

STATEMENT OF PROCEEDINGS SAN DIEGO COUNTY AIR POLLUTION CONTROL DISTRICT HEARING BOARD Regular Meeting, Thursday, April 13, 2023 9:00 a.m.

ORDER OF BUSINESS

ROLL CALL

Members present: Vilmarie Rodriguez, Chair; Alison Schlick, Vice Chair; Jose Gonzalez,

William Powers, and Daniel Spencer

Members absent: n/a

Staff present: Mary Mahoney, APCD Civil Actions Investigator; Scott Nester, APCD

Civil Actions Investigator; Dan Plotner, APCD Program Coordinator; William Jacques, Chief Compliance, Emily Helms, Senior Deputy County Counsel APCD and Mia Ruffier, APCD Clerk of the Hearing Board

SWORN OATH OF WITNESSES BY CLERK

All witnesses providing public testimony during the meeting were sworn-in by the Clerk of the APCD Hearing Board.

ADMINISTRATIVE ITEM:

A. Public Communication

No public testimony was provided to the Board.

B. Approval of Statement of Proceedings for February 23, 2023.

ACTION:

ON MOTION of Member Spencer, seconded by Member Powers, the Air Pollution Control District Hearing Board approved the Statement of Proceedings for the meeting of February 23, 2023.

AYES: Rodriguez, Gonzalez, Powers, Spencer

ABSENT: Schlick

C. Approval of Statement of Proceedings for March 23, 2023.



ACTION:

ON MOTION of Member Powers, seconded by Member Spencer, the Air Pollution Control District Hearing Board approved the Statement of Proceedings for the meeting of March 23, 2023.

AYES: Rodriguez, Gonzalez, Powers, Spencer

ABSENT: Schlick

D. Discussion: Revised Hearing Board Rules of Procedure.

ACTION:

ON MOTION of Chair Rodriguez, seconded by Vice Chair Schlick, the Air Pollution Control District Hearing Board moved to accept the discussed revisions into a new working draft and directed the Clerk to place the item for further discussion during the May 25, 2023 regularly scheduled meeting of the Air Pollution Control District Hearing Board.

AYES: Rodriguez, Schlick, Gonzalez, Powers, Spencer

PETITION(S) BEFORE THE BOARD:

4527 San Diego County Air Pollution Control District, County of San Diego Abatement Order against Respondent NEW LEAF BIOFUEL.

ACTION:

ON MOTION Member Spencer, seconded by Member Powers, the Air Pollution Control District Hearing Board accepted the District's Presentation as Exhibit 1.

AYES: Rodriguez, Schlick, Gonzalez, Powers, Spencer

ACTION:

ON MOTION Member Spencer, seconded by Vice Chair Schlick, the Air Pollution Control District Hearing Board accepted the Respondent's Presentation as Exhibit 2.

AYES: Rodriguez, Schlick, Gonzalez, Powers, Spencer

ACTION:

ON MOTION Chair Rodriguez, seconded by Vice Chair Schlick, the Air Pollution Control District Hearing Board accepted updates on Petition 4527 and directed the Clerk to notice Petition 4527: San Diego County Air Pollution Control District, County of San Diego Abatement Order against Respondent NEW LEAF BIOFUEL for additional status updates where possible action or modification can be taken during regularly scheduled meetings on June 22, 2023 and October 26, 2023.



AYES: Rodriguez, Schlick, Gonzalez, Powers, Spencer

4533 San Diego County Air Pollution Control District: Requests an Abatement Order against Respondent OLYMPIC COATINGS, an abrasive blasting and application of powder coatings to metal parts and products operation located at 1445 Simpson Way, Escondido CA 92029. Requested Abatement Order is not intended to act as a Variance. The District alleges the Respondent has not obtained the proper Permits to Operate, and seeks an Abatement Order with milestones requiring OLYMPIC COATINGS to comply with air quality rules.

ACTION:

ON MOTION of Chair Rodriguez, seconded by Member Powers, the Air Pollution Control District Hearing Board approved the Abatement Order as revised between the San Diego County Air Pollution Control District, Petitioner, and Olympic Coatings, Respondent.

AYES: Rodriguez, Schlick, Gonzalez, Powers, Spencer

4534 San Diego County Air Pollution Control District: Requests an Abatement Order against Respondent CYPRESS VIEW CREMATORY, a crematory located at 3953 Imperial Avenue, San Diego CA 92113. Requested Abatement Order is not intended to act as a Variance. The District alleges the Respondent has continued operate after two crematory units under Permits to Operate APCD2016-PTO-002653 and 002654 have failed source testing, and seeks an Abatement Order with milestones requiring CYPRESS VIEW CREMATORY to comply with air quality rules.

ACTION:

ON MOTION Vice Chair Schlick, seconded by Chair Rodriguez, the Air Pollution Control District Hearing Board accepted the Respondent's Presentation as Exhibit 1.

AYES: Rodriguez, Schlick, Gonzalez, Powers, Spencer

ACTION:

ON MOTION Vice Chair Schlick, seconded by Member Spencer, the Air Pollution Control District Hearing Board accepted the District's request to withdraw Petition 4534.

AYES: Rodriguez, Schlick, Gonzalez, Powers, Spencer

ADJOURNMENT:

The APCD Hearing Board adjourned the April 13, 2023 meeting at 1:08 p.m.

ASSISTANCE FOR THE DISABLED:

Agendas and records are available in alternative formats upon request. Contact the APCD Hearing Board Clerk at 858-586-2600 with questions or to request a disability-related accommodation including sign language interpretation. To the extent reasonably possible,



requests for accommodation or assistance should be submitted at least 72 hours in advance of the meeting so that arrangements may be made.

Pursuant to Government Code 54957.5, written materials distributed to the Hearing Board in connection with this agenda less than 72 hours before the meeting will be available to the public at the San Diego County Air Pollution Control District, 10124 Old Grove Road, San Diego, CA 92131.

The statements contained in this draft document are subject to change until they are approved in their final form by the Air Pollution Control District Hearing Board at a subsequent public meeting.



Public Communication A.

ACTION: No public testimony was provided to the Board.

MIA RUFFIER



B. Approval of Statement of Proceedings/Minutes for February 23, 2023

ACTION:

ON MOTION of Member Spencer, seconded by Member Powers, the Air Pollution Control District Hearing Board approved the Statement of Proceedings for the meeting of February 23, 2023.

AYES: Rodriguez, Gonzalez, Powers, Spencer

ABSENT: Schlick

MIA RUFFIER



C. Approval of Statement of Proceedings/Minutes for March 23, 2023

ACTION:

ON MOTION of Member Powers, seconded by Member Spencer, the Air Pollution Control District Hearing Board approved the Statement of Proceedings for the meeting of March 23, 2023.

AYES: Rodriguez, Gonzalez, Powers, Spencer

ABSENT: Schlick

MIA RUFFIER



D. Discussion: Revised Hearing Board Rules of Procedure

ACTION:

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AYES: Rodriguez, Schlick, Gonzalez, Powers, Spencer

MIA RUFFIER



COUNTY OF SAN DIEGO AIR POLLUTION CONTROL DISTRICT HEARING BOARD DRAFT BOARD ORDER

4527 San Diego County Air Pollution Control District, County of San Diego Abatement Order against Respondent NEW LEAF BIOFUEL.

Notice of time and place of hearing was given as required by law.

ACTION:

ON MOTION Member Spencer, seconded by Member Powers, the Air Pollution Control District Hearing Board accepted the District's Presentation as Exhibit 1.

AYES: Rodriguez, Schlick, Gonzalez, Powers, Spencer

ACTION:

ON MOTION Member Spencer, seconded by Vice Chair Schlick, the Air Pollution Control District Hearing Board accepted the Respondent's Presentation as Exhibit 2.

AYES: Rodriguez, Schlick, Gonzalez, Powers, Spencer

ACTION:

ON MOTION Chair Rodriguez, seconded by Vice Chair Schlick, the Air Pollution Control District Hearing Board accepted updates on Petition 4527 and directed the Clerk to notice Petition 4527: San Diego County Air Pollution Control District, County of San Diego Abatement Order against Respondent NEW LEAF BIOFUEL for additional status updates where possible action or modification can be taken during regularly scheduled meetings on June 22, 2023 and October 26, 2023.

AYES: Rodriguez, Schlick, Gonzalez, Powers, Spencer

MIA RUFFIER



04.13.23 APCD HB Petition 4527 – Exhibit 1



Stipulated Abatement Order Update

San Diego County Air Pollution Control District

Petition No. 4527

Hearing Board Meeting: April 13, 2023

2023



Stipulated Abatement Order (SAO) Update

1. Complaints & District Investigations

2. Odor Survey Results

3. Conclusion & District Recommendation



Before the ORS

32 Complaints



After the ORS





Before the ORS

80 Odor Surveys Conducted



After the ORS





- Five Onsite Facility Inspections:
 - Thursday, 3/2/2023, South Plant: No violations found
 - Wednesday, 3/8/2023, North Plant: No violations found
 - Wednesday, 3/15/2023, North Plant: Violation of Rule 1206 (asbestos)
 - Wednesday, 3/22/2023, North Plant: No violations found
 - Wednesday, 3/29/2023, North & South Plant: No violations found
- The District & New Leaf met six times, discussing North Plant odors
 - Odor mitigation needed at waste processing area



- Tuesday, 2/28/2023: Cooking Oil Spill on Road/Odor
 - Two complaints received @ 6:15pm
 - APCD Responded: 2/28/23
 - Different odor
 - Spill source was leaking truck
 - Spilled on public roadway
 - Cleaned up 2/28/23
 - No violations identified
 - Conclusion:
 - Odors not a result of ORS operation at the South Plant
 - Uncommon event



- Wednesday, 3/8/2023: Odor
 - Complaint received midday
 - Responded: 3/8/23 (same day)
 - Odors found at North Plant
 - Waste processing area



- Conclusion:
 - Odors not a result of ORS operation at the South Plant
 - Potential new odor source at the North Plant



- Tuesday, 3/14/2023: Odor
 - Complaint received @ 9:30pm
 - Responded: 3/14/23 (same evening) & 3/15/23
 - Strong/Distinct odor found at North Plant again
 - Wastewater pick up @ 9:00pm
 - Dirty, used cooking oil collection containers outside
 - Conclusion:
 - Odors not a result of ORS operation at the South Plant
 - Potential new odor sources at the North Plant
 - Increased District inspections and odor surveys
 - District & New Leaf meetings scheduled



complaint # 4





3/15/2023 Inspection Photo of Used Cooking Oil Collection Containers: North Plant

- Wednesday, 3/22/2023: Odor
 - Complaint received @ 2:54pm
 - Responded: 3/22/23 (same day, already onsite)
 - Odor at New Leaf reported
 - Waste pickup in-progress at North Plant
 - Conclusion:
 - Distinct odor at residences from South Plant operations
 - Faint to Distinct odor during waste pickup at North Plant



- Wednesday, 3/29/2023: Odor
 - Complaint received @ 6:44pm
 - Responded: 3/29/23 (same evening)
 - Strong odors found at North Plant near waste processing area
 - Other areas faint, very faint or no odor.
 - Conclusion:
 - Odors likely from waste processing area of North Plant



- Thursday, 4/6/2023: Odor
 - One complaint received @ 11:38am
 - Responded: 4/6/23 (same day 1-2pm)
 - Only very faint and mostly no odors found
 - Conclusion:
 - Odor not confirmed



2. Odor Survey Results: South Plant

Before ORS: 11/23/21 to 12/1/22

Odor Classification	No.	%
No Odor	7	4.3
Very Faint	4	2.5
Faint	30	18.8
Distinct	56	35.0
Strong	48	30.0
Very Strong	15	9.4
Total:	160	100%

After ORS: 12/2/22 to 4/12/23

Odor Classification	No.	%
No Odor	31	34.4
Very Faint	36	40.0
Faint	19	21.1
Distinct	4	4.4
Strong	0	0
Very Strong	0	0
Total:	90	99.9%

2. Odor Survey Results

Odors Near Residents with ORS Operating:

Odor Intensity	Odor Frequency	
Dec. 2, 2022 – Feb. 21, 2023		
No Odor	13	
Very Faint	9	
Faint	2	
Distinct	0	
Strong	0	
Very Strong	0	

Odor Intensity	Odor Frequency	
Feb. 22, 2023 – April 12, 2023		
No Odor	7	
Very Faint	8	
Faint	3	
Distinct	2	
Strong	0	
Very Strong	0	



3. Conclusion & Recommendation

- Odors reduced in intensity and frequency since ORS operation at the South Plant
- No new odor nuisance violations issued
- The North Plant may be contributing to odors in the community
 - Waste/sludge treatment processing
- New Leaf & the District have met several times to discuss North Plant odors
- New Leaf has their own proposals to mitigate North Plant odors



3. Conclusion & Recommendation

- The District recommends keeping the Order open
 - New Leaf to address North Plant odors
 - Board update June, 2023
 - District to continue its odor surveys





Stipulated Abatement Order Update

San Diego County Air Pollution Control District

Mary P. Mahoney

Civil Actions Investigator

2023





04.13.23 APCD HB Petition 4527 – Exhibit 2



Odor Control Update 4/13/23



Items Covered

- Odor Control System Review Pedro Palting
- Oil Spill Incident Pedro Palting
- Additional Odor Initiatives Chris White
 - Transfer and handling reduction
 - Reducing byproduct volumes
 - Reducing loading air volumes
 - Loading/unloading odor control
 - Oil container storage



Odor Control System (OCS) Review

This review covers

- Performance against baseline conditions
- Compliance record keeping
- Operational performance
- Startup Authorization compliance
- Monthly Reporting



OCS Operational Baseline

- Continuous system operation.
- Baseline pressure drop across the carbon filters was established at 21 inches water gauge. This sets the carbon replacement threshold at 25 inches water gauge pressure drop.
- Pressure drop is the difference in air pressure in the duct before and after the filters at points A&B and C&D on the diagram and gets higher if filter material becomes clogged.
- H2S in OCS discharge less than 1 ppmv.
- South Plant under negative pressure relative to the outside.
- No nuisance odors outside South Plant. During the recent windstorms there were instances of distinct odor from the roller door area.

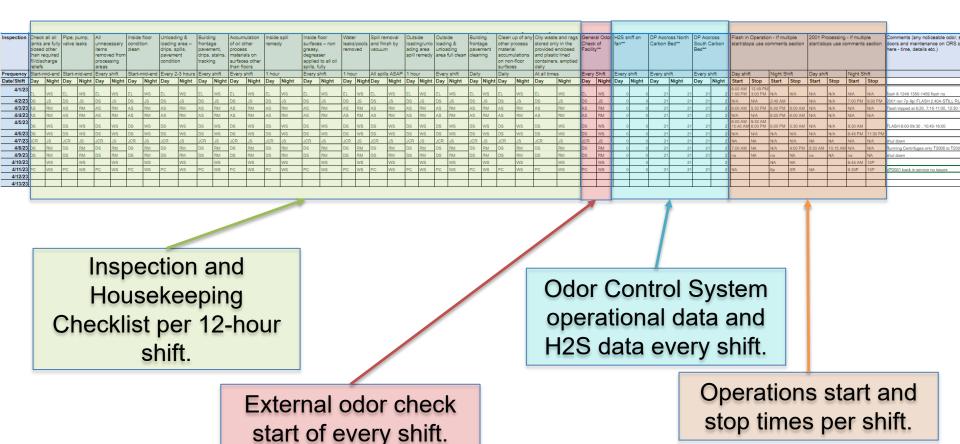


Odor Control System





Compliance Records



It was decided to include all the elements of the 30-day "Condition 4" compliance report in the daily odor management program to ensure any case of non-compliance can be addressed promptly. Operations times are included voluntarily to assist further improvement of odor control.



Operations

- The odor control system has run continuously since 12/2/22 except for four hours needed to install service slides and during a short (10 minute) power outage.
- Pressure drop across the carbon vessels has not increased since the baseline was established.
- Nuisance odors have not been observed.
- Strong westerly winds disturb the roller door plastics screens and create venturi effects around the door frame causing some distinct odor release.
- The plastic screens have been secured at the base to prevent this and further measures are being evaluated. If this is not sufficient, additional measures will be taken to ensure no odor release during high westerly wind conditions.



Vewleaf Baseline and Compliance Review

Condition	Compliance History	
Equipment and materials do not	100%	
deviate from ATC		
No nuisance odor, South Plant	100% Distinct odor during high wind	
	period, addressed by securing strips.	
OCS in good operating condition,	100% - one 4h shutdown for isolation	
notice of >24 hr shutdown for	slide installation notified to APCD.	
maintenance, maintenance log		
Inspect monitor evaluate control	100%. See attached report.	
efficiency of OCS monthly		
Differential pressure measured across	100%	
filter daily.		
H2S measured weekly, not to exceed	100%	
1PPMV.		
H2S measurement by approved	100%	
calibrated meter.		
Replace carbon if pressure drop is	No increase detected above baseline	
4 inWG above baseline.		
Activated carbon shall be replaced at	Due before 11/2/23	
least every 11 months		
Carbon service life records to be kept.	N/A	
South Plant to be kept under negative	100% by handheld.	
pressure.		
South Plant equipped with permanent	Specialist HVAC gauge has been	
pressure differential gauge.	installed.	

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Condition	Compliance History
Pressure readings each time the	100%
roll up doors are opened.	
All doors remain closed at all times	100%
other than for ingress and egress	
Plastics strips mounted across all	100% - further secured to prevent
doors	high wind impacts.
Process covers closed at all times.	100%
UCO containers covered	100%
Equipment used for VOC containing	100%
materials inspected for leaks daily	
Oil transfers to minimize leaks and	100%
all leaks cleaned up ASAP	
Cleanup/housekeeping only when	100%
OCS operational.	
Visible emissions from OCS stack	100% - no visible emissions.
comply with Rule 50	
Notify breakdown condition of OCS	N/A
to APCD	
Retain records for 3 years and	100%
make available to APCD	
Access and other assistance to	100%
ACPD on request.	
Comply with other agency permit	100%
requirements	
Comply with Air Toxics "Hot Spots"	100%
Information and Assessment Act.	



Condition 4 Reporting

Condition 4

The Permittee shall inspect, monitor, and evaluate the control efficiency of the odor control system once every 30 days and made available to District personnel upon request, so that detectable nuisance odor is not present outside the South Plant building property boundary. If the proposed odor control system is not capable of controlling the nuisance odorous compounds that are released from the South Plant building, the owner or operator shall propose a new or additional odor control system and implement permanent corrective actions upon District approval. (Rule 51)

Condition 4 Records 03/20/23 - 04/10/23

Condition 4	Condition 4 Records 03/20/23 - 04/10/23				
Date	Persons Responsible	Observations			
03/20/23	Pedro Palting	Building differential pressure check in normal range.			
03/27/23	Pedro Palting	Building differential pressure check in normal range.			
04/07/23	Pedro Palting	Building differential pressure check in normal range.			
Daily	Operators	Odor control system 100% operational			
Daily	Operators	Filter differential pressure less than 25 psi			
Daily	Operators	H2S in building or exhaust less than 1ppmV			
Daily	Operators	No detectable odor at filter fan exhaust.			
Daily	Operators	No nuisance odors detected at property boundary			
Daily	Operators	Housekeeping and compliance duties completed			
04/10/23	Administrative Coordinator, Staff	No odor complaints received directly by New Leaf during period			



Operations Data Collection

To assist in identifying any additional odor issues New Leaf is also collecting truck loading and operating time data and sharing with APCD

Truck Loading Activity							
	Gre	ase Trap U	nloading	Ludose Loading			
Date	Truck Start ID Time		Stop Time	Truck ID	Start Time	Stop Time	
03-24-23	B17	11:10	11:30	833	11:50	12:50	
03-24-23	B17	1:30	1:50		-	-	
03-24-23	B17	19:30	19:50		-	-	
03-25-23	B11	9:30	9:50		-	-	
03-25-23	B17	13:23	13:35		-	-	
03-27-23	B15	8:40	9:05	10	10:30	11:05	
03-27-23		-	-	10	11:20	11:40	
03-28-23	B17	11:30	11:50	10	12:15	12:30	
03-28-23	B15	12:00	12:10	10	12:40	13:00	
03-29-23	B18	4:48	5:03		-	-	
03-29-23	B15	11:00	11:15	Ludose	11:15	12:30	
03-29-23	B17	14:00	14:15		-	-	
03-30-23	B15	10:50	11:15	9833	19:15	19:25	
03-30-23	B8	11:30	11:46	-	-	-	

Operations Summary – South									
Inspection	Flash in Operation - If multiple start/stops use comments section			2001 Processing - If multiple start/stops use comments section				Comments (any noticeable odor, spills, deviations, opening of rollup doors and maintenance on ORS or issue that arise, please annotate here - time, details etc.)	
Frequency	Day shift Night Shift Day s		Day s	hift	Night	Shift			
Date/Shift	Start	Stop	Start	Stop	Start	Stop	Start	Stop	
4/1/23	6:00 AM 1:50 PM	12:49 PM 3:00 PM	N/A	N/A	N/A	N/A	N/A	N/A	flash 6-1249 1350-1459 flash na
4/2/23	N/A	N/A	2:40 AM		N/A	N/A	7:00 PM		2001 ran 7p-9p/ FLASH 2:40A-STILL RUNNING
4/3/23	6:00 AM	5:30 PM	6:00 PM	6:00 AM	N/A	N/A	N/A	N/A	Flash tripped at 6:20, 7:15-11:00, 12:30-14:15, 15:00- 16:50 Did not run 2001
4/4/23	N/A	N/A	6:00 PM	6:00 AM	N/A	N/A	N/A	N/A	
4/5/23	6:00 AM	9:30 AM	6:00 PM	5:30 AM	N/A	N/A	9:30 AM		FLASH 6:00-09:30, 10:40-18:00



Oil Leak Incident

- On February 28, 2023, a driver of a One More Time vehicle that discharges collected oil at New Leaf, failed to properly closed a truck valve.
- This allowed oil to leak during motion onto one rear wheel leaving an oil track on the road.
- As it was the driver's first visit to New Leaf, he circled the block a couple of times to find the offload location.
- One More Time is a subsidiary of Baker Commodities, the majority shareholder in New Leaf and is not managed by New Leaf.



Events

2/28/2023

- 15:47 NLB notified of a "mess outside"
- Oily tire marks were observed on Sicard Street and Newton Ave.

 Advised by One More Time company driver that a OMT truck was responsible.

 Immediately:
 - Initiated clean up response in the plant vicinity by New Leaf staff
 - Investigated the extent of the oil tracking and found it went for some distance.
 - Notified the manager of OMT and offered to arrange a clean up specialist for the more extensive tracks
 - Contacted the clean up specialist.
- 16:30 All the spills in the street around the plant and any tracking into the plant had been cleaned up by NLB Operations personnel.
- 16:40 Clean up specialist was working on the tracked oil.
- 20.00 Clean up specialist was still cleaning some of the neighboring streets.
- 3/1/23 An early morning inspection of the affected areas showed little sign of oil tracks remaining and no oil slick visible on now rain wet streets.



Key Paints

- This was not a New Leaf spill. However, we take any spill associated with the plant operations very seriously.
- New Leaf clean up methods use granular sorbent, sweeping and pickup which is highly effective but not practical for large areas.
- New Leaf also uses a cleaning "Zamboni" which sucks up all the water it uses for oil removal.
- The clean up specialist uses similar but much larger equipment for road cleaning. Water used for cleaning is vacuumed up by the equipment.
- No oil or cleaning water was hydro-blasted onto pavements or down drains.



New Leaf Additional Odor Controls

- As mentioned at previous hearings, New Leaf has been preparing additional control initiatives for odor and environmental safety for some time.
- These are in five areas
 - Reducing transfer steps to eliminate spill risk, truck traffic and odor generation
 - Reducing byproduct volumes that are combined with potential odor sources.
 - Air volume reduction during loading.
 - Point source control of displaced air during loading at Water Treatment.
 - Enclosed storage of restaurant tanks awaiting cleaning.



Reducing Transfer Steps

- New Leaf has been in the permit approval process to transfer materials from the South Plant to the North Plant via a pipeline under Sicard St (about 80ft) for over 18 months.
- This would eliminate up to 25 truck movements per day and the same number of loading and discharge events.
- Each loading and discharge event carries a risk of spills and a small potential for odor release.
- Many hours of truck engine operation each day would be eliminated.



Pipeline



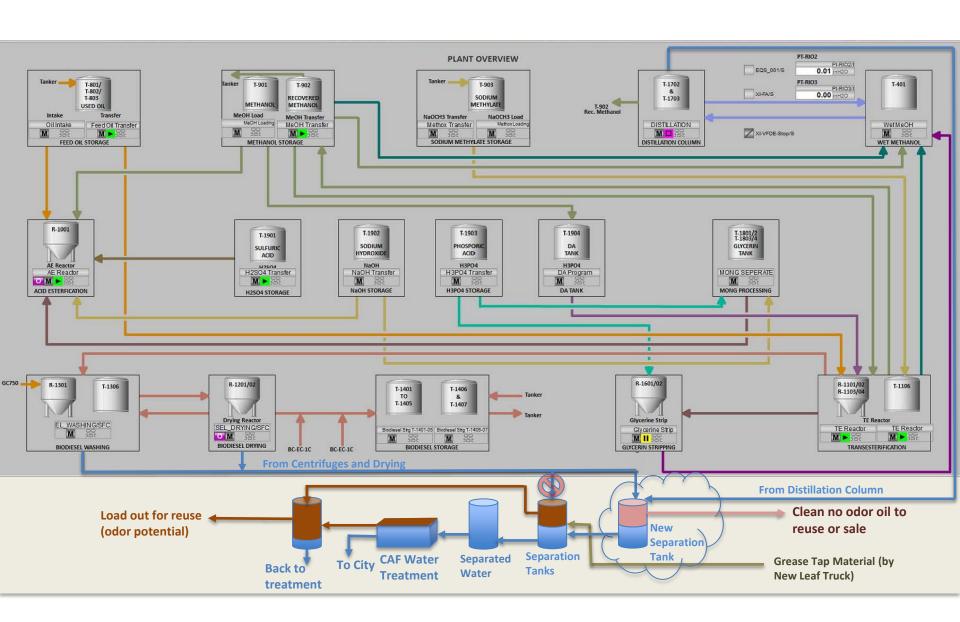


Reducing Byproduct Volumes

- Oil residues from South Plant processing, biodiesel manufacturing and restaurant grease trap material are separated from contained water in the New Leaf Water Treatment Facility.
- Some of these oil materials are potential odor sources so New Leaf has completed a six-month project to separate odorless materials prior to the loading for reuse.
- These changes will reduce the volume and loading events for potential odor causing material by 50% or more.

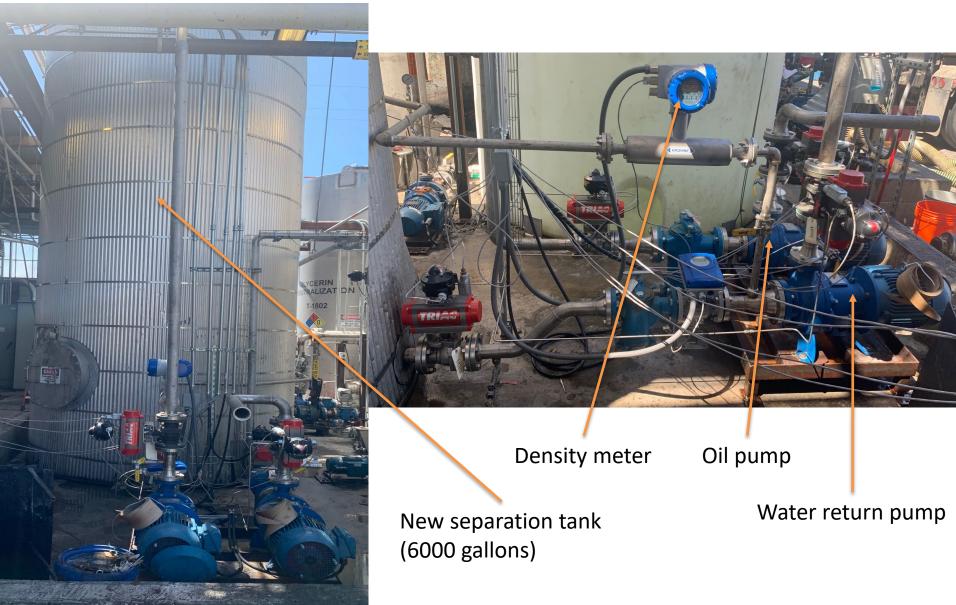


Gean Gil Recovery System





Gean Gil Recovery System





Reduced Air Volumes - Oil Loading

- Loading of oil materials for reuse from the Water Treatment facility requires the use of a vacuum truck as customer tankers are not vacuum equipped. This releases significantly more air that may contain odors than standard mechanical pumping.
- Mechanical pumping requires specialized equipment due to the large items in this material (rags, cutlery, gravel, food waste).
- New Leaf have sourced and modified a specialized pump able to pass large solid items without blocking.

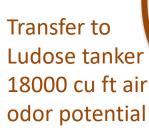


Previous Oil Loading

New Leaf PTO Tanker

Ludose Tanker

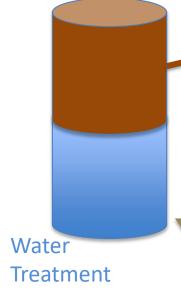
Fill tanker for transfer 17500 cuft air odor potential



18000 cu ft air

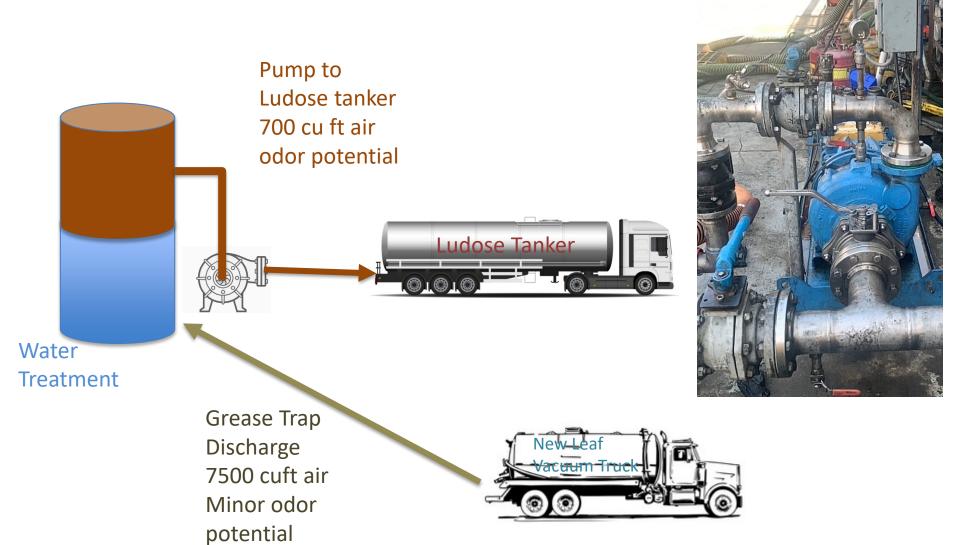
Grease Trap Discharge 7500 cuft air minor odor potential







Current Oil Loading



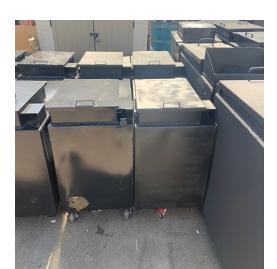


Oil Container Storage

- New Leaf has over 3000 oil containers at restaurants.
 These need periodic cleaning and maintenance. They are not normally a source of odor.
- Maintenance is carried out by a contractor off site, but containers are accumulated on site for shipping.
- New Leaf plan to keep these in closed trailers prior to transfer in future.
- Small trailers have been purchased for this purpose.









Oil Container Storage

The trailers a much smaller than those previously used for transport so the frequency of movement can be increased and the time and number of containers waiting for collection on site is reduced.



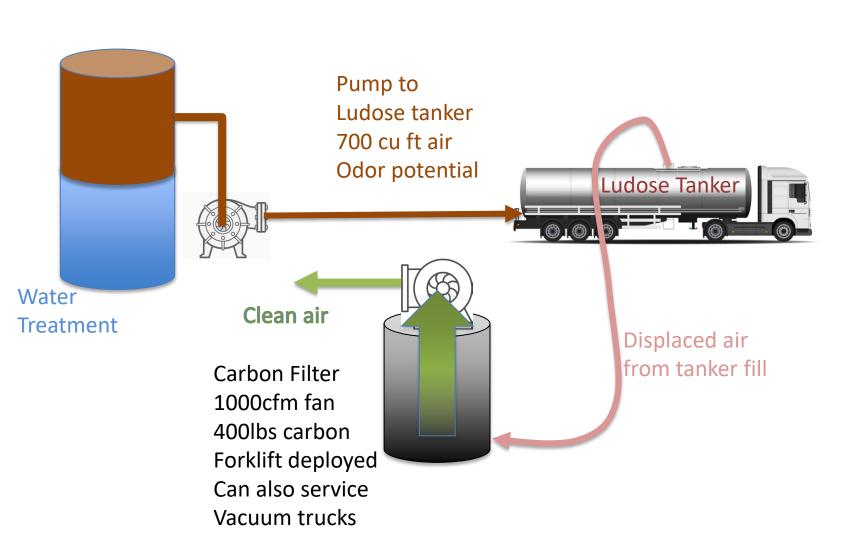


Oil Loading Odor Control

- Once air volumes are reduced by using a mechanical pump the remaining air displaced as a truck is loaded can be captured and filtered for odor.
- A portable carbon filter will be used to pass all air from truck filling or any other air effected truck pumping.
- This equipment has been ordered for delivery by the end of May.
- It can also be used for grease trap unloading.



Oil Loading Odor Control





Timing of Initiatives

Project	Start Date	Completion Date	Status/Issues
Pipeline \$330,000	August 2021	2024	Permitting approval
Reduced Oil Load Volume \$210,000	September 2022	4/4/23	In operation
Odor Reduction Oil Loading \$23,400	October 2022	4/6/22	In operation
Oil Container Storage \$11,000	3/23/23	4/12/23	In operation
Oil Loading Odor Control \$33,000	2/6/23	May 29, 2023	Parts lead time



Summary

- The New Leaf South Plant has remained in compliance since the start-up of the odor control system and odors are greatly reduced.
- The extended initiatives around odor control for the whole New Leaf operation have continued over the last 12 months and most are now operating or will start in the near future.
- New Leaf remains committed to eliminating any odor nuisance from its operations.



