

Revision History for W305170 Method EPA 8270E PAH.

Compiled Marcy 14, 2024

Richard Fox

Thirty three quartz filters were received at RJ Lee Laboratory on May 23, 2024.

The work order, sample summary and chain of custody for the samples are as follows.

WORK ORDER				Printed: 5/23/2023 4:15:40PM														
W305170																		
RJ Lee Group Inc																		
Client: Kansas State University		Project Manager: L. Joe Sears																
Project: Air Sampling		Project Number: KSU Institute for Env Research																
COC #: PAH		PO #: 2022004-20-FAA-1		SDG Number:														
<u>Report To:</u>		<u>Invoice To:</u>																
Kansas State University		Kansas State University																
Byron Jones		Accounts Payable																
245 Levee Drive		245 Levee Drive																
Manhattan, KS 66502		Manhattan, KS 66502																
Phone: (785) 410-0625		Phone: (602) 359-7868																
Fax:		Fax:																
<hr/>																		
Date Due:	7/7/2023 (30 day TAT)																	
Received By:	JJ Furlong	Date Received:	05/23/23 10:45															
Logged In By:	JJ Furlong	Date Logged In:	05/23/23 13:55															
<table border="1"> <tr> <td>Samples Received at:</td> <td>15.1°C</td> </tr> <tr> <td>Custody Seals</td> <td>No</td> </tr> <tr> <td>Containers Intact</td> <td>Yes</td> </tr> <tr> <td>COC/Labels Agree</td> <td>Yes</td> </tr> <tr> <td>Preservation Confirmed</td> <td>No</td> </tr> <tr> <td>Received On Ice</td> <td>Yes</td> </tr> </table>							Samples Received at:	15.1°C	Custody Seals	No	Containers Intact	Yes	COC/Labels Agree	Yes	Preservation Confirmed	No	Received On Ice	Yes
Samples Received at:	15.1°C																	
Custody Seals	No																	
Containers Intact	Yes																	
COC/Labels Agree	Yes																	
Preservation Confirmed	No																	
Received On Ice	Yes																	
RJLG ID	Sample Name	Analysis	Matrix	Date Sampled	TAT	Date Due												
W305170-01	Shipping Blank 1	TO-13	Air/Emissions w/ V	5/15/2023	30	7/7/2023												
W305170-02	Field Blank - Ambient 6	TO-13	Air/Emissions w/ V	5/15/2023	30	7/7/2023												
W305170-03	Field Blank - Ozone In 7	TO-13	Air/Emissions w/ V	5/15/2023	30	7/7/2023												
W305170-04	Field Blank - Ozone Out 8	TO-13	Air/Emissions w/ V	5/15/2023	30	7/7/2023												
W305170-05	Field Blank - Coalescer 9	TO-13	Air/Emissions w/ V	5/15/2023	30	7/7/2023												
W305170-06	Baseline - Ambient 2	TO-13 Comments: 252.1365 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023												
W305170-07	Baseline - Ozone In 3	TO-13 Comments: 332.1404 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023												
W305170-08	Baseline - Ozone Out 4	TO-13 Comments: 332.1404 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023												
W305170-09	Baseline - Coalescer 5	TO-13 Comments: 298.715 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023												

WORK ORDER

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W305170

RJ Lee Group Inc

Client: Kansas State University	Project Manager: L. Joe Sears
Project: Air Sampling	Project Number: KSU Institute for Env Research
COC #: PAH	SDG Number:
PO #: 2022004-20-FAA-1	

RJLG ID	Sample Name	Analysis	Matrix	Date Sampled	TAT	Date Due
W305170-10	MJ-II - 5 ppm - APU - Ambient 10	TO-13 Comments: 130.27 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305170-11	MJ-II - 5 ppm - APU - Ozone In 11	TO-13 Comments: 228.413 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305170-12	MJ-II - 5 ppm - APU - Ozone Out 12	TO-13 Comments: 249.178 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305170-13	MJ-II - 5 ppm - APU - Coalescer 13	TO-13 Comments: 158.217 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305170-14	Field Blank 14	TO-13	Air/Emissions w/ V	5/16/2023	30	7/7/2023
W305170-15	Baseline - 300 C - Ozone In 15	TO-13	Air/Emissions w/ V	5/16/2023	30	7/7/2023
W305170-16	Baseline - 300 C - Ozone Out 16	TO-13	Air/Emissions w/ V	5/16/2023	30	7/7/2023
W305170-17	Baseline - 300 C - Coalescer 17	TO-13	Air/Emissions w/ V	5/16/2023	30	7/7/2023
W305170-18	MJ-II - 300 C - Ozone In 18	TO-13	Air/Emissions w/ V	5/16/2023	30	7/7/2023
W305170-19	MJ-II - 300 C - Coalescer 19	TO-13	Air/Emissions w/ V	5/16/2023	30	7/7/2023
W305170-20	Field Blank 20	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023
W305170-21	Baseline - 300 C - Ozone In 21	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023
W305170-22	Baseline - 300 C - Ozone Out 22	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023
W305170-23	Baseline - 300 C - Coalescer 23	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023
W305170-24	2197 - 300 C - Ozone In 24	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023

