

SOURCE TEST PLAN FOR SEMI-ANNUAL LEACHATE AND CONDENSATE VAPOR SAMPLING AT THE CHIQUITA CANYON LANDFILL

Prepared For:

SCS Engineers

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For Submittal To:

South Coast Air Quality Management District

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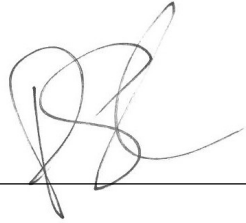


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REVIEW AND CERTIFICATION

I certify that, to the best of my knowledge, the information contained in this document is complete and accurate and conforms to the requirements of the Montrose Quality Management System and ASTM D7036-04.

Signature:  Date: 7/30/2026

Name: Pete San Juan Title: Client Project Manager

I have reviewed, technically and editorially, details and other appropriate written materials contained herein. I hereby certify that to the best of my knowledge the presented material is authentic and accurate and conforms to the requirements of the Montrose Quality Management System and ASTM D7036-04.

Signature:  Date: 7/30/2026

Name: John Peterson Title: District Manager – Santa Ana

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1.0 INTRODUCTION

Montrose Air Quality Services, LLC (MAQS) was contacted by SCS Engineers (SCS) to conduct sampling at various locations on the vapor ventilation system located at the Chiquita Canyon Landfill (Chiquita), located in Castaic, California. Testing will be conducted to comply with Condition 72 of the Modified Stipulated Order for Abatement (SOFA) issued to Chiquita by the South Coast Air Quality Management District (SCAQMD) on April 24, 2024. The Montrose project manager will be Mr. Pete San Juan. He will be assisted by additional MAQS personnel as necessary to complete the project. A qualified individual as defined in ASTM D7036-04 will be on-site during all testing activities. MAQS qualifies as an independent testing laboratory under SCAQMD Rule 304 (no conflict of interest) and is certified by the SCAQMD to conduct testing for criteria pollutants according to District Methods.

The following provides Condition 72(a)–(b) of the SOFA:

72. Respondent shall conduct sampling and analysis, testing, installation, and monitoring of the leachate and landfill gas condensate collection, storage, and treatment tank system, as specified below:

- a. At least semi-annually, conduct testing to sample and analyze the vapor flow in the piping used to vent the leachate storage/treatment tanks and landfill gas condensate storage/treatment tanks and route the vapors to the landfill gas control system, and the landfill gas header line(s) feeding the flares/thermal oxidizers. The testing shall at least include the following items, and the results of this testing shall be provided in the monthly report pursuant to Condition No. 8.:*
 - i. vented leachate tank vapor flowrate,*
 - ii. vented condensate tank vapor flowrate,*
 - iii. vapor temperature,*
 - iv. concentrations of speciated organics (including but not limited to Rule 1150.1 Table 1 Carcinogenic and Toxic Air Contaminants),*
 - v. the total sulfur compounds as H₂S and speciated sulfur compounds, and*
 - vi. testing at each of the locations indicated below:*
 - 1. The tank vents or manifolds which are representative of a set of tanks;*

2. *The header/manifold from each leachate tank farm or manifold including Tank Farm #7, Tank Farm #9, North Perimeter Manifold, New East Perimeter Manifold, LC Manifold, landfill gas condensate storage tanks, and any other future tank farms or manifolds, with testing performed upstream of the piping connection to the LFG Collection and Conveyance System where landfill gas may affect results; and*
 3. *The inlet of the flare(s)/thermal oxidizers prior to combustion.*
 4. *The landfill gas header line(s) to the flares/thermal oxidizers (upstream of leachate/condensate vapor mixing)*
- vii. gas heat rating (BTU/scf)*
 - viii. Landfill gas vapor flowrate*
- b. *A modified source test protocol for this testing shall be submitted to South Coast AQMD by June 30, 2026, unless otherwise approved in writing by South Coast AQMD. Testing shall be conducted within 45 days of receiving written approval of the source test protocol by South Coast AQMD, and the final results in a source test report format shall be submitted within 30 days of testing, unless otherwise approved in writing by South Coast AQMD.*

The test program will be conducted at various locations located on the Chiquita vapor ventilation system and the inlet to any Thermal Oxidizer Units in operation during normal operating conditions. The testing will be conducted within 45 days of the approval of this Test Plan.

Equipment and facility information is provided in Section 2.0. Source test information is detailed in Sections 3.0. Emission point, control equipment, and process equipment information are provided in Sections 4.0 and 5.0, respectively. Supplemental information is contained in the Appendices.

2.0 FACILITY AND SOURCE INFORMATION

The facility address is:

Physical Address: Chiquita Canyon Landfill
29201 Henry Mayo Drive
Castaic, California 91384

Sampling of leachate and condensate vapors will be conducted from the following locations:

- The tank vents or manifolds which are representative of a set of tanks;
- The header/manifold from each leachate tank farm or manifold including Tank Farm #7, Tank Farm #9, North Perimeter Manifold, New East Perimeter Manifold, LC Manifold, landfill gas condensate storage tanks, and any other future tank farms or manifolds, with testing performed upstream of the piping connection to the LFG Collection and Conveyance System where landfill gas may affect results; and
- The inlet of the flare(s) prior to combustion.
- Inlet to any Thermal Oxidizer Units in operation at the time of sampling.

3.0 TEST INFORMATION AND METHODOLOGY

The pollutants to be measured and test methodology are summarized in Table 3-1. Individual sampling run start times will depend on process operation, equipment calibration, set-up and sample recovery. Because of the sample port sizes, volume flow rate measurements will be performed before the sample collection.

The field sampling procedures to be utilized during the test program are described below. The published reference methods provide greater detailed descriptions than in this section. The purpose of this section is to provide an overview of the sampling methods and any proposed variations. The sampling procedures proposed are based on SCAQMD, ASTM, and EPA Reference Methods.

