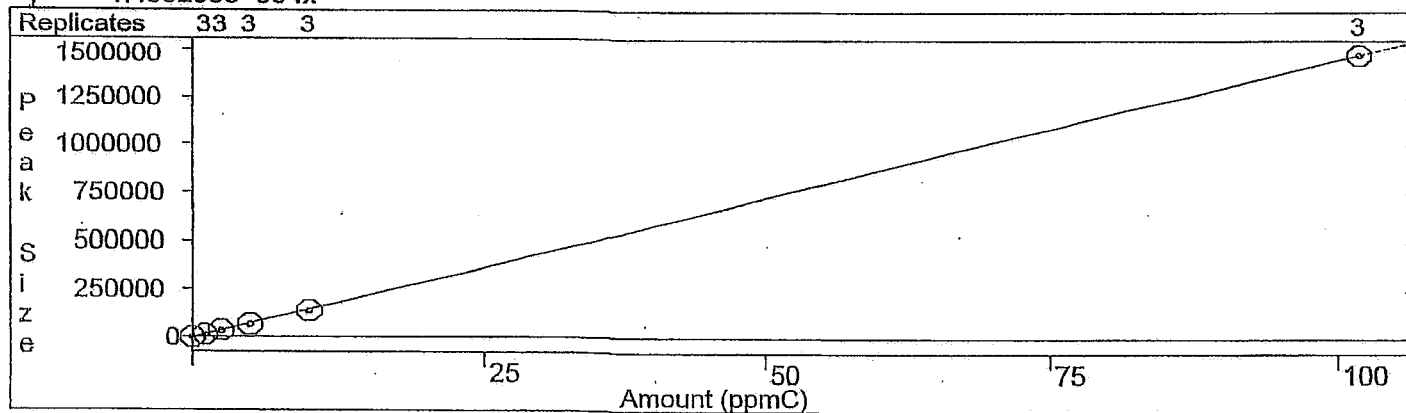
Curve Type: Linear

Origin: Force

$$y = +1.456200e+004x$$

Resp. Fact. RSD: 11.62%

Coeff. Det.(r²): 0.999988



Hydrogen

External Standard Analysis - Locked

Resp. Fact. RSD: 4.339%

Curve Type: Linear

Origin: Force

Coeff. Det.(r²): 0.999806

y = +2.6793e+006x

Oxygen

External Standard Analysis - Locked

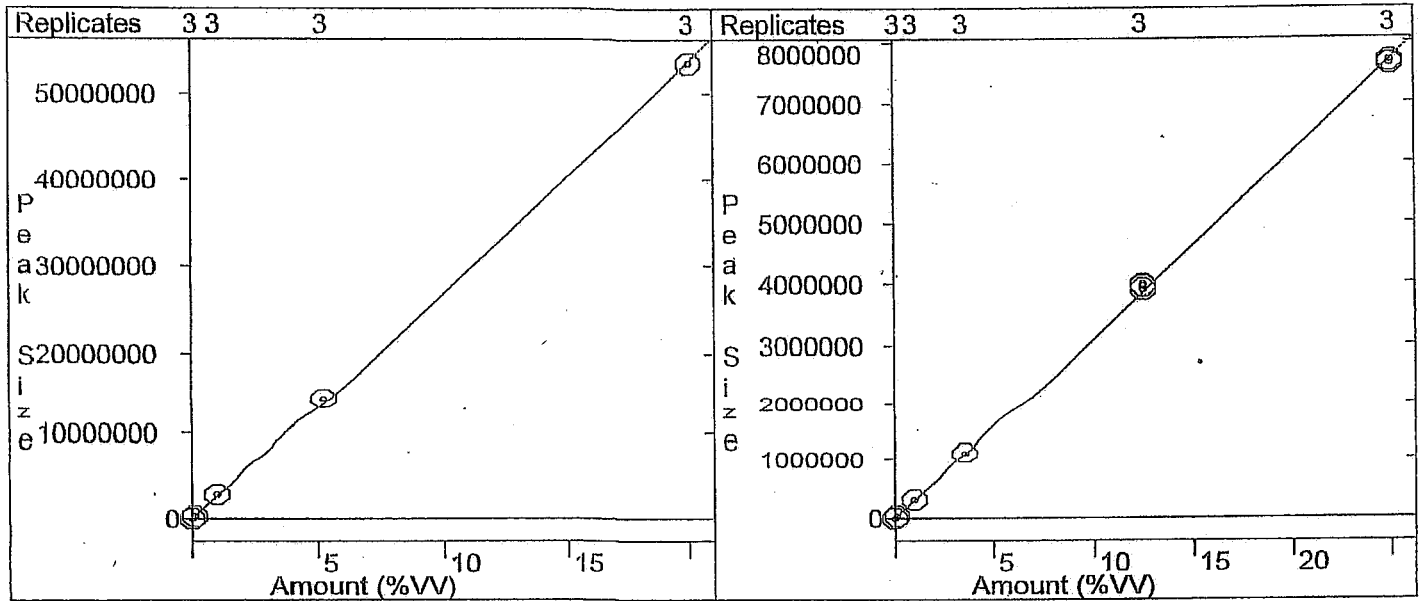
Resp. Fact. RSD: 7.048%

Curve Type: Linear

Origin: Force

Coeff. Det.(r²): 0.999719

y = +3.0805e+005x



Nitrogen

External Standard Analysis - Locked

Resp. Fact. RSD: 3.982%

Curve Type: Linear

Origin: Force

Coeff. Det.(r²): 0.999851

y = +2.4493e+005x

Methane

External Standard Analysis - Locked

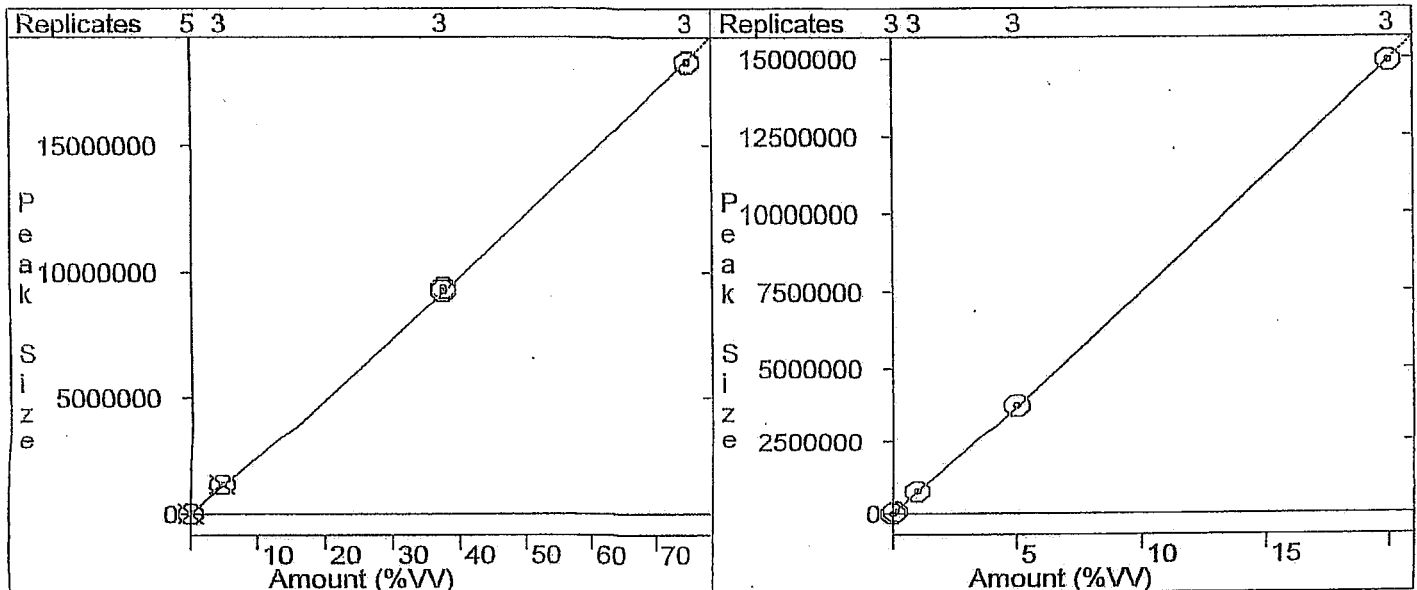
Resp. Fact. RSD: 1.849%

Curve Type: Linear

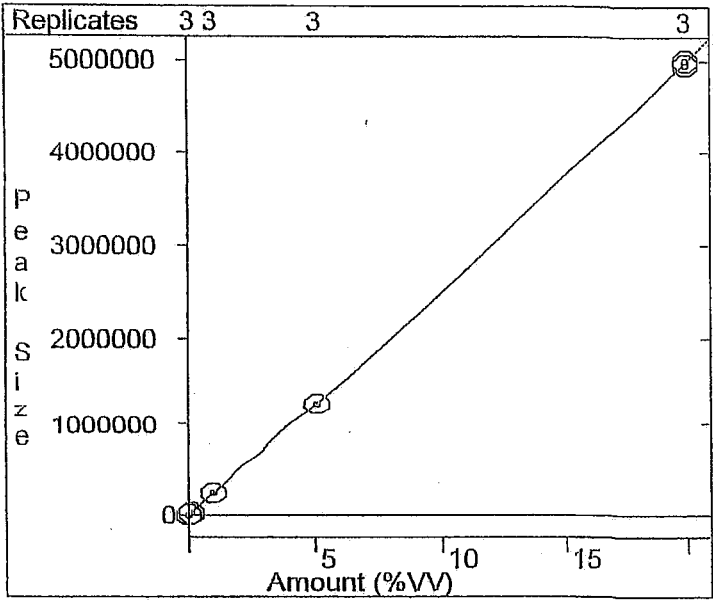
Origin: Force

Coeff. Det.(r²): 0.999975

y = +7.4734e+005x



Carbon Monoxide
External Standard Analysis - Locked
Resp. Fact. RSD: 9.034%
Curve Type: Linear
Origin: Force
Coeff. Det.(r²): 0.999971
 $y = +2.4970e+005x$



General Info

Analysis Name 20250625A.adb
Type TC

Calibration Info

R²: 0.99987
A2: 0
A1: 657,446
A0: 0

Correlation 0.99994
Volume 200
Curve Order 1st Order Through Zero

Single Info:

Conc. Templ.	Area	Selected
0.00	123,327	Yes
0.00	111,116	No
0.00	120,718	Yes
0.00	174,831	No
0.00	131,398	Yes
0.25	351,183	No
0.25	293,130	Yes
0.25	296,998	Yes
0.25	336,958	No
0.25	297,925	Yes
0.50	513,265	Yes
0.50	497,675	Yes
0.50	445,402	No
0.50	500,845	Yes
1.00	852,521	Yes
1.00	828,583	Yes
1.00	835,647	Yes
5.00	3,569,401	Yes
5.00	3,536,762	Yes
5.00	3,519,133	Yes
10.00	6,839,879	Yes
10.00	6,790,073	Yes
10.00	6,788,116	Yes
20.00	13,302,998	Yes
20.00	13,291,778	Yes
20.00	13,234,853	Yes

General Info

Analysis Name 20250626A.adb
Type IC

Calibration Info

R²:	0.99605	Correlation	0.99802
A2:	0	Volume	200
A1:	674,782	Curve Order	1st Order Through Zero
A0:	0		

Single Info:

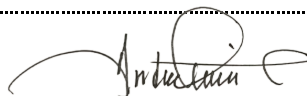
Conc. Templ.	Area	Selected
0.00	69,779	No
0.00	77,285	Yes
0.00	82,602	Yes
0.00	87,877	Yes
0.00	100,576	No
0.25	193,362	Yes
0.25	189,732	Yes
0.25	206,181	Yes
0.50	245,941	Yes
0.50	244,708	Yes
0.50	247,877	Yes
1.00	1,232,834	Yes
1.00	1,261,553	Yes
1.00	1,254,566	Yes
5.00	4,018,952	Yes
5.00	4,062,267	Yes
5.00	4,068,813	Yes
10.00	7,186,814	Yes
10.00	7,281,608	Yes
10.00	7,281,033	Yes
20.00	13,430,760	Yes
20.00	13,537,866	Yes
20.00	13,592,843	Yes

CLIENT: **Onterris Air Quality**
CLIENT PROJ NO: **Chiquita Landfill**
LABORATORY NO: **26-866**
SAMPLING DATE: **07/28/26**
RECEIVING DATE: **07/28/26**
ANALYSIS DATE: **07/28/26**
REPORT DATE: **08/05/26**