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Client: Kansas State University			Project Manager: L. Joe Sears			
Project: Air Sampling			Project Number: KSU Institute for Env Research			
COC #: PAH			SDG Number:			
PO #: 2022004-20-FAA-1						
RJLG ID	Sample Name	Analysis	Matrix	Date Sampled	TAT	Date Due
W305170-25	2197 - 300 C - Ozone Out 25	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023
W305170-26	2197 - 300 C - Coalescer 26	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023
W305170-27	Field Blank 27	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023
W305170-28	Baseline - 220C - Ozone In 28	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023
W305170-29	Baseline - 220C - Ozone Out 29	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023
W305170-30	Baseline - 220C - Coalescer 30	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023
W305170-31	Skydrol - 220C - Ozone In 31	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023
W305170-32	Skydrol - 220C - Ozone Out 32	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023
W305170-33	Skydrol - 220C - Coalescer 33	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023

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ATTENTION TO: Joe Jones					
Lab Use Only Project No: Date Logged In: Temperature Upon Receipt (Chain Only) 		Client Name: Name: Address: City, State, Zip: Phone: Fax:			
Report Results To: Email Results To: 		If a hard copy of invoice is needed, check here. <input type="checkbox"/>			
Invoice To Company: Address: City, State, Zip: Phone: Fax:		Email: 			
Special Instructions					
Shipping Blank					
Field Blank - Ambient	Sample #	Sample Collection Date	Sample Collection Time	Total Volume Collected (specify units)	Air Volumes (specify units)
Field Blank - Ozona In	7	May 15th 2023	N/A	N/A	N/A
Field Blank - Ozona Out	8	May 15th 2023	N/A	N/A	N/A
Field Blank - Coalcoaster	9	May 15th 2023	N/A	N/A	N/A
Baseline - Ambient	2	May 15th 2023	15:34	20 min	332, 1365 L
Baseline - Ozona In	3	May 15th 2023	15:37	20 min	332, 1404 L
Baseline - Ozona Out	4	May 15th 2023	15:37	20 min	332, 1404 L
Baseline - Coalcoaster	5	May 15th 2023	15:36	20 min	288, 715 L
MJ-II - 5 ppm - APU - Ambient	10	May 15th 2023	17:37	10 min	130, 27 L
MJ-II - 5 ppm - APU - Ozona In	11	May 15th 2023	17:38	11 min	228, 413 L
MJ-II - 5 ppm - APU - Ozona Out	12	May 15th 2023	17:38	12 min	249, 178 L
MJ-II - 5 ppm - APU - Coalcoaster	13	May 15th 2023	17:38	13 min	156, 217 L
Chain of Custody	Relinquished By (Signature): J.P.S./E.T.				Date: May 16, 2023 Time: 09:00
Chain of Custody	Relinquished By (Print Name): STEPHANIE LIGHT				Relinquished To: CHAD BAKER Method of Shipment:
Chain of Custody	Relinquished By (Signature): [Signature]				Date: _____
Chain of Custody	Relinquished By (Print Name): Company Name:				Time: _____
Chain of Custody	Received By (Signature): [Signature]				Date: _____
Chain of Custody	Received By (Print Name): RYLEE				Date: 05/16/23 Time: 10:45

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Washington
Columbia Basin Analytical Laboratories
2710 North 20th Avenue
Pasco, WA 99301
509.545.4639 Phone
509.544.6010 Fax



41305170

ATTENTION TO: JDE Sears

Pennsylvania – HQ
350 Hochberg Road
Monroeville, PA 15146

Washington
Columbia Basin Analytical Laboratories
2710 North 20th Avenue

Washington
Columbia Basin Analytical Laboratories
2710 North 29th Avenue



RJ LEE GROUP

W305170

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Tr. No.: 2272794

Client Job No.:

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Pennsylvania - HQ 350 Mochberg Road Monroeville, PA 15146	Washington Columbia Basin Analytical Laboratories 2710 North 20th Avenue
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Washington
Columbia Basin Analytical Laboratories
2710 North 20th Avenue
Pasco, WA 98301

