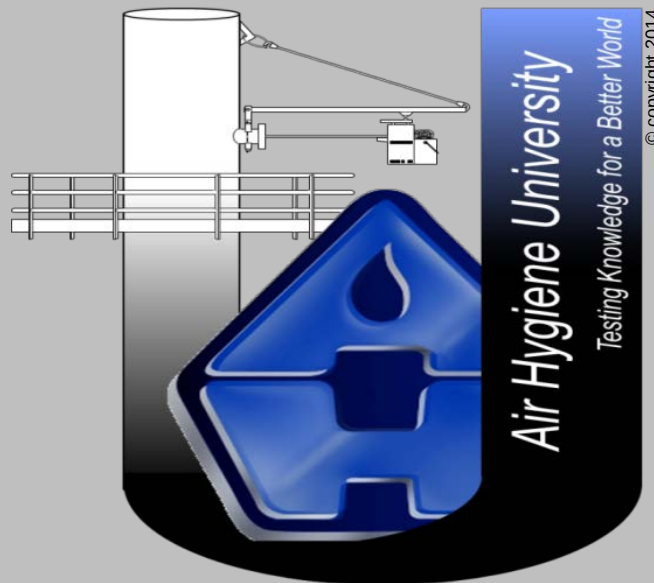




Thomas Graham,
PE, QSTI (I-IV)
Chief Knowledge Officer

Air Hygiene
International, Inc.
1600 W Tacoma Street
Broken Arrow, Oklahoma
(918) 307-8865

ELECTRONIC REPORTING TOOL (ERT) TIPS, TRICKS, AND BEYOND

**CUSTOM INSTRUMENTATION
SERVICES CORPORATION
15TH ANNUAL USER'S
GROUP MEETING
SEPTEMBER 15-16, 2026**



Code of Federal Regulations

A point in time eCFR system



eCFR

ECFR CONTENT

Details

▼ **Title 40** Protection of Environment

Part / Section

▼ **Chapter I** Environmental Protection Agency

1 – 1099

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Subchapter C Air Programs

50 – 99

Edition

► **Part 60** Standards of Performance for New Stationary Sources

60.1 – 60.5880b

Subpart GG

Standards of Performance for Stationary Gas Turbines

60.330 – 60.335

Subpart KKKK

Standards of Performance for Stationary Combustion Turbines

60.4300 – 60.4420

Subpart KKKKa

Standards of Performance for Stationary Combustion Turbines

60.4300a – 60.4420a



Code of Federal Regulations

A point in time eCFR system



eCFR

Contents

§ 60.4375 What reports must I submit?

Compare Dates

Published Edition

Developer Tools

- (e) Beginning on March 16, 2026, within 60 days after the date of completing each performance test or continuous emissions monitoring systems (CEMS) performance evaluation that includes a RATA, you must submit the results following the procedures specified in paragraph (g) of this section. You must submit the report in a file format generated using the EPA's Electronic Reporting Tool (ERT). Alternatively, you may submit an electronic file consistent with the extensible markup language (XML) schema listed on the EPA's ERT website (<https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>) accompanied by the other information required by § 60.8(f)(2) in PDF format.

- **March 16, 2026**
- **60 days**
- **Electronic Reporting Tool (ERT)**
- **XML**

- **RATA**
- **CEMS**

Electronic Reporting of Air Emissions

[Electronic Reporting Tool \(ERT\)](#)

[Compliance and Emissions Data Reporting Interface \(CEDRI\)](#) ▾

[Web Factor Retrieval System \(WebFIRE\)](#)

Electronic Reporting Tool (ERT)

On this page:

- [Introduction](#)
- [Installation, Program Files and User's Guide](#)
- [ERT Field and Header Data Import Spreadsheets and XML Schema](#)
- [ERT User's Guide, Updated September, 2025](#)

Related Information

ERT v7 can accept data from all methods.

Installation, Program Files and User's Guide

ERT version 7.0 Released March 12, 2024; Updated 9/2/25

[ERT Version 7 Program Files - September 2, 2025 \(10 MB\)](#). **NOTE: ERT Application and data file must be located on a local computer and not the network or thumb drive to work consistently.** Because there are issues with executable file download, a zip file is located by the link. This version of the program requires either MS Access 2010, MS Access 2013, MS Access 2016 , MSAccess 2019, MSAccess 365 or MS Access Runtime. Download the zip file to your hard drive, open and unzip the file will give access to the manual and the database

ERT - Main Menu

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Regulatory Agency Review

Test Plan Review

Regulatory Field Observation
Documentation

Regulatory Assessment of
Supporting Documentation

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Wood Heater Attachments
Checklist

Planning – TIPS

ERT Package
Name:

xyz-24-osage ok-comp 1-B5-ERT

Test Plan Date*

2/23/2024

Open Expanded

Facility/Tester Permit/SCC Locations/Methods Regulations Process/APCD Methods cont. Audit/Calibrations Schedule Reviewers Attach.

Facility Name*

XYZ Steam Electric Station

Address: *

County Road 1234

AFS Number:

City: *

Somewhere

Industry
NAICS:

221112

[Search on the Web](#)

State/Zip: *

OK

74035-

FRS: *

110042068473

[Search on the Web](#)

County: *

Osage Co

State ID:

NN-ROP-05-07

Contact: *

John Doe

Phone: *

(555) 555-5555

Latitude:

36.68800

email: *

jdoe@xyz.com

Longitude:

-108.47700

ORIS Code:

2442

Test Number:

2442_5_20240418_MATS

Testing Company* Air Hygiene International, Inc.

Address: *

1600 W Tacoma Street

Testing Company Project Number:

xyz-24-osage.ok-comp#1

City: *

Broken Arrow

State/Zip: *

OK

74012-

Contact: *

Danny Parr

Phone: *

(918) 307-8865

email: *

danny@airhygiene.com

Attach Field documentation of
competence as an AETB and QI for
stationary source testing.

Next Page

(* required fields)

Planning
TIPS

ERT Package Name: xyz-24-osage ok-comp 1-B5-ERT

Test Plan Date: 2/23/2024

Open Expanded

Facility/TesterPermit/SCCLocations/MethodsRegulationsProcess/APCDMethods cont.Audit/CalibrationsScheduleReviewersAttach.

Facility Name: XYZ Steam Electric Station

Address: County Road 1234

City: Somewhere

State/Zip: OK 74035-

County: Osage Co

Contact: John Doe

Phone: (555) 555-5555

email: jdoe@xyz.com

ORIS Code: 2442

AFS Number:

Industry NAICS: 221112

FRS: 110042068473

State ID: NN-ROP-05-07

Latitude: 36.68800

Longitude: -108.47700

Test Number: 2442_5_20240418_MATS

Testing Company: Air Hygiene International, Inc.

Address: 1600 W Tacoma Street

City: Broken Arrow

State/Zip: OK 74012-

Contact: Danny Parr

Phone: (918) 307-8865

email: danny@airhygiene.com

Testing Company Project Number: xyz-24-osage.ok-comp#1

Attach Field documentation of competence as an AETB and QI for stationary source testing.

Next Page

(* required fields)

Tip #2

a. Number of Characters

ERT Package Name: xyz-24-osage ok-comp 1-B5-ERT

Test Plan Date: 2/23/2024

Open Expanded

Facility/TesterPermit/SCCLocations/MethodsRegulationsProcess/APCDMethods cont.Audit/CalibrationsScheduleReviewersAttach.

Facility Name: XYZ Steam Electric Station

Address: County Road 1234

City: Somewhere

State/Zip: OK 74035-

County: Osage Co

Contact: John Doe

Phone: (555) 555-5555

email: jdoe@xyz.com

ORIS Code: 2442

AFS Number:

Industry NAICS: 221112

FRS: 110042068473

State ID: NN-ROP-05-07

Latitude: 36.68800

Longitude: -108.47700

Test Number: 2442_5_20240418_MATS

Search on the Web

Search on the Web

Testing Company: Air Hygiene International, Inc.

Address: 1600 W Tacoma Street

City: Broken Arrow

State/Zip: OK 74012-

Contact: Danny Parr

Phone: (918) 307-8865

email: danny@airhygiene.com

Testing Company Project Number: xyz-24-osage.ok-comp#1

Attach Field documentation of competence as an AETB and QI for stationary source testing.

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(* required fields)

Tip #2

- Number of Characters
- Types of Characters

ERT Package Name: *xyz-24-osage ok-comp 1-B5-ERT

Test Plan Date: *2/23/2024

Open Expanded

Facility/TesterPermit/SCCLocations/MethodsRegulationsProcess/APCDMethods cont. Audit/CalibrationsScheduleReviewersAttach.

Facility Name: *XYZ Steam Electric Station

Address: *County Road 1234

City: *Somewhere

State/Zip: *OK74035-

County: *Osage Co

Contact: *John Doe

Phone: *(555) 555-5555

email: *jdoe@xyz.com

ORIS Code: 2442

AFS Number:

Industry NAICS: 221112

FRS: *110042068473

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State/Zip: *OK74012-

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Phone: *(918) 307-8865

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Testing Company Project Number: xyz-24-osage.ok-comp#1

Attach Field documentation of competence as an AETB and QI for stationary source testing.

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Tip #2

- a. Number of Characters
- b. Types of Characters
- c. Required Characters

ERT Package Name: xyz-24-osage ok-comp 1-B5-ERT

Test Plan Date: 2/23/2024

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ORIS Code: 2442

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(* required fields)

Tip #2

- a. Number of Characters
- b. Types of Characters
- c. Required Characters
- d. Required Formats

ERT Package Name: *xyz-24-osage ok-comp 1-B5-ERT

Test Plan Date: *2/23/2024

Open Expanded

Facility/TesterPermit/SCCLocations/MethodsRegulationsProcess/APCDMethods cont. Audit/CalibrationsScheduleReviewersAttach.