Questions



04.13.23 APCD HB Speaker Slips

Air Pollution Control District Hearing Board

DATE 4/13/23 Petition Number 4527
SUBJECT New Leaf Olor Pontry

REQUEST TO SPEAK

PLEASE PRINT NAME LEGIBLY

Name First	· 5	The lies of I	Mite ast	
Organization Name _	New	Lenf	Biq	fuel
Please check below:				
[Officer or Authori	zed Employee	for Petitioner		
[] Agent or Legal Re	presentation			
Request to a	peak form	prior to the	time this	t the "Publ
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PLEASE SEE GUIDE FOR SPEAKERS ON REVERSE

(FOR PETITIONER)
OTHER THAN APCD

Spike

Air Pollution Control District Hearing Board

DATE April 13, 2023 Petition Number 4527

SUBJECT New Leaf Biofack

REQUEST TO SPEAK

PLEASE PRINT NAME LEGIBLY

Name	Pedr ? First	s minuc s and the on best	ma pe ma pe	P	a /+: Last	Pale	ing
Organizati	on Name	Nen	, Le	a f	Bio	fuel	Fisher Dr All Dmitted, that
Please che	ck below:						
[4]Officer	or Author	ized Emp	loyee f	or Petiti	oner		
[] Agent o	or Legal R	epresenta	tion				
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PLEASE SEE GUIDE FOR SPEAKERS ON REVERSE

(FOR PETITIONER)
OTHER THAN APCD



04.13.23 APCD HB Public Testimony

4527	NEW LEAF UPDATE		
		Nicholas	Paul



COUNTY OF SAN DIEGO AIR POLLUTION CONTROL DISTRICT HEARING BOARD DRAFT BOARD ORDER

4533 San Diego County Air Pollution Control District: Requests an Abatement Order against Respondent OLYMPIC COATINGS, an abrasive blasting and application of powder coatings to metal parts and products operation located at 1445 Simpson Way, Escondido CA 92029. Requested Abatement Order is not intended to act as a Variance. The District alleges the Respondent has not obtained the proper Permits to Operate, and seeks an Abatement Order with milestones requiring OLYMPIC COATINGS to comply with air quality rules.

Notice of time and place of hearing was given as required by law.

ACTION:

ON MOTION of Chair Rodriguez, seconded by Member Powers, the Air Pollution Control District Hearing Board closed the hearing based on testimony provided and evidence submitted, the Board approved the attached Abatement Order, as revised, between the San Diego County Air Pollution Control District, Petitioner, and Olympic Coatings, Respondent, based on the terms and conditions set forth in the Abatement Order. This Abatement does not act as a Variance.

Petitioner and Respondent are to return to the Board with an update on the progress of the Abatement Order during a regularly scheduled meeting of the Air Pollution Control District Hearing Board on May 25, 2023. The Board thereby granted the District's request for a Stipulated Abatement Order against Respondent, OLYMPIC COATINGS effective immediately.

The Board thereby granted the District's request for an Abatement Order against Respondent, Olympic Coatings, effective immediately.

ADDITIONAL ENFORCEMENT CONDITIONS

After a thorough investigation of all relevant facts, including public comments, it was determined that the schedule for compliance set forth in the Order is as expeditious as practicable, that the terms of this Order comply with applicable sections of the State Health and Safety Code and that the following additional provisions shall apply:

1. If you believe that you cannot meet a condition in this Order or in any accompanying Schedule of Increments of Progress, you may petition the Hearing Board to modify this Order or Schedule of Increments of Progress pursuant to Health & Safety Code 40825, 40826, 42351.5, and 42356-42357. Modifying the Increments of Progress generally requires the same notice as a 90-day variance and extending the final compliance date requires the same notice as a regular variance; please consult the Hearing Board Calendar or Clerk for specific dates.



- 2. If you have any questions about how to comply with this Order, you may contact the District, attention Scott Nester, at (858) 586-2658. Unless otherwise stated, all submittals to the District pursuant to this Order shall be made to: San Diego Air Pollution Control District, Compliance Division, 10124 Old Grove Road, San Diego, CA 92131; or Email: scott.nester@sdapcd.org.
- 3. The U.S. Environmental Protection Agency (EPA) does not recognize variances granted under California state law. A Variance Order granted by this Board does not preclude either the EPA or citizens from seeking penalties for violations of federal law.
- 4. Failure to comply with any condition in this Order or in any accompanying Increments of Progress schedule may result in any of the following actions:
 - a. Enforcement pursuant to California Health and Safety Code Section 42400, 42401, 42402 or 42403, including possible judicial action for an injunction and/or civil penalties, and, in appropriate cases, criminal prosecution.
 - b. Revocation or modification of this Order under California Health and Safety Code Section 42356 or 42362, after notice and opportunity for a public hearing.

FAILURE TO COMPLY with any of the foregoing is a violation of this Order.

AYES: Rodriguez, Schlick, Gonzalez, Powers, Spencer

MIA RUFFIER

Clerk of the San Diego County Air Pollution Control District Hearing Board

1	SAN DIEGO COUNTY AIR POLLUTION CON' PAULA FORBIS, Air Pollution Control Officer SCOTT NESTER, Civil Actions Investigator	FROL DISTRICT
2	10124 Old Grove Road	
3	San Diego, California 92131 Telephone: 858-586-2650	
4	Petitioner Air Pollution Control District	
5		
6		SAN DIEGO COUNTY
7	AIR POLLUTION CONTR	OL DISTRICT HEARING BOARD
8		p.
9	SAN DIEGO COUNTY AIR POLLUTION CONTROL DISTRICT	No. 4533
10		ABATEMENT ORDER PURSUANT TO HEALTH & SAFETY CODE
11	Petitioner,	§ 42451(a)
12	OLYMPIC COATINGS,	Hearing Date: April 13, 2023
13		Time: 9:00 a.m. Place: 10124 Old Grove Road
14	Respondent.	San Diego, CA 92131
15		
16	The petition of the San Diego County Air Pollution	n Control District ("District") for an Abatement Order
17	came for hearing by this Board on April 13, 2023,	pursuant to the petition filed on February 21, 2023.
18	The District appeared and was represented by Scot	tt Nester, Civil Actions Investigator. The Respondent
19	was represented by Mr. Greg Ramirez. The public	was given the opportunity to testify. The Board
20	having heard sworn testimony and received exhibi	ts in evidence on behalf of the District, and the matter
21	having been submitted for decision, the Hearing B	oard makes the following findings and decision:
22	FINDING	GS OF FACT
23	1. Petitioner is an air pollution control district	duly authorized and existing under the laws of the
24	State of California and is the local agency respons	ible for air pollution control in San Diego County.
25	2. Respondent does business within the jurisd	iction of the District and operates abrasive blasting
26	and metal coating operations at 1445 Simpson Wa	y, Escondido, CA 92029.
27	3. Respondent was served with a copy of the	Petition for an Abatement Order by email sent to

Respondent's owner Greg Ramirez on February 22, 2023, and by USPS Certified Mail.

28

e. Respondent shall pay any fees for permit applications within five business days of the

1

District's issuance of an invoice or estimate.

- f. Respondent shall provide information for permit applications within five business days of the District's request.
- g. Respondent shall demonstrate compliance with Rule 67.3 and the NESHAP within five business days of this Order.
 - 2. Should Respondent fail to comply with any condition above, Respondent shall cease operations.
- 3. This Abatement Order does not act as a variance, and Respondent is subject to all rules and regulations of the District, and with all applicable provisions of California and federal law.
- 4. Violation of any requirement of this Order is subject to enforcement of California Health and Safety Code Sections 42400 through 42410 and 42453, including possible judicial action for an injunction and/or penalties, and, in appropriate cases, criminal prosecution.///

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ACTION: ON MOTION of Vice Chair Schlick, seconded by Chair Rodriguez, the Air Pollution Control District Hearing Board closed the hearing and granted the Abatement Order. AYES: Rodriguez, Schlick, Gonzalez, Powers, Spencer, It is so ordered. Vilmarie Rodriguez, Chair, APCD Hearing Board



04.13.23 APCD HB Speaker Slips

Stolke

Air Pollution Control District Hearing Board

DATE 4 13/23 Petition Number 4533
SUBJECT OLYMPIC COCHINGS
REQUEST TO SPEAK
PLEASE PRINT NAME LEGIBLY
Name Orciory Rominez
First
Organization Name Olympic Coutings
Please check below:
Officer or Authorized Employee for Petitioner
[] Agent or Legal Representation
. Comment" period commences. The form shall include, a
2. Any person wishing to address the Hearing Board must

PLEASE SEE GUIDE FOR SPEAKERS ON REVERSE

(FOR PETITIONER)

OTHER THAN APCD



COUNTY OF SAN DIEGO AIR POLLUTION CONTROL DISTRICT HEARING BOARD DRAFT BOARD ORDER

4534 San Diego County Air Pollution Control District: Requests an Abatement Order against Respondent CYPRESS VIEW CREMATORY, a crematory located at 3953 Imperial Avenue, San Diego CA 92113. Requested Abatement Order is not intended to act as a Variance. The District alleges the Respondent has continued operate after two crematory units under Permits to Operate APCD2016-PTO-002653 and 002654 have failed source testing, and seeks an Abatement Order with milestones requiring CYPRESS VIEW CREMATORY to comply with air quality rules.

Notice of time and place of hearing was given as required by law.

ACTION:

ON MOTION Vice Chair Schlick, seconded by Chair Rodriguez, the Air Pollution Control District Hearing Board accepted the Respondent's Presentation as Exhibit 1.

AYES: Rodriguez, Schlick, Gonzalez, Powers, Spencer

ACTION:

ON MOTION Vice Chair Schlick, seconded by Member Spencer, the Air Pollution Control District Hearing Board accepted the District's request to withdraw Petition 4534.

ADDITIONAL ENFORCEMENT CONDITIONS

After a thorough investigation of all relevant facts, including public comments, it was determined that the schedule for compliance set forth in the Order is as expeditious as practicable, that the terms of this Order comply with applicable sections of the State Health and Safety Code and that the following additional provisions shall apply:

- 1. If you believe that you cannot meet a condition in this Order or in any accompanying Schedule of Increments of Progress, you may petition the Hearing Board to modify this Order or Schedule of Increments of Progress pursuant to Health & Safety Code 40825, 40826, 42351.5, and 42356-42357. Modifying the Increments of Progress generally requires the same notice as a 90-day variance and extending the final compliance date requires the same notice as a regular variance; please consult the Hearing Board Calendar or Clerk for specific dates.
- 2. If you have any questions about how to comply with this Order, you may contact the District, attention Scott Nester, at (858) 586-2658. Unless otherwise stated, all submittals to the District pursuant to this Order shall be made to: San Diego Air Pollution Control District, Compliance Division, 10124 Old Grove Road, San Diego, CA 92131; or Email: scott.nester@sdapcd.org.



- 3. The U.S. Environmental Protection Agency (EPA) does not recognize variances granted under California state law. A Variance Order granted by this Board does not preclude either the EPA or citizens from seeking penalties for violations of federal law.
- 4. Failure to comply with any condition in this Order or in any accompanying Increments of Progress schedule may result in any of the following actions:
 - a. Enforcement pursuant to California Health and Safety Code Section 42400, 42401, 42402 or 42403, including possible judicial action for an injunction and/or civil penalties, and, in appropriate cases, criminal prosecution.
 - b. Revocation or modification of this Order under California Health and Safety Code Section 42356 or 42362, after notice and opportunity for a public hearing.

FAILURE TO COMPLY with any of the foregoing is a violation of this Order.

AYES: Rodriguez, Schlick, Gonzalez, Powers, Spencer

MIA RUFFIER

Clerk of the San Diego County Air Pollution Control District Hearing Board



04.13.23 APCD HB Petition 4534 – Exhibit 1

REVISED SOURCE TEST REPORT UNIT A & UNIT B EXHAUSTS

Source Location:

Cypress View Crematory 3953 Imperial Ave San Diego, California 92113 Facility ID: 046268 Device ID: PTO-002653 & PTO-002654

> Test Date: March 6 & 10, 2023 Issue Date: April 12, 2023

Prepared for:

American Crematory Equipment Company 6601 Darin Way Cypress, California 90630

Prepared by:

AirKinetics, Inc.
An Affiliate of Montrose Air Quality Services, LLC.
1631 E. St. Andrew Pl.
Santa Ana, CA 92705
(714) 254-1945
Report No.: W041AS-025761-RT-4461-R1





REVISED SOURCE TEST REPORT UNIT A & UNIT B EXHAUSTS

Test Dates: March 6 & 10, 2023 Issue Date: April 12, 2023

Prepared for: American Crematory Equipment Company 6601 Darin Way Cypress, California 90630

Prepared by: AirKinetics, Inc.,

An Affiliate of Montrose Air Quality Services Report No.: W041AS-025761-RT-4461-R1

Prepared By:

Francis Anyim Report Writer

Reviewed By:

Tony Wong VP Technical

AirKinetics, Inc. operated in conformance with the requirements set forth in ASTM D7036-04 and AirKinetics' Quality Manual during this test project.

Certified By:

Tony Wong President



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1.0 SUMMARY

1.1 Source Information

Plant Name and Address: Cypress View Crematory

3953 Imperial Ave

San Diego, California 92113

Facility ID No.: 046268

Source Tested: Unit A & Unit B Exhausts

Device ID No.: PTO-002653 & PTO-002654

Plant Contact: Shelby Richards

562-962-2876

Shelby@americancrematory.com

1.2 Testing Firm Information

Firm Name and Address: AirKinetics, Inc.,

An Affiliate of Montrose Air Quality Services, LLC.

1631 E. St. Andrew Pl. Santa Ana, California 92705

Firm Contact: Tony Wong

714-254-1945

Towong@montrose-env.com

Test Personnel: James Navarrete, Field Project Manager

Jorge Gonzalez, Field Project Manager Nick Herbert, Senior Field Technician

1.3 Test Information

Test Requested By: American Crematory Equipment Company

Firm Contact: Shelby Richards

562-926-2876

Shelby@americancrematory.com

Test Objective: To perform a compliance emissions test program in

compliance with SDAPCD.

Test Date: March 6 & 10, 2023

Test Methods: SDAPCD 1 Sampling Location/Traverse Points

SDAPCD 2 Flow Rate

SDAPCD 4 Moisture Content

SDAPCD 5 Particulate Matter Emissions



SDAPCD 100 Continuous Monitoring of Gaseous Emissions

1.4 Subcontractors: Subcontractors were not used for this project



2.0 TEST RESULTS AND DATA PRESENTATION

The test program results are summarized in Tables 2-1 and 2-2. All data pertaining to the tests are included in the appendices of this report. The SDAPCD Method 100 data for O₂, and CO₂ results, field data, and calibration gas certificates are presented in Appendix A. Particulate results tabulation and calculations, field data, analytical data, and equipment data are presented in Appendix B. Facility process data, CEMS stripchart, and permit to operate are presented in Appendix C.

TABLE 2-1
UNIT A SUMMARY TEST RESULTS

Parameter	Units	Results	Limit
O ₂ , %	%	13.6	
CO _{2,} %	%	4.60	
CO ₂ Concentration from charge (Fuel CO ₂ adjusted)	%	2.26	
Volumetric Flow Rate	dscfm	911	
	gr/dscf	0.0174	
Total PM	gr/dscf (Corrected @12% fuel adjusted CO ₂₎	0.0923	0.10



TABLE 2-2
UNIT B SUMMARY TEST RESULTS

Parameter	Units	Results	Limit
O ₂ , %	%	14.09	
CO ₂ , %	%	4.18	
CO ₂ Concentration from charge (Fuel CO ₂ adjusted)	%	2.29	
Volumetric Flow Rate	dscfm	992	
	gr/dscf	0.0140	
Total PM	gr/dscf (Corrected @12% fuel adjusted CO ₂₎	0.0733	0.10



3.0 INTRODUCTION

On March 6 & 10, 2023, AirKinetics, Inc. conducted a test program for American Crematory Equipment Company at the Cypress View Crematory Facility in San Diego, California. The test objective was to perform a compliance emissions test program in compliance with SDAPCD. Testing was conducted on Unit A & Unit B Exhausts.



4.0 SOURCE PROCESS AND EQUIPMENT DESCRIPTION

4.1 Process Description

The Cypress View Crematory has two (2) units used for human remains, both Model No. A-200 HT, S/N 091414-A and S/N 091414-B. Both are rated at 150 lbs/hr with a 750,000 btu per hour Eclipse Thermjet TJ 260075 Primary Burner, and 1 MMBtu per hour Thermjet TJ260100A Secondary Chamber Burner. This unit is equipped with an oxygen input and control device and a throat air modulation controlled by a Potentiometer.

4.2 **Location Description**

A summary of the test location information is presented in Table 4-1. A sampling location schematic is presented in Appendix A.2.0.

TABLE 4-1
TEST LOCATION INFORMATION

Cross			Sampling Location						
		Cross	Downstream from Flow Disturbance (B)*		Upstream from Flow Disturbance (A)*				
Location	Dimensions (inches)	Sectional Area (in ²)	Inches	Equivalent Diameters	Inches	Equivalent Diameters			
Exhaust Stack A	20.00	314.2	86.00	4.30	78.00	3.90			
Exhaust Stack B	20.00	314.2	146.00	7.30	18.00	0.90			

^{* (}A) and (B) refer to the schematic in Appendix A.2.0.



4.3 Process Operation

The process was operated at normal operating load. Process data is presented in Table 4-2.

TABLE 4-2
PROCESS DATA SUMMARY

Parameter	Units	Unit A	Unit B	Limit
Chamber Temperature	°F	1645	1696	>1600
Fuel Flow Rate	scfm	15.60	13.35	
Charge (Body) Weight	lbs	360	150	<450

Unit A & Unit B Exhausts Test Date: March 6 & 10, 2023



5.0 SAMPLING AND ANALYTICAL PROCEDURES

The test methods for this test program were presented previously in Table 1-1. Additional information regarding specific applications or modifications to standard procedures is presented below.

5.1 SDAPCD $100 - O_2$ and CO_2

SDAPCD Method 100 is used for the O2 and CO2 tests. O2 and CO2 concentrations are measured using one of MAQS' mobile emission measurement laboratories. MAQS employs the following special considerations:

• All sample extraction and conditioning components are thoroughly cleaned prior to use on this project to remove contamination and eliminate sample system bias.

All quality assurance procedures required by the method are performed on-site including: calibration error, sample system bias, and analyzer drift.

5.2 SDAPCD METHOD 2 – Velocity and Volumetric Flow Rate

The stack gas velocity and volumetric flow rate will be measured using SDAPCD Method 2, which utilizes an S-type pitot tube and type-K thermocouple.

5.3 SDAPCD METHOD 4 – Moisture

Stack gas moisture content will be measured according to SDAPCD Method 4 in conjunction with the PM test run.

5.4 SDAPCD METHOD 5 – Particulate

SDAPCD Method 5 determines emissions by collecting the flue gas sample isokinetically through a glass probe connected to an impinger train with a backup filter in between the 3rd and 4th impinger. After sampling the impinger train is weighed for moisture determination. The H2O impingers are then recovered into sample bottles. The nozzle, probe, sample line, impingers 1 through 3, and front half of the filter holder are recovered with acetone washes and brushing into amber glass bottles. The filter is

Source Test Report Cypress View Crematory Unit A & Unit B Exhausts Test Date: March 6 & 10, 2023



returned to a pre-numbered Petri dish. The entire procedure described for acetone washing is repeated using reagent grade water and combined with the impinger catch.

Particulate is determined gravimetrically using SDAPCD method 5 at MAQS' laboratory in Santa Ana, California. Reported results include gravimetric analysis of the dried filters, evaporated rinses from all fractions, and evaporated impinger contents. A list of the sampling and analytical procedures employed during this test program is presented in Table 5-1. Sampling method descriptions and schematics are presented in the Appendix D.



6.0 TEST CRITIQUE

Unit B Testing on March 6, 2023 was aborted due to failed post-test leak check. A retest was conducted on March, 10, 2023.

During Unit A sample recovery on March 6, 2023, filters were recovered in polyethylene bottles. As instructed by SDAPCD, the polyethylene bottles were rinsed with acetone and water and added to the recovered train rinses. 50 ml of acetone and 50 ml of water were used for the rinses. Unit B filter sample recovery on March 10, 2023 utilized a labelled petri dish.

No other anomalies occurred during the testing program.

APPENDIX A

O₂, AND CO₂

1.0 Results Tabulation and Calculations



SPAN GAS RECORD AND SCAQMD CALIBRATION ERROR/LINEARITY

DATE: 3/6/23

CLIENT/LOCATION: Cypress View Unit A Exhaust Stack TRUCK/CEM I.D.: TV7 BY: JN, JG, NH

				Exp.	Vendor	% of
	Gas	Cylinder#	Value	Date	ID	Range
ZERO	Low	DT0044045	0.0	NA		
O ₂	Mid	DT0040877	10.08	5/7/30	FF22022	50.4%
O ₂	High	CC89556	18.77	6/6/30	FF22022	93.9%
CO2	Mid	DT0040877	5.03	5/7/30	FF22022	50.3%
CO ₂	High	CC89556	9.68	6/6/30	FF22022	96.8%
_						

PRE-TEST INSTRUMENT CALIBRATION ERROR

		ANALYZER					
	O ₂	CO ₂		STATUS			
Analyzer Range	20	10					
Zero Gas Value	0.0	0.0					
Analyzer Reads	-0.016	-0.02					
Error (% of scale)	-0.1%	-0.2%		PASS			
High Gas Value	18.77	9.68	19494				
Analyzer Reads	18.76	9.71					
Error (% of scale)	0.0%	0.3%		PASS			
Mid Gas Value	10.08	5.03	11-2-2				
Analyzer Reads	10.06	5.15					
Error (% of scale)	-0.1%	1.2%		PASS			
Linearity at Mid Point	0.0%	1.1%		PASS			

RELATIVE ACCURACY TEST DATA AND WORKSHEET RUN NUMBER 1

		TEST CO	NSTANTS			A COLUMN		TEST VAR	ABLES	Yellow.	C 911
Station:		Cypress Vi						Start Date:	3/6/23		
Unit:		A Exhaust	Stack				Start/	End Time:	11:12	11:44	
Performe	ed By:	JN, JG, NF	1				Test	Condition:	0	MW	
Cp:		0.84					Barom.	Pressure:	29.72		
T _{ref} :		68	°F					Pstack:		iwg	
Stack Are	ea.	2.18	ft ²					Pstack:	29.72	"Hg	
Meter Y _d		0.000						MW:		lb/lb-mole	
Meter 19	METHOD 2.1 DATA						ME	THOD 100.	1 DATA		
	dP		Temp	Vel.				O ₂	CO ₂		
Point	(in. H ₂ O)	sqrt(dP)	°F	(fps)		Ana	lyzer Range	20	10		
4		- 4 - 4 - 7		(,)			al Gas Value	10.08	5.03		
3					1		t Direct Zero	-0.02	-0.02	0.00	
2							Direct Span	10.06	5.15	0.00	
1 1							System Zero	0.03	0.06		
4							System Span	10.07	5.33		
3			-1,744								
2			177								
1											
4											
3					ì	Post-Test	System Zero	0.02	0.00		
2						Post-Test S	System Span	10.05	5.13		
1					ľ	Post-Tes	t Direct Zero	-0.01	-0.09		
4						Post-Test	Direct Span	10.06	5.09		
3			X			Raw T	est Average	13.56	4.78		
2						Cal Correct	ted Average	13.60	4.60		
1											
Average							est zero bias	0.2%	0.8%		
							est span bias	0.0%	1.9%		
							est zero bias	0.2%	0.8%		
						Post-te	est span bias	0.0%	0.4%		
	Flow Rate:		kwacfm				Zero drift	0.0%	-0.6%		
Stack	Flow Rate:		kdscfm				Span drift	-0.1%	-2.0%		
	D 0	an Matan				D 4.1 DATA					
Time	•	ias Meter	T _m (out)	#/Matl.	End	ingers	Diff.				
Time	Vol.	T _m (in)	ı m(Out)		EUG	Start		Motor	Dranaura		iner
Start				H₂O			0.0		Pressure:	100	iwg
				H ₂ O			0.0		e Volume:	_	dscf
End			111111111111111111111111111111111111111	Empty			0.0	_	Volume :	0.000	scf
				SG			0.0	Moistur	e Content:		%
Total	0.000			Total			0.0				
						RESULTS					
					Ref. Meth	CEMS	Diff.	Diff. %			
			NO_x	ppm							
			O_2	%	13.60		13.60	100.0%			
				lb/hr							
				kdscfm							
			1104	RUSUIII							



SPAN GAS RECORD AND SCAQMD CALIBRATION ERROR/LINEARITY

CLIENT/LOCATION: Cypress View Unit B Exhaust Stack
TRUCK/CEM I.D.: 0 DATE: 3/10/23
BY: JN, JG

NA S S/7/30 FF22022 50.4% FF22022 50.3% FF22022 50.3%
8 5/7/30 FF22022 50.4% 7 6/6/30 FF22022 93.9%
7 6/6/30 FF22022 93.9%
5/7/30 FF22022 50.3%
6/6/30 FF22022 96.8%

PRE-TEST INSTRUMENT CALIBRATION ERROR

		ANALYZER					
	O ₂	CO ₂	NO _x	CO	SO ₂	STATUS	
Analyzer Range	20	10	0				
Zero Gas Value	0.0	0.0					
Analyzer Reads	-0.02	-0.03					
Error (% of scale)	-0.1%	-0.3%				PASS	
High Gas Value	18.77	9.68	0.00				
Analyzer Reads	18.77	9.69					
Error (% of scale)	0.0%	0.1%				PASS	
Mid Gas Value	10.08	5.03	0.00				
Analyzer Reads	10.07	5.19					
Error (% of scale)	-0.1%	1.6%				PASS	
Linearity at Mid Point	0.0%	1.7%				PASS	

RELATIVE ACCURACY TEST DATA AND WORKSHEET RUN NUMBER 1

		TEST CC	NSTANTS	- itua				TEST VAR	IABLES		
Station: Unit: Performe	ed By:	Cypress V B Exhaust JN, JG					Start/ Test	Start Date: End Time: Condition:	3/10/23 12:53 0	13:25 MW	
Cp: T _{ref} :		0.84 68	°F				Barom.	Pressure: Pstack:	29.72	iwg	
Stack Are	ea:	2.18	ft ²					Pstack:	29.72	"Hg	
Meter Y _d : 0.000						MW:		lb/lb-mole			
METHOD 2.1 DATA							ME	THOD 100	1 DATA		
	dΡ		Temp	Vel.				O ₂	CO ₂	NO _x	
Point	(in. H ₂ O)	sgrt(dP)	°F	(fps)		Ana	lyzer Range	20	10	0	
4	(04.4(0.7		(- /			I Gas Value	10.08	5.03	0.00	
3							Direct Zero	-0.02	-0.03	0.00	
2						Pre-Test	Direct Span	10.07	5.19	0.00	
1						Pre-Test S	System Zero	0.04	0.10		
4			- 1			Pre-Test S	ystem Span	10.08	5.23		
3											
2			-								
1											
4						Doot Took	D	0.05	0.14		
3							System Zero System Span	10.10	5.26		
2							Direct Zero	-0.01	0.09	_	_
4							Direct Span	10.06	5.29		
3							est Average	14.09	4.38		
2					Ĥ		ted Average	14.09	4.18		
1											
Average							est zero bias	0.3%	1.3%		
							st span bias	0.1%	0.3%		
							est zero bias	0.3%	0.6%		
						Post-te	st span bias	0.2%	-0.3%		
	Flow Rate:		kwacfm				Zero drift	0.0%	0.5%		
Stack	Flow Rate:		kdscfm		METHO	D 4.1 DATA	Span drift	0.1%	0.3%	7755	
	Dry G	as Meter				ingers					
Time	Vol.	T _m (in)	T _m (out)	#/Matl.	End	Start	Diff.				
Start	701.	- 111("'')	. ///(001)	H ₂ O	_110		0.0	Meter	Pressure:		iwg
Start			The I								dscf
			- 1111-1	H₂O			0.0		e Volume:		
End				Empty			0.0	_	Volume :		scf
_	0.000			SG			0.0	Moistur	e Content:		%
Total	0.000			Total		RESULTS	0.0				1 1 11
					Ref. Meth	CEMS	Diff.	Diff. %			
			NO _x	nnm	i (ci. ivicui	OLIVIO	Dill.	DIII. 70			
					14.00		14.00	100 00/			
			O ₂		14.09		14.09	100.0%			
			NO _x								
			Flow	kdscfm							

APPENDIX A

O₂, AND CO₂

2.0 Field Data (DAS)



				110
Doto	Tires	O ₂ %	CO₂ %	NO _x PPM
Date	Time 9:21:00 AM	0.086	-0.065	PPIVI
3/6/2023 3/6/2023		-0.012	-0.003	
	9:22:00			
3/6/2023	9:23:00	9.672	5.166	
3/6/2023	9:24:00	18.634	9.605	
3/6/2023	9:25:00	18.683	9.666	
3/6/2023	9:26:00	13.516	6.785	
3/6/2023	9:27:00	10.048	5.169	
3/6/2023	9:28:00	5.461	2.674	
3/6/2023	9:29:00	-0.022	0.047	
3/6/2023	9:30:00	-0.004	0.008	
3/6/2023	9:31:00	-0.006	-0.017	
3/6/2023	9:32:00	-0.007	-0.017	
3/6/2023	9:33:00	13.827	7.287	
3/6/2023	9:34:00	18.784	9.648	
3/6/2023	9:35:00	18.772	9.684	
3/6/2023	9:36:00	18.768	9.685	
3/6/2023	9:37:00	11.698	5.912	
3/6/2023	9:38:00	10.059	5.185	
3/6/2023	9:39:00	10.056	5.184	
3/6/2023	9:40:00	10.055	5.173	
3/6/2023	9:41:00	10.053	5.173	
3/6/2023	9:42:00	10.051	5.172	
3/6/2023	9:43:00	12.518	3.901	
3/6/2023	9:44:00	20.792	0.151	
3/6/2023	9:45:00	20.797	0.154	
3/6/2023	9:46:00	20.797	0.138	
3/6/2023	9:47:00	20.795	0.133	
3/6/2023	9:48:00	20.801	0.132	
3/6/2023	9:49:00	20.807	0.142	
3/6/2023	9:50:00	20.802	0.132	
3/6/2023	9:51:00	20.799	0.125	
3/6/2023	9:52:00	20.805	0.128	
3/6/2023	9:53:00	20.799	0.129	
3/6/2023	9:54:00	20.802	0.133	
3/6/2023	9:55:00	20.809	0.126	
3/6/2023	9:56:00	20.825	0.124	
3/6/2023	9:57:00	20.826	0.127	
3/6/2023	9:58:00	20.834	0.121	
3/6/2023	9:59:00	20.837	0.107	
3/6/2023	10:00:00	20.837	0.118	
3/6/2023	10:01:00	20.841	0.106	
3/6/2023	10:02:00	20.833	0.102	
3/6/2023	10:03:00	20.835	0.12	
3/6/2023	10:04:00	20.833	0.111	
3/6/2023	10:05:00	20.838	0.113	
3/6/2023	10:06:00	20.837	0.119	
3/6/2023	10:07:00	20.84	0.134	
3/6/2023	10:08:00	20.838	0.134	
3/6/2023	10:09:00	13.228	0.128	
3/6/2023	10:10:00	0.001	0.064	
3/6/2023	10:11:00	-0.004	0.007	
3/6/2023	10:12:00	-0.007	0.002	



		O_2	CO ₂	NO _x
Date	Time	%	<u>%</u>	PPM
3/6/2023	10:13:00	-0.01	0.002	
3/6/2023	10:14:00	-0.012	0.018	
3/6/2023	10:15:00	-0.014	-0.006	7
3/6/2023	10:16:00	-0.016	-0.02	Direct Zero
3/6/2023	10:17:00	14.445	7.58	
3/6/2023	10:18:00	18.764	9.643	
3/6/2023	10:19:00	18.764	9.688	_
3/6/2023	10:20:00	18.763	9.713	Direct High (O2, CO2)
3/6/2023	10:21:00	12.211	6.149	
3/6/2023	10:22:00	10.063	5.148	Direct Mid (O2, CO2)
3/6/2023	10:23:00	14.799	2.865	
3/6/2023	10:24:00	4.968	0.243	
3/6/2023	10:25:00	0.082	0.044	
3/6/2023	10:26:00	0.029	0.059	Sys Cal (Zero)
3/6/2023	10:27:00	15.837	0.715	
3/6/2023	10:28:00	12.357	4.111	
3/6/2023	10:29:00	11.379	4.605	
3/6/2023	10:30:00	10.497	5.003	
3/6/2023	10:31:00	10.487	5.018	
3/6/2023	10:32:00	19.01	0.876	
3/6/2023	10:33:00	20.825	0.124	
3/6/2023	10:34:00	20.836	0.123	
3/6/2023	10:35:00	16.123	2.954	
3/6/2023	10:36:00	13.491	4.371	
3/6/2023	10:37:00	13.513	4.371	
3/6/2023	10:38:00	13.556	4.359	
3/6/2023	10:39:00	13.577	4.309	
3/6/2023	10:40:00	13.71	4.231	
3/6/2023	10:41:00	13.716	4.243	
3/6/2023	10:42:00	13.675	4.265	
3/6/2023	10:43:00	13.65	4.292	
3/6/2023	10:44:00	13.684	4.279	
3/6/2023	10:45:00	13.659	4.29	
3/6/2023	10:46:00	13.66	4.306	
3/6/2023	10:47:00	13.625	4.327	
3/6/2023	10:48:00	13.628	4.327	
3/6/2023	10:49:00	13.676	4.303	
3/6/2023	10:50:00	8.661	4.038	7.
3/6/2023	10:51:00	10.065	5.333	Sys Cal (Mid)
3/6/2023	10:52:00	10.064	5.343	
3/6/2023	10:53:00	12.828	4.537	
3/6/2023	10:54:00	13.701	4.315	
3/6/2023	10:55:00	13.645	4.368	
3/6/2023	10:56:00	13.628	4.375	
3/6/2023	10:57:00	13.799	4.277	
3/6/2023	10:58:00	14.213	4.027	
3/6/2023	10:59:00	14.378	3.923	
3/6/2023	11:00:00	14.095	4.096	
3/6/2023	11:01:00	14.201	4.066	
3/6/2023	11:02:00	14.053	4.157	
3/6/2023	11:03:00	13.776	4.298	



