

Revision History for W305169

March 14, 2024

Dual Quartz filter samples for US EPA TO-13 semi-volatile and Organophosphate analyses were received at RJ Lee laboratory on May 23, 2-23. Following is the work order that was received and the chain of custody for the 39 samples.

WORK ORDER

Printed: 5/23/2023 4:15:12PM

W305169

RJ Lee Group Inc

Client: Kansas State University
Project: Air Sampling
COC #: Phosphate

PO #: 2022004-20-FAA-1

Project Manager: L. Joe Sears
Project Number: KSU Institute for Env Research
SDG Number:

Report To:

Kansas State University
Byron Jones
245 Levee Drive
Manhattan, KS 66502
Phone: (785) 410-0625
Fax:

Invoice To:

Kansas State University
Accounts Payable
245 Levee Drive
Manhattan, KS 66502
Phone: (602) 359-7868
Fax:

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 13:52

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
W305169-01	Shipping Blank 2 1	TO-13	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305169-02	Field Blank - Ambient 6	TO-13	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305169-03	Field Blank - Ozone In 7	TO-13	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305169-04	Field Blank - Ozone Out 8	TO-13	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305169-05	Field Blank - Coalescer 9	TO-13	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305169-06	Baseline - Ambient 2	TO-13 Comments: 225.622 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305169-07	Baseline - Ozone In 3	TO-13 Comments: 194.876 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305169-08	Baseline - Ozone out 4	TO-13 Comments: 194.876 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305169-09	Baseline - Coalescer 5	TO-13 Comments: 283.779 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023

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RJ Lee Group Inc

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

RJLG ID	Sample Name	Analysis	Matrix	Date Sampled	TAT	Date Due
W305169-10	MJ-II - 5 ppm - APU - Ambient 10	TO-13 Comments: 149.358 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305169-11	MJ-II - 5 ppm - APU - Ozone In 11	TO-13 Comments: 194.876 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305169-12	MJ-II - 5 ppm - APU - Ozone Out 12	TO-13 Comments: 194.876 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305169-13	MJ-II - 5 ppm - APU - Coalescer 13	TO-13 Comments: 126.068 L	Air/Emissions w/ V	5/15/2023	30	7/7/2023
W305169-14	Field Blank 14	TO-13	Air/Emissions w/ V	5/16/2023	30	7/7/2023
W305169-15	Baseline - 300 C - Ozone In 15	TO-13	Air/Emissions w/ V	5/16/2023	30	7/7/2023
W305169-16	Baseline - 300 C - Ozone Out 16	TO-13	Air/Emissions w/ V	5/16/2023	30	7/7/2023
W305169-17	Baseline - 300 C - Coalescer 17	TO-13	Air/Emissions w/ V	5/16/2023	30	7/7/2023
W305169-18	MJ-II - 300 C - 5ppmW - Ozone In 18	TO-13	Air/Emissions w/ V	5/16/2023	30	7/7/2023
W305169-19	MJ-II - 300 C - 5ppmW - Coalescer 19	TO-13	Air/Emissions w/ V	5/16/2023	30	7/7/2023
W305169-20	Field Blank 20	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023
W305169-21	Baseline - 300 C - Ozone In/Ambien 21	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023
W305169-22	Baseline - 300 C - Ozone Out 22	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023
W305169-23	Baseline - 300 C - Coalescer 23	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023
W305169-24	2197 - 300 C - 5ppmW - Ozone In 24	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023

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 Project: Air Sampling
 COC #: Phosphate

PO #: 2022004-20-FAA-1

Project Manager: L. Joe Sears
 Project Number: KSU Institute for Env Research
 SDG Number:

RJLG ID	Sample Name	Analysis	Matrix	Date Sampled	TAT	Date Due
W305169-25	2197 - 300 C - 5ppmW - Ozone Out 25	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023
W305169-26	2197 - 300 C - 5ppmW - Coalescer 26	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023
W305169-27	Burnout - Ozone In 27	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023
W305169-28	Burnout - Ozone Out 28	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023
W305169-29	Burnout - Coalescer 29	TO-13	Air/Emissions w/ V	5/17/2023	30	7/7/2023
W305169-30	Field Blank 30	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023
W305169-31	MJ-II - 220 C - Ozone In 31	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023
W305169-32	MJ-II - 220 C - Ozone Out 32	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023
W305169-33	MJ-II - 220 C - Coalescer 33	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023
W305169-34	Baseline - 220C - Ozone In 34	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023
W305169-35	Baseline - 220C - Ozone Out 35	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023
W305169-36	Baseline - 220C - Coalescer 36	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023
W305169-37	Skydrol - 220C - 5ppmW - Ozone In 37	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023
W305169-38	Skydrol - 220C - 5ppmW - Ozone O 38	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023