Facility Name: *XYZ Steam Electric Station

Address: *County Road 1234

City: *Somewhere

State/Zip: *OK74035-

County: *Osage Co

Contact: *John Doe

Phone: *(555) 555-5555

email: *jdoe@xyz.com

ORIS Code: 2442

AFS Number:

Industry NAICS: 221112

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Contact: *Danny Parr

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email: *danny@airhygiene.com

Testing Company Project Number: xyz-24-osage.ok-comp#1

Attach Field documentation of competence as an AETB and QI for stationary source testing.

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(* required fields)

Tip #2

- Number of Characters
- Types of Characters
- Required Characters
- Required Formats
- Long Number Strings



[Environmental Topics](#) ▾

[Laws & Regulations](#) ▾

[Report a Violation](#) ▾

[About EPA](#) ▾

[Home](#) / [Facility Registry Service \(FRS\)](#) / [Search for FRS data](#)

FRS Query

Simple Search - Start by entering the name of your location or facility in the Facility Selection section below. If the facility is not found, proceed to use the Geography Search option. Locations returned have a **Registry ID**, (also called the **FRS ID**), and used as an EPA unique ID across multiple EPA systems.

No

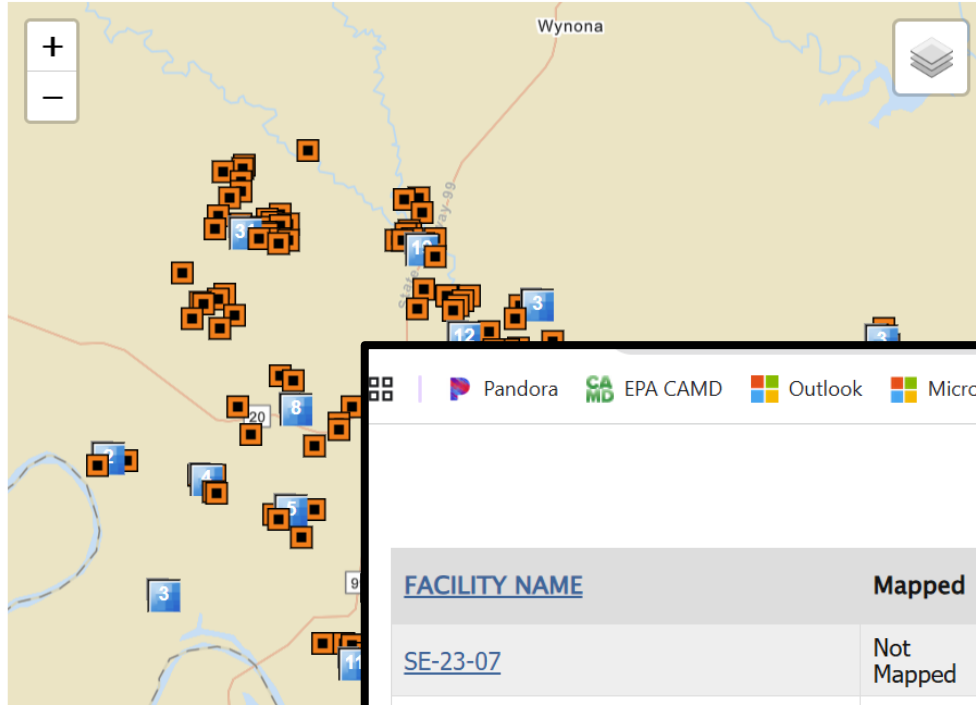
Geography Search

Enter a partial value for any geography option except for the state value. For city, county, US/Mexico 100KM Border Area, congressional district, etc. We strongly recommend that you enter a small geographical area to begin the search since Envirofacts contains a large number of facilities.

Geography Search Option	Geography Search Option Entry
* You must also enter the State for these fields	Click the "Search" link below to execute the search
ZIP Code:	

FRS Facility Query Results

Your selection returned 361 facilities which are listed below.
Results are sorted by State, City Name, and Facility Name



Map Legend

- Denotes a facility/site location

Facility Reg

- [Facility Registr](#)
- [FRS Facility Qu](#)
- [FRS Organizati](#)
- [EZ Query](#)
- [FRS Physical D](#)
- [FRS Geospatial](#)

Tip #3

[ctrl+f]

List of National System Records							
FACILITY NAME	Mapped	LOCATION ADDRESS	CITY NAME	COUNTY NAME	STATE	ZIP CODE	Reports
SE-23-07	Not Mapped	SE/4, SEC. 12, T 23N, R 07E	FAIRFAX	OSAGE	OK	74035	Detailed Facility Report , MyEnvironment
OS1543 - WELL NO. 8 (E)	Not Mapped	NW/4, SEC. 25, T 23N, R 10E	HOMIINY	OSAGE	OK	74035	Detailed Facility Report , MyEnvironment
SULLIVAN AND COMPANY, LLC (BRYAN LEASE)	Not Mapped	36.449722, -96.562807	HOMINEY		OK	74035	Detailed Facility Report , MyEnvironment
AE4916 TREADWAY STREET		SOUTH TREADWAY AVE.	HOMINY		OK	74035	Detailed Facility Report , MyEnvironment , Facility Coordinates , Enforcement and Compliance
ARCO PIPELINE CO OSAGE STATION	Not Mapped	10 MI E ON HWY #20	HOMINY	OSAGE	OK	74035	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
BANDWHEEL PRODUCTION COMPANY, LLC		CR 5251 AND CR 5257	HOMINY	OSAGE	OK	74035	Detailed Facility Report , MyEnvironment , Facility Coordinates

ERT Package *
Name: xyz-24-osage ok-comp 1-B5-ERT

Test Plan Date: 2/23/2024

Open Expanded

Facility/Tester Permit/SCC Locations/Methods Regulations Process/APCD Methods cont. Audit/Calibrations Schedule Reviewers Attach.

Air Permit Number

AA-BBB-05-07

Permitted State Source ID/Name

B5

Boiler 5

Permitted Maximum Process Rate

Maximum Normal Operation Process Rate

Target Process Rate for Testing:

Operational Hours Per Year:

Source Classification Code:

Select SCC from list

SCC/Desc.: * 10100215

External Combustion - Electric Generation: Boilers - Bituminous/Subbituminous Coal - Bituminous Coal: Cell Burner

Target Parameter:

Heat Input

Process Rate:

MMBtu/hr

Pollutant Unit of Measure:

Lb/hr

Target Parameter Description (if needed):

(* required fields)

Tip #2

- a. Number of Characters
- b. Types of Characters
- c. Required Characters
- d. Required Formats
- e. Long Number Strings
- f. Get Help about Source

ERT Package *
Name: xyz-24-osage ok-comp 1-B5-ERT

Test Plan Date*
2/23/2024

Open Expanded
☐

Facility/Tester Permit/SCC Locations/Methods Regulations Process/APCD Methods cont. Audit/Calibrations Schedule Reviewers Attach.

Air Permit Number
AA-BBB-05-07

Permitted State Source ID/Name
B5

Boiler 5

Permitted Maximum Process Rate

Maximum Normal Operation Process Rate

Target Process Rate for Testing:

Operational Hours Per Year:

Source Classification Code:

Select SCC from list

SCC/Desc.: * 10100215

External Combustion - Electric Generation: Boilers - Bituminous/Subbituminous Coal - Bituminous Coal: Cell Burner

Target Parameter:
Heat Input

Process Rate:
MMBtu/hr

Pollutant Unit of Measure:
Lb/hr

Target Parameter Description (if needed):

(* required fields)

Tip #2

- a. Number of Characters
- b. Types of Characters
- c. Required Characters
- d. Required Formats
- e. Long Number Strings
- f. Get Help about Source
- g. Load Designation

ERT Package Name: xyz-24-osage ok-comp 1-B5-ERT

Test Plan Date: 2/23/2024

Open Expanded

Facility/Tester

Permit/SCC

Locations/Methods

Regulations

Process/APCD

M

1. Please enter sampling location information.

(Required before test data entry)

Location: (click to view/edit)

Inlet/Outlet

Total Traver

Coal Fired Boiler Stack

Outlet

16

(Note: UpStreamDist = Distance upstream from the disturbance (Distance

2a. Please provide the following information for

Location	Test Method	Target Parameter	Num T
Coal Fired Boiler S	Method 30B	Mercury	
Coal Fired Boiler S	Method 5@320F	Filterable Particulate @	
Coal Fired Boiler S	Method 6C	Sulfur Dioxide	
Coal Fired Boiler S	PST Hg to PS12B	Mercury	
Coal Fired Boiler S	PST SO2 to PS2	Sulfur Dioxide	

Record: 1 of 5

No Filter

Search

2b. Please select the Emissions Units of Mea

Location	Method	Units of Measure
Coal Fired Boiler Stack	Method 30B	ug/wscm
Coal Fired Boiler Stack	Method 5@320F	grains/dscf
Coal Fired Boiler Stack	Method 5@320F	lb/hr

Record: 1 of 5

No Filter

Search

Test Location Information

Test Location Information

(all dimensions are in inches)

Location: Coal Fired Boiler Stack

Inlet/Outlet: Outlet

Round Duct Diam.: 342.12

Duct Length:

Duct Width:

Equivalent Diameter.:

Assumed Stack O2 %: 0

Assumed Moisture %: 0

Temp (F): 0

ACFM: 0

Non-Isokinetic Traverse: No

Emissions are Controlled

DownStream Distance from Disturbance (Distance B): 2160

UpStream Distance from Disturbance: 600

Total Traverse Points: 16

Ports: 4

Calc. Points

For Method 1a

Up Stream Pt. Loc. (M1A): 0

Dwn Stream Pt. Loc. (M1A): 0

Exit

Save and Exit

Tip #2

- a. Number of Characters
- b. Types of Characters
- c. Required Characters
- d. Required Formats
- e. Long Number Strings
- f. Get Help about Source
- g. Load Designation
- h. Up/Down Stream

ERT Package Name: xyz-24-osage ok-comp 1-B5-ERT

Test Plan Date: 2/23/2024

Open Expanded

Facility/Tester

Permit/SCC

Locations/Methods

Regulations

Process/APCD

M

1. Please enter sampling location information.

(Required before test data entry)

Location: (click to view/edit)

Inlet/Outlet

Total Traver

Coal Fired Boiler Stack

Outlet

16

(Note: UpStreamDist = Distance upstream from the disturbance (Distance

2a. Please provide the following information for

Location	Test Method	Target Parameter	Num T
Coal Fired Boiler S	Method 30B	Mercury	
Coal Fired Boiler S	Method 5@320F	Filterable Particulate @	
Coal Fired Boiler S	Method 6C	Sulfur Dioxide	
Coal Fired Boiler S	PST Hg to PS12B	Mercury	
Coal Fired Boiler S	PST SO2 to PS2	Sulfur Dioxide	

Record: 1 of 5

2b. Please select the Emissions Units of Mea

Location	Method	Units of Measure
Coal Fired Boiler Stack	Method 30B	ug/wscm
Coal Fired Boiler Stack	Method 5@320F	grains/dscf
Coal Fired Boiler Stack	Method 5@320F	lb/hr

Record: 1 of 5

Test Location Information

Test Location Information

(all dimensions are in inches)

Location: (Coal Fired Boiler Stack

Inlet/Outlet: Outlet

Round Duct Diam.: 342.12

Duct Length:

Duct Width:

Equivalent Diameter.:

Assumed Stack O2 %: 0

Assumed Moisture %: 0

Temp (F): 0

ACFM: 0

Non-Isokinetic Traverse: No

Emissions are Controlled

DownStream Distance from Disturbance (Distance B): 2160

UpStream Distance from Disturbance: 600

Total Traverse Points: 16

Ports: 4

Calc. Points

For Method 1a

Up Stream Pt. Loc. (M1A): 0

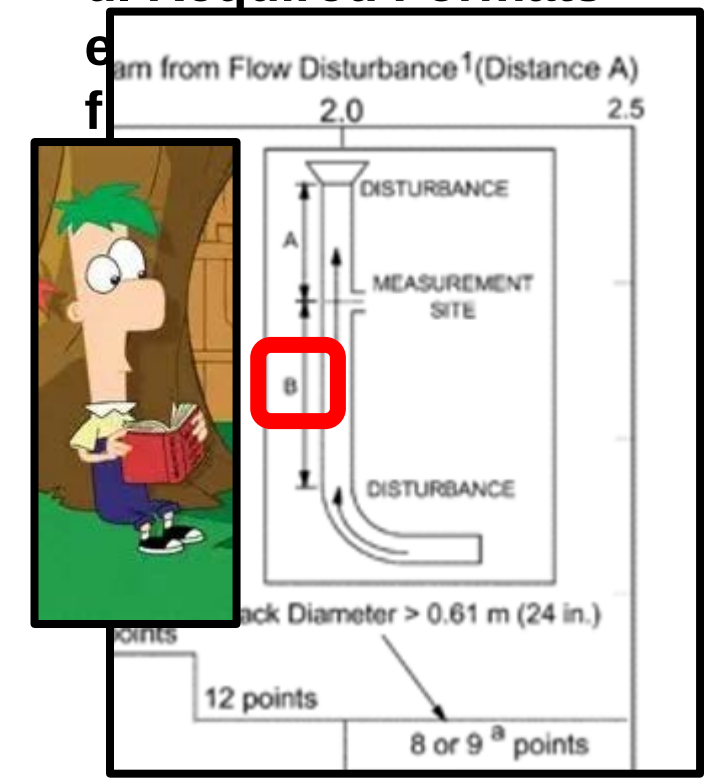
Dwn Stream Pt. Loc. (M1A): 0

Exit

Save and Exit

Tip #2

- a. Number of Characters
- b. Types of Characters
- c. Required Characters
- d. Required Formats



ERT Package * xyz-24-osage ok-comp 1-B5-ERT Test Plan Date* 2/23/2024 Open Expanded

Facility/Tester Permit/SCC Location/Method/Compound

1. Please enter sample information (Required before test)

Location: (click to view)
Coal Fired Boiler Stack

(Note: UpStreamDist = Distance)

2a. Please provide test method information

Location	Test Method
Coal Fired Boiler Stack	Method 30B
Coal Fired Boiler Stack	Method 5@320F
Coal Fired Boiler Stack	Method 5@320F
Coal Fired Boiler Stack	PST Hg
Coal Fired Boiler Stack	PST SO ₂

Record: 1 of 5

2b. Please select test method and compounds

Select Method and Compounds for Location

Select Location, Method, and Compounds

Select Location: Coal Fired Boiler Stack

Select Method: (select method by compound)

Number of Test Runs: 0

Test Run Duration (mins): 0

Available Compounds:

Method	Desc
ASTM D6348	Determination of Gaseous Compounds by Extractive Direct
ASTM D6522	Determination of NO _x , CO, and O ₂ Concentrations in Exhaust
ASTM D6784	Elemental, Oxidized, Particle-Bound and Total Mercury -
ASTM E2515	Determination of PM Emissions Collected by a Dilution Tunnel
CARB Method 428	Dioxin, Furan, PCB
CARB Method 429	Polycyclic Organic Matter (19 Compounds)
CSA B415.1	Testing of Solid fuel burning heating appliances
CTM - 027	Procedure for Collection and Analysis of Ammonia in Stack
CTM - 039	Measurement of PM 2.5 and PM 10 Emissions by Dilution Tunnel
Custom	Select to enter custom method
Destruction Efficiency (DE)	Destruction Efficiency (DE)
Destruction Removal Efficiency (DRE)	Destruction Removal Efficiency (DRE)
Method 1 - 4	Flowrate / Moisture
Method 10	Carbon Monoxide-NDIR
Method 101	Mercury from Chlor-Alkali Plants (Air)

Hold Ctrl or Shift to select

Exit Save Selected Items

Location	Method	Units of Measure	Corrected %	Process Rate, Parameter	Corrected Analyte
Coal Fired Boiler Stack	Method 30B	ug/wscm	0		
Coal Fired Boiler Stack	Method 5@320F	grains/dscf	0		
Coal Fired Boiler Stack	Method 5@320F	lb/hr	0		

Record: 1 of 5 No Filter Search

Tip #2

- Number of Characters
- Types of Characters
- Required Characters
- Required Formats
- Long Number Strings
- Get Help about Source
- Load Designation
- Up/Down Stream
- Decide Outcomes

ERT Package * xyz-24-osage ok-comp 1-B5-FRT Test Plan Date* 2/23/2024 Open Expanded

Facility/Tester Permit/SCC Locations/Methods Regulations

1. Please enter sampling location information
(Required before test data entry)

Location: (click to view/edit) Inlet/Outlet
Coal Fired Boiler Stack Outlet

(Note: UpStreamDist = Distance upstream from the distribution point)

2a. Please provide the following information

Location	Test Method	Target Parameter
Coal Fired Boiler Stack	Method 30B	Mercury
Coal Fired Boiler Stack	Method 5@320F	Filterable Particulate
Coal Fired Boiler Stack	Method 6C	Sulfur Dioxide
Coal Fired Boiler Stack	PST Hg to PS12B	Mercury
Coal Fired Boiler Stack	PST SO2 to PS2	Sulfur Dioxide

Record: 1 of 5 No Filter

2b. Please select the Emissions Units

Location	Method	Unit
Coal Fired Boiler Stack	Method 30B	ug/m3
Coal Fired Boiler Stack	Method 5@320F	gr
Coal Fired Boiler Stack	Method 5@320F	lb/yr

Record: 1 of 5 No Filter Search

Select Method and Compounds for Location

Select Location - Method:

Available:

- grains/dscf
- grains/dscf corrected
- gram/hr
- gram/minute
- gram/sec
- kg/day
- kg/hr
- kg/year
- lb/cf NG
- lb/day
- lb/hr
- lb/million BTU
- lb/minute
- lb/MMBTU
- lb/MMBTU using CO2
- lb/MMBTU using O2
- lb/TBTU
- lb/TBTU using CO2
- lb/TBTU using O2
- lb/year
- mg/acm
- mg/acm@160C

Selected: 0 Corrected %

Hold Ctrl or Shift to select multiple records

Exit Save Selected Items

Tip #2

- a. Number of Characters
- b. Types of Characters
- c. Required Characters
- d. Required Formats
- e. Long Number Strings
- f. Get Help about Source
- g. Load Designation
- h. Up/Down Stream
- i. Decide Outcomes
- j. Help with Units

ERT Package *
Name: xyz-24-osage ok-comp 1-B5-ERT

Test Plan Date*
2/23/2024

Open Expanded

Facility/Tester

Permit/SCC

Locations/Methods

Regulations

Process/APCD

Methods cont.

Audit/Calibrations

Schedule

Reviewers

Attach.