				NO
ъ.	-	O ₂	CO ₂	NO _x
Date	Time	%	<u>%</u> 4.21	PPM
3/6/2023	11:04:00	13.944		
3/6/2023	11:05:00	13.963	4.214	
3/6/2023	11:06:00	13.931	4.217	
3/6/2023	11:07:00	13.88	4.241	
3/6/2023	11:08:00	13.998	4.206	
3/6/2023	11:09:00	15.318	3.416	
3/6/2023	11:10:00	15.185	3.612	
3/6/2023	11:11:00	14.5	4.304	
3/6/2023	11:12:00	14.227	4.581	TILES A DM Cook
3/6/2023	11:13:00	13.64	5.167	Unit A PM Start
3/6/2023	11:14:00	13.685	5.035	
3/6/2023	11:15:00	13.72	4.965	
3/6/2023	11:16:00	13.789	4.856	
3/6/2023	11:17:00	14.077	4.594	
3/6/2023	11:18:00	14.061	4.579	
3/6/2023	11:19:00	13.552	4.942	
3/6/2023	11:20:00	13.352	5.088	
3/6/2023	11:21:00	13.243	5.157	
3/6/2023	11:22:00	13.334	5.091	
3/6/2023	11:23:00	13.584	4.902	
3/6/2023	11:24:00	13.728	4.773	
3/6/2023	11:25:00	13.906	4.632	
3/6/2023	11:26:00	14.08	4.513	
3/6/2023	11:27:00	14.254	4.373	
3/6/2023	11:28:00	14.203	4.406	
3/6/2023	11:29:00	14.213	4.367	
3/6/2023	11:30:00	14.403	4.213	
3/6/2023	11:31:00	14.367	4.244	
3/6/2023	11:32:00	14.138	4.412	
3/6/2023	11:33:00	14.142	4.415	
3/6/2023	11:34:00	14.127	4.424	
3/6/2023	11:35:00	14.048	4.486	
3/6/2023	11:36:00	13.988	4.514	
3/6/2023	11:37:00	14.052	4.441	
3/6/2023	11:38:00	14.113	4.395	
3/6/2023	11:39:00	14.119	4.391	
3/6/2023	11:40:00	14.204	4.326	
3/6/2023	11:41:00	14.216	4.307	
3/6/2023	11:42:00	14.234	4.272	
3/6/2023	11:43:00	14.323	4.188	
3/6/2023	11:44:00	14.276	4.218	
3/6/2023	11:45:00	14.157	4.295	
3/6/2023	11:46:00	14.146	4.296	
3/6/2023	11:47:00	14.057	4.35	
3/6/2023	11:48:00	14.072	4.357	
3/6/2023	11:49:00	14.052	4.382	
3/6/2023	11:50:00	13.915	4.482	
3/6/2023	11:51:00	13.795	4.585	
3/6/2023	11:52:00	13.761	4.595	
3/6/2023	11:53:00	13.691	4.645 4.72	
3/6/2023	11:54:00	13.555		
3/6/2023	11:55:00	13.588	4.693	



		O ₂	CO ₂	NO _x
Data	Times	%	%	PPM
Date	Time			PPINI
3/6/2023	11:56:00	13.566	4.708	
3/6/2023	11:57:00	13.627	4.668	
3/6/2023	11:58:00	13.495	4.767	
3/6/2023	11:59:00	13.416	4.845	
3/6/2023	12:00:00	13.361	4.886	
3/6/2023	12:01:00	13.367	4.869	
3/6/2023	12:02:00	13.333	4.873	
3/6/2023	12:03:00	13.35	4.857	
3/6/2023	12:04:00	13.263	4.942	
3/6/2023	12:05:00	13.085	5.075	
3/6/2023	12:06:00	12.98	5.145	
3/6/2023	12:07:00	12.79	5.309	
3/6/2023	12:08:00	12.611	5.435	
3/6/2023	12:09:00	12.561	5.455	
3/6/2023	12:10:00	12.539	5.483	
3/6/2023	12:11:00	12.686	5.425	
3/6/2023	12:12:00	12.569	5.518	
3/6/2023	12:13:00	10.812	6.948	Port Chang
3/6/2023	12:14:00	14.536	4.647	
3/6/2023	12:15:00	14.116	4.924	
3/6/2023	12:16:00	11.827	6.089	
3/6/2023	12:17:00	14.6	4.339	
3/6/2023	12:17:00	12.97	5.184	
3/6/2023	12:19:00	13.218	4.99	
3/6/2023	12:19:00	13.447	4.799	
3/6/2023	12:21:00	15.033	3.819	
	12:22:00		4.492	
3/6/2023		13.859		
3/6/2023	12:23:00	13.956	4.408	
3/6/2023	12:24:00	13.952	4.419	
3/6/2023	12:25:00	13.779	4.559	- Down D
3/6/2023	12:26:00	14.84	3.959	Port B
3/6/2023	12:27:00	13.536	4.712	
3/6/2023	12:28:00	13.454	4.785	
3/6/2023	12:29:00	14.878	3.946	
3/6/2023	12:30:00	13.527	4.695	
3/6/2023	12:31:00	13.601	4.651	
3/6/2023	12:32:00	13.717	4.581	
3/6/2023	12:33:00	13.673	4.602	
3/6/2023	12:34:00	13.564	4.692	
3/6/2023	12:35:00	13.487	4.739	
3/6/2023	12:36:00	13.485	4.738	
3/6/2023	12:37:00	13.416	4.783	
3/6/2023	12:38:00	13.411	4.77	
3/6/2023	12:39:00	13.401	4.79	
3/6/2023	12:40:00	13.429	4.751	
3/6/2023	12:41:00	13.438	4.753	
3/6/2023	12:42:00	13.34	4.833	
3/6/2023	12:43:00	13.328	4.826	
3/6/2023	12:44:00	13.23	4.878	
3/6/2023	12:44:00	13.249	4.865	
3/6/2023	12:45:00	13.321	4.803	
3/6/2023	12:47:00	13.167	4.938	



		O_2	CO_2	NO_x
Date	Time	%	%	PPM
3/6/2023	12:48:00	14.299	4.326	- -
3/6/2023	12:49:00	13.032	5.038	
3/6/2023	12:50:00	12.865	5.189	
3/6/2023	12:51:00	13.911	4.573	
3/6/2023	12:52:00	12.747	5.354	
3/6/2023	12:53:00	12.517	5.432	
3/6/2023	12:54:00	14.1	4.461	
3/6/2023	12:55:00	12.939	5.212	
3/6/2023	12:56:00	12.88	5.159	
3/6/2023	12:57:00	13.852	4.511	
3/6/2023	12:58:00	13.572	4.813	
3/6/2023	12:59:00	12.837	5.192	
3/6/2023	13:00:00	14.371	4.328	
3/6/2023	13:01:00	12.582	5.35	
3/6/2023	13:02:00	13.172	4.951	
3/6/2023	13:03:00	14.064	4.547	
3/6/2023	13:04:00	12.873	5.128	
3/6/2023	13:05:00	14.719	4.08	
3/6/2023	13:06:00	12.82	5.176	
3/6/2023	13:07:00	12.991	5.04	
3/6/2023	13:08:00	14.447	4.296	
3/6/2023	13:09:00	12.261	5.529	
3/6/2023	13:10:00	14.307	4.495	
3/6/2023	13:11:00	11.558	6.053	
3/6/2023	13:12:00	14.247	4.511	
3/6/2023	13:13:00	11.744	5.93	
3/6/2023	13:14:00	14.268	4.489	
3/6/2023	13:15:00	11.814	5.853	
3/6/2023	13:16:00	14.442	4.404	
3/6/2023	13:17:00	12.067	5.683	
3/6/2023	13:18:00	14.193	4.527	
3/6/2023	13:19:00	12.735	5.269	
3/6/2023	13:20:00	13.7	4.82	
3/6/2023	13:21:00	13.311	4.937	
3/6/2023	13:22:00	13.204	5.118	
3/6/2023	13:23:00	13.739	4.704	
3/6/2023	13:24:00	12.861	5.327	
3/6/2023	13:25:00	13.954	4.603	
3/6/2023	13:26:00	12.615	5.483	End of PM Run 1 (13:25
3/6/2023	13:27:00	14.2	4.481	•
3/6/2023	13:28:00	12.157	5.737	
3/6/2023	13:29:00	14.871	4.137	
3/6/2023	13:30:00	11.642	5.973	
3/6/2023	13:31:00	15.055	4.017	
3/6/2023	13:32:00	11.109	5.542	
3/6/2023	13:33:00	0.107	0.018	
3/6/2023	13:34:00	0.024	-0.003	System Cal (Zero)
3/6/2023	13:35:00	7.713	3.948	
3/6/2023	13:36:00	10.05	5.101	
3/6/2023	13:37:00	10.054	5.13	System Cal Mid (O2, Co
	13:38:00	11.599	6.195	Joystoni Odi Mila (OZ, O
3/6/2023	13:39:00	11.599	6.651	
3/6/2023	13.38.00	11.479	0.001	



		O_2	CO2	NO _x	
Date	Time	%	%	PPM	
3/6/2023	13:40:00	11.818	6.386		
3/6/2023	13:41:00	12.038	6.221		
3/6/2023	13:42:00	12.338	5.994		
3/6/2023	13:43:00	18.175	1.788		
3/6/2023	13:44:00	11.264	-0.002		
3/6/2023	13:45:00	-0.006	-0.104		
3/6/2023	13:46:00	-0.013	-0.087	Direct Zero	
3/6/2023	13:47:00	6.485	3.363	-	
3/6/2023	13:48:00	10.06	5.085	Direct Span	
3/6/2023	13:49:00	1.689	0.633	_	
3/6/2023	13:50:00	15.176	8.012		
3/6/2023	13:51:00	18.751	9.619	Direct High (O2, CO2)	
3/6/2023	13:52:00	19.749	4.739		
3/6/2023	13:53:00	20.796	0.005		
3/6/2023	13:54:00	20.796	0.001		Bey
3/6/2023	13:55:00	20.798	0.006		Dey
3/6/2023	13:56:00	20.801	-0.003		
3/6/2023	13:57:00	20.802	-0.011		
3/6/2023	13:58:00	20.804	-0.01		
3/6/2023	13:59:00	20.802	-0.029		
3/6/2023	14:00:00	20.801	-0.018		
3/6/2023	14:01:00	20.801	-0.017		
3/6/2023	14:02:00	20.803	- 0.001		
3/6/2023	14:02:00	20.804	-0.01		
3/6/2023	14:04:00	20.804	-0.017		
3/6/2023	14:05:00	20.804	-0.019		
3/6/2023	14:06:00	20.802	-0.011		
3/6/2023	14:07:00	20.803	-0.016		
3/6/2023	14:08:00	20.804	-0.017		
3/6/2023	14:09:00	20.804	-0.019		
3/6/2023	14:10:00	16.043	2.79		
3/6/2023	14:11:00	13.478	4.182		
3/6/2023	14:12:00	13.414	4.201		
3/6/2023	14:13:00	13.384	4.216		
3/6/2023	14:14:00	13.322	4.258		
3/6/2023	14:15:00	13.299	4.25		
3/6/2023	14:16:00	13.362	4.224		
3/6/2023	14:17:00	13.449	4.159		
3/6/2023	14:18:00	13.401	4.185		
3/6/2023	14:19:00	13.385	4.201		
3/6/2023	14:20:00	13.411	4.22		
3/6/2023	14:21:00	13.345	4.252		
3/6/2023	14:22:00	13.527	4.133		
3/6/2023	14:23:00	13.508	4.142		
3/6/2023	14:24:00	13.485	4.172		
3/6/2023	14:25:00	13.517	4.139		
3/6/2023	14:26:00	13.598	4.081		
3/6/2023	14:27:00	13.571	4.111		
3/6/2023	14:28:00	13.466	4.162		
3/6/2023	14:29:00	13.517	4.141		
3/6/2023	14:30:00	13.565	4.114		
3/6/2023	14:31:00	13.441	4.17		

Beyond this point will not be used for B-M5-1



		O_2	CO ₂	NO_x
Date	Time	%	%	PPM
3/6/2023	14:32:00	13.656	4.047	
3/6/2023	14:33:00	13.511	4.109	
3/6/2023	14:34:00	13.601	4.078	
3/6/2023	14:35:00	13.57	4.102	
3/6/2023	14:36:00	13.583	4.08	
3/6/2023	14:37:00	13.611	4.096	
3/6/2023	14:38:00	13.637	4.068	
3/6/2023	14:39:00	13.612	4.09	
3/6/2023	14:40:00	13.606	4.091	
3/6/2023	14:41:00	13.587	4.092	
3/6/2023	14:42:00	13.628	4.065	
3/6/2023	14:43:00	13.514	4.11	
3/6/2023	14:44:00	13.67	4.025	
3/6/2023	14:45:00	13.64	4.059	
3/6/2023	14:46:00	13.624	4.062	
3/6/2023	14:47:00	13.625	4.059	
3/6/2023	14:48:00	13.648	4.044	
3/6/2023	14:49:00	13.739	3.997	
3/6/2023	14:50:00	13.735	4.051	
3/6/2023	14:51:00	13.705	4.044	
3/6/2023	14:51:00	13.703	4.105	
	14:52:00		4.103	
3/6/2023	14:53:00	13.723 13.701		
3/6/2023			4.043 3.984	
3/6/2023	14:55:00	13.759		
3/6/2023	14:56:00	13.68	4.044	
3/6/2023	14:57:00	13.692	4.051	
3/6/2023	14:58:00	13.682	4.03	
3/6/2023	14:59:00	13.741	4.001	
3/6/2023	15:00:00	13.777	3.974	
3/6/2023	15:01:00	13.79	3.974	
3/6/2023	15:02:00	13.749	4.01	
3/6/2023	15:03:00	13.74	4.021	
3/6/2023	15:04:00	13.687	4.052	
3/6/2023	15:05:00	13.765	3.997	
3/6/2023	15:06:00	13.662	4.035	
3/6/2023	15:07:00	13.66	4.058	
3/6/2023	15:08:00	13.664	4.052	
3/6/2023	15:09:00	13.7	4.044	
3/6/2023	15:10:00	13.744	4.021	
3/6/2023	15:11:00	13.696	4.054	
3/6/2023	15:12:00	13.743	4.001	
3/6/2023	15:13:00	13.797	3.98	
3/6/2023	15:14:00	13.758	4.002	
3/6/2023	15:15:00	13.682	4.07	
3/6/2023	15:16:00	13.814	3.982	
3/6/2023	15:17:00	13.763	4.01	
3/6/2023	15:18:00	13.788	3.995	
3/6/2023	15:19:00	13.76	4.017	
3/6/2023	15:20:00	13.709	4.051	
3/6/2023	15:21:00	13.723	4.045	
3/6/2023	15:22:00	13.799	3.988	
3/6/2023	15:23:00	13.681	4.059	



		O_2	CO2	NO _x
Date	Time	%	%	PPM
3/6/2023	15:24:00	15.927	2.693	
3/6/2023	15:25:00	15.85	2.894	
3/6/2023	15:26:00	13.842	3.981	
3/6/2023	15:27:00	13.798	4.001	
3/6/2023	15:28:00	13.766	4.001	
3/6/2023	15:29:00	17.036	2.177	
3/6/2023	15:30:00	13.82	3.992	
3/6/2023	15:31:00	13.728	4.049	
3/6/2023	15:32:00	15.74	2.84	
3/6/2023	15:33:00	15.129	3.346	
3/6/2023	15:34:00	13.773	4.015	
3/6/2023	15:35:00	13.774	4.029	
3/6/2023	15:36:00	16.974	2.219	
3/6/2023	15:37:00	13.843	3.985	
3/6/2023	15:38:00	13.702	4.07	
3/6/2023	15:39:00	17.476	1.936	
3/6/2023	15:40:00	13.967	3.92	
3/6/2023	15:41:00	13.844	3.995	
3/6/2023	15:42:00	16.979	2.153	
3/6/2023	15:43:00	14.445	3.688	
3/6/2023	15:44:00	13.862	3.984	
3/6/2023	15:45:00	17.093	2.101	
3/6/2023	15:46:00	14.437	3.737	
3/6/2023	15:47:00	13.866	3.986	
3/6/2023	15:48:00	17.055	2.121	
3/6/2023	15:49:00	15.453	3.143	
3/6/2023	15:50:00	15.144	3.293	
3/6/2023	15:51:00	14.916	3.393	
3/6/2023	15:52:00	14.917	3.387	
3/6/2023	15:53:00	14.899	3.408	
3/6/2023	15:54:00	13.572	4.887	
3/6/2023	15:55:00	12.317	6.315	
3/6/2023	15:56:00	15.762	3.993	Unit B PM Start (15:5
3/6/2023	15:57:00	12.235	5.863	Office Five Start (13.0
3/6/2023	15:58:00	12.432	5.653	
3/6/2023	15:59:00	15.764	3.564	
3/6/2023		12.97	5.04	
	16:00:00			
3/6/2023	16:01:00	13.183	4.86	
3/6/2023	16:02:00	13.372	4.699	
3/6/2023	16:03:00	15.609	3.391	
3/6/2023	16:04:00	13.408	4.626	
3/6/2023	16:05:00	13.464	4.566	
3/6/2023	16:06:00	13.487	4.543	
3/6/2023	16:07:00	15.484	3.407	
3/6/2023	16:08:00	13.422	4.579	
3/6/2023	16:09:00	13.438	4.593	
3/6/2023	16:10:00	15.565	3.428	
3/6/2023	16:11:00	13.292	4.695	
3/6/2023	16:12:00	13.302	4.696	
3/6/2023	16:13:00	13.631	4.484	
3/6/2023	16:14:00	15.311	3.645	
3/6/2023	16:15:00	13.06	4.893	



Date Time % % PPM 3/6/2023 16:16:00 12.863 5.019 3/6/2023 16:17:00 15.25 3.726 3/6/2023 16:18:00 12.535 5.306 3/6/2023 16:19:00 12.41 5.408 3/6/2023 16:21:00 15.105 3.887 3/6/2023 16:22:00 12.294 5.511 3/6/2023 16:22:00 12.835 5.155 3/6/2023 16:23:00 12.835 5.155 3/6/2023 16:25:00 14.51 4.389 3/6/2023 16:26:00 16.324 3.43 3/6/2023 16:26:00 16.324 3.43 3/6/2023 16:28:00 14.729 4.367 3/6/2023 16:30:00 12.752 5.404 3/6/2023 16:30:00 12.752 5.404 3/6/2023 16:33:00 11.794 5.898 3/6/2023 16:34:00 13.057 5.165 3/6/2023	Date Time % % PPM					
3/6/2023	3/6/2023			O_2	CO_2	NO _x
3/6/2023	3/6/2023	Date	Time	%	%	PPM
3/6/2023	3/6/2023	3/6/2023	16:16:00	12.863	5.019	
3/6/2023	3/6/2023 16:19:00 12.41 5.408 3/6/2023 16:20:00 12.339 5.462 3/6/2023 16:21:00 15.105 3.887 3/6/2023 16:22:00 12.294 5.511 3/6/2023 16:23:00 12.835 5.155 3/6/2023 16:23:00 14.51 4.389 3/6/2023 16:25:00 11.447 6.128 3/6/2023 16:26:00 16.324 3.43 3/6/2023 16:26:00 16.324 3.43 3/6/2023 16:26:00 14.729 4.367 3/6/2023 16:28:00 14.729 4.367 3/6/2023 16:28:00 14.729 4.367 3/6/2023 16:30:00 12.752 5.404 3/6/2023 16:30:00 15.329 3.971 3/6/2023 16:33:00 15.329 3.971 3/6/2023 16:33:00 15.29 3.796 3/6/2023 16:36:30:00 13.057 5.165 3/6/2023 16:35:00 13.057 5.165 3/6/2023 16:36:00 16.157 3.261 3/6/2023 16:37:00 12.245 5.519 3/6/2023 16:38:00 12.884 5.102 3/6/2023 16:38:00 15.26 3.867 3/6/2023 16:38:00 15.26 5.515 3/6/2023 16:36:00 15.26 3.867 3/6/2023 16:34:00 15.95 3.769 3/6/2023 16:34:00 15.26 3.867 3/6/2023 16:34:00 15.95 3.769 3/6/2023 16:38:00 12.884 5.102 3/6/2023 16:38:00 12.884 5.102 3/6/2023 16:40:00 12.262 5.515 3/6/2023 16:40:00 12.262 5.515 3/6/2023 16:40:00 12.904 5.234 3/6/2023 16:40:00 12.904 5.234 3/6/2023 16:40:00 12.904 5.234 3/6/2023 16:40:00 12.904 5.234 3/6/2023 16:40:00 12.904 5.234 3/6/2023 16:40:00 12.904 5.234 3/6/2023 16:40:00 12.904 5.234 3/6/2023 16:40:00 12.904 5.234 3/6/2023 16:40:00 12.904 5.234 3/6/2023 16:40:00 12.904 5.234 3/6/2023 16:40:00 12.904 5.234 3/6/2023 16:40:00 12.904 5.234 3/6/2023 16:40:00 12.904 5.234 3/6/2023 16:40:00 12.904 5.234 3/6/2023 16:40:00 12.904 5.234 3/6/2023 16:40:00 12.904 5.235 3/6/2023 16:40:00 12.505 5.499 3/6/2023 16:40:00 12.505 5.499 3/6/2023 16:50:00 13.275 4.966 3/6/2023 16:50:00 13.275 4.966 3/6/2023 16:50:00 13.275 4.966 3/6/2023 16:50:00 13.275 5.254 3/6/2023 16:50:00 13.275 5.321 3/6/2023 16:50:00 13.275 5.254 3/6/2023 16:50:00 13.275 5.254 3/6/2023 16:50:00 13.275 5.254 3/6/2023 16:50:00 13.275 5.254 3/6/2023 16:50:00 13.275 5.254 3/6/2023 16:50:00 13.275 5.255 3/6/2023 16:50:00 13.275 5.255 3/6/2023 16:50:00 13.595 5.254 3/6/2023 16:50:00 13.595 5.254 3/6/2023 16:50:00 13.595 5.254 3/6/2023 16:50:00 13.595 5.254 3/6/2023 16:50:00 13.595 5.554 3/6/2023	3/6/2023	16:17:00	15.25	3.726	
3/6/2023	3/6/2023	3/6/2023	16:18:00	12.535	5.306	
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3/6/2023 16:53:00 12.699 5.236 3/6/2023 16:54:00 12.608 5.28 3/6/2023 16:55:00 16.03 3.311 3/6/2023 16:56:00 12.557 5.321 3/6/2023 16:57:00 12.635 5.254 3/6/2023 16:58:00 16.046 3.339 3/6/2023 16:59:00 12.581 5.327 3/6/2023 17:00:00 13.595 4.681 3/6/2023 17:01:00 15.064 3.941 3/6/2023 17:02:00 12.451 5.432 3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668	3/6/2023 16:53:00 12.699 5.236 3/6/2023 16:54:00 12.608 5.28 3/6/2023 16:55:00 16.03 3.311 3/6/2023 16:56:00 12.557 5.321 3/6/2023 16:57:00 12.635 5.254 3/6/2023 16:58:00 16.046 3.339 3/6/2023 16:59:00 12.581 5.327 3/6/2023 17:00:00 13.595 4.681 3/6/2023 17:01:00 15.064 3.941 3/6/2023 17:02:00 12.451 5.432 3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668 3/6/2023 17:06:00 15.318 3.867					
3/6/2023 16:54:00 12.608 5.28 3/6/2023 16:55:00 16.03 3.311 3/6/2023 16:56:00 12.557 5.321 3/6/2023 16:57:00 12.635 5.254 3/6/2023 16:58:00 16.046 3.339 3/6/2023 16:59:00 12.581 5.327 3/6/2023 17:00:00 13.595 4.681 3/6/2023 17:01:00 15.064 3.941 3/6/2023 17:02:00 12.451 5.432 3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668	3/6/2023 16:54:00 12.608 5.28 3/6/2023 16:55:00 16.03 3.311 3/6/2023 16:56:00 12.557 5.321 3/6/2023 16:57:00 12.635 5.254 3/6/2023 16:58:00 16.046 3.339 3/6/2023 16:59:00 12.581 5.327 3/6/2023 17:00:00 13.595 4.681 3/6/2023 17:01:00 15.064 3.941 3/6/2023 17:02:00 12.451 5.432 3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668 3/6/2023 17:06:00 15.318 3.867					
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3/6/2023 16:57:00 12.635 5.254 3/6/2023 16:58:00 16.046 3.339 3/6/2023 16:59:00 12.581 5.327 3/6/2023 17:00:00 13.595 4.681 3/6/2023 17:01:00 15.064 3.941 3/6/2023 17:02:00 12.451 5.432 3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668	3/6/2023 16:57:00 12.635 5.254 3/6/2023 16:58:00 16.046 3.339 3/6/2023 16:59:00 12.581 5.327 3/6/2023 17:00:00 13.595 4.681 3/6/2023 17:01:00 15.064 3.941 3/6/2023 17:02:00 12.451 5.432 3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668 3/6/2023 17:06:00 15.318 3.867					
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3/6/2023 16:59:00 12.581 5.327 3/6/2023 17:00:00 13.595 4.681 3/6/2023 17:01:00 15.064 3.941 3/6/2023 17:02:00 12.451 5.432 3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668	3/6/2023 16:59:00 12.581 5.327 3/6/2023 17:00:00 13.595 4.681 3/6/2023 17:01:00 15.064 3.941 3/6/2023 17:02:00 12.451 5.432 3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668 3/6/2023 17:06:00 15.318 3.867					
3/6/2023 17:00:00 13.595 4.681 3/6/2023 17:01:00 15.064 3.941 3/6/2023 17:02:00 12.451 5.432 3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668	3/6/2023 17:00:00 13.595 4.681 3/6/2023 17:01:00 15.064 3.941 3/6/2023 17:02:00 12.451 5.432 3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668 3/6/2023 17:06:00 15.318 3.867					
3/6/2023 17:01:00 15.064 3.941 3/6/2023 17:02:00 12.451 5.432 3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668	3/6/2023 17:01:00 15.064 3.941 3/6/2023 17:02:00 12.451 5.432 3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668 3/6/2023 17:06:00 15.318 3.867					
3/6/2023 17:02:00 12.451 5.432 3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668	3/6/2023 17:02:00 12.451 5.432 3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668 3/6/2023 17:06:00 15.318 3.867					
3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668	3/6/2023 17:03:00 12.526 5.534 3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668 3/6/2023 17:06:00 15.318 3.867					
3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668	3/6/2023 17:04:00 14.656 4.355 3/6/2023 17:05:00 10.439 6.668 3/6/2023 17:06:00 15.318 3.867					
3/6/2023 17:05:00 10.439 6.668	3/6/2023 17:05:00 10.439 6.668 3/6/2023 17:06:00 15.318 3.867					
	3/6/2023 17:06:00 15.318 3.867					
0/0/0000 47,00,00 45,040 9,007						
	3/6/2023 17:07:00 11:29 6:273					
3/6/2023 17:07:00 11:29 6:27.3	0/0/2020 11.01.00 11.20 0.210	3/6/2023	17:07:00	11.29	0.2/3	



-		_		NIO
		O_2	CO ₂	NO_x
Date	Time	%	%	PPM
3/6/2023	17:08:00	14.124	4.489	
3/6/2023	17:09:00	12.637	5.453	
3/6/2023	17:10:00	12.798	5.237	
3/6/2023	17:13:00	15.565	3.681	
3/6/2023	17:14:00	10.644	6.557	
3/6/2023	17:15:00	14.833	4.036	
3/6/2023	17:16:00	12.294	5.632	
3/6/2023	17:17:00	13.128	5.026	
3/6/2023	17:18:00	14.1	4.572	

-	REFERENCE METHOD 1-MINUTE AVERAGE DATA							
	RUN NUMBER 1							
	Date	Time	O_2	CO ₂				
1	3/6/2023	11:13:00 AM	13.64	5.167				
2	3/6/2023	11:14:00 AM	13.685	5.035				
3	3/6/2023	11:15:00 AM	13.72	4.965				
4	3/6/2023	11:16:00 AM	13.789	4.856				
5	3/6/2023	11:17:00 AM	14.077	4.594				
6	3/6/2023	11:18:00 AM	14.061	4.579				
7	3/6/2023	11:19:00 AM	13.552	4.942				
8	3/6/2023	11:20:00 AM	13.352	5.088				
9	3/6/2023	11:21:00 AM	13.243	5.157				
10	3/6/2023	11:22:00 AM	13.334	5.091				
11	3/6/2023	11:23:00 AM	13.584	4.902	1. 19			
12	3/6/2023	11:24:00 AM	13.728	4.773				
13	3/6/2023	11:25:00 AM	13.906	4.632				
14	3/6/2023	11:26:00 AM	14.08	4.513				
15	3/6/2023	11:27:00 AM	14.254	4.373				
16	3/6/2023	11:28:00 AM 11:29:00 AM	14.203 14.213	4.406 4.367				
17 18	3/6/2023 3/6/2023	11:30:00 AM	14.403	4.213				
19	3/6/2023	11:31:00 AM	14.403	4.244				
20	3/6/2023	11:32:00 AM	14.138	4.412				
21	3/6/2023	11:33:00 AM	14.142	4.415				
22	3/6/2023	11:34:00 AM	14.127	4.424	100			
23	3/6/2023	11:35:00 AM	14.048	4.486				
24	3/6/2023	11:36:00 AM	13.988	4.514	i italia			
25	3/6/2023	11:37:00 AM	14.052	4.441				
26	3/6/2023	11:38:00 AM	14.113	4.395				
27	3/6/2023	11:39:00 AM	14.119	4.391	100			
28	3/6/2023	11:40:00 AM	14.204	4.326				
29	3/6/2023	11:41:00 AM	14.216	4.307				
30	3/6/2023	11:42:00 AM	14.234	4.272				
31	3/6/2023	11:43:00 AM	14.323	4.188				
32	3/6/2023	11:44:00 AM	14.276	4.218	15 15 11			
33	3/6/2023	11:45:00 AM	14.157	4.295				
34	3/6/2023	11:46:00 AM	14.146	4.296				
35	3/6/2023	11:47:00 AM	14.057	4.35				
36	3/6/2023	11:48:00 AM	14.072	4.357				
37	3/6/2023	11:49:00 AM	14.052	4.382				
38	3/6/2023	11:50:00 AM	13.915	4.482				
39	3/6/2023	11:51:00 AM	13.795	4.585				
40	3/6/2023	11:52:00 AM	13.761	4.595				
41	3/6/2023	11:53:00 AM	13.691	4.645				
42	3/6/2023	11:54:00 AM	13.555	4.72				
43	3/6/2023	11:55:00 AM 11:56:00 AM	13.588	4.693				
44 45	3/6/2023 3/6/2023	11:50:00 AM	13.566 13.627	4.708 4.668				
45 46	3/6/2023	11:58:00 AM	13.495	4.767				
40	3/0/2023	11.00.00 AIVI	13.490	4.707				

47	3/6/2023	11:59:00 AM	13.416	4.845
48	3/6/2023	12:00:00 PM	13.361	4.886
49	3/6/2023	12:01:00 PM	13.367	4.869
50	3/6/2023	12:02:00 PM	13.333	4.873
51	3/6/2023	12:03:00 PM	13.35	4.857
52	3/6/2023	12:04:00 PM	13.263	4.942
53	3/6/2023	12:05:00 PM	13.085	5.075
54	3/6/2023	12:06:00 PM	12.98	5.145
55	3/6/2023	12:07:00 PM	12.79	5.309
56	3/6/2023	12:08:00 PM	12.611	5.435
57	3/6/2023	12:09:00 PM	12.561	5.455
58	3/6/2023	12:10:00 PM	12.539	5.483
59	3/6/2023	12:11:00 PM	12.686	5.425
60	3/6/2023	12:12:00 PM	12.569	5.518
61	3/6/2023	12:26:00 PM	14.84	3.959
		12:27:00 PM	13.536	4.712
62	3/6/2023			4.785
63	3/6/2023	12:28:00 PM	13.454	
64	3/6/2023	12:29:00 PM	14.878	3.946
65	3/6/2023	12:30:00 PM	13.527	4.695
66	3/6/2023	12:31:00 PM	13.601	4.651
67	3/6/2023	12:32:00 PM	13.717	4.581
68	3/6/2023	12:33:00 PM	13.673	4.602
69	3/6/2023	12:34:00 PM	13.564	4.692
70	3/6/2023	12:35:00 PM	13.487	4.739
71	3/6/2023	12:36:00 PM	13.485	4.738
72	3/6/2023	12:37:00 PM	13.416	4.783
73	3/6/2023	12:38:00 PM	13.411	4.77
74	3/6/2023	12:39:00 PM	13.401	4.79
75	3/6/2023	12:40:00 PM	13.429	4.751
76	3/6/2023	12:41:00 PM	13.438	4.753
				4.833
77	3/6/2023	12:42:00 PM	13.34	
78	3/6/2023	12:43:00 PM	13.328	4.826
79	3/6/2023	12:44:00 PM	13.23	4.878
80	3/6/2023	12:45:00 PM	13.249	4.865
81	3/6/2023	12:46:00 PM	13.321	4.817
82	3/6/2023	12:47:00 PM	13.167	4.938
83	3/6/2023	12:48:00 PM	14.299	4.326
84	3/6/2023	12:49:00 PM	13.032	5.038
85	3/6/2023	12:50:00 PM	12.865	5.189
86	3/6/2023	12:51:00 PM	13.911	4.573
87	3/6/2023	12:52:00 PM	12.747	5.354
88	3/6/2023	12:53:00 PM	12.517	5.432
89	3/6/2023	12:54:00 PM	14.1	4.461
90	3/6/2023	12:55:00 PM	12.939	5.212
91	3/6/2023	12:56:00 PM	12.88	5.159
92	3/6/2023	12:57:00 PM	13.852	4.511
93	3/6/2023	12:58:00 PM	13.572	4.813
94	3/6/2023	12:59:00 PM	12.837	5.192
95	3/6/2023	1:00:00 PM	14.371	4.328
96	3/6/2023	1:01:00 PM	12.582	5.35
97	3/6/2023	1:02:00 PM	13.172	4.951
91	31012023	I.UZ.UU FIVI	10.172	7.301