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 Project: Air Sampling
 COC #: Phosphate

PO #: 2022004-20-FAA-1

Project Manager: L. Joe Sears
 Project Number: KSU Institute for Env Research
 SDG Number:

RJLG ID	Sample Name	Analysis	Matrix	Date Sampled	TAT	Date Due
W305169-39	Skydrol - 220C - 5ppmW - Coalescer 39	TO-13	Air/Emissions w/ V	5/18/2023	30	7/7/2023

W305169



RJ LEE GROUP
DELIVERING SCIENTIFIC RESOLUTION

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ATTENTION TO: Joe Seena										Project No.:		Client Job No.:	
Lab Use Only		Date Logged In:		Logged In By:		Therm ID No.:		Date Results Needed		Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Identification (Please list below):			
Report Results To		Name:		Company:		City, State, Zip:		Drinking Water		Sample ID #:			
To		Phone:		Fax:		Email Results To:		Sample Only		System ID #:			
Invoice To		Name:		Company:		Address:		Water		DOH Source #:			
Special Instructions		City, State, Zip:		Phone:		Fax:		Sample Purpose: A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> Other <input type="checkbox"/>		SW-Surface Water			
Client Sample ID		Sample #		Sample Collection Date		Sample Collection Time - min		Total Collection Time - min		Air Volume (Specify unit)			
Shipping Blank 2		1 -		May 15th 2023		N/A		N/A		N/A			
Field Blank - Ambient		6 -		May 15th 2023		N/A		N/A		N/A			
Field Blank - Ozone In		7 -		May 15th 2023		N/A		N/A		N/A			
Field Blank - Ozone Out		8 -		May 15th 2023		N/A		N/A		N/A			
Field Blank - Colchifer		9 -		May 15th 2023		N/A		N/A		N/A			
Baseline - Ambient		2 -		May 15th 2023		15:51		225.422 L		✓			
Baseline - Ozone In		3 -		May 15th 2023		16:02		194.470 L		✓			
Baseline - Ozone Out		4 -		May 15th 2023		16:02		10.010		194.470 L			
Baseline - Colchifer		3 -		May 15th 2023		16:53		283.779 L		✓			
MU-I - 5 ppm - APU - Ambient		10 -		May 15th 2023		17:58		10.010		194.470 L			
MU-I - 5 ppm - APU - Ozone In		11 -		May 15th 2023		17:56		10.010		194.470 L			
MU-I - 5 ppm - APU - Ozone Out		12 -		May 15th 2023		17:56		10.010		194.470 L			
MU-I - 5 ppm - APU - Colchifer		13 -		May 15th 2023		17:54		10.010		194.470 L			
Chain of Custody		Relinquished By (Signature):		Date: May 26 2023		Time: 3:00		Chain of Custody		Received By (Signature):			
Chain of Custody		Relinquished By (Print Name):		Date: May 26 2023		Time: 3:00		Chain of Custody		Received By (Print Name):			
Chain of Custody		Relinquished By (Signature):		Date: May 26 2023		Time: 3:00		Chain of Custody		Received By (Signature):			
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Chain of Custody		Relinquished By (Signature):		Date: May 26 2023		Time: 3:00		Chain of Custody		Received By (Signature):			
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Chain of Custody		Relinquished By (Signature):		Date: May 26 2023		Time: 3:00		Chain of Custody		Received By (Signature):			

Page 2 of 4

Washington
Columbia Basin Analytical Laboratories
2710 North 20th Avenue
Pasco, WA 99301
509/545-6989 Phone
509/544-6010 Fax