AttachDesc	
Source/Process Flow Diagram	📎(0)
Alternate Method Request and Approval (Item 8) (optional)	📎(0)
EPA Method 1Location Supporting Documentation (Item 9) (option	📎(0)
Cyclonic Flow Absence Supporting Documentation (Item 10)	📎(0)
Pre-Test Meter Boxes/DGMs Calibrations	📎(0)
Post-Test Meter Boxes/DGMs Calibrations	📎(0)
Nozzles Calibrations	📎(0)
Pitots Calibrations	📎(0)
Thermocouples Calibrations	📎(0)
Sampling Locations Dimensions and Point Locations	📎(0)
Run Field Data Sheets (raw data sheets for field sampling)	📎(0)
Moisture Recovery	📎(0)
Lab Data (raw data sheets for field and laboratory analysis)	📎(0)
Chain-of-Custody	📎(0)
Observer Comments	📎(0)
Documentation of competence as an AETB and QI for stationary so	📎(0)
Laboratory Accreditation Certification	📎(0)

Record: 1 of 33

No Filter

Search

To add or view an attachment:

- double click on the "paper clip" symbol
- select "add" to add a file
- select "view" to view a file

Note: Effective October 31, 2016

To add more attachment items, enter the description of the attachment in the bottom row of the attachdesc column. Then add your attachment.

Tips to reduce the PDF file size:

- Create PDF directly from application,
- Attach individual components not compiled material
- Use descriptive file names (i.e. M29-field-data_11-11-11.pdf)
- Attach compressed image files (JPG, GIF, PNG) or CGM
- Scan paper documents at 200 dpi

Tip #2

- a. Number of Characters
- b. Types of Characters
- c. Required Characters
- d. Required Formats
- e. Long Number Strings
- f. Get Help about Source
- g. Load Designation
- h. Up/Down Stream
- i. Decide Outcomes
- j. Help with Units
- k. Report Content

ERT Package *
Name: xyz-24-osage ok-comp 1-B5-ERT

Test Plan Date*
2/23/2024

Open Expanded

Facility/Tester Permit/SCC Locations/Methods Regulations Process/APCD Methods cont. Audit/Calibrations Schedule Reviewers Attach.

AttachDesc	
Source/Process Flow Diagram	📎(0)
Alternate Method Request and Approval (Item 8) (optional)	📎(0)
EPA Method 1Location Supporting Documentation (Item 9) (option	📎(0)
Cyclonic Flow Absence Supporting Documentation (Item 10)	📎(0)
Pre-Test Meter Boxes/DGMs Calibrations	📎(0)
Post-Test Meter Boxes/DGMs Calibrations	📎(0)
Nozzles Calibrations	📎(0)
Pitots Calibrations	📎(0)
Thermocouples Calibrations	📎(0)
Sampling Locations Dimensions and Point Locations	📎(0)
Method 529/521 data and all supporting information	📎(0)
Full Test Report (optional)	📎(3)
Preparation for standards	📎(0)
Example calculations for reported results	📎(0)
PS 12B Facility mercury lab data including QA/QC (as required by 60	📎(0)
Correspondence	📎(0)
Monitoring Plan	📎(0)
Certification, Recertification and QA Test Reporting Requirements	📎(0)
Reporting Requirements for diluent Gas, flow Rate and Moisture M	📎(0)