**TABLE 3-1
TEST PROCEDURES
TEST PROGRAM OVERVIEW
CHIKUITA CANYON LANDFILL
LEACHATE AND CONDENSATE VAPOR SAMPLING**

Parameter	Sample Medium	Analytical Technique	Reference Method	Number of Replicates
Flow Rate/Temperature	Pitot Tube / TC	Differential Pressure	SCAQMD 2.1	1 for each location
Moisture	Wet Bulb/Dry Bulb	Psychrometric Chart	SCAQMD 4.1	1 for each location
H ₂ S and TRS	Summa Can	GC/SCD	SCAQMD 307-91	1 for each location
TO-15 (Rule 1150.1)	Summa Can	GC/MS	EPA TO-15	1 for each location
LFG Heat Rating (BTU/scf)	Summa Can	GC/MS	ASTM D1945	1 for each location

3.1 SCAQMD METHOD 1.1 – SAMPLING AND VELOCITY TRAVERSES FOR STATIONARY SOURCES

A preliminary source test site assessment will be performed prior to the source test in order to determine applicable sample point traverse locations. The stack diameter, and the distance from sample ports to disturbances (bends, flanges, etc.), both upstream and downstream, will be measured. This information is utilized to determine the minimum number of sampling points per traverse, and the distance from the inner stack wall to each sample point location. Additionally, this method considers cyclonic flow patterns and in-situ stratified pollutant concentrations.

3.2 SCAQMD METHOD 2.1 – VELOCITY AND VOLUMETRIC FLOW RATE

The velocity of the gas stream is determined by using an "S" type or standard pitot tube, a low flow electronic manometer, and type "K" thermocouple with a digital temperature measuring device. The calibrated pitot tube is connected to the electronic Air Data Multimeter (ADM) manometer and leak checked. A temperature and delta P is obtained at each traverse point, and a duct static pressure is measured and recorded. The dry volumetric flow rate is determined from the gas velocity data, stack pressure, stack gas moisture content, stack gas molecular weight, and cross-sectional area of duct.

3.3 SCAQMD METHOD 3.1 – GAS ANALYSIS FOR DRY MOLECULAR WEIGHT AND EXCESS AIR

Leachate and condensate vapor gases will be analyzed by GC for O₂ and CO₂.

3.4 SCAQMD METHOD 4.1 – DETERMINATION OF MOISTURE CONTENT IN STACK GASES

Moisture will be measured using a wet bulb/dry bulb and calculated with a psychrometric chart.

3.5 SCAQMD METHOD 307-91 – HYDROGEN SULFIDE AND REDUCED SULFUR COMPOUNDS

Samples for determination of hydrogen sulfide and speciated reduced sulfur compounds are collected in Summa Canisters. The samples are analyzed by GC/SCD by AtmAA, Inc. in Calabasas, California or another SCAQMD approved laboratory, following SCAQMD Method 307-91 protocol. The samples are analyzed within 24 hours of sampling.

3.6 EPA METHOD TO-15 – VOLATILES AND HYDROCARBON COLLECTED IN SUMMA CANISTER

Samples will be collected in glass silicate lined Summa canisters. The samples will be analyzed by AtmAA, Inc. in Calabasas, California for volatile organics listed in SCAQMD Rule 1150.1 Table 1 list.

Sampling Procedure:

One summa can per location will be filled with sample gas using an evacuated cylinder. The sampling probe will be connected to the can with Teflon tubing. The samples will be collected at a fixed point halfway into the sampling duct.

Equation:

$\text{lb/hr} = \text{ppbv} \times \text{DSCFM} \times \text{M.W.} \times \text{CF}$

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Leachate and Condensate Vapor Sampling

Where:

TGNMO ppmv = Total Gaseous Non-Methane Organics in Parts Per Million (Volume)

DSCFM = Dry Standard Cubic Feet Per Minute

M.W. = Molecular Weight (lb/lb mole)

C.F. = Conversion Factor = 1.583×10^{-10} @ 60°F Std.

4.0 EMISSION POINT INFORMATION

The emission point information is summarized in Table 4-1. In addition, site schematics are presented in Appendix A.