Laboratory Analysis Report

Analysis Method: ASTM 1945-03; HHV Calculations: ASTM 3588-98

Analyte, Units	Sample ID	Flare 1 Inlet 1A	Flare 1 Inlet 1B
	Sample Date	07/28/26	07/28/26
	Sample Time	1032	1032
	Lab ID	20926-6	20926-7
	Units	Mole %	Mole %
Methane, %		29.88	30.20
Ethane, %		<0.01	<0.01
Ethylene, %		<0.01	<0.01
Propane, %		<0.01	<0.01
Propylene, %		<0.01	<0.01
i-Butane, %		<0.01	<0.01
n-Butane, %		<0.01	<0.01
1-Butene, %		<0.01	<0.01
i-Butylene, %		<0.01	<0.01
trans-2-Butene, %		<0.01	<0.01
cis-2-Butene, %		<0.01	<0.01
i-Pentane, %		<0.01	<0.01
n-Pentane, %		<0.01	<0.01
2,2-Dimethyl Butane, %		<0.01	<0.01
2,3-Dimethyl Butane, %		<0.01	<0.01
2-Methyl Pentane, %		<0.01	<0.01
3-Methyl Pentane, %		<0.01	<0.01
n-Hexane, %		<0.01	<0.01
C6+, %		<0.01	<0.01
CO2, %		39.02	39.37
CO, %		<0.01	<0.01
O2, %		3.94	3.79
N2, %		24.46	24.12
H2, %		2.69	2.52
H2S, %		<0.01	<0.01
Average Molecular Weight		30.136	30.191
Total Wt.% Adjusted Sp. Gravity		1.0404	1.0424
Compressibility Factor (14.696 Psi, 60 F)		0.9979	0.9979
NET BTU/Cub. Ft		279	282
GROSS BTU/Cub. Ft		311	313
CHONS		%	%
Carbon		27.46	27.68
Hydrogen		4.18	4.20
Oxygen		45.62	45.74
Nitrogen		22.74	22.38
Sulfur		<0.01	<0.01
Dry F Factor (60 F, 1 Atm);		10038	10048
SDCF/MMBTU, ASTM 3588			



Dr. Andrew Kitto

President

CLIENT: Onterris Air Quality
CLIENT PROJ NO: Chiquita Landfill
LABORATORY NO: 26-866
SAMPLING DATE: 07/28/26
RECEIVING DATE: 07/28/26
ANALYSIS DATE: 07/28/26
REPORT DATE: 08/05/26

Laboratory Analysis Report

Analysis Method	SCAQMD 307-91		
Detection Limits	0.05 PPMV		
Analyte	Sample ID	Flare 1 Inlet 1A	Flare 1 Inlet 1B
	Sample Date	07/28/26	07/28/26
	Sample Time	1032	1032
	Lab ID	20926-6	20926-7
	Units	PPMV	PPMV
Hydrogen Sulfide		132.4	84.59
Carbonyl Sulfide		<0.05	<0.05
Methyl Mercaptan		84.99	53.87
Ethyl Mercaptan		1.65	<0.05
Dimethyl Sulfide		5.02	3.15
Unidentified S Compounds		0.60	0.16
Total Sulfur as H₂S		224.7	141.8



Dr. Andrew Kitto
President

CLIENT: Onterris Air Quality
CLIENT PROJ NO: Chiquita Landfill
LABORATORY NO: 26-866
SAMPLING DATE: 07/28/26
RECEIVING DATE: 07/28/26
ANALYSIS DATE: 07/28/26
REPORT DATE: 08/05/26

Quality Assurance Report

Duplicate Analysis

Sample ID: Flare 1 Inlet 1B

Lab ID: 20926-7

Analysis Method		SCAQMD 307-91		
Detection Limit		0.05 PPMV		
Analyte	Aver. Conc. PPMV	Dil. Factor Ambient Air	DF*A/CF PPMV	% Sample Recovery*
Hydrogen Sulfide	80.63	1	76.67	95
Carbonyl Sulfide	<0.05	1	<0.05	N/A
Methyl Mercaptan	51.08	1	48.28	95
Ethyl Mercaptan	<0.05	1	<0.05	N/A
Dimethyl Sulfide	3.00	1	2.84	95
Unidentified S Compounds	0.15	1	0.15	94
Total Sulfur as H ₂ S	134.9	1	127.9	95

N/A: Not Applicable

*Must be ±10%



Dr. Andrew Kitto
 President

CLIENT:	Onterris Air Quality
CLIENT PROJ NO:	Chiquita Landfill
LABORATORY NO:	26-866
SAMPLING DATE:	07/28/26
RECEIVING DATE:	07/28/26
ANALYSIS DATE:	07/28/26
REPORT DATE:	08/05/26

Laboratory Analysis Report

Analysis Method	EPA 18		
Detection Limits	0.1 PPMV		
	Sample ID	Flare 1 Inlet 1A	Flare 1 Inlet 1B
	Sample Date	07/28/26	07/28/26
	Sample Time	1032	1032
	Lab ID	20926-6	20926-7
	Units	PPMV	PPMV
C1 - Methane		298,801	302,038
C2 - Ethane, Ethylene		68.58	69.34
C3 - Propane		32.53	31.54
C3 - Propylene		63.98	63.74
C4 - i-Butane		6.55	6.31
C4 - n-Butane		20.09	19.26
C5 - Pentanes		87.94	88.50
C6 - Hexanes		25.38	25.82
C6+		334.8	334.0
Total VOCs as Methane not including ethane		2,725	2,721



Dr. Andrew Kitto
President

CLIENT: Onterris Air Quality
CLIENT PROJ NO: Chiquita Landfill
LABORATORY NO: 26-866
SAMPLING DATE: 07/28/26
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ANALYSIS DATE: 07/28/26
REPORT DATE: 08/05/26

Standard Verification

I - Blank

Lab ID	Results PPMV
C1 - Methane	<0.1
C2 - Ethane	<0.1
C3 - Propane	<0.1
C4 - Butane	<0.1
C5 - Pentane	<0.1
C6 - Hexane	<0.1

II - Initial Calibration Verification Standard - C1-C6

Lab ID	Theoretical Value PPMV	Tested Value PPMV	% Recovery*
C1 - Methane	200.0	208.0	104%
C2 - Ethane	200.0	195.0	97%
C3 - Propane	200.0	199.9	100%
C4 - Butane	200.0	195.5	98%
C5 - Pentane	200.0	196.6	98%
C6 - Hexane	200.0	195.7	98%

*Must be $\pm 10\%$



Dr. Andrew Kitto
 President

26-866

CHAIN OF CUSTODY

CLIENT: WASTE CONTAINMENTS PROJECT #: PROJ-168904 TEST DATE(S): 7/28/26

LOCATION: CHICUITA LANDFILL SAMPLER(S): ST/KT

SAMPLE LOCATION: FLANG 1 INLET PROJECT MANAGER: P-SANFORD

TEST METHOD(S): EPA 18 C1-C6, SCAQMD 307.91, ASTM 1945/3588 DATE DUE: -

OUTSIDE LAB REQUIRED?: - COMPLIANCE TEST?: YES
HHV BV. FRACTION
EPA 18

[illegible]

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
Rene Carabona	7-28-26 / 02:20	<i>[Signature]</i>	7/28/26 14:20

ANALYSIS REQUIRED: EPA 16, 207-9, 1945/3588

Appendix D Quality Assurance / Quality Control

Appendix D1 Units and Abbreviations

Unit	Description
@ X% O ₂	corrected to X% oxygen (corrected for dilution air)
CC	absolute value of the confidence coefficient
d	absolute value of the mean differences
°C	degrees Celsius
°F	degrees Fahrenheit
°R	degrees Rankine
" H ₂ O	inches of water column
13.6	specific gravity of mercury
ΔH	pressure drop across orifice meter, inches H ₂ O
ΔP	velocity head of stack gas, inches H ₂ O
θ	total sampling time, minutes
μg	microgram
ρ _a	density of acetone, mg/ml
ρ _w	density of water, 0.9982 g/ml or 0.002201 lb/ml
% vd	percent by volume, dry basis
% vw	percent by volume, wet basis
acfm	actual cubic feet of gas per minute at stack conditions
A _n	cross-sectional area of nozzle, ft ²
A _s	cross-sectional area of stack, square feet (ft ²)
Btu	British thermal unit
Btu/ft ³	British thermal units per cubic foot
Btu/gal	British thermal units per gallon
B _{ws}	proportion by volume of water vapor in gas stream
C _a	particulate matter concentration in stack gas, gr/acf
C _{Avg}	average unadjusted gas concentration, ppmv
C _{Dir}	measured concentration of calibration gas, ppmv
cf or ft ³	cubic feet
cfm	cubic feet per minute
C _{Gas}	average gas concentration adjusted for bias, ppmv
C _M	average of initial and final system bias check responses from upscale calibration gas, ppmv
cm or m ³	cubic meters
C _{MA}	actual concentration of the upscale calibration gas, ppmv
C _O	average of initial and final system bias check responses from low-level calibration gas, ppmv
C _p	pitot tube coefficient
C _s	particulate matter concentration in stack gas, gr/dscf
CS	calibration span, % or ppmv
C _S	measured concentration of calibration gas, ppmv
C _V	manufactured certified concentration of calibration gas, ppmv
D	drift assessment, % of span
dcf	dry cubic feet
dcm	dry cubic meters
D _n	diameter of nozzle, inches
D _s	diameter of stack, inches
dscf	dry standard cubic feet
dscf/MMBtu	dry standard cubic foot per million British thermal units
dscfm	dry standard cubic feet per minute
dscm	dry standard cubic meters
F _d	F-factor, dscf/MMBtu of heat input
fpm	feet per minute
fps	feet per second
ft	feet
ft ²	square feet
g	gram
gal	gallons
gal/hr	gallons per hour
gr	grains (7000 grains per pound)
gr/dscf	grains per dry standard cubic feet
GW	gigawatt
GWh	gigawatt-hour
hr	hour

Unit	Description
I	percent of isokinetic sampling
in	inch
k	kilo or thousand (metric units, multiply by 10^3)
K	kelvin (temperature)
K ₃	conversion factor 0.0154 gr/mg
K ₄	conversion factor 0.002668 ((in. Hg)(ft ³))/((ml)(°R))
kg	kilogram
K _p	pitot tube constant (85.49 ft/sec)
kwsfch	thousand wet standard cubic feet per hour
l or L	liters
lb/hr	pounds per hour
lb/lb-mole	pounds per pound mole
lb/MMBtu	pounds per million Btu
lb/TBtu	pounds per trillion Btu
lpm	liters per minute
m	meter or milli
M	thousand (English units) or mega (million, metric units)
m ³	cubic meters
m _a	mass of residue of acetone after evaporation, mg
M _d	molecular weight of stack gas; dry basis, lb/lb-mole
meq	milliequivalent
mg	milligram
Mg	megagram (10^6 grams)
min	minute
ml or mL	milliliter
mm	millimeter
MM	million (English units)
MMBtu	million British thermal units
MMBtu/hr	million Btu per hour
m _n	total amount of particulate matter collected, mg
mol	mole
mol. wt. or MW	molecular weight
M _s	molecular weight of stack gas; wet basis, lb/lb-mole
MW	molecular weight or megawatt
MWh	megawatt-hour
n	number of data points
ng	nanogram
nm	nanometer
Nm ³	normal cubic meter
P _{bar}	barometric pressure, inches Hg
pg	picogram
P _g	stack static pressure, inches H ₂ O
P _m	barometric pressure of dry gas meter, inches Hg
ppb	parts per billion
ppbv	parts per billion, by volume
ppbvd	parts per billion by volume, dry basis
ppm	parts per million
ppmv	parts per million, by volume
ppmvd	parts per million by volume, dry basis
ppmvw	parts per million by volume, wet basis
P _s	absolute stack gas pressure, inches Hg
psi	pounds per square inch
psia	pounds per square inch absolute
psig	pounds per square inch gauge
P _{std}	standard absolute pressure, 29.92 inches Hg
Q _a	volumetric flow rate, actual conditions, acfm
Q _s	volumetric flow rate, standard conditions, scfm
Q _{std}	volumetric flow rate, dry standard conditions, dscfm
R	ideal gas constant 21.85 ((in. Hg) (ft ³))/((°R) (lbmole))
SB _{final}	post-run system bias check, % of span
SB _i	pre-run system bias check, % of span

Unit	Description
scf	standard cubic feet
scf/MMBtu	standard cubic foot per million British thermal units
scfh	standard cubic feet per hour
scfm	standard cubic feet per minute
scm	standard cubic meters
scmh	standard cubic meters per hour
sec	second
sf, sq. ft., or ft ²	square feet
std	standard
t	metric ton (1000 kg)
T _{0.975}	t-value
T _a	absolute average ambient temperature, °R (+459.67 for English)
T _m	absolute average dry gas meter temperature, °R (+459.67 for English)
ton or t	ton = 2000 pounds
tph or tons/hr	tons per hour
tpy or tons/yr	tons per year
T _s	absolute average stack gas meter temperature, °R (+459.67 for English)
T _{std}	absolute temperature at standard conditions
V	volt
V _a	volume of acetone blank, ml
V _{aw}	volume of acetone used in wash, ml
V _{lc}	total volume H ₂ O collected in impingers and silica gel, grams
V _m	volume of gas sampled through dry gas meter, ft ³
V _{m(std)}	volume of gas measured by the dry gas meter, corrected to standard conditions, dscf
V _{ma}	stack gas volume sampled, acf
V _n	volume collected at stack conditions through nozzle, acf
V _s	average stack gas velocity, feet per second
V _{wc(std)}	volume of water vapor condensed, corrected to standard conditions, scf
V _{wi(std)}	volume of water vapor in gas sampled from impingers, scf
V _{wsg(std)}	volume of water vapor in gas sampled from silica gel, scf
W	watt
W _a	weight of residue in acetone wash, mg
W _{imp}	total weight of impingers, grams
W _{sq}	total weight of silica gel, grams
Y	dry gas meter calibration factor, dimensionless