- double click on the "paper clip" symbol

- select "add" to add a file

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Tip #2

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ERT - Main Menu

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Supporting Documentation

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Wood Heaters

Wood Heater
Application

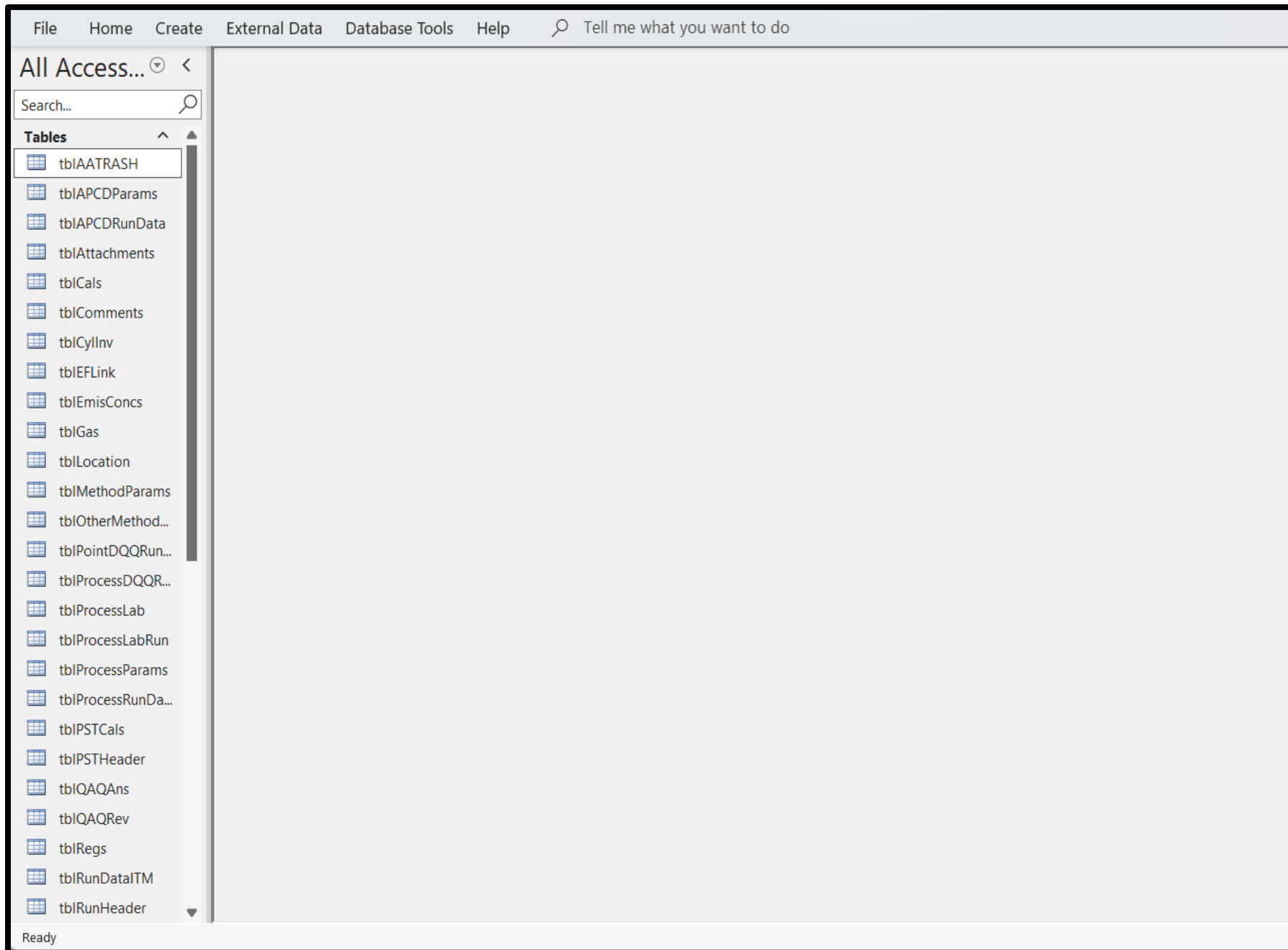
Wood Heater
Lab Data Entry

Wood Heater
Summary Tables

Wood Heater
Checklist

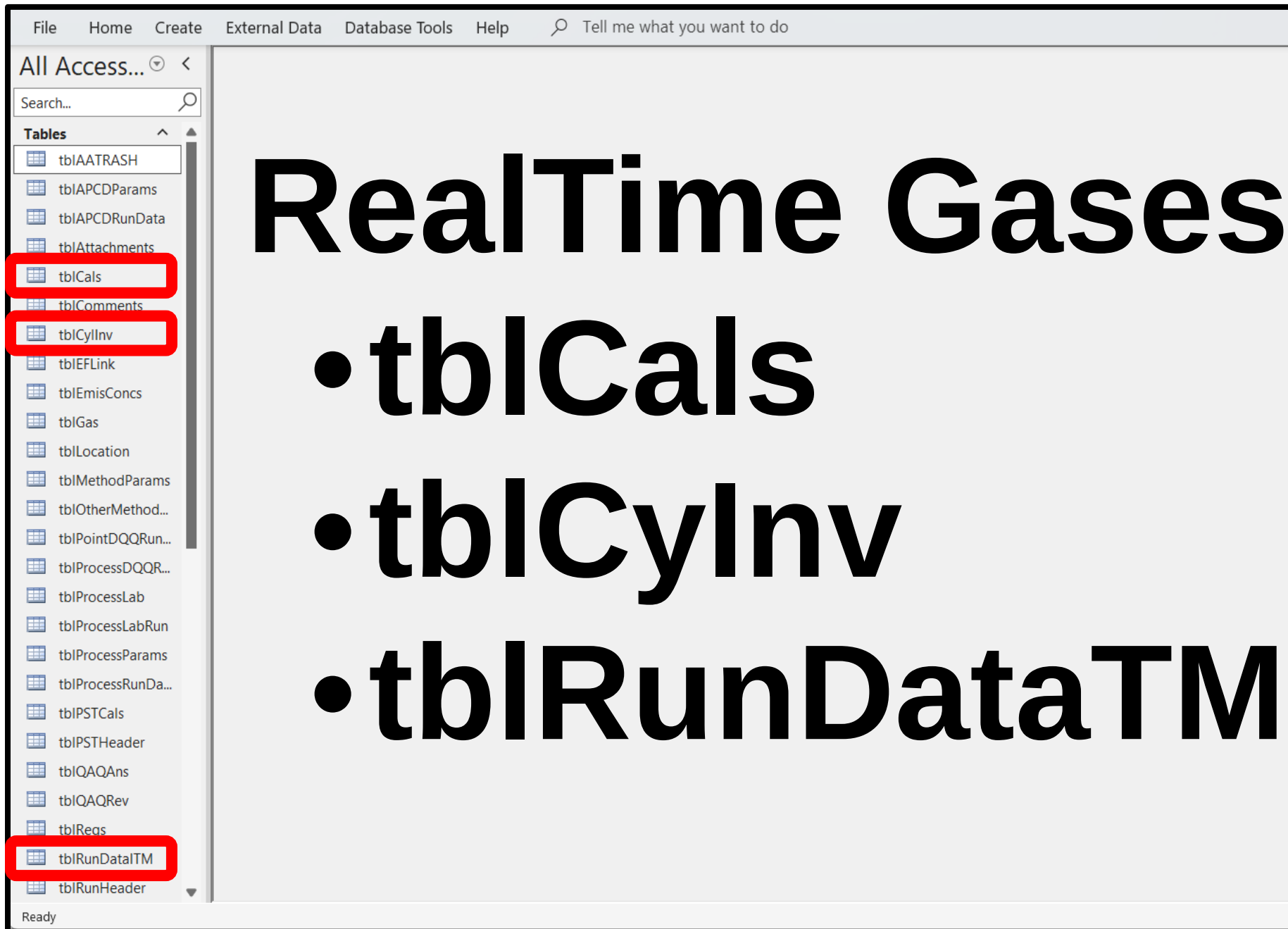
Wood Heater Attachments
Checklist

Testing – Data TRICKS



Tricks

a. Direct Input



Tricks

- a. Direct Input
- b. Three Target Tables

tblCals

Location	Method	Set	Span	DZCylID	DZRV	DZError	DLCylID	DLRV	DIError
CPW-B	Method 10	10	1500	0 N2 [RR03114]	-0.01	0.00			
CPW-B	Method 25A	25	125	0 N2 [RR03114]	-0.28	-0.22	L Prop [EB00148	39.26	-0.59
CPW-B	Method 3A CO2	30	18.82	0 N2 [RR03114]	-0.02	-0.11			
CPW-B	Method 3A O2	3	21.02	0 N2 [RR03114]	0	0.00			
CPW-B	Method 7E	7	750	0 N2 [RR03114]	0.14	0.02			

All Access...

Search...

Tables

tblAATRASH
tblIAPCDParams
tblIAPCDRunData
tblAttachments
tblCals
tblComments
tblCylInv
tblIEFLink
tblEmisConcs
tblGas
tblLocation
tblMethodParams
tblOtherMethod...

DMCylID	DMRV	DLError	DHCylID	DHRV	DHError	SZCylID	SZRV
M CO [EB00444	750.41	0.03	H CO [EB00444	1509.67	0.64	0 N2 [RR03114]	-0
M Prop [EB0014	63.95	-0.84	H Prop [EB0014	101.24	0.99	0 N2 [RR03114]	0
M CO2 [EB0090	8.92	-0.16	H CO2 [CC7236	18.77	-0.27	0 N2 [RR03114]	-0
M O2 [EB00900	12.05	0.33	H O2 [CC72364	21.08	0.29	0 N2 [RR03114]	-0
M NOx [EB0044	373.13	-0.25	H NOx [EB0044	750.69	0.09	0 N2 [RR03114]	-0

CylID	Compound(Analyte	CertProcedure	CertValu	UncertainPercen	CertDate	ExpDate
H NOx [EB0044444]	NOx	EPA G1	750	30	11/1/2021	11/17/2029
M NOx [EB0044444]	NOx	EPA G1	375	30	11/1/2021	11/17/2029

Tricks

- Direct Input
- Three Target Tables

Select Run: Method 7E - 1 Change Run Number Change Run Date

Method Setup Calibrations ITM Run Results Emissions

Direct and System Calibrations:

Calibration Set:	Gas Label	Cylinder ID	Cert. Value	Response	Error %	Certification	Date Of Expiration
☒ Direct ☐ Span 750	Zero	0 N2 [RR03114]	0	0.14	0.02	7/21/2025	7/19/2033
	Low						
	Mid	M NOx [EB00444]	375	373.13	-0.25	11/19/2021	11/17/2029
	High	H NOx [EB00444]	750	750.69	0.09	11/19/2021	11/17/2029
System	Zero	0 N2 [RR03114]	0	-0.14	-0.04	7/21/2025	7/19/2033
	Upscale	H NOx [EB00444]	750	751.62	0.12	11/19/2021	11/17/2029

Tricks

- a. Direct Input
- b. Three Target Tables

NOx Span (ppm) = 750.00						
THERMO 42 series (NOx Analyzer)						
Certified Concentration (ppm)	Instrument Response (ppm)	Cylinder Number	Expiration Date	Calibration Error (%)	Absolute Conc. (ppm)	Pass (±2%, ≤0.5ppm)
0.00	0.14	RR03114	07/19/2033	0.02	0.14	YES (%)
375.00	373.13	EB0044444	11/17/2029	-0.25	1.87	YES (%)
750.00	750.69	EB0044444	11/17/2029	0.09	0.69	YES (%)
Linearity = 0.999						

RAW AVERAGE		0.00	91.16
		O	NOx
Serial Number:		INST-22-OO07	INST-NX-0027
		(%)	(ppmvd)
Bias	Initial Zero	-0.02	-0.14
	Final Zero	-0.03	1.19
	Avg. Zero	-0.03	0.53
	Initial UpScale	11.87	751.62
	Final UpScale	11.84	747.31
	Avg. UpScale	11.86	749.47
Upscale Cal Gas		11.98	750.00

Tricks

- a. Direct Input
- b. Three Target Tables

NOx Span (ppm) = 750.00						
THERMO 42 series NOx Analyzer)						
Certified Concentration (ppm)	Instrument Response (ppm)	Cylinder Number	Expiration Date	Calibration Error (%)	Absolute Conc. (ppm)	Pass (±2%, ≤0.5ppm)
0.00	0.14	RR03114	07/19/2033	0.02	0.14	YES (%)
375.00	373.13	EB0044444	11/17/2029	-0.25	1.87	YES (%)
750.00	750.69	EB0044444	11/17/2029	0.09	0.69	YES (%)
Linearity = 0.999						

RAW AVERAGE		0.00	91.16
		O	NOx
Serial Number:		INST-22-0007	INST-NX-0027
		(%)	(ppmvd)
Bias	Initial Zero	-0.02	-0.14
	Final Zero	-0.03	1.19
	Avg. Zero	-0.03	0.53
	Initial UpScale	11.87	751.62
	Final UpScale	11.84	747.31
	Avg. UpScale	11.86	749.47
Upscale Cal Gas		11.98	750.00

Select Run: Method 7E - 1 Change Run Number Change Run Date

Method Setup Calibrations ITM Run Results Emissions

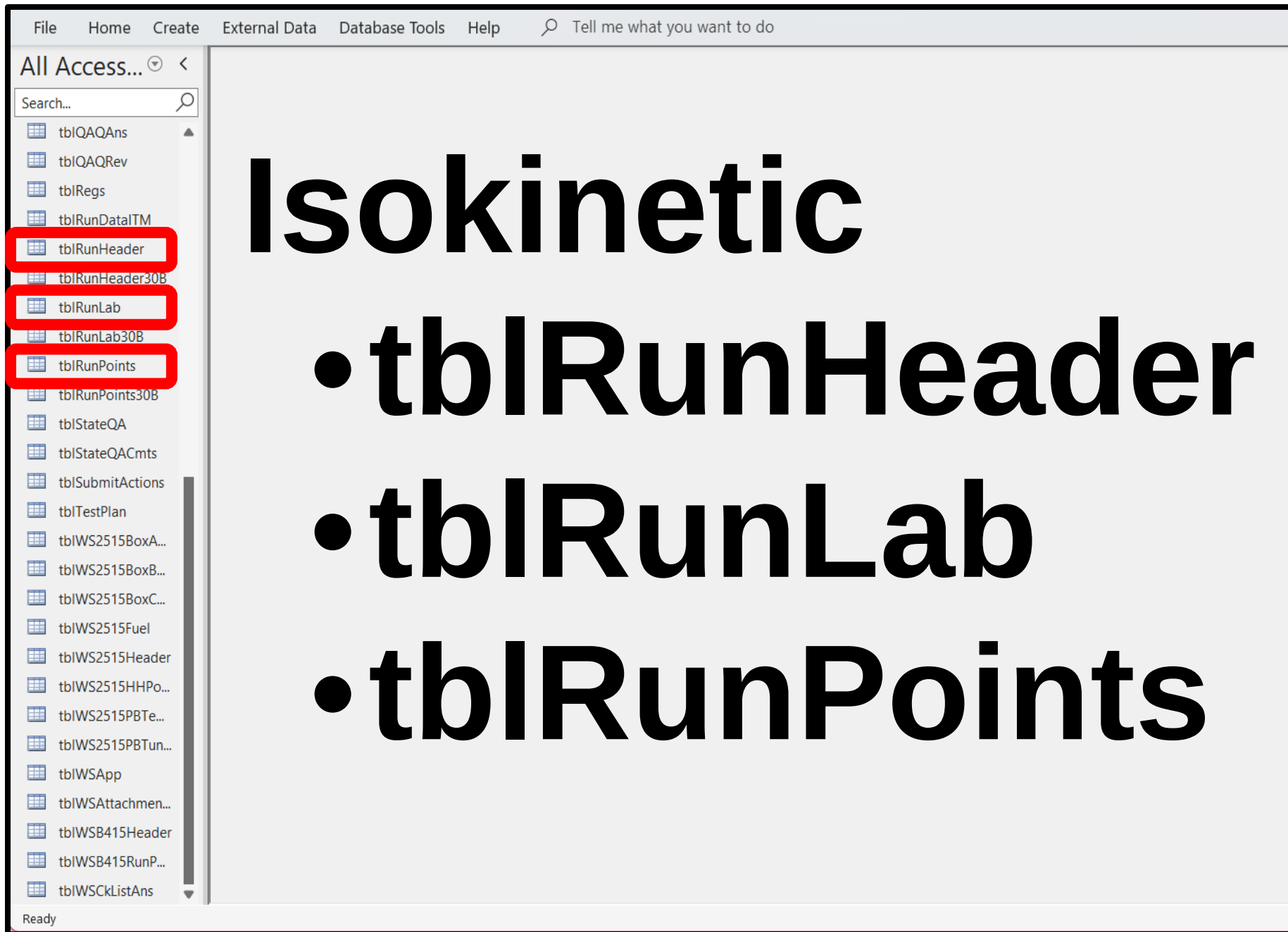
Direct and System Calibrations:

Calibration Set:	Gas Label	Cylinder ID	Cert. Value	Response	Error %	Certification	Date Of Expiration
☒ Direct	Zero	0 N2 [RR03114] ▾	0	0.14	0.02	7/21/2025	7/19/2033
☐ Span 750	Low	▾					
	Mid	M NOx [EB0044] ▾	375	373.13	-0.25	11/19/2021	11/17/2029
	High	H NOx [EB0044] ▾	750	750.69	0.09	11/19/2021	11/17/2029
☐ System	Zero	0 N2 [RR03114] ▾	0	-0.14	-0.04	7/21/2025	7/19/2033
	Upscale	H NOx [EB0044] ▾	750	751.62	0.12	11/19/2021	11/17/2029

Tricks

- a. Direct Input
- b. Three Target Tables
- c. Double Checks

Tip #4
[F9]



Tricks

- a. Direct Input
- b. Three Target Tables
- c. Double Checks

ERT Field and Header Data Import Spreadsheets and XML Schema

Who should use this spreadsheet or XML schema?

Companies that perform stationary source emissions tests using test methods that are supported by ERT such as US EPA Methods 1 through 5 or EPA Method 30B should consider using the following spreadsheets/schema. These tests require the measurement and documentation of different parameters at multiple points across each emission measurement location. Some companies document this information in spreadsheets that they have programmed to assist them in calculating proper equipment operation(s) and preparation of that information for a test report. Other companies have sampling equipment with electronic sensors, controls, and software programs to perform much of the data collection and documentation. The equipment used by the latter individuals export the collected information in a variety of formats for calculations and report preparation.

There are 5 Import spreadsheets:

- 1.  [Isokinetic Methods Import Sheet \(xltm\)](#)
- 2.  [Instrumental Methods Import Spreadsheet v4 \(xltm\)](#)
- 3.  [Method 30B import template \(xltm\)](#),
- 4.  [Miscellaneous Methods Import sheet \(xltm\)](#) (72.16 KB)
- 5.  [Wood heater method ASTM 2515 import sheetv2 \(xltm\)](#)

Tricks

- a. Direct Input
- b. Three Target Tables
- c. Double Checks
- d. EPA Equivalent

- a. Direct Input
- b. Three Target Tables
- c. Double Checks
- d. EPA Equivalent

Plant:										Optional Fields						
Sampling Location:										Method:		Checks		Pre	Mid	Post
Run No.:		Testing Operator:		Run Date:		Job Number:		Equipment Identification		Vacuum (in Hg):						
Dry Gas Meter ID:		Calibration		Leak Check Total Volume (ft ³):				Leak Rate (cfm):								
Reagent Box ID:		Meter Box Correction Factor, Y:		Pitot (Yes/No):		Yes		Yes								
Unbilled Line ID:		Meter Box pressure differential, ΔH@ (in H ₂ O):		Nozzle (Yes/No):		Yes		Yes								
Stack Thermocouple ID:		Pitot tube coefficient, C _p :		Stack Thermocouple (Yes/No):		Yes		Yes								
Tedlar Bag IDs:		Nozzle diameter, D _n (in):														
Orsat Pump ID:		Moisture in: gm H ₂ O		Initial		Final		Micro-manometer Used (Y/N)?		No						
Probe / Pitot ID:		Ambient Conditions		Impinger 1:				Sensitivity (in. H ₂ O)								
Nozzle ID:		Pbar (in. Hg):		Impinger 2:												
		Temperature (°F):		Impinger 3:												
Filters		Pg (in. H ₂ O):		Impinger 4:												
Filter No. 1 ID:		Concentrations		Impinger 5:												
Filter No. 2 ID:		O ₂ Concentration (%):		Impinger 6:												
Filter No. 3 ID:		CO ₂ Concentration (%):		Silica Gel. (gm):				Impinger Water Weight (g), Vlc:								

Run Data Details

Facility: XYZ Steam Electric Station

Open Expanded

Permitted Source ID/Description: B5 Boiler 5

Select Location - Method: Coal Fired Boiler Stack - Method 5@320F

Add New Run Data

Delete Run Data

Select Run: Method 5@320F - 1

Change Run Number

Change Run Date

Method Setup

Header Data

Point Data

Lab Data

Sampling/Stack Data Results

Cyclone Cut Size

Emissions

Method: Method 5@320F

RunNumber: 1

RunDate: 4/19/2024

Equipment ID

Dry Gas Meter: samp-cp-0016

Control Console: samp-bh-0039

Umbilical:

StackTC: samp-hp-0098

TedlarBag:

OrsatPump: samp-cp-0016

Probe/Pitot: samp-hp-0098/A

Nozzle: G8M

Calibration

Y: * 0.957

DH@: * 1.881

Cp: * 0.836

Dn (in): * 0.235

Ambient

Pb (in Hg): * 24.3

Pstatic (in H2O) * -0.62

Temperature: 0

Concentrations (run ID if used)

% CO2: * 13.76 - User Entered -

% O2: * 5.26 - User Entered -

Defaults

tstd * 68

Pstd * 29.92

% CO 0

Checks

Pre

Mid

Post

Vacuum: 15 15

Leak Check Total Volume: * 0

Leak Rate: 0 0

Pitot: Yes Yes Yes

Nozzle: Yes Yes Yes

Stack TC: Yes Yes Yes

Vlc: * 291.02 Vlc Components

Micromanometer ID: No

Sensitivity:

Fuel Type: Override

Fd 0 Fw 0 Fc 1800

Filters

FilterNum1: 2803

FilterNum2:

FilterNum3:

Tricks

- Direct Input
- Three Target Tables
- Double Checks
- EPA Equivalent

File Home Create External Data Database Tools Help **Table Fields** Table Tell me what you want to do

All Access Objects <

Search...

tblRunHeader

YHDR	DH@HDR	CpHDR	DnHDR	PercCO2HDR	PercO2HDR	VacCkPre
0.957	1.881	0.836	0.235	13.76	5.26	15
0.957	1.881	0.836	0.235	13.83	5.21	15
0.957	1.881	0.836	0.235	13.84	5.2	15
*						0

Tricks

- a. Direct Input
- b. Three Target Tables
- c. Double Checks
- d. EPA Equivalent

File Home Create External Data Database Tools Help **Table Fields** Table Tell me what you want to do

All Access Objects <

Search...

tblRunPoints

Point	BeginTime	EndTime	Clock	GasMeter	Velocity	StackTe
A-1	0	7.5	4:15:00 PM	863.300	1	
A-1	0	7.5	9:50:00 AM	632.055	0.99	
A-2	7.5	15		639.550	1	
A-3	15	22.5		646.780	1	
A-4	22.5	30		654.125	0.75	
B-1	30	37.5		660.720	1	
B-2	37.5	45		668.000	0.99	
B-3	45	52.5		675.375	0.95	
B-4	52.5	60		682.720	0.75	
C-1	60	67.5		689.295	0.98	
C-2	67.5	75		696.700	1	
C-3	75	82.5		704.120	0.93	
C-4	82.5	90		712.450	0.74	

Facility: Open Expand

Permitted Source ID/Description:

Select Location - Method: ▼

Select Run: ▼

Add New Run Data Delete Run Data

Change Run Number Change Run Date

Method Setup | Header Data | Point Data | Lab Data | Sampling/Stack Data Results | Cyclone Cut Size | Emissions

Note: These results are only valid for Methods using PM10 and PM2.5 Cyclone Head!