		Average	13.56	4.78
5				
120	3/6/2023	1:25:00 PM	13.954	4.603
119	3/6/2023	1:24:00 PM	12.861	5.327
118	3/6/2023	1:23:00 PM	13.739	4.704
117	3/6/2023	1:22:00 PM	13.204	5.118
116	3/6/2023	1:21:00 PM	13.311	4.937
115	3/6/2023	1:20:00 PM	13.7	4.82
114	3/6/2023	1:19:00 PM	12.735	5.269
113	3/6/2023	1:18:00 PM	14.193	4.527
112	3/6/2023	1:17:00 PM	12.067	5.683
111	3/6/2023	1:16:00 PM	14,442	4.404
110	3/6/2023	1:15:00 PM	11.814	5.853
109	3/6/2023	1:14:00 PM	14.268	4.489
108	3/6/2023	1:13:00 PM	11.744	5.93
107	3/6/2023	1:12:00 PM	14.247	4.511
106	3/6/2023	1:11:00 PM	11.558	6.053
105	3/6/2023	1:10:00 PM	14.307	4.495
104	3/6/2023	1:09:00 PM	12.261	5.529
102	3/6/2023	1:08:00 PM	14.447	4.296
102	3/6/2023	1:07:00 PM	12.991	5.04
101	3/6/2023	1:06:00 PM	12.82	5.176
100	3/6/2023	1:05:00 PM	14.719	4.08
98 99	3/6/2023 3/6/2023	1:04:00 PM	12.873	5.128
00	2/6/2022	1:03:00 PM	14.064	4.547



					_
\$.			O ₂	CO ₂	-
Da	ite	Time	%	%	
3/10/2	2023	10:59:00 AM	15.641	0.068	-
3/10/2	2023	11:00:00 AM	-0.016	-0.02	
3/10/2	2023	11:01:00 AM	-0.006	-0.01	
3/10/2	2023	11:02:00 AM	-0.009	0.002	
3/10/2	2023	11:03:00 AM	-0.013	-0.021	
3/10/	2023	11:04:00 AM	-0.015	-0.007	
3/10/2	2023	11:05:00 AM	-0.018	0.014	
3/10/2	2023	11:06:00 AM	-0.019	-0.014	-1.
3/10/2	2023	11:07:00 AM	-0.021	-0.027	Direct Cal (Zero)
3/10/2	2023	11:08:00 AM	15.269	8.032	-
3/10/2	2023	11:09:00 AM	18.769	9.654	
3/10/2	2023	11:10:00 AM	18.769	9.673	_
3/10/	2023	11:11:00 AM	18.767	9.692	Direct Cal (High)
3/10/2	2023	11:12:00 AM	11.709	5.833	-
3/10/2	2023	11:13:00 AM	10.071	5.192	
3/10/2	2023	11:14:00 AM	10.068	5.193	Direct Cal (Mid)
3/10/3	2023	11:15:00 AM	10.07	5.206	_
3/10/2	2023	11:16:00 AM	19.212	0.712	
3/10/2	2023	11:17:00 AM	20.808	0.136	
3/10/2	2023	11:18:00 AM	18.273	0.175	
3/10/	2023	11:19:00 AM	0.08	0.126	
3/10/	2023	11:20:00 AM	0.048	0.103	-
3/10/	2023	11:21:00 AM	0.039	0.098	Sys Cal (Zero)
3/10/	2023	11:22:00 AM	7.814	4.154	
3/10/	2023	11:23:00 AM	10.082	5.226	Sys Cal (Mid)
3/10/2	2023	11:24:00 AM	17.522	1.655	=:1
3/10/3	2023	11:25:00 AM	20.865	0.153	
3/10/	2023	11:26:00 AM	20.873	0.142	
3/10/3	2023	11:27:00 AM	20.877	0.15	
3/10/		11:28:00 AM	20.876	0.149	
3/10/		11:29:00 AM	20.877	0.155	
3/10/		11:30:00 AM	20.88	0.134	
3/10/:		11:31:00 AM	20.88	0.15	
3/10/		11:32:00 AM	20.875	0.15	
3/10/		11:33:00 AM	20.876	0.138	
3/10/		11:34:00 AM	20.877	0.14	
3/10/		11:35:00 AM	20.879	0.135	
3/10/		11:36:00 AM	20.878	0.117	
3/10/		11:37:00 AM	20.879	0.116	
3/10/		11:38:00 AM	20.872	0.125	
3/10/		11:39:00 AM	20.879	0.131	
3/10/		11:40:00 AM	20.881	0.109	
3/10/		11:41:00 AM	20.877	0.101	
3/10/		11:42:00 AM	20.875	0.102	
3/10/	2023	11:43:00 AM	20.875	0.094	



		O ₂	CO ₂
Date	Time	%	%
3/10/2023	11:44:00 AM	20.873	0.081
3/10/2023	11:45:00 AM	20.872	0.085
3/10/2023	11:46:00 AM	20.875	0.072
3/10/2023	11:47:00 AM	20.876	0.065
3/10/2023	11:48:00 AM	20.431	0.407
3/10/2023	11:49:00 AM	13.595	4.257
3/10/2023	11:50:00 AM	13.213	4.447
3/10/2023	11:51:00 AM	13.16	4.471
3/10/2023	11:52:00 AM	13.107	4.5
3/10/2023	11:53:00 AM	13.165	4.474
3/10/2023	11:54:00 AM	13.185	4.454
3/10/2023	11:55:00 AM	13.216	4.437
3/10/2023	11:56:00 AM	13.204	4.448
3/10/2023	11:57:00 AM	13.176	4.452
3/10/2023	11:58:00 AM	13.168	4.47
3/10/2023	11:59:00 AM	13.138	4.499
3/10/2023	12:00:00 PM	13.13	4.522
3/10/2023	12:01:00 PM	13.142	4.525
3/10/2023	12:02:00 PM	13.175	4.517
3/10/2023	12:03:00 PM	13.173	4.497
3/10/2023	12:04:00 PM	13.216	4.473
3/10/2023	12:05:00 PM	13.218	4.464
	12:06:00 PM	13.200	4.498
3/10/2023	12:07:00 PM	13.154	4.490
3/10/2023		13.134	4.518
3/10/2023	12:08:00 PM	13.143	4.496
3/10/2023	12:09:00 PM	13.2	4.490
3/10/2023	12:10:00 PM		
3/10/2023	12:11:00 PM	13.183	4.482
3/10/2023	12:12:00 PM	13.191	4.482
3/10/2023	12:13:00 PM	13.172	4.478
3/10/2023	12:14:00 PM	13.145	4.493
3/10/2023	12:15:00 PM	13.182	4.473
3/10/2023	12:16:00 PM	13.236	4.43
3/10/2023	12:17:00 PM	13.221	4.432
3/10/2023	12:18:00 PM	13.199	4.434
3/10/2023	12:19:00 PM	13.2	4.42
3/10/2023	12:20:00 PM	13.154	4.445
3/10/2023	12:21:00 PM	13.118	4.465
3/10/2023	12:22:00 PM	13.158	4.447
3/10/2023	12:23:00 PM	13.123	4.466
3/10/2023	12:24:00 PM	13.116	4.459
3/10/2023	12:25:00 PM	13.128	4.454
3/10/2023	12:26:00 PM	13.115	4.471
3/10/2023	12:27:00 PM	13.12	4.433
3/10/2023	12:28:00 PM	13.137	4.432
3/10/2023	12:29:00 PM	13.137	4.439



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		O ₂	CO ₂	-
Date	Time	%	%	_
3/10/2023	12:30:00 PM	13.113	4.447	_
3/10/2023	12:31:00 PM	13.994	3.875	
3/10/2023	12:32:00 PM	18.912	1.238	
3/10/2023	12:33:00 PM	13.302	4.382	
3/10/2023	12:34:00 PM	13.139	4.464	
3/10/2023	12:35:00 PM	13.117	4.485	
3/10/2023	12:36:00 PM	17.967	1.747	
3/10/2023	12:37:00 PM	13.345	4.358	
3/10/2023	12:38:00 PM	13.141	4.473	
3/10/2023	12:39:00 PM	15.927	2.796	
3/10/2023	12:40:00 PM	15.421	3.245	
3/10/2023	12:41:00 PM	13.445	4.274	
3/10/2023	12:42:00 PM	15.965	2.776	
3/10/2023	12:43:00 PM	16.031	2.874	
3/10/2023	12:44:00 PM	13.622	4.171	
3/10/2023	12:45:00 PM	16.839	2.261	
3/10/2023	12:46:00 PM	15.418	3.197	
3/10/2023	12:47:00 PM	13.701	4.061	
3/10/2023	12:48:00 PM	17.712	1.76	
3/10/2023	12:49:00 PM	15.244	3.293	
3/10/2023	12:50:00 PM	14.78	3.456	
3/10/2023	12:51:00 PM	18.316	1.481	
3/10/2023	12:52:00 PM	11.738	6.752	
3/10/2023	12:53:00 PM	15.716	4.368	_
3/10/2023	12:54:00 PM	15.915	3.738	Run 2 Port A
3/10/2023	12:55:00 PM	13.01	5.331	
3/10/2023	12:56:00 PM	14.843	4.119	
3/10/2023	12:57:00 PM	15.867	3.479	
3/10/2023	12:58:00 PM	13.641	4.608	
3/10/2023	12:59:00 PM	14.288	4.066	
3/10/2023	1:00:00 PM	15.894	3.122	
3/10/2023	1:01:00 PM	14.857	3.825	
3/10/2023	1:02:00 PM	14.034	4.242	
3/10/2023	1:03:00 PM	13.686	4.436	
3/10/2023	1:04:00 PM	15.485	3.329	
3/10/2023	1:05:00 PM	14.57	3.959	
3/10/2023	1:06:00 PM	13.668	4.415	
3/10/2023	1:07:00 PM	13.767	4.345	
3/10/2023	1:08:00 PM	16.34	2.98	
3/10/2023	1:09:00 PM	13.282	4.717	
3/10/2023	1:10:00 PM	13.577	4.532	
3/10/2023	1:11:00 PM	15.967	3.3	
3/10/2023	1:12:00 PM	12.725	5.116	
3/10/2023	1:13:00 PM	15.925	3.265	
3/10/2023	1:14:00 PM	13.549	4.753	
3/10/2023	1:15:00 PM	12.534	5.232	

3/21/2023 3:35 PM



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		O ₂	CO ₂	7.5
Date	Time	%	%	-
3/10/2023	1:16:00 PM	16.706	2.941	
3/10/2023	1:17:00 PM	12.208	5.466	
3/10/2023	1:18:00 PM	15.48	3.552	
3/10/2023	1:19:00 PM	13.624	4.725	
3/10/2023	1:20:00 PM	13.323	4.763	
3/10/2023	1:21:00 PM	15.853	3.449	
3/10/2023	1:22:00 PM	12.184	5.493	
3/10/2023	1:23:00 PM	16.498	2.941	
3/10/2023	1:24:00 PM	12.814	5.162	
3/10/2023	1:25:00 PM	13.727	4.587	
3/10/2023	1:26:00 PM	15.313	3.862	
3/10/2023	1:27:00 PM	11.885	5.72	
3/10/2023	1:28:00 PM	17.039	2.799	
3/10/2023	1:29:00 PM	12.104	5.739	
3/10/2023	1:30:00 PM	14.978	3.948	Port Change
3/10/2023	1:31:00 PM	20.521	0.238	
3/10/2023	1:32:00 PM	20.86	0.041	
3/10/2023	1:33:00 PM	20.862	0.052	
3/10/2023	1:34:00 PM	20.866	0.053	
3/10/2023	1:35:00 PM	20.872	0.013	
3/10/2023	1:36:00 PM	20.875	0.039	
3/10/2023	1:37:00 PM	20.873	0.031	
3/10/2023	1:38:00 PM	20.869	0.017	
3/10/2023	1:39:00 PM	20.869	0.046	
3/10/2023	1:40:00 PM	20.871	0.043	
3/10/2023	1:41:00 PM	12.837	5.13	
3/10/2023	1:42:00 PM	15.644	3.496	
3/10/2023	1:43:00 PM	12.496	5.398	Port B
3/10/2023	1:44:00 PM	13.411	4.777	
3/10/2023	1:45:00 PM	14.879	4.063	
3/10/2023	1:46:00 PM	11.496	5.88	
3/10/2023	1:47:00 PM	15.774	3.475	
3/10/2023	1:48:00 PM	11.612	5.953	
3/10/2023	1:49:00 PM	14.548	4.131	
3/10/2023	1:50:00 PM	13.964	4.572	
3/10/2023	1:51:00 PM	12.464	5.312	
3/10/2023	1:52:00 PM	15.77	3.48	
3/10/2023	1:53:00 PM	10.973	6.272	
3/10/2023	1:54:00 PM	15.564	3.612	
3/10/2023	1:55:00 PM	13.115	5.088	
3/10/2023	1:56:00 PM	13.584	4.691	
3/10/2023	1:57:00 PM	15.136	3.896	
3/10/2023	1:58:00 PM	11.617	5.773	
3/10/2023	1:59:00 PM	16.036	3.264	
3/10/2023	2:00:00 PM	12.011	5.677	
3/10/2023	2:01:00 PM	14.698	3.965	

3/21/2023 3:35 PM



		_
O ₂	CO ₂	
%	%	
14.441	4.223	=======================================
12.301	5.324	
16.168	3.187	
11.153	6.062	
16.141		
12.739	5.174	
14.274	4.168	
13.613		
15.714	3.425	
11.599		
		_
12.651		
14.819	4.055	
10.694	6.694	
15.787	3.593	
13.547	4.917	
11.717	5.803	
15.91	3.472	
14.253	4.254	
13.657		
12.011	5.533	
16.286	3.097	
12.817	5.079	
14.008	4.329	
2.537	0.594	
0.055	0.143	
0.045	0.143	Sys Cal (Zero)
5.73	3.102	
10.09	5.265	
10.096	5.258	Sys Cal (Span)
11.76	5.008	
14.31	2.922	
0.004	0.102	
-0.013	0.088	Direct (Zero)
8.239	4.182	
10.059	5.268	
10.057		
10.063	5.166	Direct (Span)
	% 14.441 12.301 16.168 11.153 16.141 12.739 14.274 14.735 12.265 16.556 11.628 15.215 13.713 13.613 15.714 11.599 16.615 12.651 14.428 14.819 10.694 15.787 13.547 11.717 15.91 11.539 14.253 13.657 12.011 16.286 12.817 14.008 2.537 0.055 0.045 5.73 10.09 10.096 11.76 14.31 0.004 -0.013 8.239 10.059 10.057	% % 14.441 4.223 12.301 5.324 16.168 3.187 11.153 6.062 16.141 3.118 12.739 5.174 14.274 4.168 14.735 4.038 12.265 5.321 16.556 2.918 11.628 5.807 15.215 3.636 13.713 4.607 13.613 4.521 15.714 3.425 11.599 5.692 16.615 2.844 12.651 5.176 14.428 4.047 14.819 4.055 10.694 6.694 15.787 3.593 13.547 4.917 11.717 5.803 15.91 3.472 11.539 5.916 14.253 4.254 13.657 4.722 12.011 5.533 16.286 3.097



REFERENCE METHOD DATA LOGGER

		O_2	CO ₂
Date	Time	%	%
3/10/2023	2:48:00 PM	13.096	4.494
3/10/2023	2:49:00 PM	17.028	2.485
3/10/2023	2:50:00 PM	13.224	4.646
3/10/2023	2:51:00 PM	15.159	3.51
3/10/2023	2:52:00 PM	15.454	3.42
3/10/2023	2:53:00 PM	13.217	4.644
3/10/2023	2:54:00 PM	16.976	2.454
3/10/2023	2:55:00 PM	13.538	4.479
3/10/2023	2:56:00 PM	14.384	3.915
3/10/2023	2:57:00 PM	16.2	2.95
3/10/2023	2:58:00 PM	16.589	2.618
3/10/2023	2:59:00 PM	20.838	0.21
3/10/2023	3:00:00 PM	20.858	0.191
3/10/2023	3:01:00 PM	20.866	0.196
3/10/2023	3:02:00 PM	20.874	0.186
3/10/2023	3:03:00 PM	20.862	0.188
3/10/2023	3:04:00 PM	20.867	0.201
3/10/2023	3:05:00 PM	20.836	0.199
3/10/2023	3:06:00 PM	20.865	0.17
3/10/2023	3:07:00 PM	20.872	0.185
3/10/2023	3:08:00 PM	20.874	0.198
3/10/2023	3:09:00 PM	20.859	0.227
3/10/2023	3:10:00 PM	20.771	0.278
3/10/2023	3:11:00 PM	20.76	0.296
3/10/2023	3:12:00 PM	20.756	0.299
3/10/2023	3:13:00 PM	20.751	0.304
3/10/2023	3:14:00 PM	20.76	0.306
3/10/2023	3:15:00 PM	20.754	0.299
3/10/2023	3:16:00 PM	20.743	0.293
3/10/2023	3:17:00 PM	20.734	0.301
3/10/2023	3:18:00 PM	20.723	0.336
3/10/2023	3:19:00 PM	20.719	0.346
3/10/2023	3:20:00 PM	20.714	0.339
3/10/2023	3:21:00 PM	20.711	0.337
3/10/2023	3:22:00 PM	20.707	0.35
3/10/2023	3:23:00 PM	20.704	0.359
3/10/2023	3:24:00 PM	20.703	0.343
3/10/2023	3:25:00 PM	20.698	0.352
3/10/2023	3:26:00 PM	20.691	0.371
3/10/2023	3:27:00 PM	20.687	0.39
3/10/2023	3:28:00 PM	20.685	0.398
3/10/2023	3:29:00 PM	20.683	0.403
3/10/2023	3:30:00 PM	20.689	0.405
3/10/2023	3:31:00 PM	20.683	0.418
3/10/2023	3:32:00 PM	20.67	0.419

REFERENCE METHOD 1-MINUTE AVERAGE DATA RUN NUMBER 1									
D-4-			CO ₂						
Date	Time	O ₂							
10/2023	12:54:00 PM	15.915	3.738						
10/2023	12:55:00 PM	13.01	5.331	The same					

•		Average	14.09	4.38	T.
72	3/10/2023	2:18:00 PM	16.615	2.844	
71	3/10/2023	2:17:00 PM	11.599	5.692	
70	3/10/2023	2:16:00 PM	15.714	3.425	
69	3/10/2023	2:15:00 PM	13.613	4.521	
68	3/10/2023	2:14:00 PM	13.713	4.607	
67	3/10/2023	2:13:00 PM	15.215	3.636	
66	3/10/2023	2:12:00 PM	11.628	5.807	
65	3/10/2023	2:11:00 PM	16.556	2.918	
64	3/10/2023	2:10:00 PM	12.265	5.321	
63	3/10/2023	2:09:00 PM	14.735	4.038	
62	3/10/2023	2:08:00 PM	14.274	4.168	
61	3/10/2023	2:07:00 PM	12.739	5.174	
60	3/10/2023	2:06:00 PM	16.141	3.118	
59	3/10/2023	2:05:00 PM	11.153	6.062	
58	3/10/2023	2:04:00 PM	16.168	3.187	
57	3/10/2023	2:03:00 PM	12.301	5.324	
56	3/10/2023	2:02:00 PM	14.441	4.223	
55	3/10/2023	2:01:00 PM	14.698	3.965	
54	3/10/2023	2:00:00 PM	12.011	5.677	
53	3/10/2023	1:59:00 PM	16.036	3.264	
52	3/10/2023	1:58:00 PM	11.617	5.773	
51	3/10/2023	1:57:00 PM	15.136	3.896	
50	3/10/2023	1:56:00 PM	13.584	4.691	
49	3/10/2023	1:55:00 PM	13.115	5.088	
48	3/10/2023	1:54:00 PM	15.564	3.612	
47	3/10/2023	1:53:00 PM	10.973	6.272	

APPENDIX A

O₂, AND CO₂

3.0 Calibration Gas Certificates





Montrose Air Quality Services, LLC 1631 E. St. Andrew Pl. Santa Ana, CA 92705

Linde Order Number: 72007266 Customer PO Number: 80009705



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

Certificate Issuance Date: 3/15/2022

Certification Date: 3/15/2022 Lot Number: N70086206904 Part Number: NI 5.5CE-AS DocNumber: 503401

CERTIFICATE OF ANALYSIS

Nitrogen, 5.5 Continuous Emission Monitoring Zero

Analytes	Specification	Analytical Results	Analytical Reference	Analytical Uncertainty
Nitrogen	≥ 99.9995 %	≥ 99.9995 %	5	N/A
Carbon Dioxide	≤1 ppm	≤ 0.5 ppm	3	± 10%
Carbon Monoxide / 🗸	≤ 0.5 ppm	≤ 0.5 ppm	3	± 15%
Total Hydrocarbons DT0044045 Oxides of Nitrogen	≤ 0.1 ppm	≤ 0.1 ppm	6	± 15%
Oxides of Nitrogen	≤ 0.1 ppm	≤ 0.1 ppm	7	± 15%
Oxygen AD. 3-11-22	≤ 0.5 ppm	≤ 0.5 ppm	2	± 15%
Sulfur Dioxide 71.	≤ 0.1 ppm	≤ 0.1 ppm	1	± 15%
Water	≤ 2 ppm	≤ 1.0 ppm	4	± 10%

Cylinder Style: AS

Fill Date: 3/10/2022

Filling Method: Pressure/Temperature

Cylinder Pressure @ 70 F: 2000 psig

Cylinder Volume: 142 ft3 Valve Outlet Connection: CGA 580

Cylinder Number(s): AAL067570, CC42626, CC264101, DT0044045, DT0044119, CC317495,

Analysis Date: 3/11/2022

CC257807, DT0044129, CC268013

Analyzed Cylinder Number(s): AAL067570

Analyst: Courtney Zielke-Chemist

Approved Signer: Ying Yu

Key to Analytical Techniques:

11-3 14 / 11	any doct 1 continues.	
Reference	Analytical Instrument - Analytical Principle	9
1	Ametek 921CE S/N AW-921-S321 - UV Spectrometry	
2	Delta F DF-550 Nanotrace - Electrolytic Cell/Electrochemical	
3	Horiba Instruments Inc. GA-360E - NDIR	
4	Meeco Aquavolt PLUS - Specific Water Analyzer	
5	N/A - By Difference of Typical Impurities	
6	Rosemount/Beckman 400A - FID Total Hydrocarbon Analyzer	45 0 6
7	Thermo Electron 42i-LS S/N 1030645077 - Chemiluminescence	AS 7-822

This analysis of the product described herein was prepared by Linde Gas & Equipment Inc. using instruments whose calibration is certified using Linde Gas & Equipment Inc. Reference Meterials which are traceable to the International System of Units (SI) through either weights traceable to the National Institute of Standards and Technology (NIST) or Measurement Canada, or through NIST Standard Reference Materials or equivalent where available.

Note: All expressions for concentration (e.g., % or ppm) are for gas phase, by mole unless otherwise noted. Analytical uncertanity is expressed as a Relative % unless otherwise noted.

IMPORTANT

The information contained herein has been prepared at your request by personnel within Linde Gas & Equipment Inc. While we believe the Information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no werranty or representation as to the suitability of the use of the information for any perfocular purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall liability of Linde Gas & Equipment Inc. arising out of the use of the Information contained herein exceed the fee established for providing such information.



DocNumber: 464088



Linde Gas & Equipment Inc. 5700 S. Alameda Street Los Angeles CA 90058 Tel: 323-585-2154

Fax: 714-542-6689 **PGVP ID: F22022**

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information

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

Certificate Issuance Date: 05/10/2022 Linde Order Number: 71995830

Part Number: EV NICDOXE78-AS Customer PO Number: 79998098

Fill Date: 04/14/2022 Lot Number: 70086210405

Cylinder Style & Qutlot: AS Cylinder Pressure and Volume: 2000 psig

CGA 590 140 ft3

02 10.08% CO2 5.03%

		Certified Concentration	
Expiration Date:		05/07/2030	NIST Traceable
Cylinder Number:		DT0040877	Expanded Uncertainty
5.03 %	6	Carbon dioxide	± 0.02 %
10.08 %	ó	Oxygen	± 0.05 %
В	alance	Nitrogen	

ProSpec EZ Cert

7077 Certification Information:

Certification Date: 05/07/2022

Term: 96 Months

Expiration Date: 05/07/2030

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-800/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.

CO2 responses have been corrected for Oxygen IR Broadening effect. O2 responses have been corrected for CO2 interference.

Analytical Data:

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

Component:

Carbon dioxide Requested Concentration: 5 %

Certified Concentration: 5.03 %

Instrument Used:

Horiba VIA-510 S/N 20C194WK

Analytical Method: NDIR

Las! Multipoint Calibration: 04/21/2022

First	Analysis	Data:				Date	05/07/	2022
Z:	0	R:	6.99	C;	5.03	Conc:	5.03	
R:	6.99	Z:	0	G:	5.03	Conc:	5.03	
Z:	0	G: -	5.03	R:	6.99	Conc:	5.03	
ПОМ	: %			M	lean Test	Assay:	5.03	%

2. Component: Oxygen

Requested Concentration: 10 %

Certified Concentration: 10.08 % Instrument Used:

Siemens Oxymat 6E S/N 7MB20211AA000CA1 Analytical Method:

Paramagnetic Last Multipoint Calibration: 04/11/2022

Fin	st Analysis	Data:				Date	05/07/2022	_
Z:	-	R:	9.875	C:	10.09	Conc:	10.09	
R:	9.878	Z:	a	C:	10.08	Conc:	10.08	
Z:	0	C:	10.09	R:	9.882	Conc:	10.09	
uo	M: %			Ä	lean Test	Assay:	10.08 %	

Analyzed By

Reference Standard: Type / Cylinder #: GMIS / CC256638 Concentration / Uncertainty: 6,99 % ±0.02 %

Expiration Date: 05/24/2027

Traceable to: SRM # / Sample # / Cylinder #: SRM 1674b / 7-H-07 / FF10631

SRM Concentration / Uncertainty: 6.944% / ±0.013% SRM Expiration Date: 06/17/2019

Secon	d Anal	ysis Data	ı;			Date	_	
Z:	0	R;	0	C:	٥	Conc:	0	
R:	0	Z:	Đ	C:	0	Conc:	υ	
Z:	Ð	C:	0	R:	٥	Conc:	0	
UOM:	%			M	вал Тез	t Assav:		%

Reference Standard:

Type / Cylinder #: NTRM / DT0010262

Concentration / Uncertainty: 9.875 % ±0.040 %

Expiration Date: 11/18/2022

Traceable to: SRM#/Sample#/Cylinder#: NTRM/170701/DT0010262

SRM Concentration / Uncertainty: 9.875% / ±0.040% SRM Expiration Date: 11/18/2022

Seco	nd Ana	lysis Data	1;	-		Date		
Z:	0	R:	D	/c:	0	Conc:	D	
R:	0	Z:	0	/ C.	0	Conc:	a	
Z:	Ð	C:	0	A:	0	Conc:	0	
UOM:	%			M	an Tes	t Assay:		%
			1	1				
				1				
d Bu		_						
і Ву		Jose	Vasquez	_			_	

5.16.22

Information contained herein has been prepared at your request by qualified experts within Linde Gas & Equipment Inc. While we believe that the Information is accurate within the limits of the analytical methods employed and is complete to the extent of queened expense warms. Linux das a Equipment inc. While we denote that the amount accorded warms are ministed or presentation as to the suitability of the use of the information for any purpose. The information is affered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Linux Gas & Equipment Inc., arising out of the use of the information contained herein exceed the fee established for providing such informetion.



DocNumber: 476397



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CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information

MONTROSE AIR QUALITY SERVICES 1631 E ST ANDREWS PLACE SANTA ANA CA92705

Certificate Issuance Date: 06/08/2022 Linde Order Number: 68405833 Part Number: NJ CD9.503E-AS

Customer PO Number: LUIS OLIVARES

FIII Date: 05/25/2022 Lof Number: 70086214506

Cylinder Style & Outlet: AS **CGA 590** Cylinder Pressure and Volume: 2000 psig 140 ft3

Certified Concentration

		Contigues Concentration	
Expiration Date:		06/06/2030	NIST Traceable
Cylinder Number:	:	CC89556	Expanded Uncertainty
9.68	%	Carbon dioxide	± 0.05 %
18.77	%	Oxygen	± 0.03 %
	Balance	Nitrogen	



Certification Information:

Certification Date: 06/06/2022

Term: 96 Months

Expiration Date: 06/06/2030

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.

CO2 responses have been corrected for Oxygen IR Broadening effect. O2 responsee have been corrected for CO2 interference.

Analytical Data:

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

Component: Carbon dioxide

> Requested Concentration: 9.5 % Certified Concentration: 9.68 %

Horiba VIA-510 S/N 20C194WK Instrument Used:

Analytical Method: NDIR

Last Multipoint Calibration: 06/06/2022

Firet	Analysis	Date:	Date	06/06/2022				
	-							
Z:	0	R:	14.26	C;	9,68	Conc:	9.68	
R:	14.26	Z:	0 '	C:	9.68	Conc:	9:68	
Z:	0	C;	9.68	R:	14.27	Conc:	9.68	
HON	n: %			В	lean Test	Assay:	9.68 %	

Oxygen

Requested Concentration: 19 %

18,77 % Certified Concentration: Siemens Oxymat 6E S/N 7MB20211AA000CA1 Instrument Used:

Analytical Method: Paramagnetic

Last Multipoint Calibration: 06/06/2022

First	Analysis	Data:				Date	06/08/2022
Z:	0	R:	20.9	C:	18.78	Conc:	18.78
R:	20.9	Z:	0	C:	18.77	Conc:	18.77
Z:	0	C:	18.78	R:	20.91	Conc:	18.78
Luca					Tool	Acres	10 77 0

Reference Standard:

Type / Cylinder #: GMIS / CC176580

Concentration / Uncertainty: 14,26 % ±0.03 %

Expiration Date: 01/21/2030

Traceable to: SRM # / Sample # / Cylinder #: NTRM / N/A / CC726055

SRM Concentration / Uncertainty: 19.34% / ±0.03% SRM Expiration Date: 01/12/2027

Secon	d Anah	ysis Data	:			Date		
Z:	0	R:	0	C:	D.	Cone;	0	
'Rt:	0	Z:	0	C:	0	Conc:	0	
Z:	0	C:	0	R:	D	Coric:	0	
UOM:	%			Mi	ean Tes	t Assav:		%

Reference Standard:

Type / Cylindar #: GMIS / ND29287

entration / Uncertainty: 20.90 % ±0,02 %

Expiration Date: 09/01/2028

Traceable to: SRM # / Sample # / Cylinder #: SRM 2659a / 71-E-19 / FF22331

SRM Concentration / Uncertainty: 20,863% / ±0.021%

SRM Expiration Date: 08/23/2021

Secon	d Anal	ysis Data	:			Date		
Z:	0	R;	0	C:	0	Conc:	0	
R:	0	Z:	0	C:	0	Conc:	0	
Z:	D	C:	0	R:	0	Conc:	0	
UOM:	%			М	ean Tes	t Assay:		%

Certified By

KelsonMa

AS6-20-22

ted herein has been prepared at your request by qualified experts within Linde Gas & Equipment Inc. While we believe that the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no warranty or representation as to the suitability of the use of the information for any purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Linde Gas & Equipment Inc., arising out of the use of the information contained herein exceed the fee established for providing such information.