Acronym	Description
ACE	analyzer calibration error
AAS	atomic absorption spectroscopy
ACDP	air contaminant discharge permit
AD	absolute difference
ADL	above detection limit
AETB	Air Emissions Testing Body
APCD	air pollution control device
APCS	air pollution control system
AS	applicable standard (emission limit)
ASTM	American Society For Testing And Materials
BACT	best achievable control technology
BDL	below detection limit
BHP	brake horsepower
BIF	boiler and industrial furnace
BLS	black liquor solids
CARB	California Air Resources Board
CC	confidence coefficient
CD	calibration drift
CE	capture efficiency or collection efficiency
CEM	continuous emissions monitor
CEMS	continuous emissions monitoring system
CERMS	continuous emissions rate monitoring system
CET	calibration error test
CFB	circulating fluidized bed
CFR	Code of Federal Regulations
CGA	cylinder gas audit
CHNOS	elemental analysis for determination of C, H, N, O, and S content in fuels
CNCG	concentrated non-condensable gas
CO	catalytic oxidizer
COC	chain of custody
COMS	continuous opacity monitoring system
CPM	condensable particulate matter
CPMS	continuous parameter monitoring system
CT	combustion turbine
CTM	conditional test method
CTO	catalytic thermal oxidizer
CTS	calibration transfer standard
CVAAS	cold vapor atomic absorption spectroscopy
CVAFS	cold vapor atomic fluorescence spectrometry
De	equivalent diameter
DE	destruction efficiency
DGM	dry gas meter
Dioxins	polychlorinated dibenzo-p-dioxins (PCDDs)
DLL	detection level limited
DNCG	dilute non-condensable gas
EAF	electric arc furnace
ECD	electron capture detector
EGU	electric utility steam generating unit
EIT	Engineer In Training
ELCD	electrolytic conductivity detector (hall detector)
EMPC	estimated maximum possible concentration
EPA	US Environmental Protection Agency
EPRI	Electric Power Research Institute
ES	emission standard (applicable limit)
ESP	electrostatic precipitator
ERT	Electronic Reporting Tool
EU	emission unit
FB	field blank
FCCU	fluid catalytic cracking unit
FGD	flue gas desulfurization
FI	flame ionization

Acronym	Description
FIA	flame ionization analyzer
FID	flame ionization detector
FPD	flame photometric detector
FPM	filterable particulate matter
FTIR	Fourier-transform infrared spectroscopy
FTPb	field train proof blank
FTRb	field train recovery blank
Furans	polychlorinated dibenzofurans (PCDFs)
GC	gas chromatography
GC/MS	gas chromatography/mass spectroscopy
GFAAS	graphite furnace atomic absorption spectroscopy
GFC	gas filter correlation
GHG	greenhouse gas
HAP	hazardous air pollutant
HC	hydrocarbons
HHV	higher heating value
HI	heat input
HPLC	high performance liquid chromatography
HRGC/HRMS	high-resolution gas chromatography/high-resolution mass spectroscopy
HRSG	heat recovery steam generator
IC	ion chromatography
ICAP	inductively-coupled argon plasma emission spectroscopy
ICPCR	ion chromatography with a post-column reactor
ICP-MS	inductively coupled plasma-mass spectroscopy
ICR	information collection request
IR	infrared radiation
ISDL	in-stack detection limit
ISE	ion-specific electrode
ISO	International Standards Organization
kW	kilowatts
LEE	low emitting EGU
LFG	landfill gas
LHV	lower heating value
LPG	liquified petroleum gas
LRGC/LRMS	low-resolution gas chromatography/low-resolution mass spectroscopy
MACT	maximum achievable control technology
MATS	Mercury and Air Toxics Standard
MDI	methylene diphenyl diisocyanate
MDL	method detection limit
MNOC	maximum normal operating conditions
MRL	method reporting limit
MS	mass spectrometry
MSW	municipal solid waste
MWC	municipal waste combustor
NA	not applicable or not available
NCASI	National Council For Air And Steam Improvement
NCG	non-condensable gases
ND	not detected
NDIR	non-dispersive infrared
NDO	natural draft opening
NESHAP	National Emissions Standards For Hazardous Air Pollutants
NG	natural gas
NIOSH	National Institute For Occupational Safety And Health
NIST	National Institute Of Standards And Technology
NMC	non-methane cutter
NMEOC	non-methane, non-ethane organic compounds
NMOC	non-methane organic compounds
NMVOC	non-methane volatile organic compounds
NPD	nitrogen phosphorus detector
NSPS	New Source Performance Standards
OSHA	Occupational Safety And Health Administration

Acronym	Description
PAH	polycyclic aromatic hydrocarbons
PCB	polychlorinated biphenyl compounds
PCWP	plywood and composite wood products
PE	Professional Engineer
PEMS	predictive emission monitoring system
PFAS	per- and polyfluoroalkyl substances (PFAS)
PI	photoionization
PID	photoionization detector
PM	particulate matter
PM ₁₀	particulate matter less than 10 microns in aerodynamic diameter
PM _{2.5}	particulate matter less than 2.5 microns in aerodynamic diameter
PMS	parametric monitoring system
PPE	personal protective equipment
POM	polycyclic organic matter
PS	performance specification
PSD	particle size distribution
PSEL	plant site emission limits
PST	performance specification test
PTE	permanent total enclosure
PTM	performance test method
QA/QC	quality assurance and quality control
QI	Qualified Individual
QSTI	Qualified Source Test Individual
QSTO	Qualified Source Test Observer
RA	relative accuracy
RAA	relative accuracy audit
RACT	reasonably available control technology
RATA	relative accuracy test audit
RCA	response correlation audit
RB	reagent blank
RCTO	rotary concentrator thermal oxidizer
RE	removal or reduction efficiency
RICE	stationary reciprocating internal combustion engine
RM	reference method
RRA	relative response audit
RTO	regenerative thermal oxidizer
SAM	sulfuric acid mist
SCD	sulfur chemiluminescent detector
SCR	selective catalytic reduction system
SD	standard deviation
Semi-VOST	semi-volatile organic compounds sample train
SI ICE	spark ignition internal combustion engine
SLU	scattered light units
SNCR	selective noncatalytic reduction
SRM	standard reference material
SSI	sewage sludge incineration
STMS	sorbent trap monitoring system
TAP	toxic air pollutant
TBD	to be determined
TCA	thermal conductivity analyzer
TCD	thermal conductivity detector
TEF	toxic equivalency factor
TEQ	toxic equivalency quotient
TGNEMOC	total gaseous non-ethane non-methane organic compounds
TGNMOC	total gaseous non-methane organic compounds
TGOC	total gaseous organic compounds
THC	total hydrocarbons
TIC	tentatively identified compound
TO	thermal oxidizer
TO	toxic organic (as in EPA Method TO-15)
TPM	total particulate matter

Abbreviations

Acronym	Description
TSP	total suspended particulate matter
TTE	temporary total enclosure
ULSD	ultra-low sulfur diesel
US EPA	United States Environmental Protection Agency
UV	ultraviolet radiation range
VE	visible emissions
VOC	volatile organic compounds
VOST	volatile organic sample train
WC	water column
WWTP	waste water treatment plant

Acronym	Description
Ag	silver
As	arsenic
Ba	barium
Be	beryllium
Br ₂	bromine
C	carbon
Cd	cadmium
CdS	cadmium sulfide
CH ₂ O	formaldehyde
CH ₃ CHO	acetaldehyde
CH ₃ OH	methanol
CH ₄	methane
C ₂ H ₄ O	ethylene oxide
C ₂ H ₆	ethane
C ₃ H ₄ O	acrolein
C ₃ H ₆ O	propionaldehyde
C ₃ H ₈	propane
C ₆ H ₅ OH	phenol
C ₆ H ₁₄	hexane
Cl ₂	chlorine
ClO ₂	chlorine dioxide
CO	carbon monoxide
Co	cobalt
CO ₂	carbon dioxide
Cr	chromium
Cu	copper
EtO	ethylene oxide
EtOH	ethyl alcohol (ethanol)
H ₂	hydrogen
H ₂ O	water
H ₂ O ₂	hydrogen peroxide
H ₂ S	hydrogen sulfide
H ₂ SO ₄	sulfuric acid
HBr	hydrogen bromide
HCl	hydrogen chloride
HF	hydrogen fluoride
Hg	mercury
IPA	isopropyl alcohol
MDI	methylene diphenyl diisocyanate
MeCl ₂	methylene chloride
MEK	methyl ethyl ketone
MeOH	methanol
Mn	manganese
N ₂	nitrogen
NH ₃	ammonia
Ni	nickel
NO	nitric oxide
NO ₂	nitrogen dioxide
NO _x	nitrogen oxides
O ₂	oxygen
P	phosphorus
Pb	lead
PCDD	polychlorinated dibenzo-p-dioxins
PCDF	polychlorinated dibenzofurans
Sb	antimony
Se	selenium
SO ₂	sulfur dioxide
SO ₃	sulfur trioxide
SO _x	sulfur oxides
TCDD	tetrachlorodibenzodioxin
TCDF	tetrachlorodibenzofuran

Acronym	Description
TGOC	total gaseous organic concentration
THC	total hydrocarbons
TI	thallium
TRS	total reduced sulfur compounds
Zn	zinc

Appendix D2 Manual Test Method QA/QC Data

Barometric Pressure Determination

Date: 07/28/26

Time: 7:00

Data By: SJ, KT, RC

Reference:

<https://forecast.weather.gov/MapClick.php?lat=33.6873&lon=118.66712>

Lat: 34.42972°N Lon: 118.66712°W Elev: 1278.0ft.

Reference Barometer ID	DEL VALLE (DLVC1)
Reference Barometer Location	
Reference Barometer Other Info.	
Reference Barometer Indication, corrected to sea level	29.83
Reference Barometer Reference Elevation	1278
Reference Barometer Actual Pressure	28.55
Test Barometer Location/Site	Chiquita Canyon
Location/Site Elevation	997
Location/Site Barometric Pressure	28.83
Sampling Location Height (above/below site elevation)	45
Sampling Location Barometric Pressure	28.79

SEMI-ANNUAL DRY GAS METER/ORIFICE CALIBRATION

Model #: C-5000
 ID #: 48-WCS
 Date: 4/7/2028
 Bar. Pressure: 29.91 (in. Hg)
 Performed By: A. Dusky
 Reviewed By: S. Adhikari

CRITICAL ORIFICE READINGS									
DRY GAS METER READINGS					ORIFICE				
dH (in H ₂ O)	Time (min)	Volume Initial (cu ft)	Volume Final (cu ft)	Volume Corrected (cu ft)	Initial Temp. (deg F)	Outlet Temp. (deg F)	Inlet Temp. (deg F)	Orifice Serial#	Average
0.13	26.00	475.875	481.215	5.340	82.0	82.0	82.0	AA-33	69.0
0.13	26.00	481.215	486.535	5.320	82.0	82.0	82.0	AA-33	69.0
0.13	26.00	486.535	491.875	5.340	83.0	83.0	83.0	AA-33	70.0
0.67	12.00	458.870	464.375	5.505	79.0	79.0	79.0	QI-48	68.0
0.67	12.00	464.375	468.880	5.505	80.0	80.0	80.0	QI-48	68.0
0.67	12.00	468.880	475.350	5.510	81.0	81.0	81.0	QI-48	68.0
2.10	7.00	441.150	448.735	5.585	77.0	77.0	77.0	QI-63	68.0
2.10	7.00	446.735	452.280	5.545	78.0	78.0	78.0	QI-63	68.0
2.10	7.00	452.280	457.865	5.585	79.0	79.0	79.0	QI-63	68.0
3.80	5.00	424.105	429.420	5.315	74.0	74.0	74.0	AA-73	67.0
3.80	5.00	429.420	434.755	5.335	75.0	75.0	75.0	AA-73	67.0
3.80	5.00	434.755	440.120	5.365	76.0	76.0	76.0	AA-73	68.0

DRY GAS METER									
DRY GAS METER					ORIFICE				
VOLUME CORRECTED (cu ft)	VOLUME CORRECTED (cu ft)	VOLUME CORRECTED (cu ft)	VOLUME CORRECTED (cu ft)	VOLUME CORRECTED (cu ft)	Y Value (number)	dh@ Value (in H ₂ O)	Individual Run	Individual Orifice	Orifice Average
5.200	147.3	5.261	148.0	5.275	1.012	1.730	0.95 < Y < 1.05?	Ymax - Ymin < 0.010?	dh@ - dh@ av < 0.155?
5.176	146.6	5.259	148.9	5.277	1.016	1.739	Pass	Pass	Pass
5.186	146.9	5.256	148.9	5.280	1.014	1.738	Pass	Pass	Pass
				Average	1.014	1.739	Pass	Pass	Pass
5.393	152.7	5.400	152.9	5.409	1.001	1.821	Pass	Pass	Pass
5.383	152.4	5.403	153.0	5.407	1.004	1.815	Pass	Pass	Pass
5.383	152.4	5.403	153.0	5.407	1.004	1.814	Pass	Pass	Pass
				Average	1.003	1.817	Pass	Pass	Pass
5.511	156.1	5.478	155.1	5.482	0.984	1.894	Pass	Pass	Pass
5.461	154.7	5.478	155.1	5.482	1.003	1.891	Pass	Pass	Pass
5.485	155.6	5.478	155.1	5.482	0.997	1.889	Pass	Pass	Pass
				Average	0.998	1.891	Pass	Pass	Pass
5.296	150.0	5.284	149.9	5.288	1.000	1.883	Pass	Pass	Pass
5.306	150.3	5.292	149.9	5.291	0.997	1.881	Pass	Pass	Pass
5.325	150.6	5.289	149.8	5.293	0.993	1.879	Pass	Pass	Pass
				Average	0.997	1.881	Pass	Pass	Pass
Average Yd: 1.003					dh@: 1.832				
					Q @ dh = 1: 0.564				

Performed by signature:

Reviewed by signature:

Note: Control box not equipped with meter inlet temperature reading.