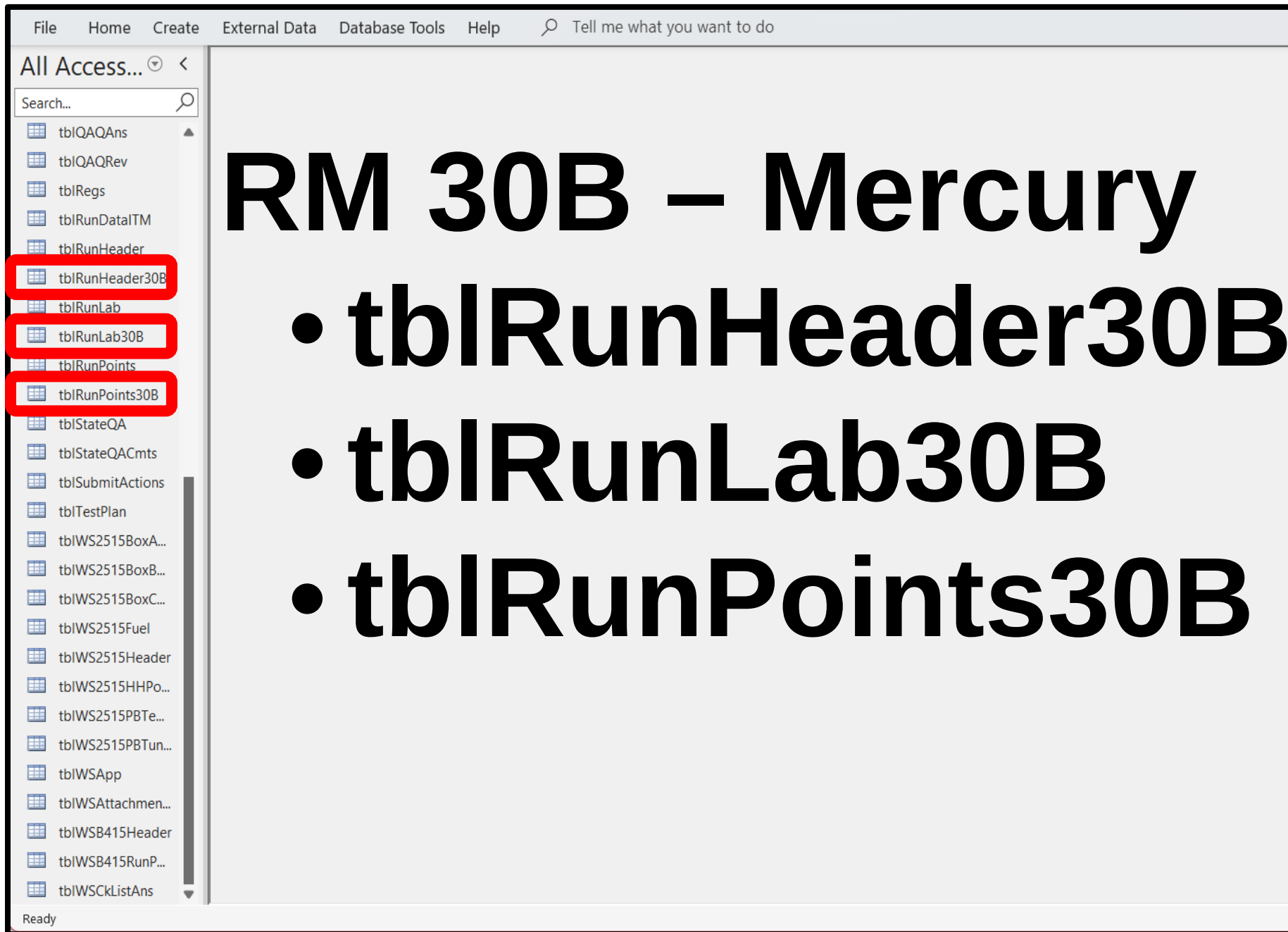
Method: RunNumber: RunDate: Show Point to Point Isokinetics

PM10-2.5 Results Calculations

u:	Stack Gas Viscosity	175.9
Qs:	Flow Rate at Cyclone Conditions, ACFM	1.145
Qsrd:	Sampling Rate at Standard Conditions, DSCFM	0.733
Nre:	Reynolds Number	6778
C:	Cunningham Correction Factor	1.180
D50_PM10:	Cut Diameter of PM10 Cyclone I, Micrometers	5.34
D50_PM2.5:	Cut Diameter of PM2.5 Cyclone IV, Micrometers	0.99

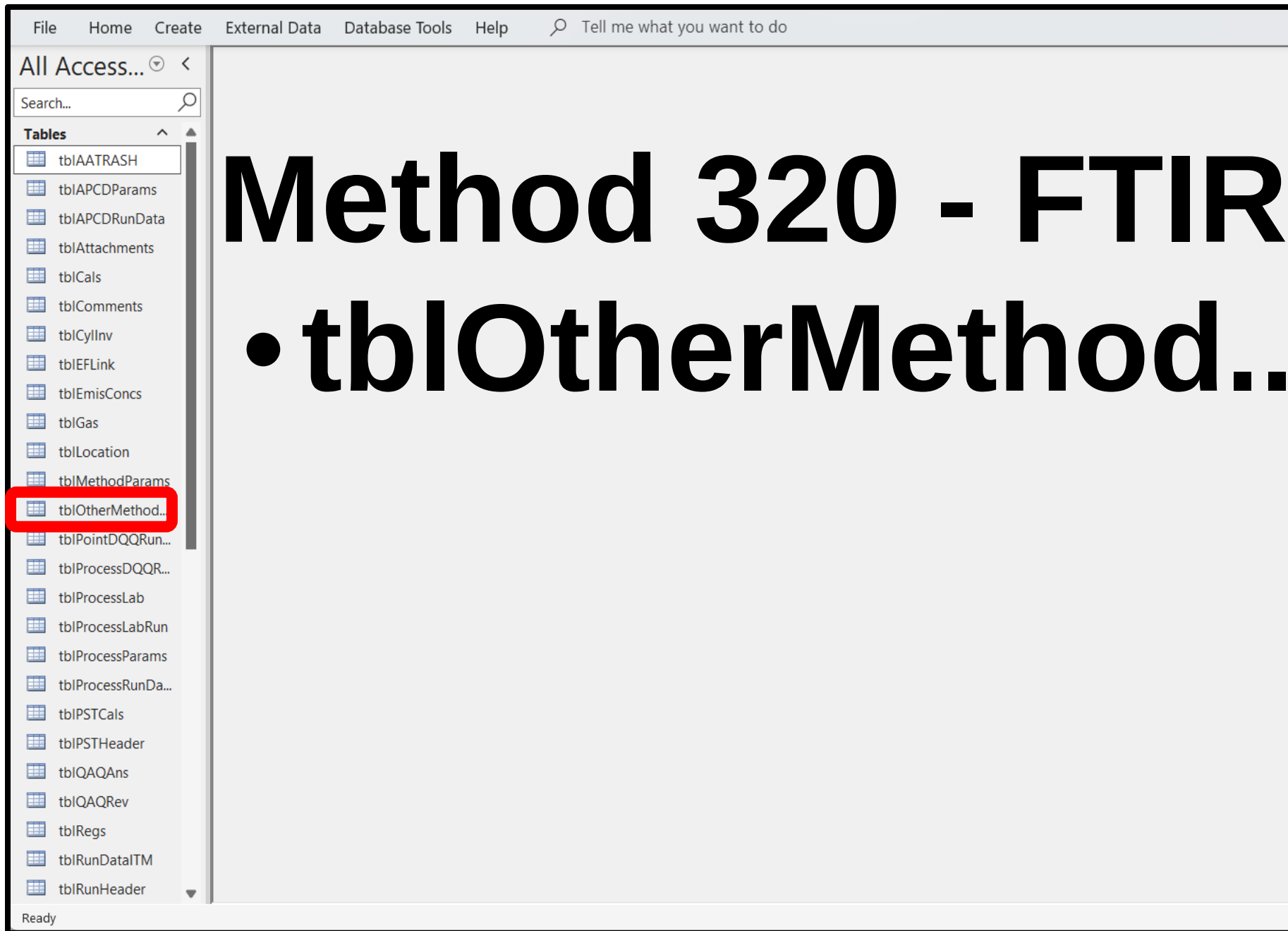
Tricks

- a. Direct Input
- b. Three Target Tables
- c. Double Checks
- d. EPA Equivalent
- e. Complex Data (201A)



Tricks

- a. Direct Input
- b. Three Target Tables
- c. Double Checks
- d. EPA Equivalent
- e. Complex Data (201A)
- f. New Data (30B)



Tricks

- a. Direct Input
- b. Three Target Tables
- c. Double Checks
- d. EPA Equivalent
- e. Complex Data (201A)
- f. New Data (30B)
- g. Tricky Data (320/DE)