APPENDIX B

PARTICULATE MATTER

1.0 Results Tabulation and Calculations

ISOKINETIC SAMPLING TRAIN RESULTS - METHOD:

Client Name	American Crematory Equipment Co.	Operator	JG, NH
Plant Name	Cypress View	Project #	PROJ-033954
Sampling Location	Unit A Exhaust Stack	Standard Temperature, °F	68
LICE IN AVERAC	E OF PUN SET2 1 or 0 => 1		SET

Sampling Location Unit A Exhaus	t Stack		Standard Temperature, *F	68
USE IN AVERAGE OF RUN SET?	1 or 0 =>	1		SET
Run Number		A-M5-1		AVERAGE
Run Date		03/06/23		
Run Start Time	hh:mm	1112		
Run Stop Time	hh:mm	1325		
Meter Calibration Factor	Υ	0.98		
Pitot Tube Coefficient	C _p	0.84		
Actual Nozzle Diameter	in	0.591		I
Sample Volume	ft ³	96.640		96.640
Total Sampling Time	min	120		120
Average Meter Temperature	°F	76.4		76.4
Average Stack Temperature	°F	1023.8		1023.8
Barometric Pressure	in Hg	30.1		30.1
Stack/Duct Static Pressure	in H ₂ O	-0.06		-0.06
Absolute Stack/Duct Pressure	in Hg	30.0		30.0
Average Delta H	in H₂O	2.13		2.13
Absolute Meter Pressure	in Hg	30.2		30.2
Avg Differential Pressure (Delta P)	in H ₂ O	0.050		0.050
Total Water Volume Collected	mL	188.0		188.0
Volume of Water vapor @ STP	SCF	8.849		8.849
Volume Metered @ STP	DSCF	94.081		94.081
Calculated Stack Moisture	% H ₂0	8.6		8.6
Saturated Stack Moisture	% H ₂ 0	100.0		100.0
Reported Stack Moisture Content	% H ₂ 0	8.6		8.6
Carbon Dioxide Percentage	% CO ₂	4.60		4.6
Oxygen Percentage	% O ₂	13.60		13.6
Carbon Monoxide Percentage	% CO	0.0		0.0
Nitrogen Percentage	% N ₂	81.8		81.8
Dry Mole Fraction	decimal	0.914		0.914
Dry Gas Molecular Weight	lb/lb-mole	29.28		29.3
Wet Stack Gas Molecular Weight	lb/lb-mole	28.31		28.31
Flue Gas Density	lb/ft ³	0.0735		0.073
Calculated Fuel Factor	F.	1.59		1.59
Percent Excess Air	% EA	169.9		169.905
Stack Cross-Sectional Area	in ²	314.2		314.2
Stack Cross-Sectional Area	ft ²	2.18		2.18
Percent of Isokinetic Rate	% ISO	98.6		98.6
	Air Flow Rate			
Average Stack Gas Velocity	ft/sec	21.31		21.31
Actual Stack Flow/Minute	ACFM	2,790		2,790
Dry Standard Stack Flow/Minute	DSCFM	911		911
Actual Dry Stack Flow/Minute	DACFM	2,550		2,550
Wet Standard Stack Flow/Minute	WSCFM	997		997

Average Stack Gas Velocity	ft/sec	21.31	21.31
Actual Stack Flow/Minute	ACFM	2,790	2,790
Dry Standard Stack Flow/Minute	DSCFM	911	911
Actual Dry Stack Flow/Minute	DACFM	2,550	2,550
Wet Standard Stack Flow/Minute	WSCFM	997	997

Concentration and Emission Rate Data	Summary		
Total Particulate	mg	106.0	
Concentration, Gr/DSCF	gr/DSCF	1.74E-02	1.74E-02
Concentration @ 12% CO2 (Stack)	Gr@12% stack	4.54E-02	4.54E-02
Concentration @ 12% CO ₂ (excluding	Gr@12% excluding		
auxiliary fuel)	auxiliary fuel	9.23E-02	9.23E-02
Emission Rate, lb/hr	lb/hr	1.36E-01	1.36E-01

Additional Calculation for percent CO2 Excluding Auxiliary Fuel for SDAPCD Rule 53

A) CO2 (ttl rate) = (%CO2*Qstd)/100	41.87
B) Fuel (ttl rate = read from gas meter, cfm=	15.60
C) Meter Correction factor = correction factor @68°F, 29.92 Hg =	1.329
D) Corrected Fuel rate, scfm = B*C	20.73
E) Volume of CO2 from 1 scf of Fuel	1.027
F) CO2 (from Fuel Combustion) = D*E =	21.29
G) CO2 (from Charge Combustion) = A-F =	20.586
H) % CO2 (from the Charge) = (G/(Qstd)*100 =	2.26

EXAMPLE CALCULATIONS, RUN A-M5-1

```
ABSOLUTE PRESSURE, INCHES OF MERCURY
Ps = Pbar + Pg/13.6
  = 30.05 + -0.06/13.6
  = 30.05
VOLUME OF WATER VAPOR, STANDARD CUBIC FEET
Vwstd = 0.002667 * [(Tstd + 460) / Pstd] * Vlc
  = 0.002667 * [(68 + 460) / 29.92 * 188.0
  = 8.849
SAMPLED VOLUME OF SOURCE GAS, DRY STANDARD CUBIC FEET
Vmstd = [(Tstd + 460)/Pstd] * Y * Vm * (Pbar + Delta-H/13.6) / (460 + tm)
   = [(68 + 460)/ 29.92] * 0.9800 * 96.640 * (30.05 + 2.133/13.6) / (460 + 76)
  = 94.081
MOISTURE CONTENT, PERCENT BY VOLUME
%H2O = Vwstd / (Vwstd + Vmstd)
  = 8.849 / (8.849 + 94.081)
DRY MOLE FRACTION, LB-MOLE/LB-MOLE
Mfd = 1 - \%H2O/100
  = 1 - 8.60/100
  = 0.914
DRY MOLECULAR WEIGHT, LB/LB-MOLE
Md = 44*(\%CO2/100) + 32*(\%O2/100) + 28*{[100-(\%CO2+\%O2)]/100}
  = 44*(4.6/100) + 32*(13.6/100) + 28*{[100-(4.6+13.6)]/100}
  = 29.28
WET MOLECULAR WEIGHT, LB/LB-MOLE
Ms = Md*Mfd + 18.0*\%H2O/100
  = 29.28*0.914 + 18.0*8.60/100
  = 28.31
FUEL FACTOR
Fo = (20.9 - \%O2) / \%CO2
  = (20.9 - 13.6) / 4.6
  = 1.589
ISOKINETIC SAMPLING RATE, PERCENT
%I = Pstd/(Tstd + 460) * (100/60) * Vmstd*(ts + 460)/[Ps*vs*Mfd*Theta*(PI*Dia*Dia/576)]
  = 29.92/(68 + 460) * (100/60) * 94.081*(1024 + 460)/[30.05*21.31*0.914*120.00*(PI*0.591*0.591/576)]
  = 98.6
VELOCITY, FEET PER SECOND
vs = 85.49 * Cp * SQRT[Delta-p*(460+ts)/(Ps*Ms)]
  = 85.49 * 0.84 * SQRT[0.0505*(460+1024)/(30.05*28.31)]
   = 21.31
VOLUMETRIC FLOW RATE, ACTUAL CUBIC FEET PER MINUTE
Qaw = (60/144) * vs * A
   = (60/144) * 21.31 * 314
   = 2790
VOLUMETRIC FLOW RATE, DRY STANDARD CUBIC FEET PER MINUTE
Qsd = (60/144) * Mfd * vs * A * (Tstd + 460)/(ts + 460) * (Ps/Pstd)
   = (60/144) * 0.914 * 21.31 * 314 * (68 + 460)/(1024 + 460) * (30.05/29.92)
   = 911
```

ISOKINETIC SAMPLING TRAIN RESULTS - METHOD:

American Crematory Equipment Co.

Client Name

Percent Excess Air

Stack Cross-Sectional Area

Stack Cross-Sectional Area

Percent of Isokinetic Rate

SDAPCD	5
JG, NH	1

188.231

314.2

2.18

98.2

Plant Name Cv	press View	Project #	PROJ-033954
Sampling Location Un	it B Exhaust Stack	Standard Temperature, °F	68
USE IN AVERAGE OF	RIIN SET2 1 or 0 =>	1 1	SET
Run Number	NON OET TOTO	B-M5-2	AVERAGE
Run Date		3-10-23	1
Run Start Time	hh:mm	1253	1
Run Stop Time	hh:mm	1418	
Meter Calibration Factor	Y	0.96	1
Pitot Tube Coefficient	C _p	0.84	
Actual Nozzle Diameter	in	0.591	
Sample Volume	ft ³	64.685	64.685
Total Sampling Time	min	72	72
Average Meter Temperatur	e °F	78.6	78.6
Average Stack Temperatur		988.0	988.0
Barometric Pressure	in Hg	29.9	29.9
Stack/Duct Static Pressure		-0.06	-0.06
Absolute Stack/Duct Press	sure in Hg	29.9	29.9
Average Delta H	in H ₂ O	2.43	2.43
Absolute Meter Pressure	in Hg	30.1	30.1
Avg Differential Pressure (0.059	0.059
Total Water Volume Collect		124.0	124.0
Volume of Water vapor @	STP SCF	5.837	5.837
Volume Metered @ STP	DSCF	61.214	61.214
Calculated Stack Moisture	% H ₂ 0	8.7	8.7
Saturated Stack Moisture	% H ₂ 0	100.0	100.0
Reported Stack Moisture (Content % H ₂ 0	8.7	8.7
Carbon Dioxide Percentag	e % CO ₂	4.18	4.2
Oxygen Percentage	% O ₂	14.09	14.1
Carbon Monoxide Percent		0.0	0.0
Nitrogen Percentage	% N ₂	81.7	81.7
Dry Mole Fraction	decimal	0.913	0.913
Dry Gas Molecular Weight	lb/lb-mole	29.23	29.2
Wet Stack Gas Molecular \		28.26	28.26
Flue Gas Density	lb/ft ³	0.0733	0.073
Calculated Fuel Factor	F _o	1.63	1.63

Operator

188.2

314.2

2.18

98.2

Air Flow Rate Results					
Average Stack Gas Velocity	ft/sec	22.77	22.77		
Actual Stack Flow/Minute	ACFM	2,981	2,981		
Dry Standard Stack Flow/Minute	DSCFM	992	992		
Actual Dry Stack Flow/Minute	DACFM	2,722	2,722		
Wet Standard Stack Flow/Minute	WSCFM	1,087	1,087		

Concentration and Emission Rate Data Summary					
Filterable Particulate	mg	55.4			
Concentration, Gr/DSCF	gr/DSCF	1.40E-02	1.40E-02		
Concentration @ 12% CO2 (Stack)	Gr@12% stack	4.01E-02	4.01E-02		
Concentration @ 12% CO2	Gr@12% excluding				
(excluding auxiliary fuel)	auxiliary fuel	7.33E-02	7.33E-02		
Emission Rate, lb/hr	lb/hr	1.19E-01	1.19E-01		

Additional Calculation for percent CO2 Excluding Auxiliary Fuel for SDAPCD Rule 53

A) CO2 (ttl rate) = (%CO2*Qstd)/100	41.52
B) Fuel (ttl rate = read from gas meter, cfm=	13.35
C) Meter Correction factor = correction factor @68°F, 29.92 Hg =	1.373
D) Corrected Fuel rate, scfm = B*C	18.34
E) Volume of CO2 from 1 scf of Fuel	1.027
F) CO2 (from Fuel Combustion) = D*E =	18.83
G) CO2 (from Charge Combustion) = A-F =	22.689
H) % CO2 (from the Charge) = (G/(Qstd)*100 =	2.29

% EA

in²

ft²

% ISO

APPENDIX B

PARTICULATE MATTER

2.0 Field Data

SAMPLING AND VELOCITY TRAVERSE POINT DETERMINATION EPA METHOD 1

CLIENT: American Crematory Equipment Co. Cypress View PLANT NAME: San Diego, CA CITY, STATE: **Unit A Exhaust Stack** SAMPLING LOCATION: Particulate TYPE OF TESTING: STACK GEOMETRY: Round NO. OF PORTS AVAILABLE: 2 NO. OF PORTS TO BE USED: 2 PORT INSIDE DIAMETER: 3 inches FAR WALL TO OUTSIDE OF PORT: 25,25 inches 5.25 inches NIPPLE LENGTH AND/OR WALL THICKNESS: 20.00 inches DEPTH OF STACK OR DUCT, D: STACK/DUCT AREA = 2.18 sq.feet 314.2 sq.inches DISTANCE OF TEST PORT LOCATION: 78.00 3.90 Diameters UPSTREAM FROM DISTURBANCE (A): inches 4.30 Diameters DOWNSTREAM FROM DISTURBANCE (B): 86.00 inches **DIMENSIONS VERIFIED IN FIELD:** Yes DATE: 3/5/2023 JG, NH CHECKED BY: MINIMUM NUMBER OF TRAVERSE POINTS: 24 Test Port Location DISTANCE DISTANCE % OF FROM INSIDE FROM OUTSIDE **POINT DUCT** OF PORT (in.) WALL (in.) **DEPTH** NO. 2.1 0.50 5 3/4 1 6 5/8 2 6.7 1.34 3 7 5/8 11.8 2.36 В 4 17.7 3.54 8 3/4 5 25.0 5.00 10 1/4 6 7.12 12 3/8 35.6 7 18 1/8 64.4 12.88 8 15.00 20 1/4 75.0 9 82.3 16.46 21 3/4 22 7/8 10 88.2 17.64 23 7/8 11 93.3 18.66 97.9 19.50 24 3/4 Flow Direction DRAWING NOT TO SCALE

SAMPLING AND VELOCITY TRAVERSE POINT DETERMINATION EPA METHOD 1

CLIENT: American Crematory Equipment Co. PLANT NAME: Cypress View CITY, STATE: San Diego, CA SAMPLING LOCATION: **Unit B Exhaust** TYPE OF TESTING: Particulate STACK GEOMETRY: Round NO. OF PORTS AVAILABLE: 2 NO. OF PORTS TO BE USED: 2 PORT INSIDE DIAMETER: 3 inches FAR WALL TO OUTSIDE OF PORT: 25.25 inches NIPPLE LENGTH AND/OR WALL THICKNESS: 5.25 inches DEPTH OF STACK OR DUCT, D: 20.00 inches STACK/DUCT AREA = 2.18 sq.feet 314.2 sq.inches DISTANCE OF TEST PORT LOCATION: **UPSTREAM FROM DISTURBANCE (A):** 18.00 inches 0.90 Diameters DOWNSTREAM FROM DISTURBANCE (B): 146.00 inches 7.30 Diameters **DIMENSIONS VERIFIED IN FIELD:** Yes DATE: 3/10/2023 CHECKED BY: JG MINIMUM NUMBER OF TRAVERSE POINTS: 24 Test Port Location % OF DISTANCE DISTANCE **POINT DUCT** FROM INSIDE FROM OUTSIDE NO. **DEPTH** WALL (in.) OF PORT (in.) 1 2.1 0.50 5 3/4 2 6.7 1.34 6 5/8 3 11.8 2.36 7 5/8 В 4 17.7 3.54 8 3/4 5 25.0 5.00 10 1/4 6 35.6 7.12 12 3/8 7 64.4 12.88 18 1/8 8 75.0 15.00 20 1/4 9 82.3 16.46 21 3/4 10 88.2 17.64 22 7/8 11 93.3 18.66 23 7/8 12 97.9 19.50 24 3/4 Flow Direction

DRAWING NOT TO SCALE

AIR FLOW RATE DETERMINATIONS

F.A PROJ-025761

Client Name:

American

Crematory

Equipment 6. Job No.:

4/5

Plant Name:

Renewables

Date:

3/10/23

City, State:

Compton, CA

Personnel:

JN, JC

Test Location:

ICE Stack

Barometric Pressure:

30 120. AL Exthermocouple ID:

Pitot Coef. (Cp):

0.84

Pitot ID:

Pressure Guage ID:

MBIO

VI	ELOCITY TRA	VERSE	VE	LOCITY TRAV	ERSE	VE	LOCITY TRAV	ERSE
Run#;	cyclonic	,	Run#:			Run#:		
Start Time	15:15	Leak Check	Start Time		Leak Check	Start Time		Leak Check
End Time:	12:42	Pre:	End Time:		Pre:	End Time:		Pre: 🗆
Static:	Angle"H	Post:	Static:	"H20	Post: 🗆	Static:	"H20	Post: 🗆
Point	AP (-1/30)	Temp (F)	Point	ΔP ("H2O)	Temp (F)	Point	ΔP ("H2O)	Temp (F)
4-82	0							
-71	0							
-40	9							
- 9	+2							
- 18								
-7,	4.2							
- 8	0							
- B	+2							
#- X3	+2							
b-83 -+1	+2							
1	+2							
1 - 512	+2							
- 4	+	-						
-310	0							7.0
-29	+2		-					
- 8	+1							
7	0							
. 6	0							
3	+3		-					
4	1-2							
3	+3							
2,	9							
	٠3							
Avg.	1.3		Avg.			Avg.		

Reviewer:

Kvoidk		
Grop 32	00	10th

CYCLONIC FLOW DETERMINATIONS

	CIG	LOINIO I LOW D		12 C761 Fir
Client Name:	American Crem	atory Equipment Co.		Job No.: PROJ- 033954 u/
Plant Name:	Cypress View			_ Run No.: 5 M - 1
City, State:	San Diego, CA			_ Date: <u>3-6-23</u>
Test Location:	Unit Exhaust S	tack 5		Personnel: 76
Barometric Pressure:	"Hg	Pitot Coef. (Cp):	0.84	Duct Diameter:
Pitot ID:	PT	Pressure Guage ID:	MB 7	Duct Width:
Thermocouple ID:	TI			

	VELOCITY 7	ΓRAVERSE			ALI	GNMENT AP	PROACH DAT	ГА	
Start Time:	1536	Leak (Check		(OMIT IF	AVERAGE O	F YAW ANGLE	S ≤ 20°)	
End Time:		Pre-Test:	6	Ru	ın #:	Ru	n No.:	Rui	n No.:
Static:	"H20	Post Test:							
Point	Yaw Angle (°Ø)	ΔP "H2O	Temp (°F)	Basetime	Min/Point	Basetime	Min/Point	Basetime	Min Point
A-12	0								
-11	D			San San					
-10	()			TO LANGE		100 A 100 A			
-9	0								
-8	ð								
-7	0								
-6	Ď								
-5	Ŏ					Rugue III			
-4	0								
-3	0								
- 2	0							5.07 1.00	
-\	0								
B-\$15	Ŏ								
-11	0								
-10	0								
- 9	Ō								
-8	0					845.43			
-7	0								
-6	0								
- 2	0								
-4	Ã					利益的		Samuel S	
-3									
-2	0					C IS REI			
_\	U			C-8 913					
vg.	0			Avg. ΔPý		Avg. ΔPy		Avg. ΔPy	

Reviewer:

ISOKINETIC SAMPLING TRAIN DATASHEET - METHOD SDAPCD 5

							_	101	1 0 1	- 4			
Client Na			Crematory	Equipm	ent Co.		Run#	5	A - M5			FA u/s	1
Plant Nan		Cypress \					Project #		PROJ-6	33934	Run Sta		(11)
ant City		San Dieg					Personn		JU		Run En	a	1325
Fest Loca		Unit Ext	aust Stack				Tester S		A	- 01	- 0	1 1	727
Date of Te	est		5-6-9	- 3			Checked		de	myst	T	23[4]	
		netic Facto	or Setup		Press	sures		ampling E	quipmer	nt "	-		Actuals
∆H @ 0.75	SCFM			181	Pbar	7000	Meter Co	nsole #	1	137	157/1	0.362	7 CO ₂
Meter Cal	ibration	Factor		0.98		-0.06	Ideal Noz	zzle Diame	eter	0.561	K753		
Pitot Tube	e Coeffic	cient		.84	Abs P	70-1	Nozzle #			MUII	K752	0.3641	02
Estimated	Dry Ga	s Meter Te	emp	80	Tstd, °F	65	Actual N	ozzle Dian	neter	0 50	1		
Estimated	I Stack	Temp or M	2 Avg.	992	Pstd	29.92	Probe Lo	jth/ID#	u	4-3			CO
Estimated	Delta P	or M2 Av	g.	0.054	Estin	nates	Liner Ma	terial		GĹ	XAD ID 8	& Tares	0.0
Estimated	l Moistu	re Conten	t	10.6	CO ₂	50	Filter Bo	x #		NA `			N ₂
Estimated	Dry Mo	lecular W	eight	1933	O ₂	17. L	Cold Box	c ID#		NA			
Estimated	l Velocit	y, ft/sec		118	co	01-11	Umbilica	I ID#		NA			H ₂ 0
K Factor (delta H/	delta P)	41.79	4/	N ₂	riv	TC ID #s			VI-	7		
			Check Data		/Leak C		1	2	3	4	5	6	Status
	-qaipine	a Leak	Pre	Post/	DGM ini		<u> </u>	455.400				-	
Pitot		II B P	- FIG	rosy	Vacuum		15	-14 3.700		101			
Tedlar Ba	a ID				Leak Ra		0.008	0.012	טטטים	-47	<i>V V Y</i>		
reulai Da	9 10	A CONTRACTOR OF THE PARTY OF TH	NO	(C) G TI I	DGM fin		0-00	451.701			007		
يم عالل عد		C EU INS		1						UU			-
			Dry Gas	3/4/2	Desired			DGM	DGM				Imp.
	Clock	Test	Meter	Velocity		Orifice	Pump	Inlet	Outlet	Stack	Probe	Filter	Exit
Point #	Time	Time	Reading	Head	ΔΗ	ΔΗ	Vac.	Temp	Temp	Temp	Temp	Temp	Temp
	24 hr	min		Contract of the last of the la	de la constantina della consta	in H ₂ O	in Hg	°F	°F	°F	°F	°F	°F
A - 12	1112	0	409.500			7 71	3	76	7-4	890	MA	MC	57
· 11			413 6		2.09		3	73	68	957	(20
· 10		10	417-60	10	2.71	250	-3	⇒ ∫	33	JD I C			127
- 9		15	471.97	0.05	1 09	2.10	3	77	76	475			17
- 8		20		0.04	1-67	161	3	87	73	1010			58
. 7		71	429 65	0.05	2,09			87	73	1010			2.8
- 6		30	433-67	004	167	1-15	2	74	71	933	_		56
- 5		31	137.70	U. U.Y	167	1.65	3	74	71	984			56
. 4						10.				04 7			
		40		0.046		190		74	71	971			59
. 3		40	444.44	0.038	1.59	1.60	3	75	77	915			58
- 2			444 8.30	0.03x	1.59	-	3	35	33	915			28
· 2		75	444 430	0.0 ZX 0.0414 0.04	1.59	1.95	3	39	73	755			58
· 2 · 1 · 12	997	10 15	444 44 44 8.30 45.00 45.00	0.0 ZX 0.0444 0.04 0.068	1.67	1.95	,	75	73	915			58
· 2 · 1 // 12 · 11	997	15 15 60 61	444.44 44 \$.30 455.40 455.40	0.02X 0.044 0.04 0.068	1.67	1.60	3	75 75 76 70	73173	754			58
· 2 · 1 ß· 12 · 11 · 10	1997	750 75 60 570 70	444.44 44 8.30 455.40 455.40 466.33 464.60	0.0 2x 0.044 0.04 0.056 0.056	1.59	1.60	١	75 75 76 80 81	チューティーティーティーティーティーティーティーティーティーティーティーティーティー	754			58
· 2 · 1 // 12 · 11 · 10 · 9		10 10 10 10 10 10 10 10 10 10 10 10 10 1	444.44 475.00 475.00 457.40 464.60 464.60	0.028 0.044 0.04 0.056 0.056 0.053	1.67	1.61 1-17 2.31 2.67 2.67	4	75 75 76 70	73 73 73 73 73 73	777			58
· 2 · 1 I3 · 12 · 11 · 10 · 9 · 8	L-1	10 60 61 70	444.44 448.30 455.40 455.40 466.33 464.60 464.60 464.60	0.0 ZX 0.044 0.04 0.056 0.056 0.050 0.050	1.94	1.60 1.65 1.65 2.30 2.65 2.95	4	75 75 76 80 81	マランステンステンステンステンステンステンステンステンステンステンステンステンステン	917 1134 1175 1154			5 8 6 U 5 T 5 T 5 T 5 T 5 T 5 T 5 T 5 T 5 T 5
2 1 13 12 11 10 9 8	1-6.2	10 10 10 10 10 10 10 10 10 10 10 10 10 1	444.44 448.00 455.40 455.40 469.60 464.60 464.60 464.60 464.60 464.60 464.60 464.60 464.60	25 0.0 20.0	1.94 1.67 2.87 2.84 2.94 2.94	1.60 1.95 2.30 2.65 2.95 3.05	7 7 7 7 7	75 75 76 80 81	ナライン ティーティー ティー・ティー・ティー・ティー・ティー・ティー・ティー・ティー・ティー・ティー・	917 11301 1175 1157 1157 1157			58 50 51 51 51 77
· 2 · 1 // 12 · 11 · 10 · 9 · 8 · 7 · 6	1-6-2	10 10 10 10 10 10 10 10 10 10 10 10 10 1	444.44 448.30 45.00 45.00 460.33 464.60 464.60 464.60 464.60 464.60 464.60 464.60 464.60 464.60	25 0.0 20.0	1.94 1.67 1.87 1.67 1.67 1.68	1.60 1.95 1.65 2.34 2.45 2.95 3.05	77777	75 75 76 80 81	ナライステナステナイン	915 1130 1173 1150 1150 1049			58 50 51 51 51 51 51 51
2 1 13 12 11 10 9 8 7 6	1-6.2	10 10 10 10 10 10 10 10 10 10 10 10 10 1	444.44 448.30 457.40 469.43 464.60 464.60 464.60 473.70 478.40 483.11 493.13	25 0.0 21.0.0 20	1.94 1.67 2.87 2.87 2.07 2.07 1.68	1.60 1.95 1.65 2.30 2.95 3.05 1.70	7 55 5	757776	ナラインファインファインファインファインファインファインファインファインファインファ	915 1130 1173 1150 1150 1049			58 60 55 55 55 55 55 55 55 55 55 55 55 55 55
2 1 13 12 11 10 9 8 7 6 5 4	1-6-2	10 10 10 10 10 10 10 10	444.44 448.30 455.40 455.40 464.60 473.70 478.40 483.11 498.37	25 0.0 28 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1.94 1.67 2.87 2.87 2.07 3.04 1.69 9 1.67 2.09	1.60 1.95 1.65 2.30 2.95 3.05 1.70 1.70	7 55 57	7577	73 73 73 73 74 74 74 74 74	915 915 1130 1157 1157 1049 1049			58 60 51 51 51 51 60 60
2 1 3 12 11 10 9 8 7 6 5 4	1-6-2	100 100 100 100	444 44 44 8.30 45 7.00 45 7.00 46 9.33 46 9.60 47 8.40 48 8.40 40 8.40 40 8.40 40 8.40 40 8.40 40 8.40 40 8.40 40 8.40 40 8	25 0.0 14.0 14.0 16.0	1.94 1.67 1.67 1.67 1.67 1.69 1.69 1.69 1.69 1.69 1.69	1.60 1.95 1.65 2.34 2.95 3.05 1.70 1.70 1.70	77757777	7577	サラシュラション チャンファン	1130 1130 1130 1150 1150 1049 1049 1049			58 60 51 51 51 50 60 60 60
. 2 . 1 . 12 . 11 . 10 . 9 . 8 . 7 . 6 . 5 . 4 . 3 . 2	1-6-2	100 100 100 100 100	444 44 44 8.30 45 7.00 45 7.00 46 0. +3 46 4. 60 46 4. 60 47 8. 40 47 8. 40 48 7. 1 498 7. 1	0.028 0.044 0.046 0.050	1.94 1.67 1.67 1.67 1.67 1.68 1.68 1.68 1.69 1.63	1.60 1.95 1.65 2.30 2.95 3.05 1.70 1.70 1.70 1.70	7 55 5	75977	まる まる まる まっか	915 915 1177 1177 1157 1157 1049 1049 1049 1049			5 8 6 0 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5
. 2 . 1 . 12 . 11 . 10 . 9 . 8 . 7 . 6 . 5 . 4 . 3 . 2 . 1	7-6-2 V 197.00	10 10 10 10 10 10 10 10	444 44 44 8.30 45 .00 45 .00 46 .00 46 .00 473 .70 478 .40 483 .11 494 .80 498 .70 498 .70	0.028 0.044 0.068 0.063	1.94 1.67 1.67 1.67 1.67 1.68 1.68 1.68 1.69 1.63	1.60 1.95 1.65 2.30 2.95 3.05 1.70 1.70 1.70 1.70	77757777	7577	サラシュラション チャンファン	1130 1130 1130 1150 1150 1049 1049 1049			58 60 51 51 51 50 60 60 60
2 11 12 11 10 9 8 7 6 5 4 3 2 1 END	1-6-2	100 100 100 100 100	444 44 44 8.30 45 7.00 45 7.00 46 0. +3 46 4. 60 46 4. 60 47 8. 40 47 8. 40 48 7. 1 498 7. 1	0.028 0.044 0.068 0.063	1.94 1.67 1.67 1.67 1.67 1.68 1.68 1.68 1.69 1.63	1.60 1.95 1.65 2.30 2.95 3.05 1.70 1.70 1.70 1.70	77757777	75977	まる まる まる まっか	915 915 1177 1177 1157 1157 1049 1049 1049 1049			5 8 6 0 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5
2 1 3 12 11 10 9 8 7 6 5 4 3 2 1 END	7-6-2 V 197.00	10 10 10 10 10 10 10 10	444 44 44 8.30 45 .00 45 .00 46 .00 46 .00 473 .70 478 .40 483 .11 494 .80 498 .70 498 .70	0.028 0.044 0.068 0.063	1.94 1.67 1.67 1.67 1.67 1.68 1.68 1.68 1.69 1.63	1.60 1.95 1.65 2.30 2.95 3.05 1.70 1.70 1.70 1.70	77757777	75977	まる まる まる まっか	915 915 1177 1177 1157 1157 1049 1049 1049 1049			5 8 6 0 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5
. 2 . 1 . 12 . 11 . 10 . 9 . 8 . 7 . 6 . 5 . 4 . 3 . 2 . 1 . END	7-6-2 V 197.00	10 10 10 10 10 10 10 10	444 44 44 8.30 45 .00 45 .00 46 .00 46 .00 473 .70 478 .40 483 .11 494 .80 498 .70 498 .70	0.028 0.044 0.068 0.063	1.94 1.67 1.67 1.67 1.67 1.68 1.68 1.68 1.69 1.63	1.60 1.95 1.65 2.30 2.95 3.05 1.70 1.70 1.70 1.70	77757777	75977	まる まる まる まっか	915 915 1177 1177 1157 1157 1049 1049 1049 1049			5 8 6 0 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5
. 2 . 1 . 12 . 11 . 10 . 9 . 8 . 7 . 6 . 5 . 4 . 3 . 2 . 1 . END	7-6-2 V 197.00	10 10 10 10 10 10 10 10	444 44 44 8.30 45 .00 45 .00 46 .00 46 .00 473 .70 478 .40 483 .11 494 .80 498 .70 498 .70	0.028 0.044 0.068 0.063	1.94 1.67 1.67 1.67 1.67 1.68 1.68 1.68 1.69 1.63	1.60 1.95 1.65 2.30 2.95 3.05 1.70 1.70 1.70 1.70	77777777	75977	まる まる まる まっか	915 915 1177 1177 1157 1157 1049 1049 1049 1049			5 8 6 0 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5

ISOKINETIC SAMPLING TRAIN DATASHEET - METHOD SDAPCD 5

Client Nar	200	American	Crematory	Fauinm	ent Co		Run#		17 - M	5-1/2	40257	. C.A	4/5	1
Plant Nam		Cypress V		Ечиріїї	CHE OO.		Project #	ŧ		33954		art	12.53	1
		San Diego					Personn		TC		Run En		1418	1
Test Loca			aust Stack	13			Tester S		2		11/	111:	#	1
Date of Te			- 23	12			Checked		Ria	may St	7/2	/ had	1	1
Date Of Te					Dros	sures		ampling E	Marie Marie	77	Filter ID	& Targe	Actuals	i
∆H @ 0.75		netic Facto	r Setup	1 2 1		30 1			-quipiliei					1
				14 3 14		10 11	Ideal No.	zzle Diame	***	MBIO	N 133	0.366	1 002	1
Meter Cali										.593	44.01		02	1
Pitot Tube				084	ADS P	30-1	Nozzie #		3-10-23	K	Moll	_	- O ₂	1
		s Meter Te		75	Tstd, °F			ozzle Dian	neter	0.50	1/			-
		Temp or M		1000	Pstd		Probe Lo		7	5-9 G	VAD ID	0 7	0.0	ADM -
		or M2 Avg		0.044		nates	Liner Ma				XAD ID	& Tares		٠ '
		re Content		9.3	CO ₂	4.2	Filter Bo			NA			N ₂	-
		olecular We	ight	29.95		14 4	Cold Bo			NA			11.0	-
Estimated				19.8	co	0.0	Umbilica			NA			H ₂ 0	-
K Factor (delta H	(delta P)		41.01	N ₂	81-1	TC ID #s			2-0)			Ţ
E	quipme	ent & Leak	Check Data		Leak (Checks	1	2	3	4	5	6	Status	
NOTE OF	اوساوا		Pre	Post	DGM ini	tial		609.965						
Pitot			0	1	Vacuum		11	to	10					
Tedlar Ba	g ID		A/	A	Leak Ra	te	0.004	\$0000	0.002					
UR SEVE	3.5	18 23 10	THE WAR	OPPLIED IN	DGM fin	al		610.05						
			Dry Gas			Actual		DGM	DGM	Ī			lmp.	1
	Clock		Meter	Velocity		Orifice	Pump	Inlet	Outlet	Stack	Probe	Filter	Exit	
Daint #	Time	Time	Reading	Head	ΔH	ΔH	Vac.	Temp	Temp	Temp	Temp	Temp	Temp	1
Point #	24 hr	min	ft ³	in H ₂ O	in H ₂ O	in H ₂ O	in Hg	°F	°F	°F	°F	°F	°F	1
A · 12	1153		578 53		1.58	1.60	1	7-3	7-3	278	NO	NA	59	1
11	1,000	3		0.0410	1.72	1.70		74	73	890	1	. 0	56	1
· 10		7	28-926	0.0430	1 76	1.75	1	76	72	911	1		SS	1
. 9		o ₁	584.975	0.0630	2.58	2.50	2	79	7-3	912			5 4	1
. 8		12	287,765		2.79	2.80	2	81	74	902			\$3	1
. 7		15	STOPE	0.0670	2.25	2. 75	2	81	7-	1018			53	1
6		18	282.582			2.60	2	83	7.5	921			52,	1
. 5		1.1	596.450	0.0575	3.36	2.35	2	83	7-5	925			52	1
. 4		2 4	599.230		2.05	2.05		83	75	8001			80	1
3		27	601.725			2.55	1	83	7-6	998			1-8	1
. 2		70	604.610	0.0575		2.35	2,	84	7-6	1006			48	1
· 1	1329	33	607.310			2.40	2	83	76	10/8			16	1
13 12	1342	36	609.965	0.0670	2.77	2.75	2	79	76	1115			45	1
- 11	.,,	79	612.825	0.07.00		2.8.5	3	80	76	1032			4s	1
- 10		43	615-675		3.22		3	82	75	1026			44]
. 9		75		9.0815		3,40	3	83	7-6	1045			4-3]
- 8		48	621.850	0.0700		2.85	2	83	76	1017			43]
. 7		71	624-750	2450.0		2.95	2	84	76	1016			43]
- 6		24		0.0605		2.50	3	84	7-1	980			+4]
. 5		F = =	630.445			230	3	28	77	1020			14	
- 4		60	633.10.5	0.0555	2.15	2.15	25	2.8	77	1000			44	
. 3		63	635.640		2.05	2.05	2	82	77	1002			44	
· 2		66	265.88			1.85		84	77	240			44	
. 1		69	640.605	0.0470		1.95	1	85	78	810			44	
END	1418	7)	642.975											
-														
_														
-					1]
	-					MAX =>	3		00			AL.		
Average '	Values	72.0	64.685	P2046	2.432	2.429	TOTAL CO.	X.F	. 6	988.0	1			
		. 410	0.00	4. 44			4	- 0	- 4	100	-1			

MOISTURE AND FIELD RECOVERY SHEET (METHOD - SPAPED S

Box No.:	025761 415	Date Prepared:		Assembled by: V. Maclo onia
Job No.	Proj = 033954	Run Number	A-M5-1	
Cypressview Plant Name	American Crematory Equipment	Test Date	3/6/23	
	San Diego, cA	Analysis Date	3/6/13	
Test Location	Unit A Exhaust	Analyst	2 N	
	nr 40	Einel W/4	458.q	
	DI 420	Final Wt., g Tared Wt., g	594.8	
Volume (ml)	200	Catch, g	164.1	
		Г		
		Final Wt., g		
Volume (ml)		Tared Wt., g		
		Catch, g		
Reagent	<u> </u>	Final Wt., g		
Volume (ml)		multiply by 1.1*		
	*(KMnO4 density of 1.1 g/ml)	Empty Wt., g		
		Catch, g	~	
	Silica Gel	Final Wt., g	223.9	
		Tared Wt., g	200.0	
Balance No.	11#10	Catch, g	23.9	
Span Weight, g	5000	TOTAL, g	188.0	
Reading, g (± 0.5)	1999.8			
	%	Silica Gel Spent	95	
		Level Marked (?)	/	
	•		K752/0-3641	
	Filter (if applicable)	- 1	k753/0.3611	
Filter Appearance	(if applicable)	1: Both		lack
Reagent Appearar	nce (if needed)	1: Dark	Black Cloud	ly
Comments				
Form D104 - Moistu	ure - Field Sample Recovery QC 0112	:18		Reviewer &

AirKinetics, Inc.