Date: 04-07-26
 Date: 4-7-2026

BI-MONTHLY DRY GAS METER CALIBRATION CHECK

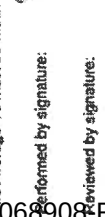
Model #: C-5000
 ID #: 48-WCS
 Date: 8/5/2026
 Bar. Pressure: 29.76 (in. Hg)
 Performed By: A. Dusky
 Reviewed By: S. Adhikari
 Yd from previous semi-annual calibration: 1.003

DRY GAS METER READINGS										CRITICAL ORIFICE READINGS					
dH (in H2O)	Time (min)	Volume		Volume Total (cu ft)	Initial Temps.		Final Temps.		Orifice Serial# (number)	K Orifice Coefficient (see above)	Actual Vacuum (in Hg)	Ambient Temperature		Average (deg F)	
		Initial (cu ft)	Final (cu ft)		Inlet (deg F)	Outlet (deg F)	Inlet (deg F)	Final (deg F)							
0.67	12.00	104.370	109.865	5.495		91.0	91.0	91.0	PK-48	0.3479	17.0	80.0	81.0	80.5	
0.67	12.00	109.865	115.365	5.500		91.0	91.0	91.0	PK-48	0.3479	17.0	81.0	81.0	81.0	
0.67	12.00	115.365	120.875	5.510		91.0	91.0	92.0	PK-48	0.3479	17.0	81.0	82.0	81.5	
1.80	7.00	86.000	93.250	5.250		87.0	87.0	87.0	PK-63	0.5703	16.0	77.0	78.0	77.5	
1.80	7.00	93.250	98.495	5.245		87.0	87.0	88.0	PK-63	0.5703	16.0	78.0	79.0	78.5	
1.80	7.00	98.495	103.755	5.260		88.0	88.0	90.0	PK-63	0.5703	16.0	79.0	78.0	79.0	

DRY GAS METER					ORIFICE		DRY GAS METER		ORIFICE	
DRY GAS METER					ORIFICE		CALIBRATION FACTOR		CALIBRATION FACTOR	
VOLUME CORRECTED V _m (std) (cu ft)	VOLUME CORRECTED V _m (std) (liters)	VOLUME CORRECTED V _c (std) (cu ft)	VOLUME CORRECTED V _c (std) (liters)	VOLUME NOMINAL V _n	Y Value (number)	dH@ Value (in H ₂ O)	CALIBRATION FACTOR		CALIBRATION FACTOR	
							CALIBRATION FACTOR		CALIBRATION FACTOR	
5.244	148.5	5.344	151.3	5.502	1.019	1.811				
5.248	148.6	5.342	151.3	5.505	1.018	1.813				
5.254	148.8	5.338	151.2	5.507	1.016	1.813				
Average					1.018	1.812				
5.081	143.3	5.124	145.1	5.247	1.013	1.814				
5.051	143.1	5.120	145.0	5.252	1.013	1.816				
5.052	143.1	5.117	144.9	5.254	1.013	1.812				
Average					1.013	1.814				

Average Yd: 1.015 dH@: 1.813
 Pass Q @ dH = 1: 0.557

The Average Yd must be within +/- 2% of the most recent semi-annual calibration Yd. If not, perform 4-point calibration.

Performed by signature: 
 Reviewed by signature: 

Date: 6-5-26
 Date: 6-5-2026

BI-MONTHLY DRY GAS METER CALIBRATION CHECK

Model #: C5000
ID #: 48-WCS
Date: 8/10/2026
Bar. Pressure: 28.78 (in. Hg)
Performed By: A. Dusky
Reviewed By: S. Adhikari
Yd from previous semi-annual calibration: 1.003

DRY GAS METER READINGS						CRITICAL ORIFICE READINGS								
dH (in H2O)	Time (min)	Volume Initial (cu ft)	Volume Final (cu ft)	Volume Total (cu ft)	Initial Temps.		Final Temps.		Orifice Serial# (number)	K' Orifice Coefficient (see above)	Actual Vacuum (in Hg)	Initial (deg F)	Ambient Temperature Final (deg F)	Average (deg F)
0.66	12.00	869.615	875.070	5.455		81.0		81.0	QI-48	0.3458	17.0	77.0	77.0	77.0
0.66	12.00	875.070	880.520	5.450		81.0		82.0	QI-48	0.3459	17.0	77.0	78.0	77.5
0.66	12.00	880.520	885.990	5.470		82.0		82.0	QI-48	0.3459	17.0	78.0	78.0	78.0
2.00	7.00	851.825	857.145	5.520		78.0		78.0	QI-63	0.6012	16.0	77.0	78.0	76.5
2.00	7.00	857.145	862.675	5.530		78.0		79.0	QI-63	0.6012	16.0	76.0	78.0	76.0
2.00	7.00	862.675	868.220	5.545		78.0		80.0	QI-63	0.6012	16.0	76.0	78.0	76.0

DRY GAS METER				ORIFICE		DRY GAS METER		ORIFICE	
VOLUME		VOLUME		VOLUME		CALIBRATION FACTOR		CALIBRATION FACTOR	
CORRECTED	CORRECTED	CORRECTED	CORRECTED	CORRECTED	NOMINAL	Y	dh@	Value	(in H2O)
Vm(std)	Vm(std)	Vc(std)	Vc(std)	Vc(std)	Vcr	Value			
(cu ft)	(liters)	(cu ft)	(liters)	(liters)	(cu ft)	(number)			
5.306	150.3	5.334	151.1	5.453	1.005	1.005	1.825		1.825
5.286	150.0	5.332	151.0	5.455	1.007	1.007	1.825		1.825
5.310	150.4	5.329	150.9	5.458	1.004	1.004	1.825		1.825
Average						1.005	1.825		1.825
5.417	153.4	5.411	153.2	5.526	0.989	0.989	1.839		1.839
5.421	153.5	5.413	153.3	5.523	0.989	0.989	1.838		1.838
5.426	153.7	5.413	153.3	5.523	0.988	0.988	1.832		1.832
Average						0.988	1.836		1.836

Average Yd: 1.002 dh@: 1.830
Pass Q @ dh = 1: 0.554

The Average Yd must be within +/- 2% of the most recent semi-annual calibration Yd. If not, perform 4-point calibration.

Performed by signature:

[Signature]

Reviewed by signature:

Date: 8/10/2026
Date: 8/10/2026

DIGITAL TEMPERATURE READOUT CALIBRATION

Digital Temperature Readout ID: 48-WCS
 Readout Description: Control box
 Date: 7/2/2026
 Performed By: JAC; DA, AM

Calibrated Thermocouple ID: TC-Cal
 T1 Reference Thermometer ID: 2786
 T2 Reference Thermometer ID: 2788
 T3 Reference Thermometer ID: 2736

T/C I.D.	Readout I.D.	T/C - Readout °F				Reference Thermometer °F				Difference		
		Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)	
TC-Cal												
T3 (~370 F)	48-WCS	371	371	371	371	370	370	370	370	1.0	0.1%	Pass
T2 (~212 F)	48-WCS	210	210	210	210	212	212	212	212	2.0	0.3%	Pass
T1 (~32 F)	48-WCS	32	32	32	32	32	32	32	32	0.0	0.0%	Pass

- 1) Difference % (°R) = Difference (°F) / (Average Tref + 460)
 2) Pass if all Differences are less than 1.5% (°R)

Thermocouple Source Readings

T/C Source S/N	T/C - Readout °F				T/C Source °F				Difference		
	Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)	
T4 (~650 F)	129103	652	652	652	650	650	650	650	2.0	0.2%	Pass
T3 (~370 F)	129103	375	375	375	370	370	370	370	5.0	0.6%	Pass
T2 (~212 F)	129103	214	214	214	212	212	212	212	2.0	0.3%	Pass
T1 (~32 F)	129103	32	32	32	32	32	32	32	0.0	0.0%	Pass

- 1) Difference % (°R) = Difference (°F) / (Average Tref + 460)
 2) Pass if all Differences are less than 1.5% (°R)

THERMOCOUPLE CALIBRATION

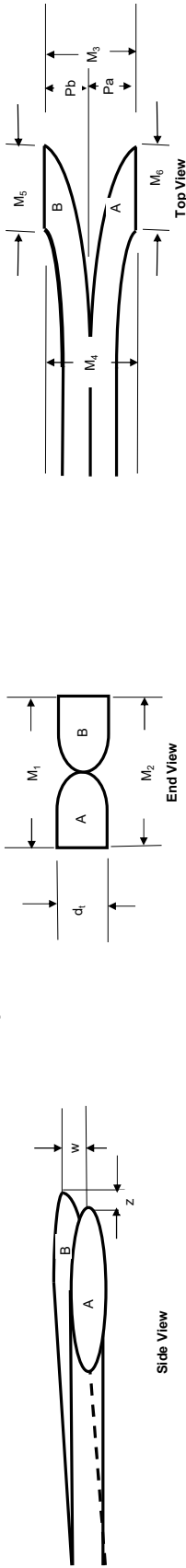
Thermocouple ID: 12-3
Date: 7/2/2026
Performed By: NN, BM, RT

Calibrated Digital Temperature Readout ID: Unit 1
T1 Reference Thermometer ID: 2786
T2 Reference Thermometer ID: 2788
T3 Reference Thermometer ID: 2736

T/C I.D. 12-3	Readout I.D.	T/C - Readout °F				Reference Thermometer °F				Difference		
		Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)	
T3 (~ 370 F)	Unit 1	367	369	370	369	370	370	370	370	1.3	0.2%	Pass
T2 (~ 212 F)	Unit 1	208	214	212	211	212	212	212	212	0.7	0.1%	Pass
T1 (~ 32 F)	Unit 1	35	33	32	33	32	32	32	32	1.3	0.3%	Pass

- 1) Difference % (°R) = Difference (°F) / (Average Tref + 460)
2) Pass if all Differences are less than 1.5% (°R)

S Type Pitot Tube Dimensional Calibration Record



Acceptability Criteria		Pitot ID	Date	Calibrated By	z < 1/8"	w < 1/32"	Yes	"3/16" < Dt < 3/8"	M1	M2	M3	M4	M5	M6	10 degrees	5 degrees	1.05 Dt < P < 1.5 Dt	Status
					Side View, Impact openings Properly aligned, z < 1/8"	Side View, Impact openings Properly aligned, w < 1/32"	Pa = Pb	Tubing Diameter, dt					Average Face Opening Plane Angle, offset from perpendicular to transverse axis	Average Face Opening Plane Frontal Angle from parallel to Longitudinal Axis	Ratio of P/Dt			
12-3	7/2/26	JL/RC			Y	Y	Y	0.375	0.990	0.990	0.980	0.990	0.360	0.350	0.0	-0.8	1.3	Pass

Notes: Reference "A Type-S Pitot Tube Calibration Study", Robert F. Vollaro, October 15, 1975
If tube is not visibly deformed it is assumed that Pa = Pb = .5 x avg. of M1 & M2, and that average face opening plane angles represent individual angles to tube axis

DIFFERENTIAL PRESSURE CALIBRATION

Semi-annual

Display ID: ADM 9
 Description: Air Data Multimeter (ADM 850)
 Serial Number: M14140
 Calibration Date: 7/2/2026

Reference Device ID: Microtector
 Reference Serial Number: S270
 Calibrated By: K. Thomas

Calibration Range		Run 1		Absolute Value	Individual Run Results % Difference	Pass/ Fail
Scale:	0 - 0.050 inches H ₂ O	Measured Value (inches W.C.)	Reference Value (inches W.C.)			
Target 20%	0.010	0.010	0.010	0.0000	0.00%	Pass
Target 40%	0.020	0.020	0.020	0.0000	0.00%	Pass
Target 60%	0.030	0.031	0.030	0.0010	3.33%	Pass
Target 80%	0.040	0.040	0.040	0.0000	0.00%	Pass
Target 100%	0.050	0.051	0.050	0.0010	2.00%	Pass

Calibration Range		Run 2		Absolute Value	Individual Run Results % Difference	Pass/ Fail
Scale:	0 - 0.050 inches H ₂ O	Measured Value (inches W.C.)	Reference Value (inches W.C.)			
Target 20%	0.010	0.010	0.010	0.0000	0.00%	Pass
Target 40%	0.020	0.020	0.020	0.0000	0.00%	Pass
Target 60%	0.030	0.029	0.030	0.0010	3.33%	Pass
Target 80%	0.040	0.039	0.040	0.0010	2.50%	Pass
Target 100%	0.050	0.051	0.050	0.0010	2.00%	Pass

Calibration Range		Run 3		Absolute Value	Individual Run Results % Difference	Pass/ Fail
Scale:	0 - 0.050 inches H ₂ O	Measured Value (inches W.C.)	Reference Value (inches W.C.)			
Target 20%	0.010	0.010	0.010	0.0000	0.00%	Pass
Target 40%	0.020	0.020	0.020	0.0000	0.00%	Pass
Target 60%	0.030	0.029	0.030	0.0010	3.33%	Pass
Target 80%	0.040	0.039	0.040	0.0010	2.50%	Pass
Target 100%	0.050	0.051	0.050	0.0010	2.00%	Pass

Average results for three runs

% Difference	Pass/Fail
1.40%	Pass

Criteria: Each individual measured value within + or - 5.0% of reference value.
 Percent difference of three run average within 5.0 %.