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Checklist

Results – BEYOND



MONDAY



FRIDAY

Beyond

a. Consistency

Report Writing



MONDAY



FRIDAY



Beyond

- a. Consistency
- b. Crosscheck

Peer Report Review

Beyond

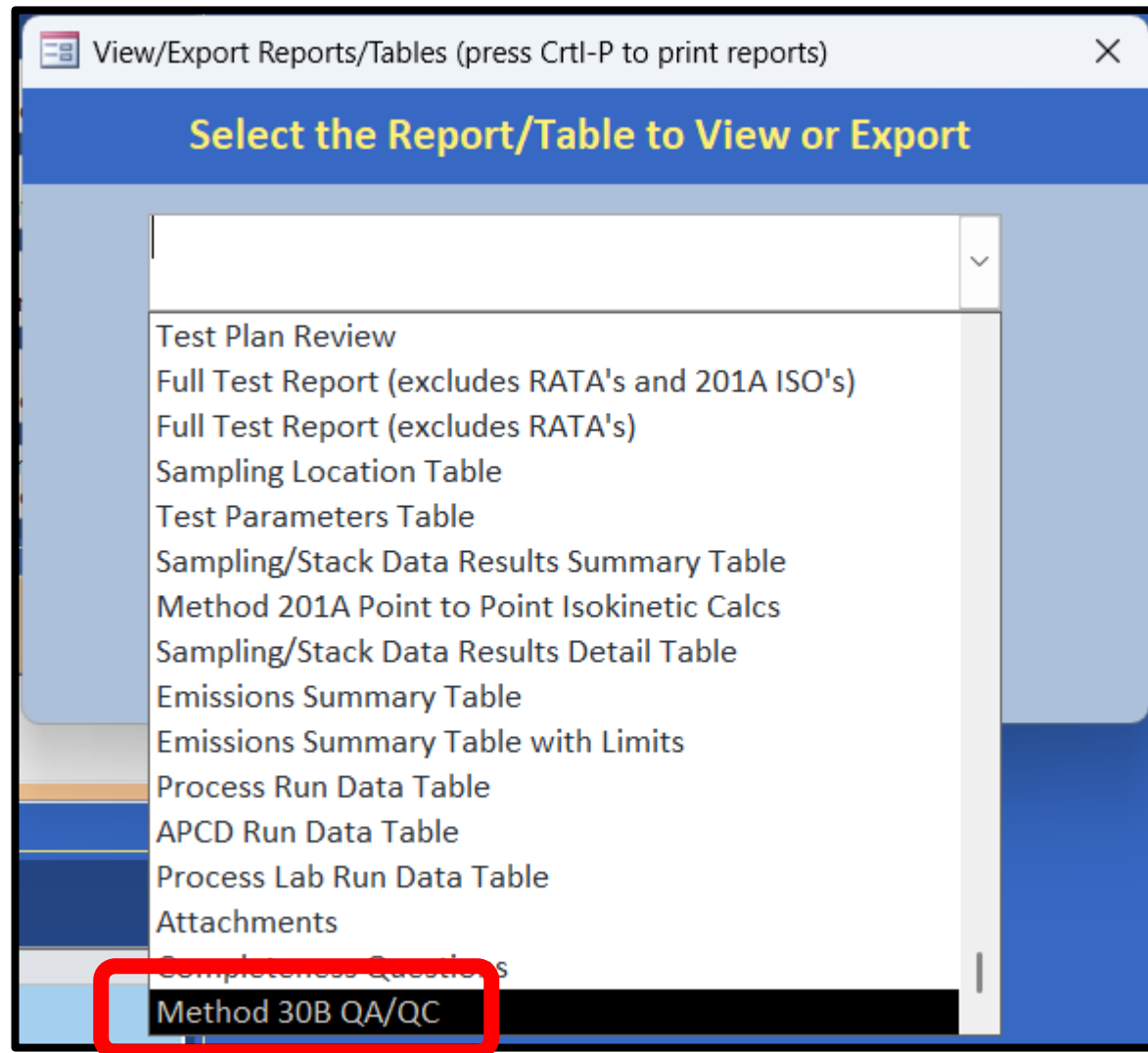
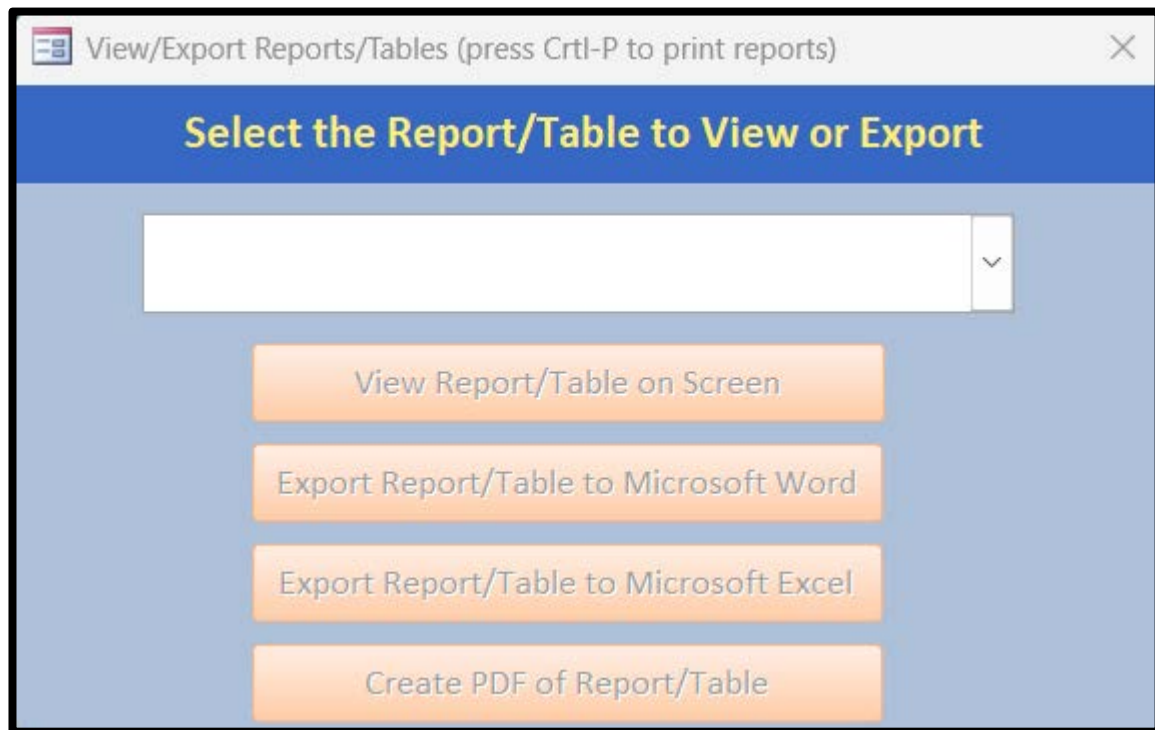
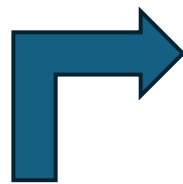
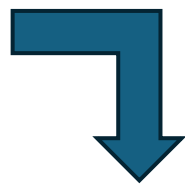
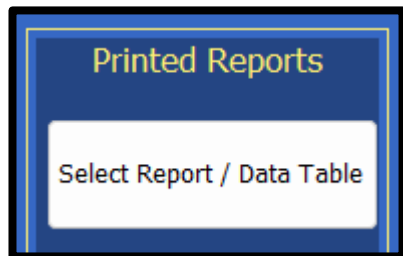
- a. Consistency
- b. Crosscheck
- c. Confidence

Compound	Unit
Carbon Monoxide	ppm
Carbon Monoxide	ppm@15%O2
Total organic compounds (TOC)	ppm@15%O2
Total organic compounds (TOC)	ppm
Oxygen	Percent(%)
Nitrogen oxides (NOx)	ppm
Nitrogen oxides (NOx)	ppm@15%O2

Run1	Run2	Run3	Run Average	RegLimit
4.05E+02	3.95E+02	4.05E+02	4.02E+02	
1.71E+02	1.67E+02	1.72E+02	1.70E+02	540
1.27E+00	1.12E+00	9.11E-01	1.10E+00	86
3.01E+00	2.65E+00	2.15E+00	2.60E+00	
6.93E+00	6.95E+00	6.97E+00	6.95E+00	
2.75E+02	2.69E+02	2.65E+02	2.70E+02	
1.16E+02	1.14E+02	1.12E+02	1.14E+02	160

Emission Test Results			
Pollutant (units)	Stack Test Results	Federal Limits	Passing
O ₂ (%)	6.95	--	--
NOx (ppmvd)	269.56	--	--
CO (ppmvd)	401.92	--	--
VOC (as C ₃ H ₆) (ppmvd)	2.61	--	--
NOx (ppmvd@15%O ₂)	113.98	160.00	YES
CO (ppmvd@15%O ₂)	169.96	540.00	YES
VOC (as C ₃ H ₆) (ppmvd@15%O ₂)	1.10	86.00	YES
All testing conducted according to United States Environmental Protection Agency (EPA), Methods: 1, 3a, 4, 7e, 10, 19 and 18/25a.			

ERT Report Comparison



ERT Report QA

Beyond

- a. Consistency
- b. Crosscheck
- c. Confidence
- d. Coaching

Compound	Unit
Carbon Monoxide	ppm
Carbon Monoxide	ppm@15%O2
Total organic compounds (TOC)	ppm@15%O2
Total organic compounds (TOC)	ppm
Oxygen	Percent(%)
Nitrogen oxides (NOx)	ppm
Nitrogen oxides (NOx)	ppm@15%O2

Run1	Run2	Run3	Run Average	RegLimit
4.05E+02	3.95E+02	4.05E+02	4.02E+02	
1.71E+02	1.67E+02	1.72E+02	1.70E+02	540
1.27E+00	1.12E+00	9.11E-01	1.10E+00	86
3.01E+00	2.65E+00	2.15E+00	2.60E+00	
6.93E+00	6.95E+00	6.97E+00	6.95E+00	
2.75E+02	2.69E+02	2.65E+02	2.70E+02	
1.16E+02	1.14E+02	1.12E+02	1.14E+02	160

Emission Test Results			
Pollutant (units)	Stack Test Results	Federal Limits	Passing
O ₂ (%)	6.95	--	--
NOx (ppmvd)	269.56	--	--
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NOx (ppmvd@15%O ₂)	113.98	160.00	YES
CO (ppmvd@15%O ₂)	169.96	540.00	YES
VOC (as C ₃ H ₆) (ppmvd@15%O ₂)	1.10	86.00	YES
All testing conducted according to United States Environmental Protection Agency (EPA), Methods: 1, 3a, 4, 7e, 10, 19 and 18/25a.			

ERT Report Creation

***Thank
You!***

Beyond

- a. Consistency**
- b. Crosscheck**
- c. Confidence**
- d. Coaching**
- e. Cultivating**