Request for Environmental and IH Laboratory Analytical Services

W305169

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ATTENTION TO: <u>Joe Sand</u>		Project No.: _____		Client No.: _____	
Lab Use Only		Date Logged In: _____		Logged In By: _____	
Temperature Upon Receipt (Chem Only): _____		C Therm ID No.: _____			
Name: <u>BYRON JONES</u>		Company: <u>KSU</u>		Address: _____	
City, State, Zip: _____		Phone: _____		Fax: _____	
Report Results To: <u>Joe Sand</u>		Email Results To: <u>jones@ksu.edu</u>		Fax: <u>richard@ksu.edu</u>	
Name: _____		Company: _____		Email: _____	
Address: _____		City, State, Zip: _____		Phone: _____	
Fax: _____		If a hard copy of invoice is needed, check here			
Invoice To: _____		City, State, Zip: _____		Fax: _____	
Special Instructions: _____		Client Sample ID: _____		Sample #	
		Sample Collection Date		Sample Collection Time	
		Total Collection Time - min		Air Volume (specify units)	
Field Blank		20 -		May 17th 2023	
Baseline - 300 C - Ozone In/Ambient		21 -		May 17th 2023	
Baseline - 300 C - Ozone Out		22 -		May 17th 2023	
Baseline - 300 C - Coalcooler		23 -		May 17th 2023	
2197 - 300 C - 5ppmW - Ozone In		24 -		May 17th 2023	
2197 - 300 C - 5ppmW - Ozone Out		25 -		May 17th 2023	
2197 - 300 C - 5ppmW - Coalcooler		26 -		May 17th 2023	
Burnout - Ozone In		27 -		May 17th 2023	
Burnout - Ozone Out		28 -		May 17th 2023	
Burnout - Coalcooler		29 -		May 17th 2023	
Chain of Custody		Relinquished By (Signature): <u>[Signature]</u>		Date: <u>May 24, 2023</u> Time: <u>0900</u>	
Chain of Custody		Relinquished By (Print Name): <u>STEFANIE L. LIT</u>		Method of Shipment: _____	
Chain of Custody		Relinquished By (Signature): _____		Date: _____ Time: _____	
Chain of Custody		Relinquished By (Print Name): _____		Method of Shipment: _____	
Chain of Custody		Relinquished By (Signature): _____		Date: _____ Time: _____	
Chain of Custody		Relinquished By (Print Name): _____		Method of Shipment: _____	