724.325.1776 Phone
724.733.1799 Fax509.545.4089 Phone
509.544.8010 Fax

RJ LEE GROUP
DELIVERING SCIENTIFIC RESOLUTION

May 16 th 2023	N/A	Field Blank
N/A	N/A	N/A
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 14	N/A
N/A	N/A	N/A

May 16 th 2023	5:32 pm	Ozone In
MJ-II – 300 C	Fluid Injection Rate – 5ppmW	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 18	Total Sample Volume
Sample Temp 24.4 C	Sample Duration 25 min	Sample Flow Rate

May 16 th 2023	3:20 pm	Ozone In
Baseline –300 C	Fluid Injection Rate – 0	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 15	Total Sample Volume -
Sample Temp 120.5 C	Sample Duration 25 min	Sample Flow Rate -

May 16 th 2023	5:32 pm	Coalescer
MJ-II – 300 C	Fluid Injection Rate - 5ppmW	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 19	Total Sample Volume
Sample Temp 28.7	Sample Duration 25 min	Sample Flow Rate

May 16 th 2023	3:20 pm	Ozone Out
Baseline –300 C	Fluid Injection Rate - 0	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 16	Total Sample Volume
Sample Temp 131.5 C	Sample Duration 25 min	Sample Flow Rate

May 16 th 2023	15:20	Coalescer
Baseline –300 C	Fluid Injection Rate - 0	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 17	Total Sample Volume
Sample Temp 28.6 C	Sample Duration 25 min	Sample Flow Rate

May 17 th 2023	N/A	Field Blank
N/A	N/A	N/A
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 20	N/A
N/A	N/A	N/A

May 17 th 2023	12:24	Ozone In
Eastman 2197 300 C	Fluid Injection Rate – 5 ppmW	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 24	Total Sample Volume
Sample Temp 87.8 C	Sample Duration 25 min	Sample Flow Rate

May 17 th 2023	10:28	Ozone In
Baseline 300 C	Fluid Injection Rate - 0	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 21	Total Sample Volume
Sample Temp 25.7	Sample Duration 27 min	Sample Flow Rate

May 17 th 2023	12:24	Ozone Out
Eastman 2197 300 C	Fluid Injection Rate – 5 ppmW	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 25	Total Sample Volume
Sample Temp 31.2 C	Sample Duration 25 min	Sample Flow Rate

May 17 th 2023	10:28	Ozone Out
Baseline 300 C	Fluid Injection Rate - 0	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 22	Total Sample Volume
Sample Temp 148.5	Sample Duration 27 min	Sample Flow Rate

May 17 th 2023	12:24	Coalescer
Eastman 2197 300 C	Fluid Injection Rate – 5 ppmW	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 26	Total Sample Volume
Sample Temp 31.5 C	Sample Duration 25 min	Sample Flow Rate

May 17 th 2023	10:28	Coalescer
Baseline 300 C	Fluid Injection Rate - 0	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 23	Total Sample Volume
Sample Temp 30.8	Sample Duration 27 min	Sample Flow Rate

May 18 th 2023	N/A	Field Blank
N/A	N/A	N/A
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 27	N/A
N/A	N/A	N/A

May 18 th 2023	5:07 pm	Ozone In
Skydrol 220 C	Fluid Injection Rate – 5ppmW	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 31	Total Sample Volume
Sample Temp 67.8 C	Sample Duration 20 min	Sample Flow Rate

May 18 th 2023	3:43 pm	Ozone In
Baseline 220 C	Fluid Injection Rate – 0	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 28	Total Sample Volume
Sample Temp 70.4 C	Sample Duration 15 min	Sample Flow Rate

May 18 th 2023	5:07 pm	Ozone Out
Skydrol 220 C	Fluid Injection Rate – 5 ppmW	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 32	Total Sample Volume
Sample Temp 119.6 C	Sample Duration 20 min	Sample Flow Rate

May 18 th 2023	3:43 pm	Ozone Out
Baseline 220 C	Fluid Injection Rate - 0	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 29	Total Sample Volume
Sample Temp 119.3 C	Sample Duration 15 min	Sample Flow Rate

May 18 th 2023	5:07 pm	Coalescer
Skydrol 220 C	Fluid Injection Rate – 5 ppmW	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 33	Total Sample Volume
Sample Temp 21.6 C	Sample Duration 20 min	Sample Flow Rate

May 18 th 2023	3:43 pm	Coalescer
Baseline 220 C	Fluid Injection Rate - 0	Bleed Air Exit Temp
PAHs by method TO-13A Mod. Dual 102 mm Quartz Filter	Sample # 30	Total Sample Volume
Sample Temp 19.3 C	Sample Duration 15 min	Sample Flow Rate

The original W305170 PAH report was issued on August 25, 2024. A revision to the EDD file was received on November 17, 2023.