**TABLE 4-1
ESTIMATED EMISSION POINT INFORMATION
CHIQUITA CANYON LANDFILL
LEACHATE AND CONDENSATE VAPOR SAMPLING**

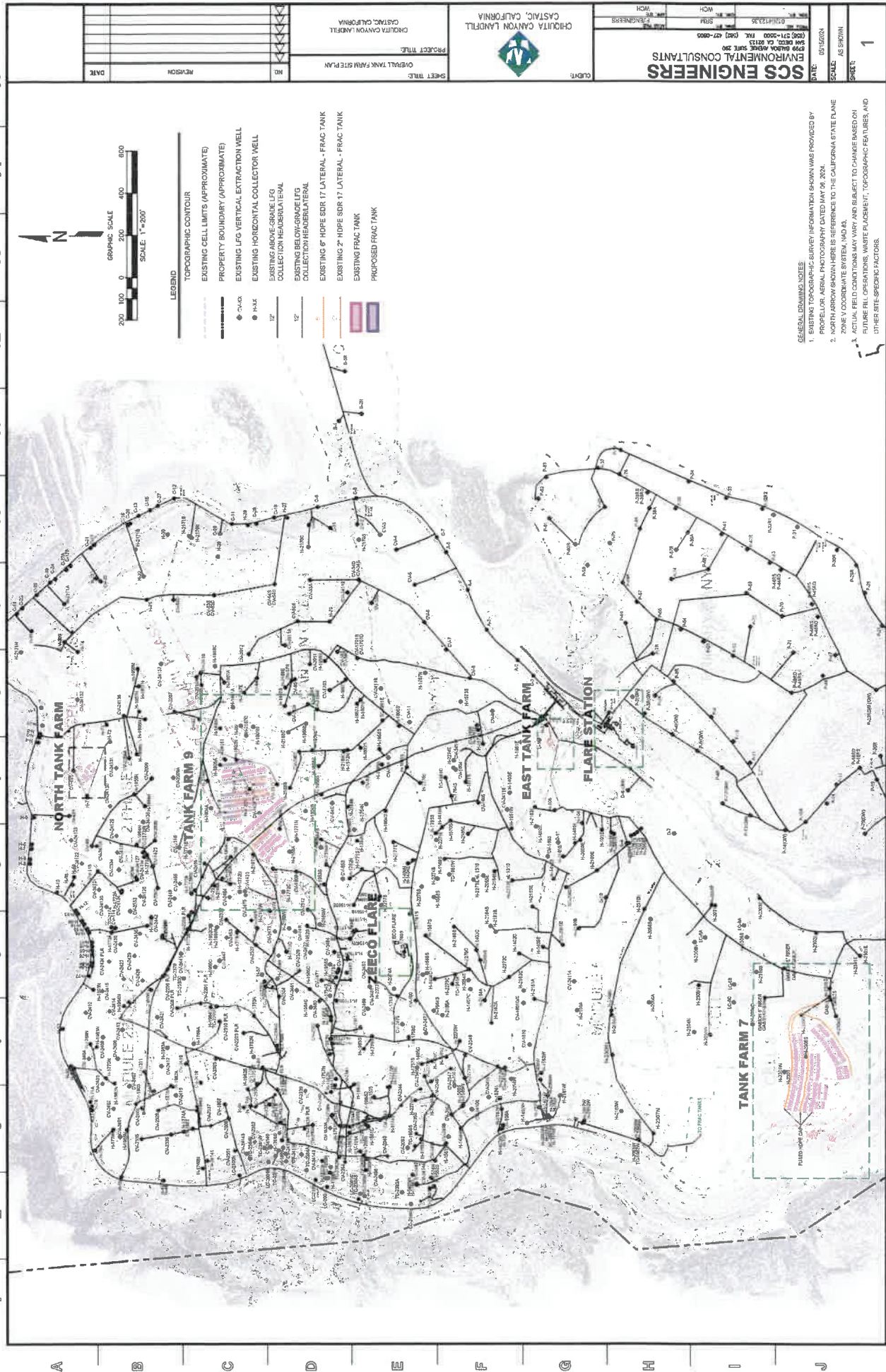
Source Location	Internal Diameter (inches)	Downstream Distance (inches)	Upstream Distance (inches)	Source
Header/Manifold	TBD	TBD	TBD	Tank Farm #7, Tank Farm #9
North Perimeter Manifold	TBD	TBD	TBD	Tank Farm #7, Tank Farm #9
East Perimeter Manifold	TBD	TBD	TBD	Tank Farm #7, Tank Farm #9
LC Manifold	TBD	TBD	TBD	Tank Farm #7, Tank Farm #9
LG Condensate Tanks	TBD	TBD	TBD	Tank Farm #7, Tank Farm #9
Flare Station	TBD	TBD	TBD	Common Landfill Gas Supply
Thermal Oxidizers	TBD	TBD	TBD	TOX Units in Operation

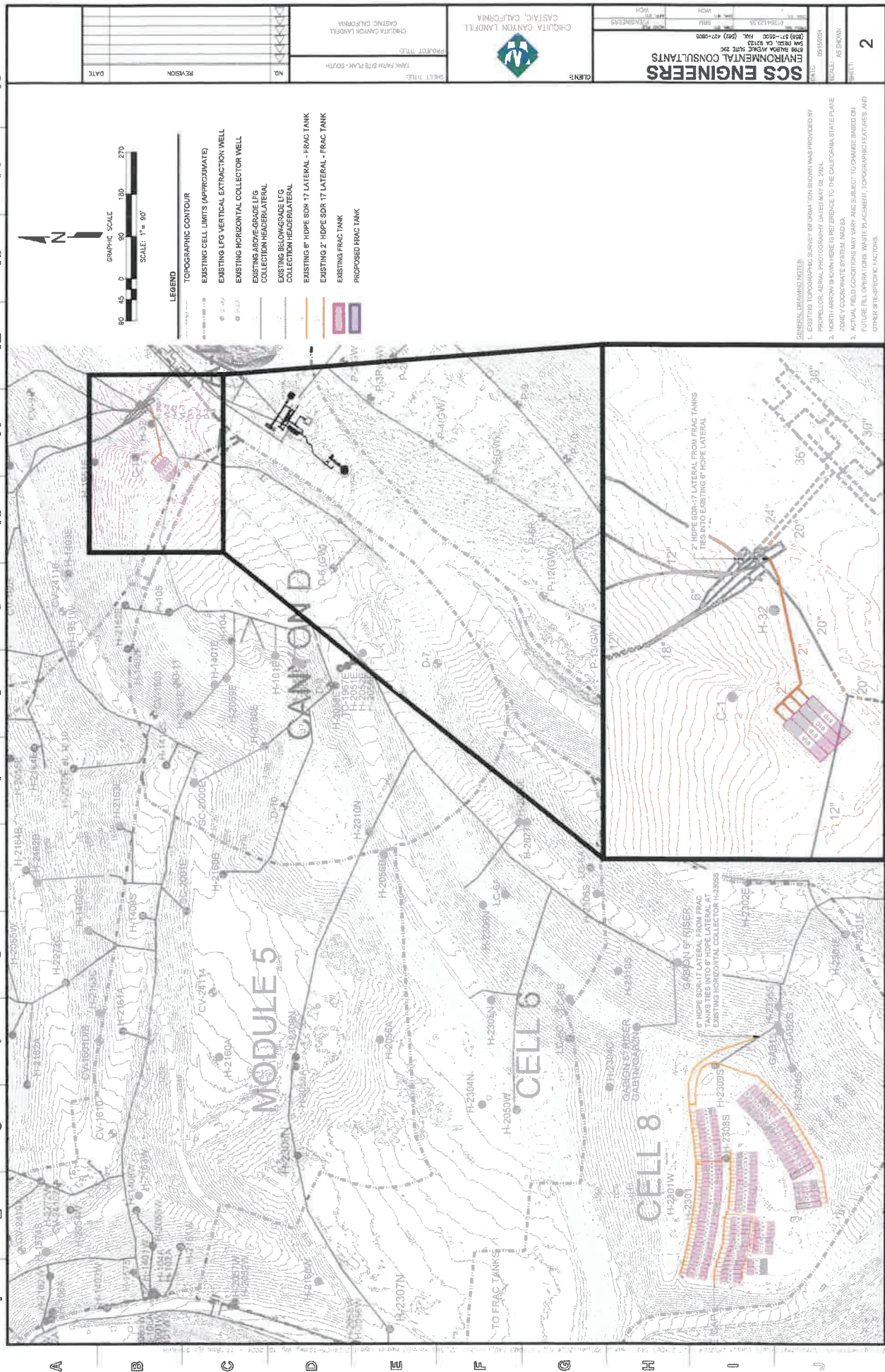
An on-site assessment will be performed prior to the source test in order to determine applicable sample point traverse locations. The stack diameter, and the distance from sample ports to disturbances (bends, flanges, etc.), both upstream and downstream, will be measured. Additional Sampling locations may be added in the future to accommodate the addition of Tank Farms, Manifolds, or Thermal Oxidizers.

