284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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DATA PACKAGE

SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : RFK BRIDGE RMB-RANDALL ISLAND

LIRO ENGINEERS, INC.

690 Delaware Ave.

Buffalo, NY - 14209

Phone No: 716-882-5476

ORDER ID : Q3468

ATTENTION : Martin Wesolowski

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q3468

Project ID : RFK Bridge RMB-Randall Island

Client : LiRo Engineers, Inc.

Lab Sample Number	Client Sample Number
Q3468-01	MW-06
Q3468-02	MW-08
Q3468-03	MW-10
Q3468-04	MW-11
Q3468-05	MW-13
Q3468-06	MW-12

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 11/7/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

LiRo Engineers, Inc.
Project Name: RFK Bridge RMB-Randall Island
Project # N/A
Order ID # Q3468
Test Name: VOCMS Group1,SVOCMS Group1

A. Number of Samples and Date of Receipt:
6 Water samples were received on 10/24/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOCMS Group1,SVOCMS Group1. This data package contains results for VOCMS Group1(8260-Low),SVOCMS Group1(8270E).

C. Analytical Techniques:
VOCMS Group1 : The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOCMS Group1 was based on method 8260-Low.

SVOCMS Group1 : The samples were analyzed on instrument BNA_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of SVOCMS Group1 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD recoveries met criteria.

The Blank Spike met requirements for all compounds except following
VOCMS Group1 : The Blank Spike for {VN1028WBS02} with File ID: VN088131.D met requirements for all compounds except for Ethyl Benzene[110%], o-Xylene[111%] are failing marginally high therefore no corrective action taken.

VOCMS Group1 : The Blank Spike for {VN1029WBS01} with File ID: VN088150.D met requirements for all compounds except for tert-Butylbenzene[81%] is failing marginally low therefore no corrective action taken.

The Blank Spike Duplicate met requirements for all compounds

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The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements except following
VOCMS Group1 : The Continuous Calibration File ID VN088127.D met the requirements except for Methyl tert-butyl Ether is failing high but no positive hit in associate sample therefore no corrective action taken.

SVOCMS Group1 : The Continuous Calibration File ID BG064618.D met the requirements except for Nitrobenzene-d5. Which is not our target compound, therefore no corrective action taken.

The Continuous Calibration File ID BG064636.D met the requirements except for Nitrobenzene-d5. Which is not our target compound, therefore no corrective action taken.

The Tuning criteria met requirements.

VOCMS Group1 : Samples MW-08, MW-12 were diluted due to high concentrations.

E. Additional Comments:

SEMI-VOA : The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

VOCMS Group1 : Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3468

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 11/07/2025

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LAB CHRONICLE

OrderID:	Q3468	**OrderDate:**	10/27/2025 11:00:00 AM
Client:	LiRo Engineers, Inc.	**Project:**	RFK Bridge RMB-Randall Island
Contact:	Martin Wesolowski	**Location:**	D41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3468-01	**MW-06**	**Water**			**10/23/25**			**10/24/25**
			VOCMS Group1	8260-Low			10/29/25	
Q3468-02	**MW-08**	**Water**			**10/23/25**			**10/24/25**
			VOCMS Group1	8260-Low			10/28/25	
Q3468-02DL	**MW-08DL**	**Water**			**10/23/25**			**10/24/25**
			VOCMS Group1	8260-Low			10/29/25	
Q3468-03	**MW-10**	**Water**			**10/23/25**			**10/24/25**
			VOCMS Group1	8260-Low			10/28/25	
Q3468-04	**MW-11**	**Water**			**10/23/25**			**10/24/25**
			VOCMS Group1	8260-Low			10/27/25	
Q3468-05	**MW-13**	**Water**			**10/23/25**			**10/24/25**
			VOCMS Group1	8260-Low			10/29/25	
Q3468-06	**MW-12**	**Water**			**10/23/25**			**10/24/25**
			VOCMS Group1	8260-Low			10/28/25	
Q3468-06DL	**MW-12DL**	**Water**			**10/23/25**			**10/24/25**
			VOCMS Group1	8260-Low			10/29/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3468