DIFFERENTIAL PRESSURE CALIBRATION
Semi-annual

Display ID: ADM 9
Description: Air Data Multimeter (ADM 850)
Serial Number: M14140
Calibration Date: 7/2/2026

Reference Device ID: Microtector
Reference Serial Number: S270
Calibrated By: K. Thomas

Calibration Range		Run 1		Individual Run Results	
Scale: 0 - 0.100 inches H ₂ O		Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference
Target 20%	0.020	0.020	0.020	0.0000	0.00%
Target 40%	0.040	0.041	0.040	0.0010	2.50%
Target 60%	0.060	0.058	0.060	0.0020	3.33%
Target 80%	0.080	0.082	0.080	0.0020	2.50%
Target 100%	0.100	0.100	0.100	0.0000	0.00%
				Pass/ Fail	
				Pass	
				Pass	
				Pass	
				Pass	
				Pass	

Calibration Range		Run 2		Individual Run Results	
Scale: 0 - 0.100 inches H ₂ O		Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference
Target 20%	0.020	0.020	0.020	0.0000	0.00%
Target 40%	0.040	0.041	0.040	0.0010	2.50%
Target 60%	0.060	0.062	0.060	0.0020	3.33%
Target 80%	0.080	0.083	0.080	0.0030	3.75%
Target 100%	0.100	0.100	0.100	0.0000	0.00%
				Pass/ Fail	
				Pass	
				Pass	
				Pass	
				Pass	
				Pass	

Calibration Range		Run 3		Individual Run Results	
Scale: 0 - 0.100 inches H ₂ O		Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference
Target 20%	0.020	0.020	0.020	0.0000	0.00%
Target 40%	0.040	0.040	0.040	0.0000	0.00%
Target 60%	0.060	0.062	0.060	0.0020	3.33%
Target 80%	0.080	0.081	0.080	0.0010	1.25%
Target 100%	0.100	0.101	0.100	0.0010	1.00%
				Pass/ Fail	
				Pass	
				Pass	
				Pass	
				Pass	
				Pass	

Average results for three runs

% Difference	Pass/Fail
1.57%	Pass

Criteria: Each individual measured value within + or - 5.0% of reference value.
Percent difference of three run average within 5.0 %.

DIFFERENTIAL PRESSURE CALIBRATION

Semi-annual

Display ID: ADM 9
 Description: Air Data Multimeter (ADM 850)
 Serial Number: M14140
 Calibration Date: 7/2/2026

Reference Device ID: Microtector
 Reference Serial Number: S270
 Calibrated By: K. Thomas

Calibration Range		Run 1		Individual Run Results	
Scale: 0 - 1.000 inches H ₂ O		Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	Pass/ Fail
Target 20%	0.200	0.200	0.200	0.0000	Pass
Target 40%	0.400	0.402	0.400	0.0020	Pass
Target 60%	0.600	0.599	0.600	0.0010	Pass
Target 80%	0.800	0.798	0.800	0.0020	Pass
Target 100%	1.000	1.001	1.000	0.0010	Pass

Calibration Range		Run 2		Individual Run Results	
Scale: 0 - 1.000 inches H ₂ O		Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	Pass/ Fail
Target 20%	0.200	0.203	0.200	0.0030	Pass
Target 40%	0.400	0.404	0.400	0.0040	Pass
Target 60%	0.600	0.600	0.600	0.0000	Pass
Target 80%	0.800	0.801	0.800	0.0010	Pass
Target 100%	1.000	1.003	1.000	0.0030	Pass

Calibration Range		Run 3		Individual Run Results	
Scale: 0 - 1.000 inches H ₂ O		Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	Pass/ Fail
Target 20%	0.200	0.196	0.200	0.0040	Pass
Target 40%	0.400	0.393	0.400	0.0070	Pass
Target 60%	0.600	0.593	0.600	0.0070	Pass
Target 80%	0.800	0.807	0.800	0.0070	Pass
Target 100%	1.000	1.005	1.000	0.0050	Pass

Average results for three runs

% Difference	Pass/Fail
0.68%	Pass

Criteria: Each individual measured value within + or - 5.0% of reference value.
 Percent difference of three run average within 5.0 %.

DIFFERENTIAL PRESSURE CALIBRATION

Semi-annual

Display ID: ADM 9
 Description: Air Data Multimeter (ADM 850)
 Serial Number: M14140
 Calibration Date: 7/2/2026

Reference Device ID: Dwyer 0 - 10" Manometer
 Reference Serial Number: CC-2
 Calibrated By: K. Thomas

Calibration Range		Run 1		Absolute Value	Individual Run Results % Difference	Pass/ Fail
Scale:	0 - 10.000 inches H ₂ O	Measured Value (inches W.C.)	Reference Value (inches W.C.)			
Target 20%	2.000	2.020	2.000	0.0200	1.00%	Pass
Target 40%	4.000	4.040	4.000	0.0400	1.00%	Pass
Target 60%	6.000	6.045	6.000	0.0450	0.75%	Pass
Target 80%	8.000	8.055	8.000	0.0550	0.69%	Pass
Target 100%	10.000	10.000	10.000	0.0000	0.00%	Pass

Calibration Range		Run 2		Absolute Value	Individual Run Results % Difference	Pass/ Fail
Scale:	0 - 10.000 inches H ₂ O	Measured Value (inches W.C.)	Reference Value (inches W.C.)			
Target 20%	2.000	2.020	2.000	0.0200	1.00%	Pass
Target 40%	4.000	4.065	4.000	0.0650	1.63%	Pass
Target 60%	6.000	6.080	6.000	0.0800	1.33%	Pass
Target 80%	8.000	8.085	8.000	0.0850	1.06%	Pass
Target 100%	10.000	10.000	10.000	0.0000	0.00%	Pass

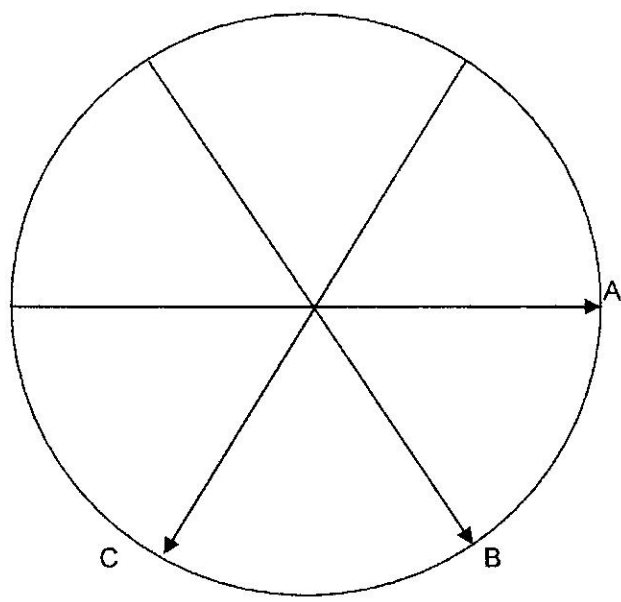
Calibration Range		Run 3		Absolute Value	Individual Run Results % Difference	Pass/ Fail
Scale:	0 - 10.000 inches H ₂ O	Measured Value (inches W.C.)	Reference Value (inches W.C.)			
Target 20%	2.000	1.970	2.000	0.0300	1.50%	Pass
Target 40%	4.000	4.030	4.000	0.0300	0.75%	Pass
Target 60%	6.000	6.075	6.000	0.0750	1.25%	Pass
Target 80%	8.000	8.085	8.000	0.0850	1.06%	Pass
Target 100%	10.000	10.000	10.000	0.0000	0.00%	Pass

Average results for three runs

% Difference	Pass/Fail
0.87%	Pass

Criteria: Each individual measured value within + or - 5.0% of reference value.
 Percent difference of three run average within 5.0 %.

FACILITY: CHH12017A
 SOURCE TESTED: FLAME 1
 CALIBRATED BY: [Signature]
 DATE: 7/26/26



NOZZLE ID	READING (INCHES)			AVG DIA.
	A	B	C	
260T	0.645	0.645	0.649	0.648

Calibrated by:

[Signature]

Measuring Device Used : Mitutoyo Digital Calipers
 Serial Number : 0247955
 Model Number : CD-6" CS
 Resolution : 0.01mm or 0.0005"/0.01mm
 Accuracy : $\pm 0.02\text{mm}$ or $\pm 0.001"/\pm 0.02\text{mm}$

Appendix D3 Instrumental Test Method QA/QC Data

CEMS PERFORMANCE DATA SHEET

Client: Chiquita Canyon Landfill Date: 7/28/2026
 Location: Flare 1 Performed By: SJ, KT, RC
 CEMS ID#: T4

Analyzer:	O ₂	CO ₂	NO _x	CO		
Manufacturer:	CAI	Sevomex	CAI	TECO		
Serial Number:	U08069	2745	B04012	JC1227100397		
CEMS Probe:	Material:	Titanium	Length:	13'	Gas Temp:	1509 °F
Heated Line	Material:	Teflon	Length:	30'		252 °F
Sample Conditioner:			Type:	Universal		32.5 °F
CEMS Line:	Material:	Teflon	Length:	100'		
Bias Line:	Material:	Teflon	Length:	100'		
Upscale Response Time:		23	Downscale Response Time:		25	seconds
Sample Pressure (psi):		6	Sample Flow Rate:		5	LPM

Chiquita Flare 1 Compliance 2026
 9/25/2026
 11:38 AM

SPAN GAS RECORD AND SCAQMD CALIBRATION ERROR/LINEARITY

CLIENT/LOCATION: Chiquita Canyon Landfill Flare 1

DATE: 7/28/26

TRUCK/CEM I.D.: T4

BY: SJ, KT, RC

	Gas	Cylinder #	Value	Exp. Date	Vendor ID	% of Range
ZERO	Low	EB0153435	0.0	5/22/34	NA	
O₂	Mid	EB0112960	8.79	5/21/34	B32026	43.9%
O₂	High	CC360644	18.11	7/13/34	B32026	90.6%
CO₂	Mid	EB0112960	8.85	5/21/34	B32026	44.2%
CO₂	High	CC360644	17.84	7/13/34	B32026	89.2%
NO_x	Mid	AAL071561	10.47	12/22/28	B32025	41.9%
NO_x	High	XC034785B	22.50	4/16/28	B32025	90.0%
NO₂	NO₂	CC364790	17.80	5/27/27	F22026	
CO	Mid	CC57706	45.07	2/25/34	B32026	45.1%
CO	High	CC1442	90.18	9/13/30	B32022	90.2%

PRE-TEST INSTRUMENT CALIBRATION ERROR

	ANALYZER					STATUS
	O ₂	CO ₂	NO _x	CO		
Analyzer Range	20	20	25	100		
Zero Gas Value	0.0	0.0	0.0	0.0		--
Analyzer Reads	-0.01	-0.02	-0.01	-0.03		--
Error (% of scale)	0.0%	-0.1%	0.0%	0.0%		PASS
High Gas Value	18.11	17.84	22.50	90.18		--
Analyzer Reads	18.11	17.99	22.51	91.94		--
Error (% of scale)	0.0%	0.7%	0.0%	1.8%		PASS
Mid Gas Value	8.79	8.85	10.47	45.07		--
Analyzer Reads	8.73	8.71	10.40	45.72		--
Error (% of scale)	-0.3%	-0.7%	-0.3%	0.7%		PASS
Linearity at Mid Point	-0.3%	-1.0%	-0.3%	-0.2%		PASS