5.0 PROCESS EQUIPMENT INFORMATION

Vapors created from the volatilization of chemicals in the head space in the Leachate tanks at tank farms #7 and #9 are transferred under vacuum through the wellhead and into the landfill gas collection system then to the flare station for combustion. The pressure and temperature of the vapors in the piping varies based on ambient temperatures during normal operation. The facility operates 24 hours per day. The process data to be monitored will include landfill gas throughput.

APPENDIX A SITE SCHEMATICS





APPENDIX B

QUALITY ASSURANCE

Appendix B.1

Quality Assurance Program Summary

QUALITY ASSURANCE PROGRAM SUMMARY

As part of Montrose Air Quality Services, LLC (Montrose) ASTM D7036-04 certification, Montrose is committed to providing emission related data which is complete, precise, accurate, representative, and comparable. Montrose 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: Montrose has assigned an internal QA Officer who is responsible for administering all aspects of the QA program.

Internal Quality Assurance Manual: Montrose 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 Montrose's QA efforts. The manual is revised upon periodic review and as Montrose 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. Montrose 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 Montrose 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 Montrose's 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: Montrose maintains current copies of EPA, ARB, and SCAQMD Source Test Manuals and Rules and Regulations.

Chain-of-Custody: Montrose maintains chain-of-custody documentation on all data sheets and samples. Samples are stored in a locked area accessible only to Montrose source test personnel. Data sheets are kept in the custody of the originator, program manager, or in locked storage until return to Montrose 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

Montrose 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). Montrose 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 Montrose 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 presented in the report appendices.

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 ΔH@	--
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 B.2

SCAQMD and STAC Certifications

SCS Engineers – Chiquita Canyon Landfill
Leachate and Condensate Vapor Sampling



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,

A handwritten signature in black ink, appearing to read "Colin Eckerle".

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.

Appendix B.3

Statement of No Conflict of Interest

STATEMENT OF NO CONFLICT OF INTEREST AS AN INDEPENDENT TESTING LABORATORY

(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:	Test Plan
Facility Name:	Chiquita Canyon Landfill
Equipment Address:	29201 Henry Mayo Drive Castaic, California 91384
Equipment Tested:	Leachate and Condensate Sampling System

I state, as its legally authorized representative, that the source testing firm of:

Source Test Firm: Montrose 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: 7/30/2026

Pete SanJuan

Client Project Manager

(714) 279-6777

7/30/2026

(Name)

(Title)

(Phone)

(Date)

APPENDIX C

GENERAL EMISSIONS CALCULATIONS

GENERAL EMISSION 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

$$Ps = Pbar + \frac{Psg}{13.6}$$

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

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

B. Water vapor volume, scf

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

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

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

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Leachate and Condensate Vapor Sampling

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

$$I = \frac{17.32 * T_s (V_{mstd})}{(1-Bwo) * 0 * V_s * P_s * Dn2} * \frac{528^\circ R}{T_{ref}}$$

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

SCS Engineers – Chiquita Canyon Landfill
Leachate and Condensate Vapor Sampling

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, in.
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, min.
ΔP	= average velocity head, $\text{iwg} = (\sqrt{\Delta P})^2$
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, $\text{ft}^3/\text{lb-mole}$
T_m	= meter temperature, $^{\circ}\text{R}$
T_{ref}	= reference temperature, $^{\circ}\text{R}$
T_s	= stack temperature, $^{\circ}\text{R}$
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 D SITE SAFETY PLAN



Site Safety Plan Booklet

Project Name: Chiquita Semi-Annual Leachate 2026
 Project Number: OPP-2026-07-29-096876
 Customer: Waste Connections
 Location: Chiquita Canyon Landfill
 Units: Leachate Tank Vapors
 Client Project Manager: Pete San Juan

Site Safety Plan and JHA Purpose and Instructions

Purpose

Employee safety is the top priority of Onterris, Inc. All employees must be trained to assess and mitigate hazards. The District Manager and Project Manager are responsible to ensure all hazards have been properly identified and managed. All employees have Stop Work Authority in all situations where an employee feels they or their co-worker cannot perform a job safely or if there is a task for which they have not been adequately trained.

The Site Safety Plan (SSP) has been developed to help assist Onterris test crews with identifying physical and health hazards and determining how the hazards will be managed. Additionally, the SSP will help each crew manage the safety of the employees by providing emergency procedures and information. The booklet contains a several safety forms that may be required in the field.