Data Results Needed		Drinking Water Sample Only		Chemistry Analysis Key													
Sample ID #		Sample Purposes: Information <input type="checkbox"/> Regulatory <input checked="" type="checkbox"/> Accreditation (please list below):		Sample Purposes: A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z <input type="checkbox"/> AA <input type="checkbox"/> AB <input type="checkbox"/> AC <input type="checkbox"/> AD <input type="checkbox"/> AE <input 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<input type="checkbox"/> BP <input type="checkbox"/> BQ <input type="checkbox"/> BR <input type="checkbox"/> BS <input type="checkbox"/> BT <input type="checkbox"/> BU <input type="checkbox"/> BV <input type="checkbox"/> BW <input type="checkbox"/> BX <input type="checkbox"/> BY <input type="checkbox"/> BZ <input type="checkbox"/> CA <input type="checkbox"/> CB <input type="checkbox"/> CC <input type="checkbox"/> CD <input type="checkbox"/> CE <input type="checkbox"/> CF <input type="checkbox"/> CG <input type="checkbox"/> CH <input type="checkbox"/> CI <input type="checkbox"/> CJ <input type="checkbox"/> CK <input type="checkbox"/> CL <input type="checkbox"/> CM <input type="checkbox"/> CN <input type="checkbox"/> CO <input type="checkbox"/> CP <input type="checkbox"/> CQ <input type="checkbox"/> CR <input type="checkbox"/> CS <input type="checkbox"/> CT <input type="checkbox"/> CU <input type="checkbox"/> CV <input type="checkbox"/> CW <input type="checkbox"/> CX <input 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<input type="checkbox"/> EI <input type="checkbox"/> EJ <input type="checkbox"/> EK <input type="checkbox"/> EL <input type="checkbox"/> EM <input type="checkbox"/> EN <input type="checkbox"/> EO <input type="checkbox"/> EP <input type="checkbox"/> EQ <input type="checkbox"/> ER <input type="checkbox"/> ES <input type="checkbox"/> ET <input type="checkbox"/> EU <input type="checkbox"/> EV <input type="checkbox"/> EW <input type="checkbox"/> EX <input type="checkbox"/> EY <input type="checkbox"/> EZ <input type="checkbox"/> FA <input type="checkbox"/> FB <input type="checkbox"/> FC <input type="checkbox"/> FD <input type="checkbox"/> FE <input type="checkbox"/> FF <input type="checkbox"/> FG <input type="checkbox"/> FH <input type="checkbox"/> FI <input type="checkbox"/> FJ <input type="checkbox"/> FK <input type="checkbox"/> FL <input type="checkbox"/> FM <input type="checkbox"/> FN <input type="checkbox"/> FO <input type="checkbox"/> FP <input type="checkbox"/> FQ <input 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type="checkbox"/> IL <input type="checkbox"/> IM <input type="checkbox"/> IN <input type="checkbox"/> IO <input type="checkbox"/> IP <input type="checkbox"/> IQ <input type="checkbox"/> IR <input type="checkbox"/> IS <input type="checkbox"/> IT <input type="checkbox"/> IU <input type="checkbox"/> IV <input type="checkbox"/> IW <input type="checkbox"/> IX <input type="checkbox"/> IY <input type="checkbox"/> IZ <input type="checkbox"/> JA <input type="checkbox"/> JB <input type="checkbox"/> JC <input type="checkbox"/> JD <input type="checkbox"/> JE <input type="checkbox"/> JF <input type="checkbox"/> JG <input type="checkbox"/> JH <input type="checkbox"/> JI <input type="checkbox"/> JJ <input type="checkbox"/> JK <input type="checkbox"/> JL <input type="checkbox"/> JM <input type="checkbox"/> JN <input type="checkbox"/> JO <input type="checkbox"/> JP <input type="checkbox"/> JQ <input type="checkbox"/> JR <input type="checkbox"/> JS <input type="checkbox"/> JT <input type="checkbox"/> JU <input type="checkbox"/> JV <input type="checkbox"/> JW <input type="checkbox"/> JX <input type="checkbox"/> JY <input type="checkbox"/> JZ <input type="checkbox"/> KA <input type="checkbox"/> KB <input type="checkbox"/> KC <input type="checkbox"/> KD <input type="checkbox"/> KE <input type="checkbox"/> KF <input type="checkbox"/> KG <input type="checkbox"/> KH <input type="checkbox"/> KI <input type="checkbox"/> KJ <input type="checkbox"/> KK <input type="checkbox"/> KL <input type="checkbox"/> KM <input type="checkbox"/> KN <input type="checkbox"/> KO <input type="checkbox"/> KP <input type="checkbox"/> KQ <input type="checkbox"/> KR <input type="checkbox"/> KS <input type="checkbox"/> KT <input type="checkbox"/> KU <input type="checkbox"/> KV <input type="checkbox"/> KW <input type="checkbox"/> KX <input type="checkbox"/> KY <input type="checkbox"/> KZ <input type="checkbox"/> LA <input type="checkbox"/> LB <input type="checkbox"/> LC <input type="checkbox"/> LD <input type="checkbox"/> LE <input type="checkbox"/> LF <input type="checkbox"/> LG <input type="checkbox"/> LH <input type="checkbox"/> LI <input type="checkbox"/> LJ <input type="checkbox"/> LK <input type="checkbox"/> LL <input type="checkbox"/> LM <input type="checkbox"/> LN <input type="checkbox"/> LO <input type="checkbox"/> LP <input type="checkbox"/> LQ <input type="checkbox"/> LR <input type="checkbox"/> LS <input type="checkbox"/> LT <input type="checkbox"/> LU <input type="checkbox"/> LV <input type="checkbox"/> LW <input type="checkbox"/> LX <input type="checkbox"/> LY <input type="checkbox"/> LZ <input type="checkbox"/> MA <input type="checkbox"/> MB <input type="checkbox"/> MC <input type="checkbox"/> MD <input type="checkbox"/> ME <input type="checkbox"/> MF <input type="checkbox"/> MG <input type="checkbox"/> MH <input type="checkbox"/> MI <input type="checkbox"/> MJ <input type="checkbox"/> MK <input type="checkbox"/> ML <input type="checkbox"/> MN <input type="checkbox"/> MO <input type="checkbox"/> MP <input type="checkbox"/> MQ <input type="checkbox"/> MR <input type="checkbox"/> MS <input type="checkbox"/> MT <input type="checkbox"/> MU <input type="checkbox"/> MV <input type="checkbox"/> MW <input type="checkbox"/> MX <input type="checkbox"/> MY <input type="checkbox"/> MZ <input type="checkbox"/> NA <input type="checkbox"/> NB <input type="checkbox"/> NC <input type="checkbox"/> ND <input type="checkbox"/> NE <input type="checkbox"/> NF <input type="checkbox"/> NG <input type="checkbox"/> NH <input type="checkbox"/> NI <input type="checkbox"/> NJ <input type="checkbox"/> NK <input type="checkbox"/> NL <input type="checkbox"/> NM <input type="checkbox"/> NO <input type="checkbox"/> NP <input type="checkbox"/> NQ <input type="checkbox"/> NR <input type="checkbox"/> NS <input type="checkbox"/> NT <input type="checkbox"/> NU <input type="checkbox"/> NV <input type="checkbox"/> NW <input type="checkbox"/> NX <input type="checkbox"/> NY <input type="checkbox"/> NZ <input type="checkbox"/> OA <input type="checkbox"/> OB <input type="checkbox"/> OC <input type="checkbox"/> OD <input type="checkbox"/> OE <input type="checkbox"/> OF <input type="checkbox"/> OG <input type="checkbox"/> OH <input type="checkbox"/> OI <input type="checkbox"/> OJ <input type="checkbox"/> OK <input type="checkbox"/> OL <input type="checkbox"/> OM <input type="checkbox"/> ON <input type="checkbox"/> OO <input type="checkbox"/> OP <input type="checkbox"/> OQ <input type="checkbox"/> OR <input type="checkbox"/> OS <input type="checkbox"/> OT <input type="checkbox"/> OU <input type="checkbox"/> OV <input type="checkbox"/> OW <input type="checkbox"/> OX <input type="checkbox"/> OY <input type="checkbox"/> OZ <input type="checkbox"/> PA <input type="checkbox"/> PB <input type="checkbox"/> PC <input type="checkbox"/> PD <input type="checkbox"/> PE <input type="checkbox"/> PF <input type="checkbox"/> PG <input type="checkbox"/> PH <input type="checkbox"/> PI 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Upon Receipt (Y/N)		Preservation		Matrix		Container Type		pH		No. Containers	