POST-TEST INSTRUMENT CALIBRATION ERROR

	ANALYZER					STATUS
	O ₂	CO ₂	NO _x	CO	SO ₂	
Analyzer Range	20	20	25	100		
Zero Gas Value	0.0	0.0	0.0	0.0		--
Analyzer Reads	-0.09	-0.03	0.01	-0.06		--
Error (% of scale)	-0.4%	-0.2%	0.0%	-0.1%		PASS
High Gas Value	18.11	17.84	22.50	90.18		--
Analyzer Reads	17.97	17.96	22.57	90.39		--
Error (% of scale)	-0.7%	0.6%	0.3%	0.2%		PASS
Mid Gas Value	8.79	8.85	10.47	45.07		--
Analyzer Reads	8.62	8.85	10.40	44.96		--
Error (% of scale)	-0.9%	0.0%	-0.3%	-0.1%		PASS
Linearity at Mid Point	-0.3%	-0.2%	-0.4%	-0.2%		PASS

NO₂ to NO Converter Efficiency Test

Analyzer Manufacturer: CAI	NO Cal Gas Value: 22.50
Analyzer Model: 600	NO ₂ Cal Gas Value: 17.80
Analyzer Serial Number: B04012	Performed By: SJ, KT, RC
Date: 7/28/26	CEMS ID#: T4

GAS	ANALYZER MODE	ANALYZER RESPONSE	CAL CORRECTED	LABEL
Zero	NO _x	0.00	--	--
Zero	NO	-0.01	--	--
NO	NO _x	22.51	--	--
NO	NO	22.53	--	--
NO ₂	NO	-0.01	0.0	C ₁
NO ₂	NO _x	16.53	16.5	C ₂

		Label	Requirement
Abs. Value C ₀ -C ₁ :	17.8	D ₁	--
Abs. Value C ₂ -C ₁ :	16.5	D ₂	--
C ₁ /C ₂	0%	D ₃	< 5%
CE = D ₂ /D ₁ * 100%:	93%	--	> 90%

Cylinder #	Exp. Date
NO bottle: XC034785B	4/16/2028
NO ₂ bottle: CC364790	5/27/2027

CERTIFICATE OF BATCH ANALYSIS

Grade of Product: CEM-CAL ZERO

Part Number:	NI CZ15A	Reference Number:	48-403641784-1
Cylinder Analyzed:	ALM-034352	Cylinder Volume:	142.0 CF
Laboratory:	124 - Los Angeles - CA	Cylinder Pressure:	2000 PSIG
Analysis Date:	May 22, 2026	Valve Outlet:	580
Lot Number:	48-403641784-1		

Expiration Date: May 22, 2034

ANALYTICAL RESULTS

Component	Requested Purity	Certified Concentration
NITROGEN	99.9995 %	99.9995 %
NOX	0.1 PPM	<LDL 0.018 PPM
SULFUR DIOXIDE	0.1 PPM	<LDL 0.020 PPM
THC	0.1 PPM	<LDL 0.001 PPM
CARBON MONOXIDE	0.5 PPM	<LDL 0.016 PPM
CARBON DIOXIDE	1.0 PPM	0.100 PPM

Permanent Notes: Airgas certifies that the contents of this cylinder meet the requirements of 40 CFR 72.2

Cylinders in Batch:

ALM-034352, CC10844, CC110588, CC336991, CC452567, EB0053600, EB0153435, EB0153537

Impurities verified against analytical standards traceable to NIST by weight and/or analysis.



N₂

EB0153435

EXP. 05-22-2034

Approved for Release

LO 06-09-26

Page 1 of 1

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E03NI82E15A0012	Reference Number:	48-403637730-1
Cylinder Number:	EB0112960	Cylinder Volume:	150.0 CF
Laboratory:	124 - Los Angeles - CA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B32026	Valve Outlet:	590
Gas Code:	CO2,O2,BALN	Certification Date:	May 21, 2026

Expiration Date: May 21, 2034

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted. The results relate only to the items tested. The report shall not be reproduced except in full without approval of the laboratory. Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON DIOXIDE	8.750 %	8.845 %	G1	+/- 1.1% NIST Traceable	05/21/2026
OXYGEN	8.750 %	8.785 %	G1	+/- 0.6% NIST Traceable	05/21/2026
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	08010615	K011262	13.94 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Aug 31, 2029
NTRM	090602-4	CC261276	9.961 % OXYGEN/NITROGEN	+/- 0.3%	Jun 27, 2030

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
SIEMENS 6E CO2	NDIR	Apr 27, 2026
SIEMENS OXYMAT 6	PARAMAGNETIC	Apr 25, 2026

Triad Data Available Upon Request



O₂ 8.785%
CO₂ 8.845%
EB0112960
EXP. 05-21-2034
B32026

[Signature]
Approved for Release

LC 06-05-26

Page 1 of 1

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E03NI64E15AC041	Reference Number:	48-403677069-1
Cylinder Number:	CC360644	Cylinder Volume:	158.0 CF
Laboratory:	124 - Los Angeles - CA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B32026	Valve Outlet:	590
Gas Code:	CO2,O2,BALN	Certification Date:	Jul 13, 2026

Expiration Date: Jul 13, 2034

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted. The results relate only to the items tested. The report shall not be reproduced except in full without approval of the laboratory. Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON DIOXIDE	18.00 %	17.84 %	G1	+/- 0.8% NIST Traceable	07/13/2026
OXYGEN	18.00 %	18.11 %	G1	+/- 0.3% NIST Traceable	07/13/2026
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	05010335	K026203	17.87 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 11, 2028
NTRM	22060528	CC745036	23.124 % OXYGEN/NITROGEN	+/-0.2%	Mar 31, 2028

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
SIEMENS 6E CO2	NDIR	Jun 29, 2026
SIEMENS OXYMAT 6	PARAMAGNETIC	Jun 29, 2026

Triad Data Available Upon Request



O₂ 18.11%.

CO₂ 17.84%.

CC360644

EXP. 07-13-2034

B32026

[Signature]

Approved for Release

LO 07-31-26

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E02NI99E15AC006	Reference Number:	48-403509928-1
Cylinder Number:	AAL071561	Cylinder Volume:	144.0 CF
Laboratory:	124 - Los Angeles - CA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B32025	Valve Outlet:	660
Gas Code:	NO,NOX,BALN	Certification Date:	Dec 22, 2025

Expiration Date: Dec 22, 2028

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted. The results relate only to the items tested. The report shall not be reproduced except in full without approval of the laboratory. Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	11.00 PPM	10.47 PPM	G1	+/- 0.7% NIST Traceable	12/15/2025, 12/22/2025
NITRIC OXIDE	11.00 PPM	10.41 PPM	G1	+/- 0.7% NIST Traceable	12/15/2025, 12/22/2025
NITROGEN	Balance				

CALIBRATION STANDARDS

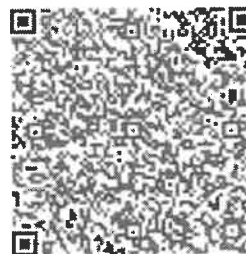
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
GMIS	CK275-2A	KAL004391	10.14 PPM NITRIC OXIDE/NITROGEN	+/- 0.6%	Jan 10, 2027
PRM	C2300301.04B	APE1516613	10.00 PPM NITRIC OXIDE/NITROGEN	+/- 0.5%	Jun 11, 2028
GMIS	CK275-2A	KAL004391-NOX	10.19 PPM NOX/NITROGEN	+/- 0.6%	Jan 10, 2027
PRM	C2300301.04B	APE1516613-NOX	10.01 PPM NOX/NITROGEN	+/- 0.5%	Jun 11, 2028

The SRM, NTRM, PRM, or RGM noted above is only in reference to the GMIS used in the assay and not part of the analysis.

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Thermo 42-ILS 1115848421 NO	Chemiluminescence	Dec 01, 2025
Thermo 42-ILS 1115848421 NOx	Chemiluminescence	Dec 01, 2025

Triad Data Available Upon Request



NOX 10.47 PPM
AAL071561
EXP. 12/22/2028
B32025

AM 01-05-26

Approved for Release

Page 1 of 1

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E02NI99E15AC051	Reference Number:	48-403312831-1
Cylinder Number:	XC034785B	Cylinder Volume:	144.0 CF
Laboratory:	124 - Los Angeles - CA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B32025	Valve Outlet:	660
Gas Code:	NO,NOX,BALN	Certification Date:	Apr 16, 2025

Expiration Date: Apr 16, 2028

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted. The results relate only to the items tested. The report shall not be reproduced except in full without approval of the laboratory. Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	22.00 PPM	22.50 PPM	G1	+/- 1.0% NIST Traceable	04/09/2025, 04/16/2025
NITRIC OXIDE	22.00 PPM	22.45 PPM	G1	+/- 1.0% NIST Traceable	04/09/2025, 04/16/2025
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
GMIS	DDCK092720220	CC733061	19.50 PPM NITRIC OXIDE/NITROGEN	+/- 0.8%	Sep 27, 2025
PRM	12403	APEX1324265	20.00 PPM NITRIC OXIDE/NITROGEN	+/- 0.5%	Dec 22, 2023
GMIS	DDCK092720220	CC733061-NOX	19.52 PPM NOx/NITROGEN	+/- 0.6%	Sep 27, 2025
PRM	12403	APEX1324265-NOx	20.02 PPM NOx/NITROGEN	+/- 0.5%	Dec 22, 2023

The SRM, NTRM, PRM, or RGM noted above is only in reference to the GMIS used in the assay and not part of the analysis.

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Thermo 42-ILS 1115848421 NO	Chemiluminescence	Apr 10, 2025
Thermo 42-ILS 1115848421 NOx	Chemiluminescence	Apr 10, 2025

Triad Data Available Upon Request



NOX 22.50 PPM
XC034785B
EXP. 04/16/2028
B32025

Approved for Release

LO 06/04/25
Page 1 of 1



Making our world
more productive

DocNumber: 620545



Linde Gas & Equipment Inc.
5700 S. Alameda Street
Los Angeles CA 90058
Tel: 323-585-2154
Fax: 714-542-6689
PGVP ID: F22026

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information

MONTROSE AIR QUALITY SERVICES
1631 E ST ANDREWS PLACE
SANTA ANA CA 92705-4932

Certificate Issuance Date: 05/29/2026

Linde Order Number: 73532800

Part Number: AI NX17MZE-AS

Customer PO Number: 81558061

Fill Date: 04/24/2026

Lot Number: 70086611402E

Cylinder Style & Outlet: AS

CGA 660

Cylinder Pressure and Volume: 2000 psig 140 ft3

Certified Concentration

Expiration Date:	05/27/2027	NIST Traceable
Cylinder Number:	CC364790	Expanded Uncertainty
17.8 ppm	Nitrogen dioxide (as NOx)	± 0.3 ppm
Balance	Air	

ProSpec EZ Cert



For Reference Only:

HNO3 0.2 ppm

Certification Information:

Certification Date: 05/27/2026

Term: 12 Months

Expiration Date: 05/27/2027

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Uncertainty above is expressed as absolute expanded uncertainty at a level of confidence of approximately 95% with a coverage factor k = 2. Do Not Use this Standard if Pressure is less than 100 PSIG.

The above certified concentration of Total Oxides of Nitrogen (NOx) excludes HNO3.

Analytical Data:

(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)

1. Component: Nitrogen dioxide (as NOx)

Requested Concentration: 17 ppm
Certified Concentration: 17.8 ppm
Instrument Used: MKS 2 MultiGas 2031 FTIR
Analytical Method: FTIR
Last Multipoint Calibration: 05/18/2026

Reference Standard: Type / Cylinder #: GMIS / ND7387

Concentration / Uncertainty: 25.2 ppm ± 0.4 ppm

Expiration Date: 04/16/2027

Traceable to: SRM # / Sample # / Cylinder #: PRM# / C2516001.02 / D043843

SRM Concentration / Uncertainty: 250.3 ppm / ± 2.5 ppm

SRM Expiration Date: 01/15/2027

First Analysis Data:				Date	05/20/2026
Z:	0	R:	25.16	C:	17.65
R:	25.23	Z:	0	C:	17.74
Z:	0	C:	17.71	R:	25.21
UOM:	ppm	Mean Test Assay:	17.7	ppm	

Second Analysis Data:				Date	05/27/2026
Z:	0	R:	25.19	C:	17.79
R:	25.21	Z:	0	C:	17.8
Z:	0	C:	17.78	R:	25.18
UOM:	ppm	Mean Test Assay:	17.8	ppm	

Analyzed By

Henry Koung

Certified By

Courtney Zielke

NO₂ 17.8 ppm

CC364790

EXP. 05-27-2027

F22026

LO 06-12-26

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E02NI99E15AC055	Reference Number:	48-403565057-1
Cylinder Number:	CC57706	Cylinder Volume:	144.0 CF
Laboratory:	124 - Los Angeles - CA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B32026	Valve Outlet:	350
Gas Code:	CO,BALN	Certification Date:	Feb 25, 2026

Expiration Date: Feb 25, 2034

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted. The results relate only to the items tested. The report shall not be reproduced except in full without approval of the laboratory. Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON MONOXIDE	45.00 PPM	45.07 PPM	G1	+/- 0.7% NIST Traceable	02/25/2026
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
GMIS	20240109NG6	CC47692	49.78 PPM CARBON MONOXIDE/NITROGEN	+/- 0.5%	Jan 24, 2032
SRM	1678c	CAL016939	49.07 PPM CARBON MONOXIDE/NITROGEN	+/- 0.4%	Apr 22, 2029

The SRM, NTRM, PRM, or RGM noted above is only in reference to the GMIS used in the assay and not part of the analysis.