MOISTURE AND FIELD RECOVERY SHEET (METHOD - SDAPCD 5) x No.: _______ Date Prepared: ______ Assembled by: V. Macedonic

DOX 110	01 5761 F.A	_Date Frepared:		Assembled by	A. Wacegoura
Job No.	Proj-033954 415	Run Number	B-MS-1	R-MS-2	
Plant Name	Cypress View	Test Date	3/6/23	3/10/23	
City/State_		Analysis Date	3/6/23		
Test Location	Unit & Exhaust	Analyst	3 N	3/10/23 TN	
	D= . >		<u> </u>		
Reagent_	DI HO	Final Wt., g	671.5	713.9	
Volume (ml)	500	Tared Wt., g	288.2	8.509	
		Catch, g		1((.)	
Reagent_		Final Wt., g			
		Tared Wt., g	S		
		Catch, g	100		
Reagent		Final Wt., g	N.		
		multiply by 1.1*	B		
	*(KMnO4 density of 1.1 g/ml)	Empty Wt., g	K		
		Catch, g			
	677 (7.1	F: 177	દાદાડ	212.9	
	Silica Gel	Final Wt., g	200.0	200.0	
Balance No.	DT# I\	Tared Wt., g Catch, g	0. 8/	12.9	
		Catch, g			
Span Weight, g	2000	TOTAL, g		124.0	
Reading, g (± 0.5)	1997.7				
	%	Silica Gel Spent		50/	
	Liquid I	evel Marked (?)			
	Filter (if applicable)	No./Tare, g		K755/0.3616	
		No./Tare, g			
Filter Appearance (i	f annlicable)				
2: G-0					
	1				
Reagent Appearance					
2: Dark	black particul	ate insid			
Comments					
× 					
-					
Form D104 - Moisture	- Field Sample Recovery QC 01121	8		Reviewer_	de

AirKinetics, Inc.

4/6/23, 11:40 AM Elevation Finder

Elevation Finder

This tool can be used to find an estimate for the elevation of a point on the earth. Click/tap the map or type the ddress in the text box.

Find Elevation Map



35.6 m or 116.9 feet Location :32.70322,-117.10858

Click on the map or input a location below to find the elevation.

Full Screen

Clear Map

onmental Information 151 Patton Avenue National Centers for

Asheville, North Carolina 28801

Local Climatological Data Hourly Observations

Generated on 04/06/2023 March 2023

Current Location: Elev: 15 ft. Lat: 32.7336° N Lon: -117.1831° W

National Environmental Satellite, Data, and Information Service

National Oceanic & Atmospheric Administration

nerce.

U.S. Department of .

30.15 Alti-meter Setting (inHg) 30.15 30.16 30.15 30.15 30.15 30.14 30.14 30.14 30.15 30,16 30.18 30.19 30.20 30.19 30.20 30.18 30.16 30.14 30.15 30.14 23 Precip Total (in) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 22 Report Type FM-15 FM-15 FM-15 FM-15 FM-15 FM-15 FM-16 FM-15 FM-15 FM-16 FM-16 FM-15 FM-15 FM-15 FM-15 FM-12 FM-15 FM-15 FM-15 FM-16 FM-16 FM-16 FM-12 7 30.19 30.14 Sea Level Press 30.14 30.14 30.14 30.19 30.19 30.18 30.16 30.14 30.14 (inHg) 30.15 30.16 30.16 30.18 30.19 2 Net 3-Hr Change (inHg) +0.03 +0.01 +0.01 +0.01 +0.01 -0.04 -0.01 13 Press Tend 9 0 6 8 9 ω ထ ന Station Press (inHg) 30.15 30.12 30,13 30,12 30.12 30.10 30.12 30.13 30.15 30,16 30.17 30.16 30.14 30.13 30.11 30.12 30.12 30.12 30.11 30.11 30,11 30.11 30.17 4 Wind Gusts (MPH) Wind Dir (Deg) VRB 250 310 290 000 000 9 000 000 8 000 8 080 200 250 290 280 290 15 90 8 000 940 8 Wind Spee d (MPH) 9 10 4 4 6 0 ო 0 0 0 0 0 0 0 0 0 က 0 0 က ന φ Φ 00 Fee % 23 22 \$ 5 75 75 77 74 77 8 8 62 53 52 50 20 77 17 8 77 1 77 17 77 5.6 6.7 5.6 6.7 6.1 6.1 6.1 5.6 6.7 6.1 6.1 Dew Point Temp 42 6.7 6.7 7.2 6.7 6.7 6.7 6.1 6.7 6.1 6.1 6.7 6.1 <u>0</u> 43 42 43 44 44 43 43 43 43 42 42 44 43 44 43 43 E 45 £ 44 44 44 4 44 44 10.6 1.1 10.0 10.6 10.6 11.7 8.9 8,3 8.3 8.3 7.8 11.1 11.1 8.9 8.9 8.9 8,9 8.3 8.3 9.4 9.9 8.9 Wet Bulb Temp <u>©</u> 5 22 53 52 52 Œ 48 48 48 48 48 8 48 47 47 47 47 46 46 47 49 20 5 51 51 თ 10.6 10.6 10.0 10.0 10.0 10.0 15.6 15.6 16.7 16.1 1.1 10.0 10.0 12.8 13.9 16.7 10.6 10.6 10.6 7. 16.1 16.1 9.4 <u>ပ</u> Bulb ∞ Station: SAN DIEGO INTERNATIONAL AIRPORT, CA US WBAN: 72290023188 (KSAN) က္ထ 20 49 2 22 9 9 62 62 61 Œ 51 52 22 51 20 50 50 57 61 61 51 5 5 Weather Type (see documentation) AU | AW | MW 9 10.00 10.00 10.00 10.00 10,00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 9.94 10.00 10.00 10.00 10,00 10.00 10.00 10.00 10.00 9.94 VIsi-bility S SCT:04 27 SCT:04 60 SCT:07 250 FEW:02 25 BKN:07 180 BKN:07 250 FEW:02 19 BKN:07 25 BKN:07 150 SCT:04 19 BKN:07 27 BKN:07 150 SCT:04 21 BKN:07 100 BKN:07 23 BKN:07 100 SCT:04 23 BKN:07 100 SCT:04 20 BKN:07 100 BKN:07 24 BKN:07 150 SCT:04 23 BKN:07 150 FEW:02 23 SCT:04 150 FEW:02 21 SCT:04 55 BKN:07 250 FEW:02 22 SCT:04 60 BKN:07 250 FEW:02 25 SCT:04 60 BKN:07 250 SCT:04 25 SCT:04 60 BKN:07 250 SCT:04 30 SCT:04 60 BKN:07 250 SCT:04 28 SCT:04 60 BKN:07 250 FEW:02 25 FEW:02 60 BKN:07 230 FEW:02 45 BKN:07 150 SCT:04 25 BKN:07 150 FEW:02 21 BKN:07 55 Sky Conditions 26 26 Sta-Type 1 / ~ က 7 _ ~ / 4 1 ~ ~ ~ 4 0400 1000 Time (LST) 0422 0141 0219 0223 0231 0351 0402 1051 1451 0151 0251 0451 0051 0751 0851 0951 1151 1251 1351 0551 0651 ~ -025761-RT-4461 Page 58 W041AS 9 90 9 90 90 90 90 8 90 90 90 90 **□** a **→** a

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		1	N:07 65																	
10	0951	**************************************	BKN:07 33 BKN:07 65 OVC:08 120	10.00		09	15.6	53	11.7	47 8.	8.3 62	0	000	30.09		-0.02 30	30.12 FM	FM-15 0.00		30.12
10 1	1000	4	1	9.94		09	15,6	53	11.7	47 8.	.3 62	0	000	30.08		-0.02 30	30.12 FM	FM-12		1 1
10 1	1051	7 品型(2		10.00		62	16.7	55	12.8	49 9.	9.4 62	e	VRB	30.09		30	30.11 FM	FM-15 0.00		30.12
10	1130			10.00		62	16.7	53	11.7	45 7.	7.2 54	φ	VRB	30.08			Η	FM-16	30.	30.11
10 1	1151	7 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		10.00		63	17.2	54	12.2	45 7.	7.2 52	5	160	30.07		30	30.10 FM	FM-15 0.00		30.10
10 1	1251	上 20		10.00		63	17.2	53	11.7	44 6	6.7 50	80	140	30.04		+0.05 30	30.07 FM	FM-15 0.00		30.07
10	1351	<u></u> 上	FEW:02 10 BKN:07 21 OVC:08 35	10.00		62	16.7	55		47 8	8.3 58	9	150	30.02		30		FM-15 0.00		30.05
\vdash	1451	H	OVC:08 17	7.00		09	15.6	53	Н	\forall	Н	-	200	30.03		30	30.06 FIV	Ц	H	30.06
\rightarrow	1524	ر ا	OVC:08 17	2.50	-RA:02 RA RA	28	14.4	8	+	+	+	-	160	30.04	+		H H	4	+	30.07
-	1545	- V	FEW:02 9 OVC:08 15	2.00	-RA:02 BR:1 RA RA	25	13.9	55	12.8	54 12	12.2 88	80	160	30.04			E	FM-16 0.02	\dashv	30.07
4TA	1551	20 S	SCT:04 7 OVC:08 15	2.00	RA:02 BR:1 RA RA	25	13.9	55	12.8	53 11	11.7 87	00	160	30.04		-0.01	30.06 FIV	FM-15 0.04		30.07
_	1554	20 00	SCT:04 7 OVC:08 14	1.50	RA:02 BR:1 RA RA	25	13.9	55	12.8	53 11	11.7 87	7	160	30.04			Ę.	FM-16 0.01		30.07
-	1600	4	80	1.99	IRA	22	13.9	55	12.8	53 11	11.7 87	8	160	30.03	Н	-0,01	30,06 FIV	FM-12		
6T-F	1614	7 80	BKN:07 7 OVC:08 14	1.25	RA:02 BR:1 RA RA	22	13.9	55	12.8	53 11	11.7 87	8	140	30.03			FIN	FM-16 0.04		30.06
	1627	7 PB	BKN:07 7 OVC:08 14	1.50	-RA:02 BR:1 RA RA	22	13.9	55	12.8	54 12	12.2 90	6 (140	30.03			FIV	FM-16 0.06	-	30.06
	1643	Z B O	BKN:07 7 ·OVC:08 14	1.25	RA:02 BR:1 RA RA	25	13.9	55	12.8	53 1	11.7 87	7	170	30.04			F	FM-16 0.09		30.07
-	1651	2 0 8 0	BKN:07 7 OVC:08 14	1.25	RA:02 BR:1 RA RA	25	13.9	55	12.8	54 12	12.2 90	7 0	180	30.05		30	30.07 FIV	FM-15 0.12	-	30.08
2	1706	7 00 0	BKN:07 7 OVC:08 14	1.75	-RA:02 BR:1 RA RA	25	13.9	55	12.8	54 12	12.2 90	9	160	30.05			Ę	FM-16 0.04	-	30.08
59 o	1711	7 00 0	SCT:04 5 OVC:08 14	2.00	-RA:02 BR:1 JRA JRA	25	13.9	22	12.8	54 12	12.2 90	9	150	30.05			Ē	FM-16 0.04		30.08
9	1713	7 OB	BKN:07 6 OVC:08 12	1.75	BR:1	25	13.9	55	12.8	54 1	12.2 90	9	150	30.05			Ē.	FM-16 0.05		30.08
_	1730	7 QB	BKN:07 6 OVC:08 12	1.25	-RA:02 BR:1 RA RA	22	13,9	55	12.8	54 12	12.2 90	7	140	30.05			Ē	FM-16 0.09		30.08
10	1751	7 OB	BKN:07 6 OVC:08 12	1.25	-RA:02 BR:1 RA RA	28	14.4	99	13.3	55 12	12.8 90	7	140	30.05		36	30.08 FN	FM-15 0.14		30.08
10	1758	7 OB	BKN:07 6 OVC:08 12	1.50	-RA:02 BR:1 RA RA	28	14.4	56						30.05			Ē	_		30.08
\vdash	1825		OVC:08 6	2.50	-RA:02 BR:1 RA RA	28	14.4	26	4	55	4	+	+	30.04			iĒ į	FM-16 0.06	+	30.07
-	1849	+	OVC:08 6	3.00	RA:02 BR:1 RA RA	29	15.0	57	13.9	+	12.8	9 0	965	30.06	-	0.02	30 08 FR	FM-16	+	30.09
2 6	1855	-	OVC:08 7	3.00	RA:02 BR:1 RA RA	29	15.0	27	+	+	-	+	+	+	+	†	-		+	30.08
10	1951	۲ 0	FEW:02 4 OVC:08 9	4.00	-RA:02 BR:1 RA RA	29	15.0	22	13.9	56 1:	13.3 90	2 2	140	30.05		36	30.08 FN	FM-15 0.07		30.08
0	2000	7	SCT:04 4 OVC:08 11	00.9	BR:1	29	15.0	22	13.9	56 1:	13.3 90	0 7	170	30.06			Œ	FM-16 T		30.09
10	2026	7 C	OVC:08 7	1.75	RA:02 BR:1 RA RA	29	15.0	22	Ц	Н	Ц			30.07			F		Н	30.10
-	2035		OVC:08 7	2.50	RA:02 BR:1 RA RA	29	15.0	22	4	+	4	-	+	30.06	+		-		-	30.09
9 5	2051	~ ^	OVC:08 7	2.50	-RA:02 BR:1 RA RA	29	15.0	57	+	+	13.3 90	2 3	150	30.07	+	<u></u>	30.09 FA	FM-15 0.08	+	30.10
+-	2132	+	OVC:08 5	4.00	-RA:02 BR:1 RA RA	29	15.0	57	13.9	+	\vdash	+	+	30.06	1		Œ	FM-16 0.02	+	30,08
+	2143	Н	OVC:08 5	2.50	-RA:02 BR:1 RA RA	29	15.0	22	Н	H	13.3 90		\vdash	30.06			E i	FM-16 0.03	\vdash	30.09
-	2149	+	OVC:08 5	1.75	-RA:02 BR:1 RA RA	20	15.0	28	4.4	57 1	13.9 94	4 c σ α	160	30.06	-	000	30 00 EB	FM-16	+	30.09
10	2151	,	OVC:08 5	7.00	-KA:UZ BK: 1 JKA JKA	034	19.0	000	4	-	4	-	-	+	-	7	-	-	-	20.

BAROMETRIC PRESSURE CALC

Approx Height Difference from Stack = 122

RUN 1 6-Mar RUN 2 10-Mar 30.17-(122(0.1/100)) 30.04-(122(0.1/100)) = 30.05 = 29.92

APPENDIX B PARTICULATE MATTER

3.0 Analytical Data



PARTICULATE APCD Method 5

Project # PROJ- 025761

Client/Location:American Crematory
Unit A ExhaustDI H2O Blank (mg/ml)0.0000Sample Date:
Acetone Blank (mg/ml)Mar 6, 2023Test #A-M5-1MeCl2 Blank (mg/ml)0.0000Analysis Date:Mar 14, 2023A A A M5-1MeCl2 Blank (mg/ml)0.0000Analysis Date:Alalysis Date:

Item	Item Number	Final Weight (g)	Tare Weight (g)	Gain Weight (mg)	Blank Correction (mg)	Aliquot Correction (ml/ml)	Net Gain (mg/sample)
1a. Glass Fiber Filter (Back-End) a. Filter	K752	6.2318	0.3641	21.1			
1a. Glass Fiber Filter (Back-End) b. Aluminum Dish	AD-001	6.2316	5.8466	21.1			38.5
1b. Glass Fiber Filter (Back-End) a. Filter	K753	6.0139	0.3611	17.4			30.3
1b. Glass Fiber Filter (Back-End) b. Aluminum Dish	AD-002	0.0133	5.6354	17.1			
2. Probe and Nozzle						375	24.0
& Impinger Wash (Acetone)	9328	30.6556	30.6307	24.9	0.00	375	24.9
3. Impinger Contents a. Water Fraction	9329	28.4749	28.4374	37.5	0.00	684 684	37.5
b. Organic Fraction 125 ml MeCl ₂ (5x25mL)	9330	27.8353	27.8302	5.1	0.00	684 684	5.1
(SALSHIL)						500	
DI H ₂ O Blank	9331	29.5557	29.5557	0.0		500	
	2222	20.4614	20.4614	0.0		500	
Acetone Blank	9332	29.4614	29.4614	0.0		500	
Ma Ci. Dia ala	0222	20.6020	29,6028	0.0		250	
MeCi ₂ Blank	9333	29.6028	29.0028	0.0		250	

Total Particulate (mg) =	106.0
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Method of Sample Prep/Analysis Notes

The two filter samples collected on 3/6/23 for test 1-PM were collected in one HDPE poly bottle. Upon arrival to the lab the filters were separated into individual aluminum dish and the poly bottle was rinsed with ___50__ml of Acetone and poured into container 2. Followed by a ___50__ml of DI H2O and poured into container 3.

Impinger Contents Apperance: Opaque; black substance suspended uniformly throughout impinger contents



PARTICULATE APCD Method 5

Project # PROJ- 025761
Client/Location: American Crematory Sample Location: Unit B Exhaust B-M5-2 MeCl₂ Blank (mg/ml) 0.0000 Bample Location: O.0000 Analysis Date: Mar 10, 2023

**Test # B-M5-2 MeCl₂ Blank (mg/ml) 0.0000 Analysis Date: AE

Item	Item Number	Final Weight (g)	Tare Weight (g)	Gain Weight (mg)	Blank Correction (mg)	Aliquot Correction (ml/ml)	Net Gain (mg/sample)
1. Glass Fiber Filter (Back-End) a. Filter	К755	6.2898	0.3616	19.5			19.5
Glass Fiber Filter (Back-End) b. Aluminum Dish	AD-003	0.2696	5.9087	19.5			13.3
2. Probe and Nozzle				4 77		225	4.7
& Impinger Wash (Acetone)	9334	27.8155	27.8108	4.7	0.00	225	4.7
3. Impinger						520	24.2
Contents a. Water Fraction	9335	28.8684	28.8372	31.2	0.00	520	31.2
b. Organic Fraction						520	
125 ml MeCl ₂ (5x25mL)	9336	28.8743	28.8743	0.0	0.00	520	0.0

Total Particulate	(mg) =	55.4
	,	

Method of Sample Prep/Analysis Notes

Impinger Contents Apperance: Transparent; black particulate suspended uniformly throughout impinger content

Sample Chain of Custody Record



PO Number:	NA		_			11.00
Project Name:	American Crematory	Equipment Co.		Ana	lyses Required	
Location:	Unit A Exhaust Stack					
Project No.:	PROJ - 025761					
Project Manager:	James Navarrete			culat		
Cell / Email:	714-770-4280 / nav	/arretej@airkineti	csinc.com	Parti	1 1	
				SDAPCD 5 - Particulate		
Results to:	akisublab@airkinet			APC		0
Collection Date	Sample ID	Component	Matrix			Comments
3/6/2023	A-M5-1	Filter(s)	Filter	X		K752 (0.3641), K753 (0.361
		Impinger Rinse	Acetone	Х		
		Impinger Contents	DI H ₂ O	Х		
3/6/2023	B-M5-1	Filter	Filter	Х		K754 (0.3650)
		Impinger Rinse	Acetone	Х		A A MARCIN
		Impinger Contents	DI H₂O	Х		MOUHED
	M5-RB	Water Blank	DI H ₂ O	х		
		Acetone Blank	Acetone	х		
3/6/2023						
3/0/2023						
			-			
			Special Instructions	<u>.</u>		
Standard Turnaround:	10-Business Days	•0	A full raw data pac		e required	
Quick Turnaround*:		•	, tuntum data pad	nage viii b	5 10 qu 0 u.	
* - Lab must be contacted for a	availablility prior to sample	shipment	4			
Ship to:						
	AirKinetics, Inc./ Mont					
	1631 E St. Andrew Pla	ace				
	Santa Ana, CA 92705					
	(714) 282-8240		ļ	r		
Relinguished by: (Sign/& P	rint)	Date/Time	Locked Storage	Received	by: (Sign & Print)	Date/Time
(h//hA		3-8-23/,		ade	ize a rian Enwright	3/14/23
James Navarrete		14:1+	~	Adi	ian Enwright	1030
<i>V</i>						
						
		•				

Sample Chain of Custody Record

PO Number: NA



Project Name:	American Crematory I	Equipment Co.		1	Analyses Requi	red	
Location:	Unit A Exhaust Stack						
Project No.:	PROJ - 025761					1 1	
Project Manager:	James Navarrete			culat			
Cell / Email:	714-770-4280 / nav	arretej@airkinetic	sinc.com	Parti			
				2-1			
Results to:	akisublab@airkinet	icsinc.com		SDAPCD 5 - Particulate			
Collection Date	Sample ID	Component	Matrix	SDA			Comments
3/10/2023	B-M5-1	Filter(s)	Filter	Х			K755 (0.3616)
		Impinger Rinse	Acetone	Х			
		Impinger Contents	DI H ₂ O	Х			
			-				
						1 1	
			-			1 1	
						+ +	
						1 1	
				_	-	+	
				_		+	
						+	
						-	
						-	
					 		
Standard Turnaround:	10-Business Days		Special Instruction	s:	.h		
Quick Turnaround*:			A full raw data pac	kage wi	Il be required.		
* - Lab must be contacted for		shinment					
Ship to:	availability prior to sample	Shipment	1				
Ship to.	AirKinetics, Inc./ Mont	rose AOS					
	1631 E St. Andrew Pla		1				
	Santa Ana, CA 92705						
	(714) 282-8240						
Delineration of the Co.		Date (Time	Locked Storage	Dess!	ad but /Ciam 0	Orint\	Date/Time
Relinquished by: (Sign & P		Date/Time	Locked Storage		ed by: (Sign &		3/13/23
Josep Wory	for JN	3(13/29)	$I \cup J$	25%			1000
James Navarre	•	0800	ļ	AU	trian E	nurth	1000

Balance Make:

Mettler/Toledo

Serial No.

	Container or Filter Type – Aluminum Dish Container or Filter No.										
Ву	AD-001 AD-002 AD-003 AD-064 AD-005										
				tial Weight		1 1/1/07					
	Date/Time	03/13/23									
	1	5-9466	5.6353	5.9086	5.5622	5.7992					
	Date/Time	03/13/23									
	2	5.8466	5.6355	5.9087	5,5624	5.7993					
	Date/Time										
	3										
	Date/Time										
	4										
	Date/Time										
	5										
	Date/Time										
	6										
	Average	5.8466	5.6354	5.9087	5, 5623	5 7993					
Ву			· ·								
			Fi	nal Weight							
	Date/Time										
	1										
	Date/Time										
	2										
	Date/Time										
	3										
	Date/Time										
	4										
	Date/Time										
	5										
	Date/Time										
	6										
	Average										
	Final Wt (g)										
	Initial Wt (g)										
	Wt (mg)										
	ml Evap.							ļ			
	otal Volume (ml)										
	let Final Wt (mg)										
	Project No.										
S	ample No./Desc.										



85mm Glass Mat

Filters desiccated 24 hours prior to 1st weighing: YKS

Lot No.:	17118737			
	1st Weighing	2nd Weighing	3rd Weighing	
Lab. Temperature:	72°F	7108		
Bar. Pressure:	29-75"49	29.72 "Hg		
Relative Humidity:	267.	30%		
Date:	05/18/22	05/19/22		
Time:	1547	0552		
Initials:	GM	GM		
Filter Number	1st Weighing (g)	2nd Weighing (g)	3rd Weighing	Job Number
K737	0.3609	0.3609/		16042
K738	0.3614	6.3613/		16147
K739	0.3603 /	0.3603/		
K740	0.3636	0.3635/		2
K741	6.3426	0.3625/		
K742	0.3604	0.3695		
K743	0.3607 /	0.3607/		<u> </u>
K744	0.3623	0.3622/		
K745	0.3634 /	0.36341		
K746	6.3606 /	0.3606/		
K747	0.3602 /	0.3602/		 %
K748	0.3614 /	0.36141		
K749	0.3604	0.36041		
K750	0.3595	0.3595/		
K751	0.3599	0.3598/		
K752	0.3641	0.36411		02576/
K753	0.3612	0.3611/		025761
K754	0.3651	0.3650/	E	
K755	0.36/6 /	0.3616/		025761
K756 🕜	0.36160.3621	0.36201		-
K757		0.3630/		
12750	0.3634 0.3677			
K759 K760 OJUS	@ 0.3657 σ.3628	0.3(27/		
	Q 0.3628 0.3599	0.3598/		
K761	0 0,3599 0.3035			
K762	C 0:3635 0.3624	0,3423/		
K763	0.3620/	0.3620/		

Balance Make Mettler/Toledo

Serial No. C125021773

Container or Filter Type - AKI Filters

ontainer or Filter Type – AKI Filters Container or Filter No.									
Ву]
			Init	ial Weight					
	Date/Time								
	1								
	Date/Time								
	2]
	Date/Time								1
	3								ļ
	Date/Time								
	4								1
	Date/Time								
	5								1
	Date/Time								
	6								1
	Average	0.3612	0.362	0-3631	0.3626	0.3638	0.3619	0.364/	1
Ву			8					A D-001	1
				al Weight		1 1			1
	Date/Time	K919	K920	K721	K722	K723	F825	4752	1
	1	02/15/23	10	03/14/73 -		(11.5	1>	03/15/23	1
	Date/Time	0.3612	0.3621	0.3631	0.3626	0.3648	0.3619	6.2317	1
	2			03713763			-	03/15/23	Į
	Date/Time	0.3612	0.3621	0-3631	0.3626	0.3650	0.3619	6.2318	-
	3								1
	Date/Time								1
	4								-
	Date/Time								-
	5								1
	Date/Time								1
	6	() 2/10	0 2121	0 /51	2.7/5/	2 2 4 4	2 2/10	6.2318	1
	Average	0.3612	0.3621	0.3631	0.3626	0.3649	0.3619 Puenlettilly		en
	Final Wt (g)			Duente Hills	<u> </u>	Calabasas		American L	
	Initial Wt (g)			023649	7	073648	023649 M.S.	CDAN	1
	Wt (mg)			M5.(5	M5-1		SDAPU D3 (17/23	
	ml Evap. otal Volume (ml)			3/17/23	(03/17/23 AE	03/17/23 +D	03/17/23 /FE	1
				AE	1	770	TV	1-1-1-1	1
1/	let Final Wt (mg) Project No.					-			1
	ample No./Desc.								1



Balance Make Mettler/Toledo

Serial No. 1129461937

Container or Filter Type - AKI Filter

		Container or Filter No.								
Ву										
			Та	re Weight						
	Date/Time									
	1			,						
	Date/Time									
	2									
	Date/Time									
	3									
	Date/Time									
	4									
	Date/Time									
	5									
	Date/Time									
	6									
	Average	0.3611	0.3616	0.3607	0.3607	0.3609				
Ву		AD-002	AD-00-3							
				al Weight						
	Date/Time	 \$753	K755	¢724	k725	K726				
	1	03/15/13 - 6.0139 03/15/33 -	>	84/03/23 0220		7				
	Date/Time	6.0139	6.2900	0.3607	0.3607	0.3609				
	2	03/18/33 -	7	34/03/23		1				
	Date/Time	6.0138	6.2896	0.3607	0-3607	0.3609				
	3		S							
	Date/Time									
	4									
	Date/Time									
	5									
	Date/Time									
	6	7	0.000		, , , , ,					
	Average	6.0139	6.2848	0-3607	0.3607	0-3609				
	Final Wt (g)			JWPLP						
	Initial Wt (g)			0725650						
		SDAPCOS		M5.1						
		63/17/23		04/05/23						
	otal Volume (ml)	AC		AE						
N	let Final Wt (mg)									
	Project No.									
S	ample No./Desc.									



Balance Make Mettler/Toledo

Serial No. C125021773

Container or Filter Type - 50 ml heakers

		Container or Filter No.										
Ву		9323	9324	9325	9326	9327	9328	9329				
		,	Init	ial Weight								
	Date/Time	090823 -										
	1	29.0954	29.6534	29,5446	29.3414	24.6052	30.6307	28.43				
	Date/Time	Orai /04/23										
	2	29.0953	29.6532	29,5945	29.3414	29,6051	30,6307	29.437				
	Date/Time											
	3											
	Date/Time											
	4											
	Date/Time											
	5											
	Date/Time											
	6											
	Average	29.0954	29,6533	29,5946	24.3414	29.6052	30.6307	28,437				
Ву												
				al Weight		- 12-03						
	Date/Time	63/5/23 844	0415	03/15/23		03/17/23						
	1	29 0954	29-7046	29.6264 03/15/23_ 1541	29.3853	29.6456	30.6556	28.47				
	Date/Time	63/15/23	03/17/23	154	5	65/17/23						
	2	29.0954	29.7650	29,6258	24,3854	29.6460	30.6556	28.47				
	Date/Time			03/17/23								
	3			29_6262								
	Date/Time											
	4											
	Date/Time											
	5											
	Date/Time											
	6							28.47				
	Average	29.0954	24.7048	29.6263	29.3854	29.6458	30.6556	28.474				
	Final Wt (g)	Etelon	Puertetill			ialabasa	Averación					
	Initial Wt (g)	022286	023649			023648	4025761					
	Wt (mg)		M5-1			17.5.1	SDAPLOS					
	ml Evap.	03/17/23	03/17/2			03/17/23	03/17/23					
	Total Volume (ml)	AE	AE			AE	AE					
1	Vet Final Wt (mg)											
	Project No.											
S	Sample No./Desc.											