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350 Hestberg Road
Monroeville, PA 15146

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 **RJ LEE GROUP**
DELIVERING SCIENTIFIC RESOLUTION

Page 4 of 4

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May 15 th 2023	5:56 pm	Ozone In
MJ-II	Fluid Injection Rate - 5ppmW	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 11	Total Sample Volume – 194.876 L
Sample Temp – 359.93 F	Sample Duration - 10 min	Sample Flow Rate 0.2376239 (m3/min.)

May 15 th 2023	5:56 pm	Ozone Out
MJ-II	Fluid Injection Rate - 5ppmW	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 12	Total Sample Volume – 194.876 L
Sample Temp – 360 F	Sample Duration – 10 min	Sample Flow Rate 0.237615 (m3/min.)

May 15 th 2023	5:54 pm	Coalescer
MJ-II	Fluid Injection Rate -5ppmW	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 13	Total Sample Volume – 126.068 L
Sample Temp – 98.82 F	Sample Duration – 10 min	Sample Flow Rate 0.1889607 (m3/min.)

May 15 th 2023	N/A	N/A
Shipping Blank	N/A	N/A
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 1	N/A
N/A	N/A	N/A

May 15 th 2023	N/A	Ambient
Field Blank	N/A	N/A
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 6	N/A
N/A	N/A	N/A

May 15 th 2023	N/A	Ozone In
Field Blank	N/A	N/A
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 7	N/A
N/A	N/A	N/A

May 15 th 2023	N/A	Ozone Out
Field Blank	N/A	N/A
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 8	N/A
N/A	N/A	N/A

May 15 th 2023	N/A	Coalescer
Field Blank	N/A	N/A
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 9	N/A
N/A	N/A	N/A

May 15 th 2023	3:51 pm	Ambient
Baseline	Fluid Injection Rate - 0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 2	Total Sample Volume - 225.622 L
Sample Temp - 76.09 F	Sample Duration - 21 min	Sample Flow Rate 0.1671913 (m3/min.)