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet iS50 AUP2010243 CO	FTIR	Feb 20, 2026

Triad Data Available Upon Request



CO 45.07 ppm
CC57706
Exp. 02-25-2034
B32026

[Signature]

LW 05-14-26

Approved for Release

Page 1 of 1

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E02NI99E15AC672	Reference Number:	48-402541563-1
Cylinder Number:	CC1442	Cylinder Volume:	144.0 CF
Laboratory:	124 - Los Angeles (SAP) - CA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B32022	Valve Outlet:	350
Gas Code:	CO,BALN	Certification Date:	Sep 13, 2022

Expiration Date: Sep 13, 2030

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON MONOXIDE	90.00 PPM	90.18 PPM	G1	+/- 1.0% NIST Traceable	09/13/2022
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	09010246	KAL004905	98.48 PPM CARBON MONOXIDE/NITROGEN	+/- 0.5%	Oct 16, 2024

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet iS50 AUP2110317 CO	FTIR	Aug 17, 2022

Triad Data Available Upon Request



CO 90.18 ppm

CC1442

Exp. 09/13/30

B32022


Approved for Release

JS 9/15/23

Page 1 of 1

Appendix D4 Accreditation Information / Certifications



**South Coast
Air Quality Management District**

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

May 15, 2026

Mr. John Peterson
Onterris Air Quality Services, LLC (previously Montrose Air Quality Services, LLC)
1631 E. Saint Andrew Place
Santa Ana, CA 92705

Subject: LAP Approval Notice
Reference # 96LA1220

Dear Mr. Peterson:

We have completed our review of Onterris Air Quality Services' renewal application under the South Coast AQMD Laboratory Approval Program (LAP). We are pleased to inform you that your firm is approved for the period beginning September 30, 2025, and ending September 30, 2026, for the following methods, subject to the requirements in the LAP Conditions For Approval Agreement and conditions listed in the attachment to this letter:

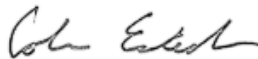
South Coast AQMD Methods 1-4
South Coast AQMD Methods 10.1 and 100.1
South Coast AQMD Methods 5.1, 5.2, 5.3, 6.1 (Sampling and Analysis)
South Coast AQMD Methods 25.1 and 25.3 (Sampling)
Rule 1121/ 1146.2 Protocol
Rule 1420/1420.1/1420.2 – (Lead) Source and Ambient Sampling
USEPA CTM-030 and ASTM D6522-00

Your LAP approval to perform nitrogen oxide emissions compliance testing for Rule 1121/ 1146.2 Protocols includes satellite facilities located at:

McKenna Boiler 1510 North Spring Street Los Angeles, CA 90012	Noritz America Corp. 11160 Grace Avenue Fountain Valley, CA 92708	Ajax Boiler, Inc. 2701 S. Harbor Blvd. Santa Ana, CA 92704
VA Laundry Bldg., Greater LA Healthcare Sys. 508 Constitution Avenue Los Angeles, CA 90049	So Cal Gas – Engr Analysis Ctr, Bldg H 8101 Rosemead Blvd Pico Rivera, CA 90660	

Thank you for participating in the LAP. Your cooperation helps us to achieve the goal of the LAP: to maintain high standards of quality in the sampling and analysis of source emissions. You may direct any questions or information to me by telephone at (909) 396-2476, or via e-mail at ceckerle@aqmd.gov.

Sincerely,



Colin Eckerle
Program Supervisor
Source Test Engineering

CE/ce
Attachment
260515 LapRenewal.doc



American Association for Laboratory Accreditation

Accredited Air Emission Testing Body

A2LA has accredited

ONTERRIS AIR QUALITY SERVICES, LLC

In recognition of the successful completion of the joint A2LA and Source Evaluation Society (SES) evaluation process, this laboratory is accredited to perform testing activities in compliance with ASTM D7036:2004 - Standard Practice for Competence of Air Emission Testing Bodies.



Presented this 23rd day of January 2026.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3925.01
Valid to February 29, 2028
Revised April 27, 2026

This accreditation program is not included under the A2LA ILAC Mutual Recognition Arrangement.

CERTIFICATE OF COMPLETION	
Pedro SanJuan	
This document certifies that this individual has passed a comprehensive examination and is now a Qualified Individual (QI) as defined in Section 8.3 of ASTM D7036-04 for the following method(s):	
SCAQMD Methods 1.1, 1.2, 2.1, 2.2, 2.3, 3.1, & 4.1	
Certificate Number: <u>002-2022-50</u>	
 Tate Strickler, VP – Quality Systems	DATE OF ISSUE: <u>02/28/2022</u> DATE OF EXPIRATION: <u>02/27/2027</u>
 MONTROSE ENVIRONMENTAL	

CERTIFICATE OF COMPLETION

Pedro SanJuan

This document certifies that this individual has passed a comprehensive examination and is now a Qualified Individual (QI) as defined in Section 8.3 of ASTM D7036-04 for the following method(s):

SCAQMD Methods 5.1, 5.2, 5.3, 5.4, & 6.1

Certificate Number: 002-2022-51

Tate Strickler

Tate Strickler, VP – Quality Systems

DATE OF ISSUE: 02/28/2022

DATE OF EXPIRATION: 02/27/2027



CERTIFICATE OF COMPLETION	
Pedro SanJuan	
This document certifies that this individual has passed a comprehensive examination and is now a Qualified Individual (QI) as defined in Section 8.3 of ASTM D7036-04 for the following method(s):	
SCAQMD Methods 25.1, 25.3 & 307-91	
Certificate Number: <u>002-2022-52</u>	
 Tate Strickler, VP – Quality Systems	DATE OF ISSUE: <u>02/28/2022</u> DATE OF EXPIRATION: <u>02/27/2027</u>
 MONTROSE ENVIRONMENTAL	

CERTIFICATE OF COMPLETION	
Pedro SanJuan	
This document certifies that this individual has passed a comprehensive examination and is now a Qualified Individual (QI) as defined in Section 8.3 of ASTM D7036-04 for the following method(s):	
SCAQMD Method 100.1	
Certificate Number: <u>002-2022-55</u>	
 Tate Strickler, VP – Quality Systems	DATE OF ISSUE: <u>03/07/2022</u>
	DATE OF EXPIRATION: <u>03/06/2027</u>
 MONTROSE ENVIRONMENTAL	

Appendix D5 Statement of No Conflict of Interest

Statement of No Conflict of Interest

(To be completed by authorized source testing firm representative and included in source test report)

The following facility and equipment were tested by my source testing firm and are the subjects of this statement:

Facility ID:	119219
Date(s) Tested:	7/28/2026
Facility Name:	Chiquita Canyon Landfill
Equipment Address:	29201 Henry Mayo Drive
	Castaic, California 91384
Equipment Tested:	Flare 1
Device ID, A/N, P/N:	P/N: G73696

I state, as its legally authorized representative, that the source testing firm of:

Source Test Firm: Onterris Air Quality Services, LLC

Business Address: 1631 E. St. Andrew Pl.
Santa Ana, California 92705

is an "Independent Testing Laboratory" as defined in ***District Rule 304(k)***:

For the purposes of this Rule, when an independent testing laboratory is used for the purposes of establishing compliance with District rules or to obtain a District permit to operate, it must meet all of the following criteria:

- (1) *The testing laboratory shall have no financial interest in the company or facility being tested, or in the parent company, or any subsidiary thereof -*
- (2) *The company or facility being tested, or parent company or any subsidiary thereof, shall have no financial interest in the testing laboratory;*
- (3) *Any company or facility responsible for the emission of significant quantities of pollutants to the atmosphere, or parent company or any subsidiary thereof shall have no financial interest in the testing laboratory; and*
- (4) *The testing laboratory shall not be in partnership with, own or be owned by, in part or in full, the contractor who has provided or installed equipment (basic or control), or monitoring systems, or is providing maintenance for installed equipment or monitoring systems, for the company being tested.*

Furthermore, I state that any contracts or agreements entered into by my source testing firm and the facility referenced above, or its designated contractor(s), either verbal or written, are not contingent upon the outcome of the source testing, or the source testing information provided to the SCAQMD.

Signature: _____

Date: 9/25/2026

Pete San Juan

Client Project Manager

(714) 279-6777

9/25/2026

(Name)

(Title)

(Phone)

(Date)

Appendix D6 QA Program Summary / Equipment Calibration Schedule

Quality Assurance Program Summary

As part of Onterris ASTM D7036-04 certification, Onterris is committed to providing emission related data which is complete, precise, accurate, representative, and comparable. Onterris quality assurance program and procedures are designed to ensure that the data meet or exceed the requirements of each test method for each of these items. The quality assurance program consists of the following items:

- Assignment of an Internal QA Officer
- Development and use of an internal QA Manual
- Personnel training
- Equipment maintenance and calibration
- Knowledge of current test methods
- Chain-of-custody
- QA reviews of test programs

Assignment of an Internal QA Officer: Onterris has assigned an internal QA Officer who is responsible for administering all aspects of the QA program.

Internal Quality Assurance Manual: Onterris has prepared a QA Manual according to the requirements of ASTM D7036-04 and guidelines issued by EPA. The manual documents and formalizes all of Onterris' QA efforts. The manual is revised upon periodic review and as Onterris adds capabilities. The QA manual provides details on the items provided in this summary.

Personnel Testing and Training: Personnel testing and training is essential to the production of high quality test results. Onterris training programs include:

- A requirement for all technical personnel to read and understand the test methods performed
- A requirement for all technical personnel to read and understand the Onterris QA manual
- In-house testing and training
- Quality Assurance meetings
- Third party testing where available
- Maintenance of training records.

Equipment Maintenance and Calibration: All laboratory and field equipment used as a part of Onterris emission measurement programs is maintained according to manufacturer's recommendations. A summary of the major equipment maintenance schedules is summarized in Table 1. In addition to routine maintenance, calibrations are performed on all sampling equipment according to the procedures outlined in the applicable test method. The calibration intervals and techniques for major equipment components is summarized in Table 2. The calibration technique may vary to meet regulatory agency requirements.

Knowledge of Current Test Methods: Onterris maintains current copies of EPA, ARB, and SCAQMD Source Test Manuals and Rules and Regulations.

Chain-of-Custody: Onterris maintains chain-of-custody documentation on all data sheets and samples. Samples are stored in a locked area accessible only to Onterris source test personnel. Data sheets are kept in the custody of the originator, program manager, or in locked storage until return to Onterris' office. Electronic field data is duplicated for backup on secure storage media. The original data sheets are used for report preparation and any additions are initialed and dated.

QA Reviews: Periodic field, laboratory, and report reviews are performed by the in-house QA coordinator. Periodically, test plans are reviewed to ensure proper test methods are selected and reports are reviewed to ensure that the methods were followed and any deviations from the methods are justified and documented.

ASTM D7036-04 Required Information

Uncertainty Statement

Onterris is qualified to conduct this test program and has established a quality management system that led to accreditation with ASTM Standard D7036-04 (Standard Practice for Competence of Air Emission Testing Bodies). Onterris participates in annual functional assessments for conformance with D7036-04 which are conducted by the American Association for Laboratory Accreditation (A2LA). All testing performed by Onterris is supervised on site by at least one Qualified Individual (QI) as defined in D7036-04 Section 8.3.2. Data quality objectives for estimating measurement uncertainty within the documented limits in the test methods are met by using approved test protocols for each project as defined in D7036-04 Sections 7.2.1 and 12.10. Additional quality assurance information is included in the appendices. The content of this test plan is modeled after the EPA Emission Measurement Center Guideline Document (GD-042).

Performance Data

Performance data are available for review.

Qualified Personnel

A qualified individual (QI), defined by performance on a third party or internal test on the test methods, is present on each test event.

Plant Entry and Safety Requirements

Plant Entry

All test personnel are required to check in with the guard at the entrance gate or other designated area. Specific details are provided by the facility and project manager.

Safety Requirements

All personnel shall have the following personal protective equipment (PPE) and wear them where designated:

- Hard Hat
- Safety Glasses
- Steel Toe Boots
- Hearing Protection
- Gloves
- High Temperature Gloves (if required)
- Flame Resistant Clothing (if required)

The following safety measures are followed:

- Good housekeeping
- SDS for all on-site hazardous materials
- Confine selves to necessary areas (stack platform, mobile laboratory, CEMS data acquisition system, control room, administrative areas)
- Knowledge of evacuation procedures

Each facility will provide plant specific safety training.