Instructions

The SSP consists of the following:

1. A Pre-Mobilization Test Plan – To be completed in it's entirety by the client project Manager prior to the test.
2. A Job Hazard Analysis is a standardized, two-page, fillable form that is used to evaluated the task/site's particular hazards and controls. The form also includes a daily toolbox topic and daily hazard review with sign off by the team. The client Project Manager is responsible to complete the JHA form through section 8. Upon arrival at the test site, the team will review the form for accuracy, making any corrections required and complete the remainder of the JHA. Section 9 will require at least three tasks, hazards and controls be identified for the project. Each team member has the option to discuss making changes or adding to the JHA and must sign on the Job Hazard Analysis form in agreement and sign in Section 10. The JHA is to be modified when conditions change. A toolbox meeting with a daily topic in addition to a review of the hazard analysis is required daily for the duration of the test. An additional sheet of paper with the toolbox topic and signatures can be added to the SSP packet.
 - a. 2.2 Sections of the JHA:
 - i. **Section 1 – General Information.** Complete a site walk through of the project area, to verify that the hazards anticipated for the project have been accurately identified in the JHA. Add any potential hazards observed during the walk through, as needed. Section 9 requires that at least three tasks, hazards and controls are identified and listed in Section 9.
 - If the **heat index** for the work site is expected to be above 91°, the Heat Stress Prevention Form must be filled out and taken onsite with the JHA, as part of the SSP.

- Appoint a Safety Representative for the project. This individual will ensure Daily JHA Reviews are occurring and that team members are following proper safety procedures.
 - ii. **Section 2 – Facility Information/Emergency Preparedness.** Fill in all applicable sections. Be sure to identify assembly points, means of egress and verify that the eye wash/shower station is operational.
 - iii. **Section 3 – Error Risk.** This section is intended to help identified potential areas where risks could occur, related to the project or work being performed, as well as the individuals involved.
 - iv. **Section 4 – Physical and Potential Hazards.** This section is used to identify physical hazards and engineering/administrative controls that can be implemented to mitigate those hazards.
 - v. **Section 5 – Required PPE.** Select all PPE that will be needed to perform anticipated work activities safely.
 - vi. **Section 6 – Critical Procedures.** This section identifies any work procedures that may require additional documentation, hazard evaluation/mitigation, and/or additional training.
 - vii. **Section 7 – Working from Heights.** Select the mitigation steps that will be taken onsite for any hazards related to working from heights; dropped objects and fall protection.
 - viii. **Section 8 – Other Considerations.** This section includes items to consider when assessing work site hazards, such as environmental hazards, electrical safety, chemicals and wildlife/fauna.
 - ix. **Section 9 – Observed Hazards and Mitigation Steps.** The four main tasks should be listed, minimum three tasks are required. List the hazards and explain the steps that will be implemented to mitigate those hazards. Include any hazards not identified in the JHA.
 - x. **Section 10 – JHA Review.** All team members must print, sign and date that the JHA has been reviewed and understood. Any new team members arriving to the test location after work has begun must review the SSP, ensure all hazards are identified and controls are implemented, discuss what, if anything else is required and sign in agreement.
 - xi. **Section 11 – Daily JHA Review and Toolbox Meeting.** The second and subsequent days of the test require Section 11 to be completed. The JHA and site conditions must be reviewed to ensure nothing has changed and no new hazards have been introduced. In addition, the daily toolbox topic must be listed and all employees are to initial in agreement.
- b. Additionally, the JHA must be updated and re-evaluated if new hazards are discovered during the site walk through or Daily JHA Meeting and Review; if equipment was damaged; or if the scope of work has changed.

3. Hazard Control Matrix - contains useful information on both engineering and administrative controls that a crew can use to reduce or eliminate the hazards they have observed plus applicable PPE that may be required.

4. Emergency Action Plan - The Job Supervisor/ Client Project Manager (CPM) will complete the Emergency Action Plan form and ensure that all employees are familiar with the facility emergency and evacuation procedures, assembly/ rally points, alert systems, and signals prior to work commencing. In the event of an emergency situation/ evacuation, the Job Supervisor/ CPM will maintain a roster and be responsible for accounting for all employees. The Job Supervisor/ CPM will ensure that this Emergency Action Plan Form is completed, communicated to all employees, signed, and posted.

5. Additional Forms, as applicable

- a. MEWP Lift Inspection Form
- b. Heat Stress Prevention Form Based on Heat Index
- c. Extended Hours Form

The SSP is a living document. The Project Manager should continually update their SSPs as new information and conditions change or if new hazards are presented.

Each completed SSP should be maintained with the Test Plan in the office for a period of 3 years. There will be an audit process developed for the Site Safety Plans.

PRE-MOBILIZATION TEST INFORMATION

PROJECT NAME/LOCATION: Chiquita Semi-Annual L PROJECT #: OPP-2026-07-29-096876

TEST DATE: 12/15/20126 PROJECT MANAGER: Pete San Juan

TEST SCOPE: Leachate Tank Vapor Sampling

SITE CONTACT: Name: Cornelius Fong Contact Phone: _____

Source Type: New Source: _____ Revisit: X Prj#/Date/Tech: OPP-2026-07-29-096876

Coal Fired Electric Utility: _____ Ethanol Plant: _____ Chemical Mfg. of _____

Cement/Lime Kiln Plant: _____ Specialty Mfg. of: _____ Other: X

Anticipated Effluent Composition – check all that apply and fill in expected concentration in ppm/%

☐
CO

☐
NO_x

☐
SO₂

☒
VOC

☐
other

If other, explain: _____

Flammable: _____ Toxic: _____ Corrosive: _____ Dust: _____

Engineering Controls to be Implemented: None

Additional Safety Equipment Required:

Personal gas monitors:

Respiratory Protection:

Half Face _____ Full Face _____ HEPA Filters _____ Supplied Air: _____ (Safety Dept. Approval)

Approximate Flue Gas Temperatures, (F)

☒

below 210

☐

210 to 450

☐

450 to 950

☐

above 950

☐

other

If other, explain: _____

Approximate Duct Pressure, (iwg):

☒

below -3

☐

-3 to +3

☐

+3 to +7

☐

above +7

☐

other

If other, explain: _____

Sampling Location: **Stack Port** _____ **Duct Port** X

Approximate Sampling Platform Height, (ft)



below 6



6 to 50



50 to 100



above 100



other

If other, explain: _____

Access and Protection:

Elevators: _____ Ladders: _____ Aerial Lift: _____ Scaffold: _____ Equipment Hoist: _____

Guardrails: _____ Toe plate: _____ Engineered Tie Off Points: _____ Heat Shield: _____