May 15 th 2023	4:02 pm	Ozone In
Baseline	Fluid Injection Rate - 0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 3	Total Sample Volume - 194.876 L
Sample Temp - 359.93 F	Sample Duration - 10 min	Sample Flow Rate 0.2377622 (m3/min.)

May 15 th 2023	4:02 pm	Ozone Out
Baseline	Fluid Injection Rate - 0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 4	Total Sample Volume - 194.876 L
Sample Temp - 360 F	Sample Duration - 10 min	Sample Flow Rate 0.2377533 (m3/min.)

May 15 th 2023	3:53 pm	Coalescer
Baseline	Fluid Injection Rate - 0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 5	Total Sample Volume - 283.779 L
Sample Temp - 98.82 F	19 min	Sample Flow Rate 0.220216019 (m3/min.)

May 15 th 2023	5:58 pm	Ambient
NJ-II	Fluid Injection Rate - 5ppm/W	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 10	Total Sample Volume - 149.358 L
Sample Temp - 76.09 F	Sample Duration - 10 min	Sample Flow Rate 0.2240901 (m3/min.)

May 16 th 2023	N/A	Field Blank
N/A	N/A	N/A
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 14	N/A
N/A	N/A	N/A

May 16 th 2023	3:52 pm	Ozone In
Baseline 300C	Fluid Injection Rate -0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 15	Total Sample Volume
Sample Temp 132.8 C	Sample Duration 25 min	Sample Flow Rate

May 16 th 2023	3:52 pm	Ozone Out
Baseline -300 C	Fluid Injection Rate - 0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 16	Total Sample Volume
Sample Temp 138.7 C	Sample Duration 25 min	Sample Flow Rate

May 16 th 2023	3:52 pm	Coalescer
Baseline 300 C	Fluid Injection Rate - 0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 17	Total Sample Volume
Sample Temp 29.1 C	Sample Duration 25 min	Sample Flow Rate

May 16 th 2023	6:02pm	Ozone In
MJ- II - 300 C	Fluid Injection Rate - 5ppmW	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 18	Total Sample Volume
Sample Temp 124.3 C	Sample Duration 25 min	Sample Flow Rate

May 16 th 2023	6:02 pm	Coalescer
Baseline 300 C	Fluid Injection Rate - 5ppmW	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 19	Total Sample Volume
Sample Temp 29.2 C	Sample Duration 25 min	Sample Flow Rate

May 17 th 2023	N/A	Field Blank
N/A	N/A	N/A
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 20	N/A
N/A	N/A	N/A

May 17 th 2023	1:00	Ozone In
2197 300 C	Fluid Injection Rate – 5 ppm/V	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 24	Total Sample Volume
Sample Temp 82.4 C	Sample Duration 20 min	Sample Flow Rate

May 17 th 2023	11:05	Ozone In - Ambient
Baseline 300 C	Fluid Injection Rate - 0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 21	Total Sample Volume
Sample Temp 27.8 C	Sample Duration 19 min	Sample Flow Rate

May 17 th 2023	1:00	Ozone Out
2197 300 C	Fluid Injection Rate – 5 ppm/V	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 25	Total Sample Volume
Sample Temp 139 C	Sample Duration 20 min	Sample Flow Rate

May 17 th 2023	11:05	Ozone Out
Baseline 300 C	Fluid Injection Rate - 0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Filter	Sample # 22	Total Sample Volume
Sample Temp 149.3 C	Sample Duration 19 min	Sample Flow Rate

May 17 th 2023	1:00	Coalescer
2197 300 C	Fluid Injection Rate – 5 ppm/V	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Filter	Sample # 26	Total Sample Volume
Sample Temp 29.9 C	Sample Duration 20 min	Sample Flow Rate

May 17 th 2023	11:05	Coalescer
Baseline 300 C	Fluid Injection Rate - 0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Filter	Sample # 23	Total Sample Volume
Sample Temp 33.1 C	Sample Duration 19 min	Sample Flow Rate