Table 1 Equipment Maintenance Schedule

Equipment	Acceptance Limits	Frequency of Service	Methods of Service
Pumps	1. Absence of leaks 2. Ability to draw manufacturers required vacuum and flow	As recommended by manufacturer	1. Visual inspection 2. Clean 3. Replace parts 4. Leak check
Flow Meters	1. Free mechanical movement	As recommended by manufacturer	1. Visual inspection 2. Clean 3. Calibrate
Sampling Instruments	1. Absence of malfunction 2. Proper response to zero span gas	As recommended by manufacturer	As recommended by manufacturer
Integrated Sampling Tanks	1. Absence of leaks	Depends on nature of use	1. Steam clean 2. Leak check
Mobile Van Sampling System	1. Absence of leaks	Depends on nature of use	1. Change filters 2. Change gas dryer 3. Leak check 4. Check for system contamination
Sampling Lines	1. Sample degradation less than 2%	After each test series	1. Blow dry, inert gas through line until dry

Table 2 Major Sampling Equipment Calibration Requirements

Sampling Equipment	Calibration Frequency	Calibration Procedure	Acceptable Calibration Criteria
Continuous Analyzers	Before and After Each Test Day	3-point calibration error test	< 2% of analyzer range
Continuous Analyzers	Before and After Each Test Run	2-point sample system bias check	< 5% of analyzer range
Continuous Analyzers	After Each Test Run	2-point analyzer drift determination	< 3% of analyzer range
CEMS System	Beginning of Each Day	leak check	< 1 in. Hg decrease in 5 min. at > 20 in. Hg
Continuous Analyzers	Semi-Annually	3-point linearity	< 1% of analyzer range
NO _x Analyzer	Daily	NO ₂ -> NO converter efficiency	> 90%
Differential Pressure Gauges (except for manometers)	Semi-Annually	Correction factor based on 5-point comparison to standard	± 5%
Differential Pressure Gauges (except for manometers)	Bi-Monthly	3-point comparison to standard, no correction factor	± 5%
Barometer	Semi-Annually	Adjusted to mercury-in-glass or National Weather Service Station	± 0.1 inches Hg
Dry Gas Meter	Semi-Annually	Calibration check at 4 flow rates using a NIST traceable standard	± 2%
Dry Gas Meter	Bi-Monthly	Calibration check at 2 flow rates using a NIST traceable standard	± 2% of semi-annual factor
Dry Gas Meter Orifice	Annually	4-point calibration for $\Delta H@$	--
Temperature Sensors	Semi-Annually	3-point calibration vs. NIST traceable standard	± 1.5%

Note: Calibration requirements that meet applicable regulatory agency requirements are used.

Appendix E Permit Excerpts



FACILITY PERMIT TO OPERATE CHIQUITA CANYON LLC

PERMIT TO OPERATE

Permit No. G73696
A/N 645450

Equipment Description:

Landfill gas flare system consisting of:

1. Two (2) HDPE Moisture Separators, One (1) 5'-0" Dia. x 10'-6" H and One (1) 4'-0" Dia. x 10'-0" H, Common with Flare no.1, Flare no.2, and Flare no. 3 (A/N 624296).
2. Two (2) Landfill Gas Blowers, 6,000 scfm each, 250 HP each and Two (2) Multi-stage Centrifugal Blowers, 4,000 scfm each, 150 HP each, Common with Flare no.1, Flare no.2, and Flare no. 3 (A/N 624296).
3. Condensate injection system with 1 GPM per Nozzle, Electric Condensate Pumps, Common with Flare no.1, Flare no.2, and Flare no. 3 (A/N 624296).
4. Automated ignition system with propane gas pilot assembly, ignition transformer, and two 5-gallon capacity propane tanks, Common with Flare no. 1 and Flare no. 2.
5. Flare, no. 1, John Zink, Model ZTOF, 11'-4" Dia. x 50'-0" H., rated at 4000 scfm capacity, 120 mmBTU per hour with a flame arrestor, UV scanner, four automatic combustion air dampers and flare alarm system.
6. Enclosed flare, no. 2, John Zink, Zink ultra-low emission (ZULE), 12'-0" Dia. x 50'-0" H., maximum heat input of 120 mmBTU per hour of landfill gas, with a combustion air blower, combustion air/LFG mixing chamber, a flame arrestor, UV scanner, electric igniter, propane gas pilot, louvers, automatic landfill gas flow and flare temperature control system, and an automatic flare shutdown and alarm system.

Conditions:

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.
[Rule 204]
2. This equipment shall be properly maintained and kept in good operating condition at all times.
[Rule 204]
3. This equipment shall be operated and maintained by personnel properly trained in its operation.
[Rule 204]
4. Each flare shall be equipped with a temperature indicator and recorder which measures and records the exhaust gas temperature in each flare stack. The temperature indicator and recorder shall operate whenever the flare is in operation. The temperature shall be measured at a location above the flame zone, at least 0.6 second downstream of the burner, and not less than three (3) feet below the top of each stack.
[Rule 1303(a)(1)-BACT, 3004(a)(4)]



FACILITY PERMIT TO OPERATE CHIQUITA CANYON LLC

5. Whenever the flare(s) is (are) in operation, a temperature of not less than 1400 degrees Fahrenheit, 15 minute average, as measured by the temperature indicator and recorder shall be maintained except during periods of startup and shutdown. Startup is defined as the period from flare ignition to the time when 1400 degrees Fahrenheit is achieved, not to exceed 30 minutes. Shutdown is the period from when the gas valve begins to be shut and completely shuts off, not to exceed 30 minutes.
[Rule 1303(a)(1)-BACT]
6. A flow indicator and recording device shall be maintained in the landfill gas supply line to each flare to measure and record the quantity of landfill gas (in scfm) being burned in each flare.
[Rule 1303(b)(2)-Offset, 3004(a)(4)]
7. All recording devices shall be synchronized with respect to time of the day.
[Rule 204]
8. The total volume of landfill gas burned in each flare shall not exceed 4,000 standard cubic feet per minute (scfm).
[Rule 1303(b)(1) and (b)(2)-Modeling and Offset, 1401]
9. The maximum heat input rate to each flare shall not exceed 120 mmBTU per hour. A log shall be kept indicating the total heating value of landfill gas burned in each flare based on the recorded flow rate (scfm) and the latest weekly BTU content (BTU/scf) reading.
[Rule 1303(b)(1) and (b)(2)-Modeling and Offset, 1401]
10. The automatic shutdown safety system shall be tested monthly for proper operation of each flare and the results recorded.
[Rule 1303(a)(1)-BACT]
11. Condensate injection total flow rate and heat input rate (BTU/hr), for all of the nozzles, shall be recorded and records shall be maintained on file. Calculated injection rate for each nozzle shall not exceed 0.077 gpm/BTU/hr.
[Rule 204]
12. The operator shall conduct annual performance source test for each of the flares (within 12 months of the prior source test), at maximum heat input rate, in accordance with South Coast AQMD approved source test protocol. Written notification of the scheduled test date shall be provided to the South Coast AQMD at least seven (7) days prior to the date so that the testing may be observed by South Coast AQMD personnel. The testing shall be conducted when the equipment is in full operation, and shall include, but not limited to, a test of the inlet to the flare and the flare exhaust for:
 - A. Methane
 - B. Total non-methane organic compounds (TNMOC)
 - C. Carcinogenic and toxic air contaminants (inlet and exhaust) including, but not limited to, compounds listed under Rule 1150.1, Table-1 (Core Group)
 - D. NO_x, as NO₂ (exhaust only)
 - E. SO_x, as SO₂ (exhaust only)
 - F. CO (exhaust only)
 - G. PM₁₀ reported as total PM (exhaust only)
 - H. Oxygen
 - I. Moisture content
 - J. Temperature



**FACILITY PERMIT TO OPERATE
CHIQUITA CANYON LLC**

K. Flow rate
[Rule 1303(b)(1) and (b)(2)–Modeling and Offset, 1401, 3004(a)(4)]

13. The source test report, for each flare shall include;

- A. Emissions of CO, NO_x, TNMOCs, PM₁₀ (total PM) and SO_x, in units of lbs/hr and ppmv (except PM₁₀), overall methane and TNMOC destruction efficiency (wt. %) and TNMOC emissions (ppmv), on a dry basis, as hexane at 3% oxygen.
- B. The test shall be performed by a testing laboratory certified to meet the criteria in South Coast AQMD Rule 304(k) (conflict of interest).
- C. Sampling facilities shall comply with South Coast AQMD “Guidelines for Construction of Sampling and Testing Facilities” pursuant to Rule 217.

[Rule 204, 217, 1150.1, 40 CFR 60 Subpart XXX, 40 CFR 63 Subpart AAAA]

14. The maximum flare skin temperature at any location shall not exceed 250 degrees Fahrenheit.
[Rule 217]

15. All landfill gas collected shall be directed to a processing facility, which can adequately process the volume of LFG collected, or to the combustion equipment that has been issued a valid Permit to Construct or Operate by the South Coast AQMD.

[Rule 1150.1, 1303(a)(1)-BACT, 40 CFR 60 Subpart XXX, 40 CFR 63 Subpart AAAA]

16. Emissions from flare no. 1 shall not exceed the following:

Pollutant	lbs. /hr
CO	5.6
NO _x as NO ₂	3.9
PM ₁₀	1.4
ROG	0.92
SO _x as SO ₂	2.5

[Rule 1303(a)(1)-BACT, 1303(b)(1) and (b)(2)–Modeling and Offset, 1401]

17. Emissions from flare no. 2 shall not exceed the following:

Pollutant	lbs. /hr
CO	7.2
NO _x as NO ₂	2.4
PM ₁₀	1.4
ROG	1.33
SO _x as SO ₂	2.5

[Rule 1303(a)(1)-BACT, 1303(b)(1) and (b)(2)–Modeling and Offset, 1401]



FACILITY PERMIT TO OPERATE CHIQUITA CANYON LLC

18. The operator shall operate and maintain this equipment according to the following requirements:

The exhaust temperature shall be maintained at a minimum of 1,400 degrees Fahrenheit (for F-1 & F-2) whenever the equipment it serves is in operation.

Continuous exhaust temperature monitoring and recording system shall be pursuant to the operation and maintenance requirements specified in 40 CFR Part 64.7. Such a system shall have an accuracy of within $\pm 1\%$ of the temperature being monitored and shall be inspected, maintained, and calibrated on an annual basis in accordance with the manufacturer's specifications using an applicable South Coast AQMD or EPA approved method.

For the purpose of this condition, a deviation shall be defined as when a temperature of less than 1,400 degrees Fahrenheit (for F-1 & F-2) occurs during normal operation except during startups or shutdowns, not to exceed 30 minutes. The exhaust temperature shall be averaged over a 15-minute period,

And hourly average shall be computed from such data points. The operator shall review the records of temperature on a daily basis to determine if a deviation occurs or shall install an alarm system to alert the operator when a deviation occurs.

Semi-annual reporting specified in Condition No. 23 in Section K, whenever a deviation occurs in which the temperature of the flare falls below 1,400 degrees Fahrenheit, the operator shall take necessary corrective actions as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. Records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective actions taken shall be included in the semi-annual reporting.

All deviations shall be reported to the South Coast AQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR Part 64.9 and Condition Nos. 22 and 23 in Section K of this permit.

The operator shall submit an application with a quality improvement plan (QIP) in accordance with 40 CFR Part 64.8 to the South Coast AQMD if an accumulation of deviations exceeds 5 percent duration of this equipment's total operating time for any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to the South Coast AQMD within 90 calendar days after the due date for the semi-annual monitoring report.

The operator shall keep adequate records in a format that is acceptable to the South Coast AQMD to demonstrate compliance with all applicable requirements specified in this condition and 40 CFR Part 64.9 for a minimum of five years.

[40 CFR Part 64]

19. Operation of this equipment shall not result in the release of raw landfill gas into the atmosphere. Any breakdown or malfunction of this equipment resulting in the emission of raw landfill gas shall be reported to the South Coast AQMD within twenty four hours after occurrence and immediate remedial measures shall be undertaken to correct the problem and prevent further emissions into the atmosphere.

[Rule 430]



FACILITY PERMIT TO OPERATE CHIQUITA CANYON LLC

20. The applicant shall conduct a gas leak detection program with a combustible detector calibrated for methane by inspecting the blowers and all equipment downstream of the blowers. This inspection program shall be conducted once a week. All leaks detected above 500 ppm shall be reported to the South Coast AQMD within 24 hours of detection and repaired within 3 working days of detection. A log showing the results of each inspection shall be maintained and shall be available to South Coast AQMD personnel upon request.
[Rule 1303(a)(1)-BACT, 402]
21. All records shall be kept and maintained for at least five years and shall be made available to South Coast AQMD personnel upon request.
[Rule 3004(a)(4)]

Emissions and Requirements:

22. This equipment is subject to the applicable requirements of the following rules and regulations:
- CO: 2000 ppmv, Rule 407
 - CO: 0.06 lb/mmBTU heat input – BACT/LAER, flare no. 2
 - NOx: 0.06 lb/mmBTU heat input- BACT/LAER, flare no. 1
 - NOx: 0.025 lb/mmBTU heat input- BACT/LAER, flare no. 2
 - PM: Rule 404, see Appendix B for emissions limits
 - PM: 0.1 gr/scf, Rule 409
 - Methane: 99 wt. % destruction efficiency, Rule 1150.1
 - NMOC: 98 wt. % destruction efficiency or < 20 ppmv, hexane, 3% O2 dry, Rule 1150.1, 40 CFR 60 Subpart XXX, 40 CFR 63 Subpart AAAA

Esta es la última página de este documento.

Si tiene alguna pregunta, por favor, comuníquese con una de las siguientes personas por e-mail o telefónicamente:

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