Other: Ground level

Describe how equipment will be mobilized to the sampling location:

Mobile Lab

Additional Information:

Effluent Chemical Regulatory Limits

Gas Name	Chemical Formula	Cal OSHA PEL ¹ (ppm)	Cal OSHA STEL ² (ppm)	NIOSH REL TWA ³ (ppm)	Cal OSHA Ceiling (ppm)	IDLH ⁴ (ppm)
Carbon Monoxide	CO	25	200	35	200	1,200
Nitric Oxide	NO _x	25	ND ⁵	25	ND	100
Sulfur Dioxide	SO ₂	2	5	2	ND	100
Hydrogen Chloride	HCl	0.3	2	ND	2	50
Hydrogen Sulfide	H ₂ S	10	15	10 (10 min.) ^C	50	100

California Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) based on an 8-hour shift;

2: Cal OSHA Short-term Exposure Limit (STEL) based on a 15-minute period;

3: National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limit (REL) Time-weighted Average (TWA) based on an 8-hour shift;

4: Immediately Dangerous to Life or Health (IDLH);

5: Not Defined (ND);

C: Ceiling Limit - Maximum allowable human exposure limit for an airborne or gaseous substance, which is not to be exceeded, even momentarily.

Prepared by: Pete San Juan Date: 7/29/2026

Reviewed by: Pete San Juan Date: 7/29/2026

1. Client	Chiquita Semi-Annual Leachate	Contact Name	Cornelius Fong	Date	12/15/2012
Facility	Chiquita Canyon Landfill	SSP Writer		PM	Pete San Juan
Client Rep	Cornelius Fong				

Job Preparation

☐ Job Site Walk Through Completed
 ☐ Site Specific Training Complete
☐ Safe Work Permit Received from Client

All hazards and mitigation steps must be documented.
 If this JHA does not cover all the hazards identified,
 use Section 9 to document that information.

If the heat index is expected to be above 91°, fill out the Heat Stress Prevention Form.

2. Facility Information/Emergency Preparedness

If non-emergency medical attention is needed, call: AXIOM #: 877-502-9466.

Plant Emergency # _____ Certified First Aid Person: _____

EMS Location _____ Evacuation Routes _____ Rally Point _____

Severe Weather Shelter Location _____ Eye Wash & Safety Shower Location _____

Operational: ☐ Yes ☐ No

Source Information: (list type):

Stack Gas Temp. (°F) _____ Stack Gas Press. ("H₂O) _____ Stack Gas Components: _____

Stack Gas Inhalation Potential? ☐ Yes ☐ No If yes, see List of Hazard Chemicals.

3. Error Risk

- | | | | |
|--|--|---|---|
| ☐ Time Pressure | ☐ Remote Work Location | ☐ > 12 hr shift | ☐ Working > 8 consecutive days |
| ☐ Lack of procedures | ☐ Extreme temps, wind >30mph | ☐ Personal illness/fatigue | ☐ Vague work guidance |
| ☐ Monotonous Activity | ☐ First day back after time off | ☐ Multiple job locations | ☐ Other: _____ |

4. Physical Hazards

Hazard Controls

- | | | | |
|---------------------|--|---|--|
| Dust Hazards | ☐ Dust Mask | ☐ Goggles | ☐ Other: _____ |
| Thermal Burn | ☐ Hot Gloves | ☐ Heat Shields | ☐ Other Protective Clothing: _____ |
| Electrical Hazards | ☐ Connections Protected from Elements | ☐ External GFCI | ☐ Other: _____ |
| | ☐ XP Rating Requirement | ☐ Intrinsically Safe Requirement | |
| Inadequate Lighting | ☐ Install Temporary Lighting | ☐ Headlamps | |
| Slip and Trip | ☐ Housekeeping | ☐ Barricade Area | ☐ Other: _____ |
| Hand Protection | ☐ Cut Resistant Gloves | ☐ Pinch Pts. | ☐ General ☐ Electrical ☐ Impact Resistant |
| | ☐ Other: _____ | | |

Potential Hazards for Consideration

- | | | | |
|----------------------|---|---|--|
| Secondary Permits | ☐ Hot Work | ☐ Confined Space | ☐ Excavation |
| Working from Heights | ☐ Falling objects | ☐ Fall protection | ☐ Drop zone protection ☐ Platform load ratings |
| See also Sect. 7 | ☐ Scaffold inspection | ☐ Ladder inspection | ☐ Barricades for equipment |
| Electrical | ☐ Exposed wire/connector | ☐ Verify equipment grounding | ☐ Arc Flash |
| Lifting | ☐ Crane lift plan | ☐ Rigging inspection | ☐ Tag lines used ☐ Hoists in place |
| Respiratory | ☐ Unexpected exposure | ☐ Chemical | ☐ Dust (combustible) ☐ PEL provided |
| See also Sect. 8 | ☐ Cartridges or supplied air available | ☐ Gas detection equipment | |

5. Required PPE
- | | | | | |
|--|---|---|---|---|
| ☐ Hard Hats | ☐ Safety Glasses | ☐ Safety Toe Shoe/Boot | ☐ Hearing Protection | ☐ Safety Spotter |
| ☐ Hi-Vis Vests | ☐ Harness/Lanyard* | ☐ Goggles | ☐ Personal Monitor Type: _____ | |
| ☐ Metatarsal Guards | ☐ Hot Gloves | ☐ Face Shield | ☐ Respirator Type: _____ | |
| ☐ Nomex/FRC | ☐ Other PPE: _____ | | | |

Additional Work Place Hazards

6. **Critical Procedures** – check all that apply – *indicates additional form must be completed or collected from client

☐ Heat Stress Prevention* ☐ Confined Space* ☐ MEWP* ☐ Roof Work ☐ Scaffold
☐ Cold Weather Work ☐ Hazardous Energy Control* ☐ Exposure Monitoring ☐ Other: _____