May 17 th 2023		Ozone Out
Burnout	Fluid Injection Rate - 0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Filter	Sample # 28	Total Sample Volume
Sample Temp	Sample Duration	Sample Flow Rate

May 17 th 2023		Ozone In
Burnout	Fluid Injection Rate - 0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Filter	Sample # 27	Total Sample Volume
Sample Temp	Sample Duration	Sample Flow Rate

May 17 th 2023		Coalescer
Burnout	Fluid Injection Rate - 0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Filter	Sample # 29	Total Sample Volume
Sample Temp	Sample Duration	Sample Flow Rate

May 18 th 2023	N/A	Field Blank
N/A	N/A	N/A
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 30	N/A
N/A	N/A	N/A

May 18 th 2023	5:07 pm	Ozone In
Baseline 220 C	Fluid Injection Rate – 0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 34	Total Sample Volume
Sample Temp 70.5 C	Sample Duration 15 min	Sample Flow Rate

May 18 th 2023	12:10	Ozone In
MJ-II 220 C	Fluid Injection Rate – 10 ppmW	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 31	Total Sample Volume
Sample Temp 62.6 C	Sample Duration 25 min	Sample Flow Rate

May 18 th 2023	5:07 pm	Ozone Out
Baseline 220 C	Fluid Injection Rate – 0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 35	Total Sample Volume
Sample Temp 121.9 C	Sample Duration 15 min	Sample Flow Rate

May 18 th 2023	12:10	Ozone Out
MJ-II 220 C	Fluid Injection Rate – 10 ppmW	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 32	Total Sample Volume
Sample Temp 116.6 C	Sample Duration 25 min	Sample Flow Rate

May 18 th 2023	5:07 pm	Coalescer
Baseline 220 C	Fluid Injection Rate – 0	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 36	Total Sample Volume
Sample Temp 20.3 C	Sample Duration 15 min	Sample Flow Rate

May 18 th 2023	12:10	Coalescer
MJ-II 220 C	Fluid Injection Rate – 10 ppmW	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 33	Total Sample Volume
Sample Temp 19 C	Sample Duration 25 min	Sample Flow Rate

May 18 th 2023	5:33 pm	Ozone In
Skydrol 220 C	Fluid Injection Rate – 5 ppmW	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 37	Total Sample Volume
Sample Temp 66.6 C	Sample Duration 20 min	Sample Flow Rate

May 18 th 2023	5:33 pm	Coalescer
Skydrol 220 C	Fluid Injection Rate – 5 ppmW	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 39	Total Sample Volume
Sample Temp 20.4 C	Sample Duration 20 min	Sample Flow Rate

May 18 th 2023	5:33 pm	Ozone Out
Skydrol 220 C	Fluid Injection Rate – 5 ppmW	Bleed Air Exit Temp
Speciated Phosphate Isomers, Dual 102 mm Quartz Filter	Sample # 38	Total Sample Volume
Sample Temp 119.5 C	Sample Duration 20 min	Sample Flow Rate

Revision 1 of W305169 and accompanying EDD file was issued on November 15, 2023. The origin report for the samples received on May 23, 2023 was issued on October 4, 2023. Note that the date reported in the revision changes give an initial issue of October 4, 2022, rather than October 4, 2023. Following were the changes to the final report that were incorporated into Revision 1.

Revised Report; Rev. 1 – Original Issued on October 4, 2023

This report has been revised to correct the following:

- 1) The calculation of the Reporting Limit for those results having units of $\mu\text{g}/\text{m}^3$. The reporting limits on the original report were based on an estimated method detection limit rather than the reporting limit (based on the lowest calibration point).*
- 2) Revised the Electronic Data Deliverable to change the reporting units of $\mu\text{g}/\text{m}^3$ to $\mu\text{g}/\text{sample}$ and the $\mu\text{g}/\text{sample}$ units to $\mu\text{g}/\text{m}^3$.*
- 3) There was an error in the calculation of the parts per billion volume (ppbv) results in all sample reports. This error has been corrected.*
- 4) The reporting limit for tributylphosphate has been changed in all reports. It has been decreased by a factor of 2. This error was due to a carryover from a previously used reporting template for the organophosphate analyses.*

No other revisions are reported after report # W305175, Revision 1.