Balance Make Mettler/Toledo

Serial No. C125021773

	iner or Filter Type – 50 mL beakers Container or Filter No.										
Ву		9330	9331	9332	9333	9334	9335	9336			
	117		Init	ial Weight							
	Date/Time	0904						-			
	1	27.8302	29.5556	29,4614	29.6028	27.8108	28.8371	28.874			
	Date/Time	01/64/23									
	2	27.8302	29.5557	29,4614	29,6028	27, 8108	29.8372	28.87			
	Date/Time)			
	3										
	Date/Time										
	4										
	Date/Time										
	5										
	Date/Time										
	6										
	Average	27,8302	29.5557	29.4614	24.6028	17.8108	28.8372	28.874			
Ву											
			Fir	nal Weight							
	Date/Time	08/17/23									
	1	27.8352	29.5557	29.4614	29.6028	27.8154	28,8682	28.874			
	Date/Time	1510						0001			
	2	27.8353	29.5556	29.4613	29.6026	27.8155	28.8685	28.8 f			
	Date/Time				79.6028						
	3				3/17/13						
	Date/Time										
	4										
	Date/Time										
	5										
	Date/Time										
	6					2.7	2 (1/0)	4 2 2 4 11			
	Average	27.8353	24.5557	29.4614	29.6028	27,8155	28.8684	28.874			
	Final Wt (g)	American									
	Initial Wt (g)										
	Wt (mg)	SDAPLD5									
	ml Evap.										
	Γotal Volume (ml)										
1	Net Final Wt (mg)										
	Project No.										
S	Sample No./Desc.				1						

APPENDIX B PARTICULATE MATTER

4.0 Equipment Calibrations

Isokinetic Meterbox Calibration FULL TEST

Next Calibation Date: 07/04/23

Meterbox ID: MB7 Calibrated by: RC Date: 01/03/23
 DGM Temp Check
 In
 Out

 DGM Temp. °r
 60
 60

 Amb. Temp. °r
 59



Range		Low			Low Medium			Medium			High		
Run No.	1A	1B	1C	2A	2B	2C	3A	3B	3C	4A	4B	4C	
Stand, Crit. Orifice (SCRIT)	İ												
SCRIT ID#	32	32	32	48	48	48	63	63	63	73	73	73	
SCRIT K' Factor	0.1473	0.1473	0.1473	0.3483	0.3483	0.3483	0.5937	0.5937	0.5937	0.8140	0.8140	0.8140	
Min. SCRIT Vac., Vcr in. Hg	21	21	21	19	19	19	17	17	17	15	15	15	
Amb Temp, tamb °F	59	59	59	59	60	60	60	61	61	61	61	61	
Bar. Pressure, Pb in. Hg	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	
Meterbox (MB)													
Leak-check OK? (Y or N)	Y	Υ	Υ	Y	Υ	Y	Υ	Y	Υ	Y	Y	Υ	
MB Orifice Delta H in. H2O	0.12	0.12	0.12	0.67	0.67	0.67	1.95	1.95	1.95	3.70	3.70	3.70	
Initial MB Vol. Reading, Vdi acf	299.790	305.100	310.380	315.80	321.31	326.82	332.53	337.99	343.43	349.03	354.41	359.78	
Final MB Vol. Reading, Vdf acf	305.10	310.380	315.680	321.310	326.820	332.320	337.990	343.430	348.880	354.410	359.780	365.160	
Difference > 5.0 cf?	5.31	5.28	5.30	5.51	5.51	5.50	5.46	5.44	5.45	5.38	5.37	5.38	
Initial MB Temp, tdi oF	60	60	60	61	62	62	62	63	63	64	64	64	
Final MB Temp, tdf oF	60	60	61	61	62	62	62	63	63	64	64	64	
Pump Vac (> Vcr in. HG?)	25	25	25	20	20	20	20	20	20	17	17	17	
Time, Minutes (M)	27	27	27	12	12	12	7	7	7	5	5	5	
Time, Seconds (S)	0	0	0	0	0	0	0	0	0	0	0	0	
Calculations													
M5 DGM Factor, Y _{i,}	0.968	0.974	0.971	0.981	0.982	0.984	0.982	0.987	0.985	0.975	0.977	0.975	
Yi: 0.95 < Yi < 1.05?			ok			ok			ok			ok	
Diff = Y _{i(mex)} -Y _{i(min)} ; Diff<+0.010?	0.006		ok	0.003		ok	0.005		ok	0.002		ok	
Average, Y _{ac(avg)}		0.971			0.982			0.985			0.976		
0.98 Yi(avg)/Yac(avg) < 1.02?	1.009		ok	0.998		ok	0.995		ok	1.004		ok	
Diff=Y _{i(avg)} -Y _{ac(avg)} , Diff <+0.02?	0.01		ok	0.00		ok	-0.01		ok	0.00		ok	
ΔH@i	1.839	1.839	1.837	1.836	1.836	1.836	1.844	1.845	1.845	1.866	1.866	1.866	
Average, ΔH _{@ac(evg)}		1.839			1.836			1.844			1.866		
Diff=∆H _{@(avg)} -∆H _{@ac(avg);} Diff<+0.20?	0.01		ok	0.01		ok	0.00		ok	-0.02		ok	
Flow Rate, scfm*	0.19	0.19	0.19	0.45	0.45	0.45	0.77	0.77	0.77	1.05	1.05	1.05	
Average Flow Rate, scfm*	0.19			0.45			0.77			1.05			
Requirements OK?	0.19+/-10%		ok	0.44+/-109	6	ok	0.75+/-10%		ok	1.03+/-109	%	ok	

"Gamma Corrected at Standard Conditions. Standard Temp = 68"F, Standard Pressure = 29.92 in Hg.

$$Y_{i} = \frac{K'P_{b}\bigg(\frac{t_{di} + t_{df}}{2} + 460\bigg)\bigg(M + \frac{S}{60}\bigg)}{17.65\bigg(V_{df} - V_{di}\bigg)\bigg(P_{b} + \frac{\Delta H}{13.6}\bigg)\sqrt{t_{amb} + 460}\bigg)}$$

$$\Delta H_{Qi} = \frac{9.926\Delta H \left(P_b + \frac{\Delta H}{13.6}\right)}{\left(K'P_b\right)^2} \frac{\left(t_{amb} + 460\right)}{\left(\frac{t_{di} + t_{df}}{2} + 460\right)}$$

Y _{i(avg)}	0.98
SCAQMD AH _{@(evg)}	1.87
EPA ΔΗ _{@(«vg)}	1.85
In Range	

es:			

Checked By: JL

QA Administrator (Signature/Date)

AirKinetics, Inc. * 1308 S. Allec Street * Anaheim, CA 92805 * Tel: (714)254-1945 * Fax: (714)956-2350

Isokinetic Meterbox Calibration FULL TEST

Meterbox ID: MB10 Calibrated by: RC Date: 01/03/23

Next Calibation Date: 07/04/23

 DGM Temp Check
 In
 Out

 DGM Temp. °F
 63
 63

 Amb. Temp. °F
 62



Range	T	Low		Ιī	ow Medlur	n	Medium			High		
Run No.	1A	1B	10	2A	2B	2C	3A	3B	3C	4A	4 B	4C
Stand. Crit. Orlfice (SCRIT)	1											
SCRIT ID#	32	32	32	48	48	48	63	63	63	73	73	73
SCRIT K' Factor	0.1473	0.1473	0.1473	0.3483	0.3483	0.3483	0.5937	0.5937	0.5937	0.8140	0.8140	0.8140
Min. SCRIT Vac., Vcr in. Hg	18	18	18	20	20	20	17	17	17	16	16	16
Amb Temp, tamb °F	62	62	62	62	62	62	63	63	63	63	63	63
Bar. Pressure, Pb in. Hg	29.75	29.75	29.75	29.75	29.75	29.75	29.75	29.75	29.75	29.75	29.75	29.75
Meterbox (MB)												
Leak-check OK? (Y or N)	Y	Υ	Υ	Υ	Y	Υ	Y	Y	Y	Y	Y	Υ
MB Orifice Delta H in. H2O	0.11	0.11	0.11	0.64	0.64	0.64	1.90	1.90	1.90	3.85	3.85	3.85
Initial MB Vol. Reading, Vdi acf	960.990	966.390	971.780	977.290	982.430	987.580	992.840	998.390	1003.950	1009.620	1015.120	1020.630
Final MB Vol. Reading, Vdf acf	966.39	971.780	977.180	982.430	987.580	992.720	998.390	1003.950	1009.490	1015.120	1020.630	1026.140
Difference > 5.0 cf?	5.40	5.39	5.40	5.14	5.15	5.14	5.55	5.56	5.54	5.50	5.51	5.51
Initial MB Temp, tdi oF	63	63	63	63	63	63	64	64	64	64	64	64
Final MB Temp, tdf oF	63	63	63	63	63	63	64	64	64	64	64	64
Pump Vac (> Vcr In. HG?)	23	23	23	22	22	22	21	21	21	16	16	16
Time, Minutes (M)	27	27	27	11	11	11	7	7	7	5	5	5
Time, Seconds (S)	0	0	0	0	0	0	0	0	0	0	0	0
Calculations												
M5 DGM Factor, Y _{i,}	0.955	0.957	0.955	0.965	0.963	0.965	0.968	0.966	0.969	0.952	0.950	0.950
Yi: 0.95 < Yi < 1.05?			ok			ok			ok			ok
Diff = $Y_{i(max)} - Y_{i(min)}$; Diff <= 0.010?	0.002		ok	0.002		ok	0.003		ok	0.002		ok
Average, Y _{ac(avg)}		0.956			0.964			0.968			0.951	
0.98 Yi(avg)/Yac(avg) < 1.02?	1.004		ok	0.996		ok	0.992		ok	1.009		ok
Diff=Y _{i(avg)} -Y _{ac(avg);} Diff <u><+</u> 0.02?	0.00		ok	0.00		ok	-0.01		ok	0.01		ok
ΔH@i	1.689	1.689	1.689	1.760	1.760	1.760	1.803	1.803	1.803	1.953	1.953	1.953
Average, ΔH _{@sc(avg)}		1.689			1.760			1.803			1.953	
Diff= $\Delta H_{\otimes i(avg)}$ - $\Delta H_{\otimes ac(avg)}$, Diff<+0.20?	0.11		ok	0.04		ok	0.00		ok	-0.15		ok
Flow Rate _{i,} scfm*	0.19	0.19	0.19	0.45	0.45	0.45	0.77	0.77	0.77	1.05	1.05	1.05
Average Flow Rate, scfm*	0.19			0.45			0.77			1.05		
Requirements OK?	0.19+/-10%		ok	0.44+/-10%		ok	0.75+/-10%		ok	1.03+/-10%		ok

"Gamma Corrected at Standard Conditions. Standard Temp = 88°F, Standard Pressure = 29.92 in Hg

$$Y_{l} = \frac{K'P_{b} \left(\frac{t_{di} + t_{df}}{2} + 460\right) \left(M + \frac{S}{60}\right)}{17.65 \left(V_{df} - V_{di}\right) \left(P_{b} + \frac{\Delta H}{13.6}\right) \sqrt{t_{amb} + 460}}$$

$$\Delta H_{\text{e}\,i} = \frac{9.926\,\Delta H \bigg(P_b + \frac{\Delta H}{13.6}\bigg)}{\bigg(K^t P_b\bigg)^2} \frac{\bigg(t_{amb} + 460\bigg)}{\bigg(\frac{t_{di} + t_{df}}{2} + 460\bigg)}$$

Y _{I(avg)}	0.96
SCAQMD ∆H _{®(***)}	1.83
EPA ΔH _{@(evg)}	1.80
In Rang	qe

Checked By: JL

QA Administrator (Signature/Date)

AirKinetics, Inc. * 1308 S. Allec Street * Anaheim, CA 92805 * Tel: (714)254-1945 * Fax: (714)956-2350

Notes:

Pitot Calibration*

Probe - Type S
Pitot # 4-3



		V	1
	Level?	Y	-
	Clear of Obstructions?	Υ	
	Free of Damage?	Υ	
α_1	$-10^{\circ} < \alpha_1 < +10^{\circ}$	-4	pass
α_2	$-10^{\circ} < \alpha_2 < +10^{\circ}$	-1	pass
β_1	-5° < β ₁ < +5°	3	pass
β_2	-5° < β ₂ < +5°	4	pass
Г	Γ (gamma) degrees	1	
θ	θ (theta) degrees	0	
Α	A in inches	0.928	
Pa	1.05 D _t < P _a < 1.5 D _t	0.464	pass
P _b	1.05 D _t < P _b < 1.5 D _t	0.464	pass
Dt	.188" (3/16") < D _t < .375" (3/8")	0.374	pass
Z	< 1/8" (0.125")	0.016	pass
W	< 1/32" (0.031")	0.000	pass
	P _{a-} P _b < +/- 0.063"	0.000	pass

Calibrated By: NH Date: 7/3/2021

Checked By: NH Date: 7/3/2021

^{*} See 40 CFR 60, Vol. No. 160 EPA method 2. Verify minimum 2-inch setback of the thermocouple and the minimum 3/4 inch separation between the pitot tube and nozzle as shown in the CFR.

THERMOCOUPLE CALIBRATION REPORT

FULL CALIBRATION per AQMD Chapter III Calibrations, par. 5



Description: TC for PROBE 4-3		_	
Thermocouple No: TC 4-3		-	
Date:	7/3/2021	Calibrated By:	KL
Barometric Pressure, in. Hg:	29.85	Ambient Temperature, °F:	77

Barometric Pressure, in. Hg: 29.85

Calibration System Used	Reference Thermometer	Reference Thermometer Temperature (T _r , °F)	Test Digital Thermometer I.D. No.	Test Thermocouple Temperature (T _t , °F)	Temperature Difference, % (Allowable: <_ 1.5%)
32 F	1	32.1	190295	32.5	-0.08
32 F	1	32.1	190295	32.5	-0.08
32 F	1	32.1	190295	32.5	-0.08
212 F	0514-1120	212	190295	213	-0.15
212 F	0514-1120	212	190295	213	-0.15
212 F	0514-1120	212	190295	213	-0.15
650 F	0514-1120	650	190295	652	-0.18
650 F	0514-1120	650	190295	652	-0.18
650 F	0514-1120	650	190295	652	-0.18

	% Temperature Difference =	$T_r - T_t$	* 100
		T _r + 460	
Notes:			

QC Administrator

Checked By: _

Date: 7/3/2021

Pitot Calibration*

Description: Probe - Type S
Pitot # 4-3



	Level?	Y	
	Clear of Obstructions?	Υ	
	Free of Damage?	Υ	
α_1	$-10^{\circ} < \alpha_1 < +10^{\circ}$	1	pass
α_2	$-10^{\circ} < \alpha_2 < +10^{\circ}$	4	pass
β_1	$-5^{\circ} < \beta_1 < +5^{\circ}$	0	pass
β_2	$-5^{\circ} < \beta_2 < +5^{\circ}$	0	pass
Г	Γ (gamma) degrees	-3	
θ	θ (theta) degrees	0	
Α	A in inches	0.923	
Pa	1.05 D _t < P _a < 1.5 D _t	0.4615	pass
P _b	1.05 D _t < P _b < 1.5 D _t	0.4615	pass
D _t	.188" (3/16") < D _t < .375" (3/8")	0.374	pass
Z	< 1/8" (0.125")	-0.048	pass
W	< 1/32" (0.031")	0.000	pass
	P _a - P _b < +/- 0.063"	0.000	pass

 Calibrated By :
 KL
 Date:
 4/5/2023

 Checked By :
 KL
 Date:
 4/5/2023

^{*} See 40 CFR 60, Vol. No. 160 EPA method 2. Verify minimum 2-inch setback of the thermocouple and the minimum 3/4 inch separation between the pitot tube and nozzle as shown in the CFR.

THERMOCOUPLE CALIBRATION REPORT

FULL CALIBRATION per AQMD Chapter III Calibrations, par. 5



Description:	TC for PROBE 4-3
Thermocouple No:	TC 4-3

Date: 4/5/2023

Barometric Pressure, in. Hg: 29.95

Calibrated By: KL
Ambient Temperature, °F: 65

Calibration System Used	Reference Thermometer	Reference Thermometer Temperature (T _r , °F)	Test Digital Thermometer I.D. No.	Test Thermocouple Temperature (T _t , °F)	Temperature Difference, % (Allowable: <_ 1.5%)
32 F	1	32.2	190295	32.9	-0.14
32 F	1	32.2	190295	32.9	-0.14
32 F	1	32.2	190295	32.9	-0.14
212 F	0514-1120	212	190295	211	0.15
212 F	0514-1120	212	190295	211	0.15
212 F	0514-1120	212	190295	211	0.15
650 F	0514-1120	650	190295	648	0.18
650 F	0514-1120	650	190295	648	0.18
650 F	0514-1120	650	190295	648	0.18

	% Temperature Difference =	^r 100
		T _r + 460
Notes:		

Checked By: KL Date: 4/5/2023 QC Administrator

Pitot Calibration*

Probe - Type S
Pitot # PT 4-10



	Level?	Υ	1
	Clear of Obstructions?	Υ	1
	Free of Damage?	Υ	
α_1	$-10^{\circ} < \alpha_1 < +10^{\circ}$	1	pass
α_2	$-10^{\circ} < \alpha_2 < +10^{\circ}$	2	pass
β_1	-5° < β ₁ < +5°	-2	pass
β_2	-5° < β ₂ < +5°	1	pass
Г	Γ (gamma) degrees	0	
θ	θ (theta) degrees	0]
Α	A in inches	0.94	
Pa	1.05 D _t < P _a < 1.5 D _t	0.47	pass
P _b	1.05 D _t < P _b < 1.5 D _t	0.47	pass
D _t	.188" (3/16") < D _t < .375" (3/8")	0.375	pass
Z	< 1/8" (0.125")	0.000	pass
W	< 1/32" (0.031")	0.000	pass
	P _{a -} P _b < +/- 0.063"	0.000	pass

Calibrated By :	NH	Date:	1/5/2023	
Checked By:	JL	Date:	1/5/2023	

^{*} See 40 CFR 60, Vol. No. 160 EPA method 2. Verify minimum 2-inch setback of the thermocouple and the minimum 3/4 inch separation between the pitot tube and nozzle as shown in the CFR.

THERMOCOUPLE CALIBRATION REPORT

FULL CALIBRATION per AQMD Chapter III Calibrations, par. 5



				AirKin	etics, Inc.
	TC for Probe 4-10				
Thermocouple No:	TC 4-10				
	Date:	1/5/2023	2	Calibrated By:	NH
Baromet	ric Pressure, in. Hg:	29.80	Ambien	t Temperature, °F:	59
Calibration System Used	Reference Thermometer	Reference Thermometer Temperature (T _r , °F)	Test Digital Thermometer I.D. No.	Test Thermocouple Temperature (T _t , °F)	Temperature Difference, % (Allowable: <
32 F	2	32.3	190295	32.3	0.00
32 F	2	32.0	190295	32.2	-0.04
32 F	2	32.3	190295	32.2	0.02
212 F	0514-1120	212	190295	212	0.00
212 F	0514-1120	212	190295	212	0.00
212 F	0514-1120	212	190295	213	-0.15
650 F	0514-1120	649	190295	651	-0.18
650 F	0514-1120	651	190295	651	0.00
650 F	0514-1120	650	190295	651	-0.09
Notes:		% Temp	erature Difference =	T _r - T _t T _r + 460	* 100

AirKinetics, Inc. * 1308 S. Allec Street * Anaheim, CA 92805 * Tel: (714)254-1945 * Fax: (714)956-2350

Date: 1/5/2023

Checked By:

QC Administrator

Pitot Calibration*

Description: Probe - Type S
Pitot # 5-9



			<u> </u>
	Level?	Υ	
	Clear of Obstructions?	Υ	
	Free of Damage?	Υ	
α_1	$-10^{\circ} < \alpha_1 < +10^{\circ}$	2	pass
α_2	-10°< α ₂ < +10°	2	pass
β_1	$-5^{\circ} < \beta_1 < +5^{\circ}$	1	pass
β_2	$-5^{\circ} < \beta_2 < +5^{\circ}$	1	pass
Γ	Γ (gamma) degrees	1	
θ	θ (theta) degrees	0]
Α	A in inches	0.99	
Pa	1.05 D _t < P _a < 1.5 D _t	0.495	pass
P _b	1.05 D _t < P _b < 1.5 D _t	0.495	pass
D _t	.188" (3/16") < D _t < .375" (3/8")	0.374	pass
Z	< 1/8" (0.125")	0.017	pass
W	< 1/32" (0.031")	0.000	pass
	P _{a -} P _b < +/- 0.063"	0.000	pass

Calibrated By: NH Date: 6/28/2022

Checked By: Morris Mendrin Date: 6/28/2022

^{*} See 40 CFR 60, Vol. No. 160 EPA method 2. Verify minimum 2-inch setback of the thermocouple and the minimum 3/4 inch separation between the pitot tube and nozzle as shown in the CFR.

THERMOCOUPLE CALIBRATION REPORT

FULL CALIBRATION per AQMD Chapter III Calibrations, par. 5

Description: TC for Probe 5-9



Thermocouple No:	5-9				
Barome	Date: tric Pressure, in. Hg:		Ambier	Calibrated By: nt Temperature, °F:	NH 85
Calibration System Used	Reference Thermometer	Reference Thermometer Temperature (T _r , °F)	Test Digital Thermometer I.D. No.	Test Thermocouple Temperature (T _t , °F)	Temperature Difference, % (Allowable: <_ 1.5%)
32 F	4	32.0	190293	32.5	-0.10
32 F	4	32.0	190293	32.5	-0.10
32 F	4	32.0	190293	32.5	-0.10
212 F	0514-1120	212	190293	211	0.15
212 F	0514-1120	212	190293	211	0.15
212 F	0514-1120	212	190293	211	0.15
650 F	0514-1120	650	190293	647	0.27

	% Temperature Difference = $\frac{T_r - T_t}{T_r + 460}$ * 100
Notes:	

650

650

Checked By: Morris Mendrin QC Administrator

0514-1120

0514-1120

Date: 6/28/2022

190293

190293

AirKinetics, Inc. * 1308 S. Allec Street * Anaheim, CA 92805 * Tel: (714)254-1945 * Fax: (714)956-2350

0.18

0.18

* 100

648

648

 $T_r - T_t$

650 F

650 F

Pitot Calibration*

Description: HH Pitot Tube - Type S
Pitot # 6-4



	Level?	Υ	
	Clear of Obstructions?	Υ	
	Free of Damage?	Υ	
α_1	-10°< α ₁ <+10°	2	pass
α_2	-10°< α ₂ < +10°	1	pass
β_1	-5° < β ₁ < +5°	1	pass
β_2	$-5^{\circ} < \beta_2 < +5^{\circ}$	1	pass
Г	Γ (gamma) degrees	1	
θ	θ (theta) degrees	0	
Α	A in inches	0.935	
P _a	1.05 D _t < P _a < 1.5 D _t	0.4675	pass
P _b	1.05 D _t < P _b < 1.5 D _t	0.4675	pass
D _t	.188" (3/16") < D _t < .375" (3/8")	0.374	pass
Z	< 1/8" (0.125")	0.016	pass
W	< 1/32" (0.031")	0.000	pass
	P _{a -} P _b < +/- 0.063"	0.000	pass

 Calibrated By :
 KL
 Date:
 1/5/2023

 Checked By :
 JL
 Date:
 1/5/2023

^{*} See 40 CFR 60, Vol. No. 160 EPA method 2. Verify minimum 2-inch setback of the thermocouple and the minimum 3/4 inch separation between the pitot tube and nozzle as shown in the CFR.

THERMOCOUPLE CALIBRATION REPORT

FULL CALIBRATION per AQMD Chapter III Calibrations, par. 5



Description:	TC for PT 6-4
Thermocouple No:	TC 6-4

Date: 1/5/2023 Calibrated By: KL

Barometric Pressure, in. Hg: 29.88 Ambient Temperature, °F: 57

Calibration System Used	Reference Thermometer	Reference Thermometer Temperature (T _r , °F)	Test Digital Thermometer I.D. No.	Test Thermocouple Temperature (T _t , °F)	Temperature Difference, % (Allowable: <u><</u> 1.5%)
32 F	1	32.0	190295	32.9	-0.18
32 F	1	32.0	190295	32.9	-0.18
32 F	1	32.0	190295	32.8	-0.16
212 F	0514-1120	212	190295	213	-0.15
212 F	0514-1120	212	190295	213	-0.15
212 F	0514-1120	212	190295	212	0.00
650 F	0514-1120	650	190295	648	0.18
650 F	0514-1120	650	190295	649	0.09
650 F	0514-1120	650	190295	649	0.09

	% Temperature Difference = $\frac{T_r - T_t}{T_r + 460}$ * 100
Notes:	

Checked By: JL Date: 1/5/2023 QC Administrator

DIGITAL TOPLOADER CALIBRATION

A & D Digital Toploader

Balance No.: EJ-2000 (DT#11) (CT#3)

Date: October 20, 2022

Laboratory Temperature: 71° F

Barometric Pressure: 29.78" Hg

Relative Humidity: 26%

Initials: GM

Time: 5:33

NIST Traceable Weights (g)	Balance Reading (g)	% Deviation
0.5	0.5	0.0000%
2	2.0	0.0000%
10	10.0	0.0000%
50	50.0	0.0000%
100	100.0	0.0000%
300	300.0	0.0000%
500	500.0	0.0000%
1000	1000.0	0.0000%
1300	1300.0	0.0000%
1500	1500.0	0.0000%
2000	2000.0	0.0000%

% Deviation =

NIST Traceable Weights - Balance Reading
NIST Traceable Weights

x 100

GLASS NOZZLÉ CALIBRATION M (19/32 inch = 0.593 inches diameter)

AirKinetics, Inc. * 1308 S. Allec Street * Anaheim, CA 92805 * Tel: (714)254-1945 * Fax: (714)956-2350

NOZZLE SIZE: 19/32" = 0.593" LETTER ID: "M"

MAXIMUM DEVIATION ALLOWED FROM MEAN = 0.004"

12							_		_	_				_
INA	DATE													
	Date		7/13/2021	7/13/2021	7/13/2021	7/13/2021	7/13/2021							
QA/QC	Ck'd. by		KL	KL	KL	KL	KL							
MAX	DEV	0.000	0.001	0.002	0.001	0.002	0.00	0.001	0.002	#DIV/0!	#DIV/0i	#DIV/0!	#DIV/0!	#DIV/0!
	Average	0.586	0.589	0.589	0.587	0.593	0.591	0.596	0.595	#DIV/0i	#DIV/0!	#DIN/0i	#DIA/0i	#DIA/0i
	Dia. 5	0.586	0.590	0.589	0.587	0.591	0.592	0.595	0.596					
	Dia. 4	0.586	0.589	0.588	0.586	0.592	0.591	0.597	0.595					
	Dia. 3	0.586	0.588	0.591	0.587	0.593	0.589	0.597	0.595					
	Dia. 2	0.586	0.590	0.590	0.588	0.593	0.591	0.596	0.594					
	Dia. 1	0.586	0.590	0.589	0.588	0.594	0.590	0.596	0.597					
	Calib. By	J.G	ΚL	몬	KL KL	Ā	ΚL	KL KL	KL KL					
	Calib. Date	2/16/06	2/18/21	2/18/21	3/13/21	3/13/21		10/14/21	11/5/21					
Nozzle	₽	900W	M007	M008	600M	M010	M011	M012	M013					

Note: 1. All diameters measured in inches 2. Maximum 0.004 from lowest to highest diameter

Semi-annual

Display ID: ADM 5
Description: Air Data Multimeter (ADM 850L)
Serial Number: M19430
Calibration Date: 1/5/2023

Reference Device ID: Microtector Reference Serial Number: \$270 Calibrated By: P. Whitman

Calibration Range	de	Run 1	10		Individual Run Results	
	000		Doforcano Value	A 500 1140 100	O/ Difference	1100/0000
ocale: U -	00.0 - 0	measured value	(inches W.C.)	Apsolute value	% Dimerence	Fass/ Fall
OZ 11 52 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12		(:c:ii collolli)	(include arise)			
Target 20%	0.010	0.010	0.010	0.000	0.00%	Pass
Target 40%	0.020	0.020	0.020	0.0000	0.00%	Pass
Target 60%	0.030	0.030	0:030	0.0004	1.33%	Pass
Target 80%	0.040	0.039	0.040	0.0006	1.50%	Pass
Target 100%	0.050	0:050	0.050	0.0004	0.80%	Pass
Calibration Range	ıge	Run 2	n 2		Individual Run Results	
Scale: 0 -	0 - 0.050	Measured Value	Reference Value	Absolute Value	% Difference	Pass/ Fail
inches H ₂ O		(inches W.C.)	(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	6000.0	3.00%	Pass
Target 80%	0.040	0.039	0.040	0.0007	1.75%	Pass
Target 100%	0.050	0.049	0.050	9000:0	1.20%	Pass
Calibration Range	ige	Run 3	n 3		Individual Run Results	
Scale: 0 -	0 - 0.050	Measured Value	Reference Value	Absolute Value	% Difference	Pass/ Fail
inches H ₂ O		(inches W.C.)	(inches W.C.)			
Target 20%	0.010	0.010	0.010	0.000	%00.0	Pass
Target 40%	0.020	0.020	0.020	0.0000	%00.0	Pass
Target 60%	0:030	0.029	0.030	0.0007	2.33%	Pass
Target 80%	0.040	0.039	0.040	6000.0	2.25%	Pass
Target 100%	0.050	0.049	0.050	0.0007	1.40%	Pass

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

Average results for three runs

Pass/Fail Pass

% Difference 1.04%



January 2023 TC-Readout-Pitot-Nozzle-ADM-Mag_officialCalibrations

Semi-annual

Description: Air Data Multimeter (ADM 850L) Serial Number: M19430 Display ID: ADM 5

Calibration Date: 1/5/2023

Reference Device ID: Microtector Calibrated By: P. Whitman Reference Serial Number: S270

Calibration Range	nge	Run	n 1		Individual Run Results	
Scale: 0 - 0.100 inches H ₂ O	- 0.100	Measured Value (inches W.C.)	Reference Value (inches W.C.)	Absolute Value	% Difference	Pass/ Fail
Target 20%	0.020	0.020	0.020	0.0004	2.00%	Pass
Target 40%	0.040	0.039	0.040	0.0014	3.50%	Pass
Target 60%	090.0	0.059	090.0	0.0014	2.33%	Pass
Target 80%	0.080	0.080	0.080	0.0005	0.63%	Pass
Target 100%	0.100	0.100	0.100	0.0005	0.50%	Pass

Pass/ Fail

Individual Run Results

% Difference

Absolute Value

Reference Value (inches W.C.)

Run 2

Measured Value (inches W.C.)

0 - 0.100

Scale:

inches H₂O

Farget 20%

Calibration Range

Pass Pass

Pass Pass Pass

3.00% 1.50% 1.83% 2.25% 0.50%

0.0006 0.0011 0.0018

0.040 0.060 0.020

> 0.059 0.078

0.020 0.040 0.060 0.080 0.100

0.100

0.041

0.021

0.080

0.0006

Calibration Range	nge	Run 3	13		Individual Run Results	
Scale: 0 - 0.100	- 0.100	Measured Value	Reference Value	Absolute Value	% Difference	Pass/ Fail
inches H ₂ O		(inches W.C.)	(inches W.C.)			
Target 20%	0.020	0.021	0.020	0.0006	3.00%	Pass
Target 40%	0.040	0.040	0.040	0.0003	0.75%	Pass
Target 60%	090.0	090'0	090:0	0.0004	%29.0	Pass
Target 80%	0.080	0.079	0.080	0.0015	1.88%	Pass
Target 100%	0.100	0.100	0.100	0.0002	0.20%	Pass

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

Pass/Fail

% Difference

1.64%

Pass

MONT ROSE

Target 80% Target 100% Target 40% Target 60%

Semi-annual

Display ID: ADM 5

Description: Air Data Multimeter (ADM 850L) Serial Number: M19430 Calibration Date: 1/5/2023

Reference Device ID: Microtector Reference Serial Number: S270 Calibrated By: P. Whitman

Calibration Range	ge	Ru	Run 1		Individual Run Results	
Scale: 0 - 1	0 - 1.000	Measured Value	Reference Value	Absolute Value	% Difference	Pass/ Fail
inches H ₂ O		(inches W.C.)	(inches W.C.)			
Target 20%	0.200	0.210	0.200	9600.0	4.75%	Pass
Target 40%	0.400	0.400	0.400	0.0000	%00.0	Pass
Target 60%	0.000	0.601	0.600	0.0005	0.08%	Pass
Target 80%	0.800	0.799	0.800	0.0010	0.13%	Pass
Target 100%	1.000	1.035	1.000	0.0350	3.50%	Pass
Calibration Range	ge	Ru	สนท 2		Individual Run Results	
Scale: 0 - 1	0 - 1.000	Measured Value	Reference Value	Absolute Value	% Difference	Pass/ Fail
inches H ₂ O		(inches W.C.)	(inches W.C.)			
Target 20%	0.200	0.207	0.200	0.0070	3.50%	Pass
Target 40%	0.400	0.402	0.400	0.0023	0.57%	Pass
Target 60%	0.600	0.606	0.600	0.0055	0.92%	Pass
Target 80%	0.800	0.805	0.800	0.0050	0.63%	Pass
Target 100%	1.000	1.011	1.000	0.0110	1.10%	Pass
Calibration Range	ge	Ru	Run 3		Individual Run Results	
Scale: 0 - 1	0 - 1.000	Measured Value	Reference Value	Absolute Value	% Difference	Pass/ Fail

Reference Value (inches W.C.) 0.200 0.400 0.800

Measured Value (inches W.C.)

inches H₂O

Farget 20%

0.206 0.404

0.600

0.200 0.400 0.600 1.000

Target 80% Target 100% Target 40% Target 60%

Average results for three runs

Pass

Pass Pass Pass

2.80% 1.03% 0.08%

0.0056 0.0041 0.0005 0.0005 0.0050

0.06% 0.50%

Pass

Pass/Fail

% Difference

1.31%

Pass



Semi-annual

Description: Air Data Multimeter (ADM 850L) Serial Number: M19430 Display ID: ADM 5

Calibration Date: 1/5/2023

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

Calibration Range	nge	Run	n 1		Individual Run Results	
Scale: 0 - 10.000	10.000	Measured Value	Reference Value	Absolute Value	% Difference	Pass/ Fail
O ² H seloui		(inches W.C.)	(inches W.C.)			
Target 20%	2.000	1.950	2.000	0.0500	2.50%	Pass
Target 40%	4.000	4.040	4.000	0.0400	1.00%	Pass
Target 60%	000.9	6.145	6.000	0.1450	2.42%	Pass
Target 80%	8.000	8.140	8.000	0.1400	1.75%	Pass
Target 100%	10.000	10.350	10.000	0.3500	3.50%	Pass

Calibration Range	ge	Run 2	12		Individual Run Results	
Scale: 0 - 10.000	10.000	Measured Value	Reference Value	Absolute Value	% Difference	Pass/ Fail
inches H ₂ O		(inches W.C.)	(inches W.C.)			
Target 20%	2.000	1.990	2.000	0.0100	0.50%	Pass
Target 40%	4.000	4.055	4.000	0.0550	1.37%	Pass
Target 60%	000°9	5.990	000.9	0.0100	0.17%	Pass
Target 80%	8.000	7.995	8.000	0.0050	0.06%	Pass
Target 100%	10.000	10.250	10.000	0.2500	2.50%	Pass

Calibration Range	ige	Run 3	13		Individual Run Results	
Scale: 0 - 10.000	10.000	Measured Value	Reference Value	Absolute Value	% Difference	Pass/ Fail
or H ₂ O		(inches W.C.)	(inches W.C.)			
Target 20%	2.000	2.025	2.000	0.0250	1.25%	Pass
Target 40%	4.000	3.995	4.000	0.0050	0.12%	Pass
Target 60%	000'9	6.050	6.000	0.0500	0.83%	Pass
Target 80%	8.000	8.055	8.000	0.0550	%69:0	Pass
Target 100%	10.000	10.150	10.000	0.1500	1.50%	Pass

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

Average results for three runs Pass/Fail Pass % Difference 1.34%



APPENDIX C

FACILITY INFORMATION

1.0 Process Data

Date: 3/6/23

· Phar: 30.19 · observed by Alex Nyull?)