7. **Working From Heights**

Fall Protection ☐ Fixed Guardrails/Toe boards ☐ Fall Prevention PPE ☐ Warning Line System
 Falling Objects Protection ☐ Barricading ☐ Netting ☐ House Keeping ☐ Tethered Tools ☐ Catch Blanket or Tarp
 Fall Hazard Communication ☐ Adjacent/Overhead Workers ☐ Contractor Contact ☐ Client Contact

8. **Other Considerations**

Environmental Hazards - Weather Forecast

☐ Heat/Cold ☐ Lightning ☐ Rain ☐ Snow ☐ Ice ☐ Tornado ☐ Wind Speed
 Steps for Mitigation: _____

Electrical Safety Planning

Plant Hook up: ☐ 110V ☐ 220/240V ☐ 480V ☐ Generator ☐ Hard wired into panel
 Electrical Classified Area: ☐ Yes ☐ No Trailer Grounded: ☐ Yes ☐ No Plug Type _____
 Electrical Hook Up Responsibility: _____
 All electrical cords inspected, in good condition with proper ground plugs in place? ☐ Yes ☐ No

List of Hazardous Chemicals

☐ Acetone ☐ Nitric Acid ☐ Hydrogen Peroxide ☐ Compressed Gases
☐ Hexane ☐ Sulfuric Acid ☐ Isopropyl Alcohol ☐ Flammable Gas
☐ Toluene ☐ Hydrochloric Acid ☐ Liquid Nitrogen ☐ Non-Flammable Gas
☐ H2S ☐ Carbon Monoxide

Other Chemicals: _____

Steps for Mitigation: _____

Wildlife/Fauna in Area

☐ Poison Ivy ☐ Poison Oak ☐ Insects: _____ ☐ Wildlife: _____
 Personnel w/ known allergies to bees stings or other allergens? ☐ Yes _____ ☐ No

9. **Observed Hazards and Mitigation Steps**

Task	Potential Hazard(s)	Steps for Mitigation
•	1	1
	2	2
	3	3
•	1	1
	2	2
	3	3
•	1	1
	2	2
	3	3
•	1	1
	2	2
	3	3

10. JHA REVIEW: Crew Names & Signatures

Printed Name	Signature	Date	Printed Name	Signature	Date

11. Daily JHA Meeting & Review**Items to review:**

- Change in conditions
- Extended work hours
- Daily Safety Topic
- New workers or contractors
- Occurrence of near misses or injuries

Initialing demonstrates that site conditions and hazards have not changed from the original SSP. If changes did occur, make the necessary updates to this JHA and add notes as applicable in Section 9.

Day	Discussion Topic	Initials
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

EMERGENCY ACTION PLAN FORM

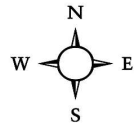
The Job Supervisor/ Client Project Manager (CPM) will ensure that all employees are familiar with the facility emergency and evacuation procedures, assembly/ rally points, alert systems, and signals prior to work commencing. In the event of an emergency situation/ evacuation, the Job Supervisor/ CPM will maintain a roster and be responsible for accounting for all employees. The Job Supervisor/ CPM will ensure that this Emergency Action Plan Form is completed, communicated to all employees, and posted.

- You must follow the client's emergency action plan first, and notify your Supervisor immediately.
- If incident is life threatening, **CALL 911 IMMEDIATELY**
- If non-emergency medical attention is needed, call AXIOM Medical number: 877-502-9466.

1	ONT Job Supervisor/ CPM's Name:	Pete San Juan
2	ONT Job Supervisor/ CPM's Telephone Number:	
3	ONT Job Safety Supervisor (if applicable):	
4	ONT Job Safety Supervisor's Telephone Number:	
5	Plant's Emergency Telephone Number:	
6	Local Hospital/ Clinic Telephone Number:	
7	Emergency Ops Radio Channel:	
8	Plant's #1 Contact Person's Name:	Cornelius Fong
9	Plant's #1 Contact Person's Telephone Number:	
10	Plant's #2 Contact Person's Name:	
11	Plant's #2 Contact Person's Telephone Number:	
12	Designated Assembly Point Location:	
13	Evacuation Routes:	
14	Severe Weather Shelter Location:	
15	Eye Wash and Safety Shower Location:	
16	The First Aid Kit is Located:	
17	The Fire Extinguisher is Located:	

EMERGENCY EVACUATION AND ASSEMBLY MAP

1	Facility Name:	Chiquita Semi-Annual Leachate 2026
2	Facility Alarm (Circle):	YES or NO
3	Alarm Tones:	FIRE: _____; CHEMICAL/ GAS: _____; SHELTER-IN-PLACE: _____; EVACUATE: _____; OTHER: _____;
4	Designated Shelter(s) Description:	
5	Designated Assembly Point(s) Description:	



Draw the evacuation and assembly map here.

EMERGENCY ACTION PLAN FORM AND EVACUATION ASSEMBLY MAP REVIEW: Crew Names and Signatures

Printed Name:	Signature:	Date:	Printed Name:	Signature:	Date:

Daily MEWP Lift Inspection Form

All checks must be completed prior to each work shift, before operation of the MEWP lift. This checklist must be used at the beginning of each shift and following 6 to 8 hours of use.

MEWP Lift Model #:	Serial Number:
Make:	Rented or Owned:

- Check “Yes” if an item is adequate, operational, and safe.
- Check “No” to indicate that a repair or other corrective action is required prior to use.
- Check “N/A” to indicate “Not Applicable.”

Items to be Inspected	Yes	No	N/A
1. All MEWP lift components are in working condition (i.e. no loose or missing parts, torn or loose hoses, etc.) – if something can be easily loosened by hand then it is not sufficient.	☐	☐	☐
2. Hydraulic fluid level is sufficient, with the platform fully lowered	☐	☐	☐
3. Hydraulic system pressure (see manufacturer specs) is acceptable. If the pressure is low, determine cause and repair in accordance with accepted procedures as outlined in service manual.	☐	☐	☐
4. Tires and wheel lug nuts (for tightness)	☐	☐	☐
5. Hoses and cables (i.e. worn areas or chafing)	☐	☐	☐
6. Platform rails and safety gate (no damage present)	☐	☐	☐
7. Pivot pins secure	☐	☐	☐
8. Welds are not cracked and structural members are not bent or broken	☐	☐	☐
9. Warning and instructional labels are legible and secure, and load capacity is clearly marked.	☐	☐	☐
10. Manufacturer’s Instruction Manual is present inside the bucket	☐	☐	☐
11. Base controls (switches and push buttons) can be properly operated	☐	☐	☐
12. Platform conditions are safe (i.e. not slippery)	☐	☐	☐
13. Fire extinguisher is present, mounted and fully charged, located inside the bucket	☐	☐	☐
14. Headlights, safety strobe light and back-up alarm are functional	☐	☐	☐
15. Workplace is free of hazards (overhead powerlines, obstructions, level surface, high winds, etc.) *Do not operate if winds are 20 mph, unless otherwise specified by manufacturer recommendations.	☐	☐	☐

Operator Name & Signature	Location	Date
---------------------------	----------	------

Ground Control Name & Signature	Location	Date
---------------------------------	----------	------

Harness Inspections:

Printed Name	Signature	Date
--------------	-----------	------

Printed Name	Signature	Date
--------------	-----------	------

Printed Name	Signature	Date
--------------	-----------	------

Extended Hours Safety Audit

Project Number: OPP-2026-07-29-096876 Date: _____ Time: _____

When a project is expected to extend past a 14-hour work day, this form must be completed to evaluate the condition of the crew, and the safety of the work environment.

Permission to proceed into extended work hours must come from a District Manager (DM) or Regional Vice President (RVP). Technical RVPs can authorize moving forward, if they are in the field or if they are managing the project.

1. Hold test crew meeting Test crew initials: _____

The test leader should look for signs of the following in their crews:

- | | |
|----------------------|---|
| • Irritability | • Fatigue |
| • Lack of motivation | • Depression |
| • Headaches | • Reduced alertness, lack of concentration and memory |
| • Giddiness | |

The test leader should assess the environmental and hazardous concerns:

- | | |
|---------------------------|---|
| • Temperature and weather | • Hoisting |
| • Lighting | • PPE (i.e. respirators, etc.) |
| • Working from Heights | • Pollutant concentration in ambient air (SO ₂ , H ₂ S, etc.) |

2. **Notify DM or RVP**

The PM must contact either the DM or RVP to discuss the safety issues that may arise due to the extended work period. If the DM is the acting PM on the job site, they must contact the RVP. During this time, they can come to an agreement on how to proceed. Items to discuss include:

- | |
|-----------------------------|
| • Reason for extended hours |
| • Reason for delay |
| • Production limitations |
| • Impending Weather |

3. **Contact the client**

The PM, DM or RVP must discuss with client any identified safety concerns, the client's needs and mutually agree on how to proceed. Discussion should also include the appropriate rest period

needed before the next day's work shift can begin. The DM and/or a RVP must be informed on the final decision.

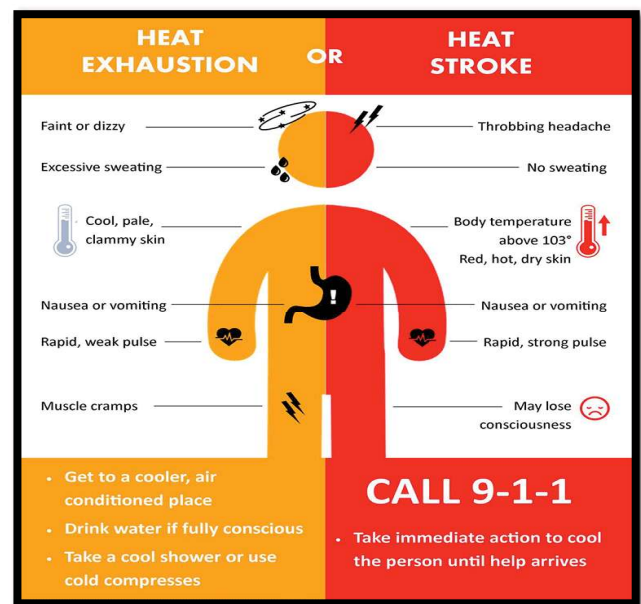
Final Outcome:	
Approver:	

Heat Stress Prevention Form

This form is to be used when the Expected Heat Index is above 91° F, and is to be kept with project documentation.

Project Manager (PM): Pete San Juan	Expected High Temp:
Date(s):	Expected Heat Index:

1. Review the signs of Heat Exhaustion and Heat Stroke
2. If Heat Index is above 91° F:
 - a. Provide cold water and/or sports drinks to all field staff (avoid caffeinated drinks and energy drinks which can increase core temperature).
 - b. Bring no less than one gallon of water per employee
 - c. If employee(s) are dehydrated, on blood pressure medication or not acclimated to heat, ensure they are aware of the heightened risk for heat illness
 - d. Provide cool head bands/vests/etc.
 - e. Have ice available to employees
 - f. Implement work shift rotations and breaks, particularly for employees working in direct sunlight.
 - g. Provide as much shade at the jobsite as possible, including tarps, tents or other acceptable temporary structures.
 - h. PM should interview each field staff periodically to evaluate for signs of heat illness
3. If Heat Index is above 103° F:
 - a. Employees must stop for drinks and breaks every hour (about 4 cups/hour)
 - b. Employees are not permitted to work alone for more than one hour at a time without a break offering shade and drinks
 - c. Employees should wear cool bands and vests if working outside more than one hour at a time
 - d. PM should interview each field staff every 2 hours to evaluate for signs of heat illness



THIS IS THE LAST PAGE OF THIS DOCUMENT

If you have any questions, please contact one of the following individuals by email or phone.

Name: Mr. Pete San Juan
Title: Field Project Manager
Region: West
Email: PSanjuan@onterris.com
Phone: (714) 279-6777

Name: Mr. Matt McCune
Title: Principal
Region: West
Email: MMccune@onterris.com
Phone: (714) 279-6777