025761 194/5/23 American Crematory - Cypress View (Proj-03395+) - Unit A · Weight of Charge: 360 Lbs PM Start @ 11:12

· Description of cremation container: Cardboard Container

· Primary Chamber Start: 950 Final Shutdown:

4 Time of Completion of cremation: 15:20

b Time of activation of smoke control system:

•	Norme	990 Zo	ator:	Mari	0		70700		
	Time	Fuel Meter Reading(Sc5)	Fuel Pressure (P.S.i)	FUE ! TEMP ("F)	1	Ti'me	Fuel Meter Reading (568)	Fres Pressing (psi)	Fuel Temp (· f)
	11:08	6033224		76.2			, , , , , , , , , , , , , , , , , , ,	41	100
	11.22	60335.04	4.5	76.8					
İ	11:30	60336:17	4.5	77.2					
1	11:40	60337.79	45	77.2					
	11:50	6033 9.53	4.5	77.6					
	15:00	60341.31	4.5	76.				·	
	15:10	60343.15	15 1.5 3V	77.8			•		
	12:50	60344.33	4.5	76.6					
		est2.84	4.5	77.0					1
1	2:40	60347.55	4.5	76.8					1
1	2:50	6 0349.12	5.0	75.0				=	1
I.	3:00 8	0350.56	1.5	77.6		ļ i		1	1
1	3:10								
17	3:20 6	0353.24 9	4.5 -	78.2					-
1	3:30 6	035439 4	.s						
	152	1	,		1	1	1		18

1					
(remation	Temp(·F)	A Flethumer	(F)	Stack
N:			1626		178
[(:3		53	1608		990
11:4	1	65 Z	1615		100.7
12:03	1	679	1638	Y	1038
11:50	1	783	164)	1	1062
4:51	-	749	16 11		1200
12:20		726	1616	y.	1146
12:30		939	16 43		1121
1 /		1097	16891		113
12:50		_	1667		1146
		1201	1668	1	1139
13:00			0		×
13:10		1113	1691		1145
B:30		1118	1672		1142
P 30		//10			
		/		-	,
	/				
				1 -	
		1			

American	Crematory	Daily	Log		•
American -Cypress Observe	View	(Proj- 03	3957	~ Unit	B
· Opserve	by . An	thony F	7 3	मार्च 23	

: 150 165 · Weight of charge

· Description of cremation container: Cardboard · Primary chamber start: 15:30 11:48 · Shutdown:

· noiteme of completion of cremation: both activation of smoke control & Time

くれのとそれとれととととととととしてとかかかかちゃちゃちゃち

Name Time	Kengindming E	(br.) nel blezanto 101.	Lowb (.t)	temp(+)	Temp (F)	Stock
12: 53	61563.38	s · 3		1612	1688	941
13:10	61565.75	s. (1311	1683	1016
13:28	61567.82	5.2		1468	1702	1039
13:42	61569.60	5.1		1391	1685	1127
13:59	61571.87	5.1		1496	1698	1123
14:18	61574.73	5.3		1610	1721	1118
			=			

Process Data American Crematory , Unit A 6-Mar-23

		Fuel			After	
	Fuel Meter Readings	Pressure,	Fuel Temp.,	Cremation	Burner	Stack
Time	(SCF)	PSI	°F	Temp oF	Temp oF	Temp oF
11:08	60,332.24	4.5	76.2	-	-	-
11:22	60,335.04	4.5	76.8	780	1626	978
11:30	60,336.12	4.5	77.2	653	1608	990
11:40	60,337.79	4.5	77.2	652	1615	1007
11:50	60,339.53	4.5	77.6	679	1638	1038
12:00	60,341.31	4.5	76.1	783	1641	1062
12:10	60,343.15	4.5	77.8	749	1611	1200
12:20	60,344.33	4.5	76.6	726	1616	1146
12:30	60,345.89	4.5	77	939	1643	1121
12:40	60,347.55	4.5	76.8	1097	1689	1131
12:50	60,349.12	5.0	75	1201	1667	1146
13:00	60,350.56	4.5	77.6	1306	1668	1139
13:10	-	-	-	-	-	-
13:20	60,353.22	4.5	78.2	1113	1691	1145
13:30	60,354.39	4.5	-	1118	1672	1142
Average		4.5	76.9	907	1645	1096
Fuel usage, cfm, total	15.60					
PT Correction factor	1.329					
(@ 68oF, 29.92 Hg)						

Note: Meter is temperature correcetd to 60°F.

Process Data American Crematory , Unit B 10-Mar-23

		Fuel Meter Readings	Fuel	Fuel Temp.,	Cremation	After Burner	Stack
Time		(SCF)	PSI	°F		Temp oF	Temp oF
12	:53	61,563.38	5.3	_	1012	1688	941
13	:10	61,565.75	5.1	-	1341	1683	1016
13	:28	61,567.82	5.2	-	1468	1702	1039
13	:42	61,569.60	5.1	-	1391	1685	1127
13	:59	61,571.87	5.1	-	1496	1698	1123
14	:18	61,574.73	5.3	-	1610	1721	1118
Average			5.2	-	1386	1696	1061
Fuel usage, cfm, tota	al	13.35					
PT Correction factor (@ 68oF, 29.92 Hg)		1.373					

Note: Meter is temperature correcetd to 60°F.

Incinerator A	3/6/2023
---------------	----------

Component	Mol%	CO2 Volumes	CC	02 Contribution
N2	1.201		0	0
CO2	0.486	,	1	0.486
C1	94.546	i	1	94.546
C2	3.627	•	2	7.253
C3	0.123		3	0.368
C4	0.013	,	4	0.053
C 5	0.003	}	5	0.014
C6	0.001		6	0.008
	100.00)		1.027

Incinerator B	3/10/2023
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Component	Mol%	CO2 Volumes	CO2 C	ontribution
N2	1.13	38	0	0
CO2	0.48	37	1	0.487
C1	94.70	00	1	94.700
C2	3.55	53	2	7.106
C3	0.10	09	3	0.328
C4	0.03	10	4	0.041
C5	0.00	01	5	0.006
C6	0.00	01	6	0.007
	100.0	00		1.027

<u>sn</u>	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0		0	0	0	0	0	0	0
C6 Plus	00.0	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	00:00	0.0	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.00	0.0	0.0	0.0	0.0	0.0
Neo Pentane	0.00	00.00	00.00	00.00	00.00	00:00	00.00	00:00	0.00	0.00	00.00	0.00	0.00	00:00	0.00	00:00	0.00	0.00	00:00	0.00	0.00	00.00	0.00	0.00	0.00
N Pentane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00:00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00:0
l Pentane	00.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	00.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	00.00
N Butane	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
l Butane	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Propane	0.12	0.11	0.11	0.11	0.12	0.12	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Ethane	3.43	3.44	3.46	3.50	3.46	3.41	3.40	3.57	3.72	3.68	3.66	3.68	3.64	3.66	3.61	3.58	3.59	3.63	3.59	3.56	3.52	3.45	3.40	3.45	3.50
Methane	94.70	94.70	94.69	94.66	94.70	94.75	94.79	94.64	94.48	94.49	94.50	94.48	94.53	94.51	94.57	94.59	94.59	94.55	94.58	94.60	94.65	94.72	94.76	94.71	94.66
C02	0.49	0.48	0.47	0.48	0.47	0.46	0.46	0.47	0.47	0.46	0.46	0.47	0.47	0.48	0.49	0.50	0.50	0.49	0.51	0.51	0.50	0.49	0.49	0.49	0.48
N2	1.25	1.25	1.24	1.23	1.24	1.24	1.22	1.19	1.20	1.23	1.24	1.23	1.22	1.20	1.19	1.18	1.18	1.20	1.18	1.18	1.19	1.20	1.21	1.22	1.23
Spec gvty	0.583	0.583	0.583	0.583	0.583	0.582	0.582	0.583	0.584	0.584	0.584	0.584	0.584	0.584	0.584	0.583	0.583	0.584	0.584	0.583	0.583	0.583	0.583	0.583	0.583
BTU	1025	1025	1026	1026	1026	1025	1025	1027	1028	1028	1027	1028	1027	1028	1027	1027	1027	1027	1027	1027	1026	1026	1025	1026	1026
Meas Date	3/6/23 12:00 AM	3/6/23 1:00 AM	3/6/23 2:00 AM	3/6/23 3:00 AM	3/6/23 4:00 AM	3/6/23 5:00 AM	3/6/23 6:00 AM	3/6/23 7:00 AM	3/6/23 8:00 AM	3/6/23 9:00 AM	3/6/23 10:00 AM	3/6/23 11:00 AM	3/6/23 12:00 PM	3/6/23 1:00 PM	3/6/23 2:00 PM	3/6/23 3:00 PM	3/6/23 4:00 PM		3/6/23 5:00 PM	3/6/23 6:00 PM	3/6/23 7:00 PM	3/6/23 8:00 PM	3/6/23 9:00 PM	3/6/23 10:00 PM	3/6/23 11:00 PM
Thermal Zone	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Incinerator A -AVG	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby	Zone 4 - Witherby

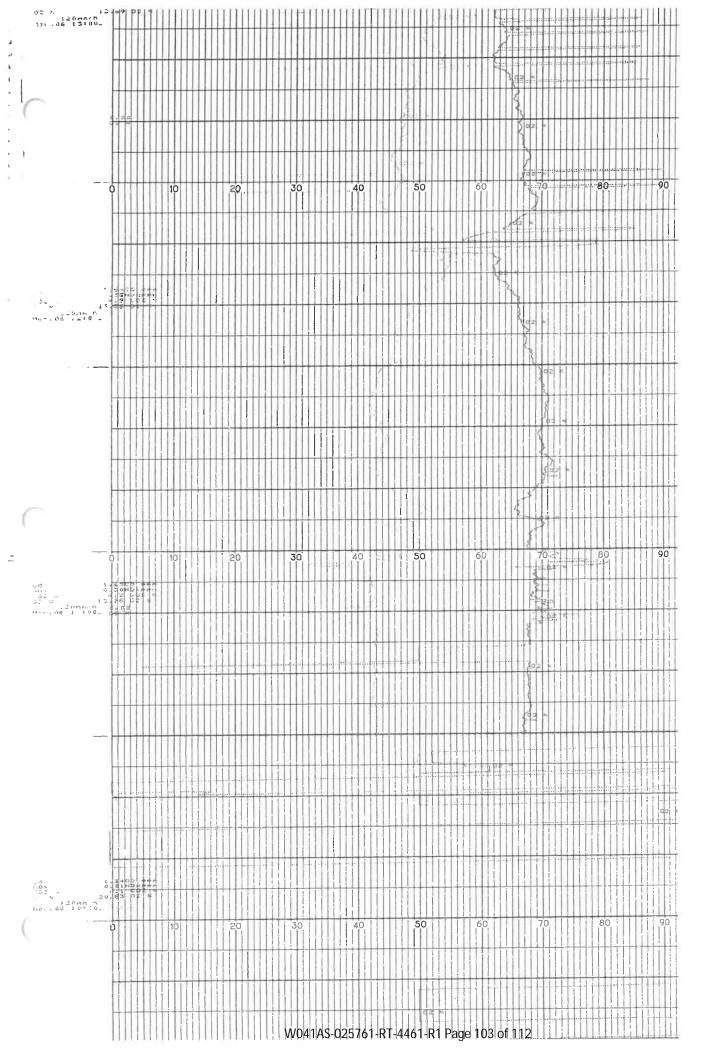
SDG&E Thermal Zone Hourly Report	ne Hourly Report													
													Neo	
Thermal Zone	Meas Date	BTU	Spec gvty	N2	C02	Methane	Ethane	Propane	I Butane	N Butane	l Pentane	N Pentane	Pentane	C6 Plus
Zone 4 - Witherby	3/10/23 12:00 AM	1027	0.581	1.18	0.38	94.88	3.44	0.11	0.00	0.01	0.00	00.00	0.00	0.00
Zone 4 - Witherby	3/10/23 1:00 AM	1027	0.581	1.19	0.38	94.89	3.43	0.11	0.00	0.01	0.00	00.0	0.00	0.00
Zone 4 - Witherby	3/10/23 2:00 AM	1027	0.581	1.19	0.37	94.89	3.43	0.11	0.00	0.01	0.00	00.0	0.00	0.00
Zone 4 - Witherby	3/10/23 3:00 AM	1027	0.581	1.20	0.38	94.89	3.42	0.11	0.00	0.01	0.00	00.0	0.00	0.00
Zone 4 - Witherby	3/10/23 4:00 AM	1026	0.581	1.20	0.38	94.90	3.40	0.11	0.00	0.01	0.00	00.00	0.00	0.00
Zone 4 - Witherby	3/10/23 5:00 AM	1027	0.581	1.20	0.38	94.85	3.45	0.11	0.00	0.01	0.00	00.00	0.00	0.00
Zone 4 - Witherby	3/10/23 6:00 AM	1027	0.582	1.20	0.39	94.80	3.50	0.11	0.00	0.01	00.0	00.0	0.00	00.00
Zone 4 - Witherby	3/10/23 7:00 AM	1027	0.582	1.17	0.43	94.72	3.56	0.11	0.00	0.01	0.00	0.00	0.00	0.00
Zone 4 - Witherby	3/10/23 8:00 AM	1027	0.583	1.14	0.48	94.70	3.56	0.11	0.00	0.01	0.00	00.00	0.00	0.00
Zone 4 - Witherby	3/10/23 9:00 AM	1027	0.583	1.14	0.48	94.67	3.59	0.11	0.00	0.01	0.00	00.00	0.00	0.00
Zone 4 - Witherby	3/10/23 10:00 AM	1027	0.583	1.14	0.48	94.68	3.58	0.11	0.00	0.01	0.00	00.00	0.00	0.00
Zone 4 - Witherby	3/10/23 11:00 AM	1027	0.583	1.13	0.49	94.69	3.56	0.11	0.00	0.01	0.00	0.00	00.00	00.00
Zone 4 - Witherby	3/10/23 12:00 PM	1027	0.583	1.14	0.49	94.70	3.56	0.11	0.00	0.01	0.00	00.00	0.00	00.0
Zone 4 - Witherby	3/10/23 1:00 PM	1027	0.583	1.14	0.49	94.70	3.56	0.11	0.00	0.01	0.00	00.00	0.00	0.00
Zone 4 - Witherby	3/10/23 2:00 PM	1027	0.583	1.14	0.49	94.71	3.54	0.11	0.00	0.01	00.0	00.00	0.00	0.00
Zone 4 - Witherby	3/10/23 3:00 PM	1027	0.583	1.14	0.49	94.69	3.56	0.11	0.00	0.01	00.00	0.00	0.00	00.00
Incinerator B -AVG		1027	0.583	1.14	0.49	94.70	3.55	0.11	0.00	0.01	0.00	00.0	0.00	00.0
Zone 4 - Witherby	3/10/23 4:00 PM	1028	0.583	1.14	0.49	94.58	3.67	0.11	0.00	0.01	0.00	00.0	0.00	00.00
Zone 4 - Witherby	3/10/23 5:00 PM	1028	0.584	1.13	0.50	94.54	3.70	0.11	0.00	0.01	0.00	00.00	0.00	0.00
Zone 4 - Witherby	3/10/23 6:00 PM	1029	0.584	1.13	0.51	94.49	3.75	0.12	0.00	0.01	0.00	00.00	0.00	00.00
Zone 4 - Witherby	3/10/23 7:00 PM	1028	0.584	1.13	0.51	94.51	3.72	0.12	0.00	0.01	0.00	00.00	0.00	0.00
Zone 4 - Witherby	3/10/23 8:00 PM	1028	0.584	1.14	0.51	94.55	3.68	0.12	0.00	0.01	0.00	00.00	0.00	0.00
Zone 4 - Witherby	3/10/23 9:00 PM	1028	0.583	1.14	0.50	94.59	3.64	0.11	0.00	0.01	0.00	00.0	0.00	00.00
Zone 4 - Witherby	3/10/23 10:00 PM	1027	0.583	1.14	0.50	94.61	3.62	0.11	0.00	0.01	0.00	00.00	0.00	00.00
Zone 4 - Witherby	3/10/23 11:00 PM	1027	0.583	1.14	0.50	94.63	3.61	0.11	0.00	0.01	0.00	0.00	00.00	00.00

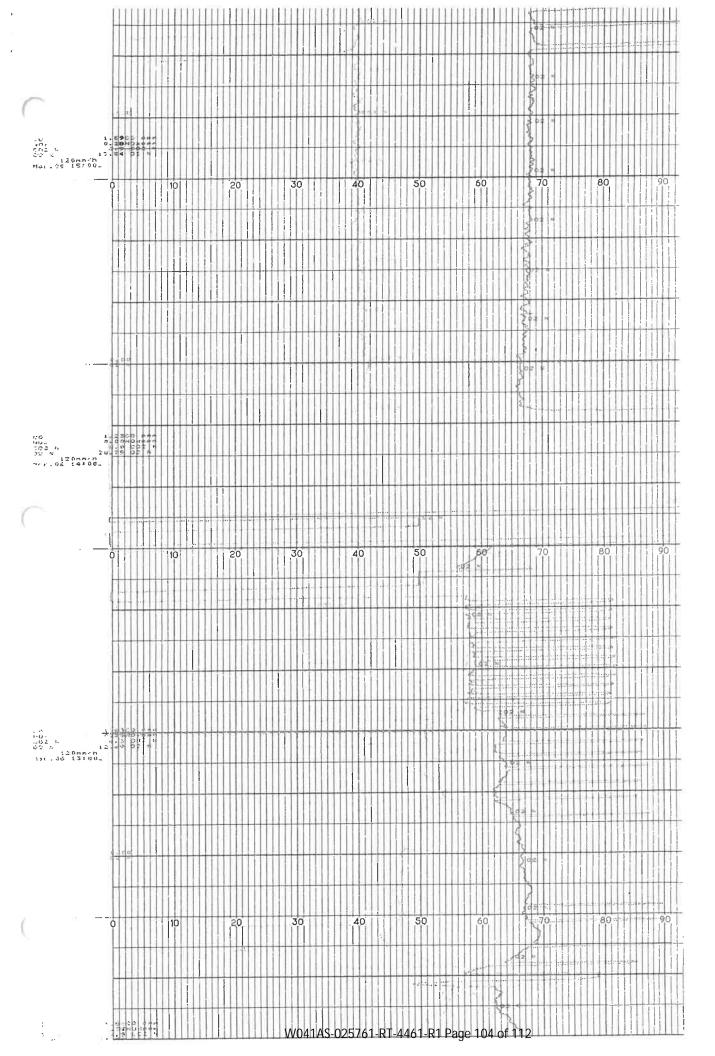
APPENDIX C

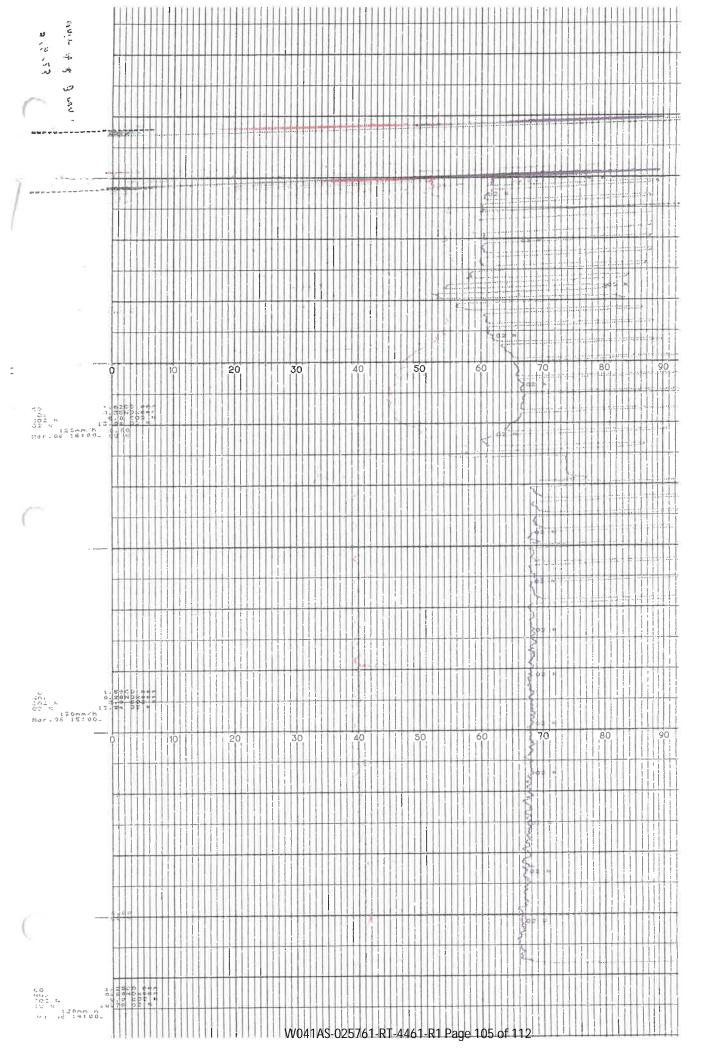
FACILITY INFORMATION

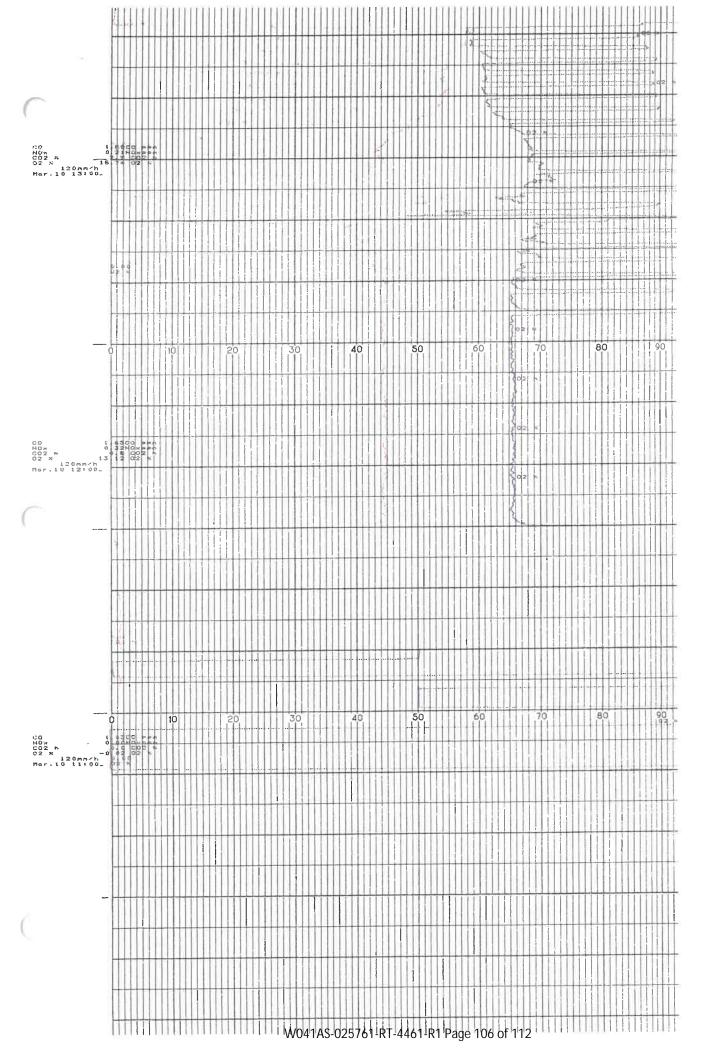
2.0 CEMS Stripchart

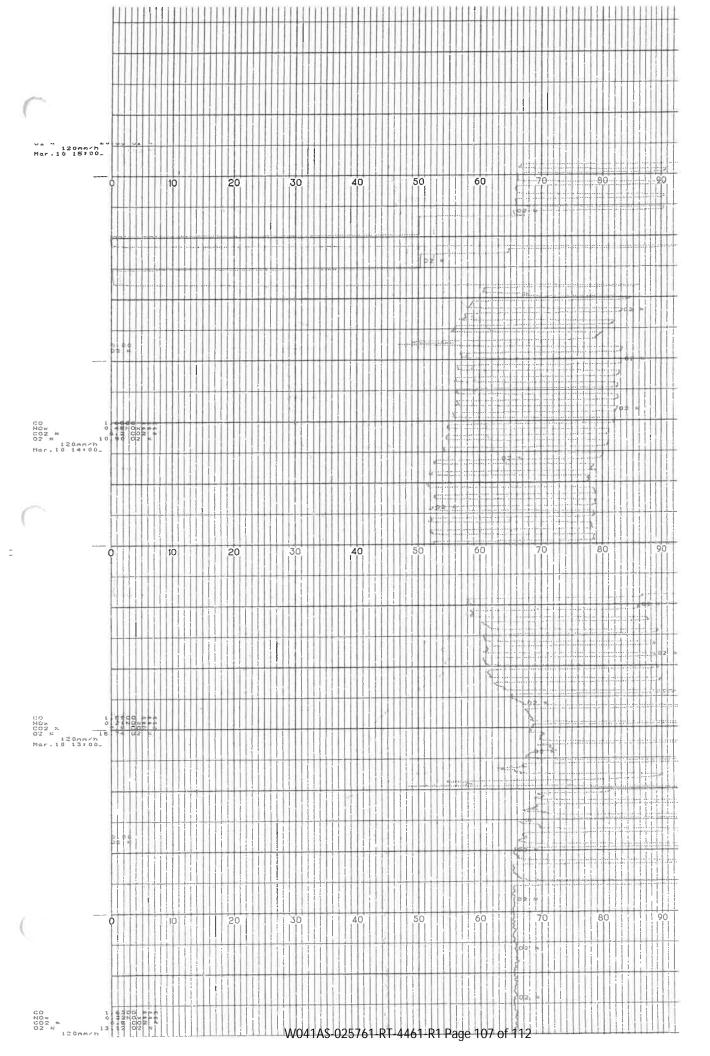
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APPENDIX C

FACILITY INFORMATION

3.0 Permit to Operate



COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT

10124 OLD GROVE ROAD, SAN DIEGO, CA 92131 PHONE (858) 586-2600 Fax (858) 586-2601 www.sdapcd.org

Sectors:

5. P

Site Record ID: Application Record ID: APCD2014-APP-003685

APCD1976-SITE-00045

PERMIT RECORD ID APCD2016-PTO-002654



Cypress View Crematory Manager Rudee Slavik 3953 Imperial Ave San Diego CA 92113

EQUIPMENT ADDRESS

Cypress View Crematory Jorge Ferreiro 3953 Imperial Ave San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: May 31, 2022

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT OWNER

Cypress View Crematory Jorge Ferreiro 3953 Imperial Ave, San Diego, CA 92113

EQUIPMENT DESCRIPTION

One (1) American Crematory, Model A-200 HT, S/N 091414-A, 150 lbs/hr, natural gas fired, with a 750,000 BTU per hour Eclipse Thermjet TJ260075 Primary Burner, and a 1 MM BTU per hour Thermjet TJ260100A Secondary Chamber Burner.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 0.5 [92Y] Particulate Matter and Carbon Dioxide and Oxygen

1 [14A] Non-Municipal Incinerator

BEC: APCD2016-CON-001226

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

- The incinerator shall be operated at all times in accordance with the manufacturer's instructions. These instructions shall 1 be posted on the equipment or kept readily available on the premises.
- 2. The applicant shall keep the crematory in good working condition and record the date and detail description of the type of maintenance done on the crematory. (Rule 50 and 51)
- 3. Process, control, and monitoring equipment shall be inspected and maintained in accordance with manufacturer's instructions. A Maintenance Log shall be maintained on the premises for at least five (5) years and made readily available to the District upon request.
- 4. No more than 109 caskets shall be cremated in this equipment per year. Records documenting compliance with this condition shall be maintained for a period of three (3) years and made available to the District upon request. (Rule 1200)
- 5. This equipment is limited to 949 cremations per year. Records documenting compliance with this condition shall be maintained for a period of three (3) years and made available to the District upon request. (Rule 1200)
- 6. Each charge shall be weighed prior to incineration. Process rate shall be calculated for each cremation as the initial charge weight divided by the time required for complete cremation. The average process rate for each cremation shall not exceed 150 pounds per hour. (Rule 20.2)

Revision Date: 12/16/2018 Version History# 2

Page 1 of 2

Print Date: Jul 07, 2021 APC034 - Ver: 1.25



COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT

10124 OLD GROVE ROAD, SAN DIEGO, CA 92131 PHONE (858) 586-2600 Fax (858) 586-2601

www.sdapcd.org

Sectors:

5, P

Site Record ID: APCD1976-SITE-00045
Application Record ID: APCD2014-APP-003685

PERMIT RECORD ID APCD2016-PTO-002654



- No charge shall exceed 450 pounds. (Rules 50, 51, 53, 20.2).
- 8. The afterburner of the crematory shall be lit at all times during cremation operation and until burn down is complete.
- 9. The owner / operator shall maintain the operating temperature in the secondary chamber of the crematory at or above 1600 degrees Fahrenheit during all cremations. Records documenting compliance with this condition shall be maintained on site for a period of three (3) years and made available to the District upon request. (Rule 50 and 51)
- Temperature indicators to monitor the primary chamber and afterburner temperatures must be installed on the equipment and maintained in good working order.
- 11. Electronic recording of the time and secondary chamber temperature shall be maintained at all times.
- 12. Body bags shall be polyethylene only. (Rule 1200)
- 13. The crematory exhaust stack total particulate grain loading shall not exceed 0.10 grains/dscf at 12% CO2 by volume excluding auxiliary fuel CO2.
- 14. This equipment shall be source tested once every two permit years to demonstrate compliance with the emission standards contained in this permit. For the purposes of this permit, a permit year is the 12-month period ending on the last day of the permit expiration month. It is the responsibility of the permittee to schedule the source test with the District. The source test shall be performed or witnessed by the District.
- 15. A daily operational log shall be kept with the following information for each cremation:
 - A. date of cremation
 - B. weight of charge
 - C. description of each cremation container noting whether it is a casket or non-casket
 - D. time of primary chamber start and final shutdown.
 - E. time of completion of cremation.
 - F. time of activation of smoke control system.
 - G. name of operator.
- Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
- 17. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
- 18. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

Revision Date: 12/16/2018 Version History# 2 Page 2 of 2

Print Date: Jul 07, 2021 APC034 - Ver: 1.25



COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT 10124 OLD GROVE ROAD, SAN DIEGO, CA 92131

PHONE (858) 586-2600 Fax (858) 586-2601

www.sdapcd.org

Sectors:

Site Record ID:

APCD1976-SITE-00045

Application Record ID: 2014-APP-003686

PERMIT RECORD ID APCD2016-PTO-002653

Cypress View Crematory Manager Rudee Slavik 3953 Imperial Ave San Diego CA 92113

EQUIPMENT ADDRESS

Cypress View Crematory Jorge Ferreiro 3953 Imperial Ave San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: May 31, 2022

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT OWNER

Cypress View Crematory Jorge Ferreiro 3953 Imperial Ave, San Diego, CA 92113

EQUIPMENT DESCRIPTION

One(1) American Crematory, Model A-200 HT, S/N 091414-B, 150 lbs/hr, natural gas fired, with a 750,000 btu per Eclipse Thermjet TJ260075 Primary Burner, and a 1 MM Btu per hour Thermjet TJ 260100A Secondary Chamber Burner.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 0.5 [92Y] Particulate Matter and Carbon Dioxide and Oxygen

1 [14A] Non-Municipal Incinerator

BEC: APCD2016-CON-001226

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

- The incinerator shall be operated at all times in accordance with the manufacturer's instructions. These instructions shall 1. be posted on the equipment or kept readily available on the premises.
- The applicant shall keep the crematory in good working condition and record the date and detail description of the type of 2. maintenance done on the crematory. (Rule 50 and 51)
- Process, control, and monitoring equipment shall be inspected and maintained in accordance with manufacturer's 3. instructions. A Maintenance Log shall be maintained on the premises for at least five (5) years and made readily available to the District upon request.
- No more than 109 caskets shall be cremated in this equipment per year. Records documenting compliance with this 4. condition shall be maintained for a period of three (3) years and made available to the District upon request. (Rule 1200)
- This equipment is limited to 949 cremations per year. Records documenting compliance with this condition shall be 5. maintained for a period of three (3) years and made available to the District upon request. (Rule 1200)
- Each charge shall be weighed prior to incineration. Process rate shall be calculated for each cremation as the initial 6. charge weight divided by the time required for complete cremation. The average process rate for each cremation shall not exceed 150 pounds per hour. (Rule 20.2)

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COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT 10124 OLD GROVE ROAD, SAN DIEGO, CA 92131

PHONE (858) 586-2600 Fax (858) 586-2601 www.sdapcd.org

Sectors:

5, P

Site Record ID: APCD1976-SITE-00045 Application Record ID: 2014-APP-003686 PERMIT RECORD ID APCD2016-PTO-002653



- 7. No charge shall exceed 450 pounds. (Rules 50, 51, 53, 20.2).
- 8. The afterburner of the crematory shall be lit at all times during cremation operation and until burn down is complete.
- 9. The owner / operator shall maintain the operating temperature in the secondary chamber of the crematory at or above 1600 degrees Fahrenheit during all cremations. Records documenting compliance with this condition shall be maintained on site for a period of three (3) years and made available to the District upon request. (Rule 50 and 51)
- 10. Temperature indicators to monitor the primary chamber and afterburner temperatures must be installed on the equipment and maintained in good working order.
- 11. Electronic recording of the time and secondary chamber temperature shall be maintained at all times.
- 12. Body bags shall be polyethylene only. (Rule 1200)
- 13. The crematory exhaust stack total particulate grain loading shall not exceed 0.10 grains/dscf at 12% CO2 by volume excluding auxiliary fuel CO2.
- 14. This equipment shall be source tested once every two permit years to demonstrate compliance with the emission standards contained in this permit. For the purposes of this permit, a permit year is the 12-month period ending on the last day of the permit expiration month. It is the responsibility of the permittee to schedule the source test with the District. The source test shall be performed or witnessed by the District.
- 15. A daily operational log shall be kept with the following information for each cremation:
 - A. date of cremation
 - B. weight of charge
 - C. description of each cremation container noting whether it is a casket or non-casket
 - D. time of primary chamber start and final shutdown.
 - E. time of completion of cremation.
 - F. time of activation of smoke control system.
 - G. name of operator.
- Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
- This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
- 18. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



04.13.23 APCD HB Speaker Slips

DATE 4.13.23 Petition Number 4538

SUBJECT EMISSION VIOLATION

REQUEST TO SPEAK

PLEASE PRINT NAME LEGIBLY

Organization Name

Please check below:

Officer or Authorized Employee for Petitioner

[] Agent or Legal Representation

PLEASE SEE GUIDE FOR SPEAKERS ON REVERSE

(FOR PETITIONER)

Air Pollution Control District Hearing Board

DATE Apr 13/23 Petition Number 4534

SUBJECT Cypress View

REQUEST TO SPEAK

PLEASE PRINT NAME LEGIBLY

Organization Name Yorke Emin

Please check below:

[] Officer or Authorized Employee for Petitioner

Agent or Legal Representation

PLEASE SEE GUIDE FOR SPEAKERS ON REVERSE

(FOR PETITIONER)