Client: LiRo Engineers, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**MW-06**							
Q3468-01	MW-06	Water	Benzene	6.30		0.15	1.00	ug/L
Q3468-01	MW-06	Water	Toluene	1.20		0.14	1.00	ug/L
Q3468-01	MW-06	Water	Ethyl Benzene	4.80		0.13	1.00	ug/L
Q3468-01	MW-06	Water	Total Xylenes	8.60		0.36	3.00	ug/L
Q3468-01	MW-06	Water	m/p-Xylenes	4.80		0.24	2.00	ug/L
Q3468-01	MW-06	Water	o-Xylene	3.80		0.12	1.00	ug/L
Q3468-01	MW-06	Water	Isopropylbenzene	20.1		0.12	1.00	ug/L
Q3468-01	MW-06	Water	n-propylbenzene	46.8		0.13	1.00	ug/L
Q3468-01	MW-06	Water	1,3,5-Trimethylbenzene	0.87	J	0.15	1.00	ug/L
Q3468-01	MW-06	Water	tert-Butylbenzene	0.46	JQ	0.14	1.00	ug/L
Q3468-01	MW-06	Water	1,2,4-Trimethylbenzene	5.70		0.14	1.00	ug/L
Q3468-01	MW-06	Water	sec-Butylbenzene	4.00		0.13	1.00	ug/L
Q3468-01	MW-06	Water	n-Butylbenzene	4.50		0.15	1.00	ug/L
Q3468-01	MW-06	Water	Naphthalene	48.5		0.20	1.00	ug/L
			Total Voc :	152				
			Total Concentration:	152				
Client ID:	**MW-08**							
Q3468-02	MW-08	Water	Benzene	120		0.15	1.00	ug/L
Q3468-02	MW-08	Water	Toluene	9.50		0.14	1.00	ug/L
Q3468-02	MW-08	Water	Ethyl Benzene	100	Q	0.13	1.00	ug/L
Q3468-02	MW-08	Water	Total Xylenes	550	E	0.36	3.00	ug/L
Q3468-02	MW-08	Water	m/p-Xylenes	310	E	0.24	2.00	ug/L
Q3468-02	MW-08	Water	o-Xylene	240	EQ	0.12	1.00	ug/L
Q3468-02	MW-08	Water	Isopropylbenzene	10.6		0.12	1.00	ug/L
Q3468-02	MW-08	Water	n-propylbenzene	16.9		0.13	1.00	ug/L
Q3468-02	MW-08	Water	1,3,5-Trimethylbenzene	15.4		0.15	1.00	ug/L
Q3468-02	MW-08	Water	1,2,4-Trimethylbenzene	350	E	0.14	1.00	ug/L
Q3468-02	MW-08	Water	sec-Butylbenzene	1.80		0.13	1.00	ug/L
Q3468-02	MW-08	Water	p-Isopropyltoluene	1.40		0.13	1.00	ug/L
Q3468-02	MW-08	Water	n-Butylbenzene	2.50		0.15	1.00	ug/L
Q3468-02	MW-08	Water	Naphthalene	210	E	0.20	1.00	ug/L
			Total Voc :	1390				
			Total Concentration:	1390				
Client ID:	**MW-08DL**							
Q3468-02DL	MW-08DL	Water	Benzene	190	D	0.75	5.00	ug/L
Q3468-02DL	MW-08DL	Water	Toluene	14.2	D	0.70	5.00	ug/L

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Hit Summary Sheet
SW-846

SDG No.: Q3468

Client: LiRo Engineers, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3468-02DL	MW-08DL	Water	Ethyl Benzene	150	D	0.65	5.00	ug/L
Q3468-02DL	MW-08DL	Water	Total Xylenes	900	D	1.80	15.0	ug/L
Q3468-02DL	MW-08DL	Water	m/p-Xylenes	500	D	1.20	10.0	ug/L
Q3468-02DL	MW-08DL	Water	o-Xylene	400	D	0.60	5.00	ug/L
Q3468-02DL	MW-08DL	Water	Isopropylbenzene	15.0	D	0.60	5.00	ug/L
Q3468-02DL	MW-08DL	Water	n-propylbenzene	25.5	D	0.65	5.00	ug/L
Q3468-02DL	MW-08DL	Water	1,3,5-Trimethylbenzene	27.5	D	0.75	5.00	ug/L
Q3468-02DL	MW-08DL	Water	1,2,4-Trimethylbenzene	580	D	0.70	5.00	ug/L
Q3468-02DL	MW-08DL	Water	p-Isopropyltoluene	2.40	JD	0.65	5.00	ug/L
Q3468-02DL	MW-08DL	Water	Naphthalene	350	D	1.00	5.00	ug/L
			Total Voc :	2250				
			Total Concentration:	2250				
Client ID:	**MW-10**							
Q3468-03	MW-10	Water	Toluene	0.21	J	0.14	1.00	ug/L
Q3468-03	MW-10	Water	Total Xylenes	1.20	J	0.36	3.00	ug/L
Q3468-03	MW-10	Water	m/p-Xylenes	1.20	J	0.24	2.00	ug/L
Q3468-03	MW-10	Water	Isopropylbenzene	2.90		0.12	1.00	ug/L
Q3468-03	MW-10	Water	n-propylbenzene	2.00		0.13	1.00	ug/L
Q3468-03	MW-10	Water	1,3,5-Trimethylbenzene	0.34	J	0.15	1.00	ug/L
Q3468-03	MW-10	Water	1,2,4-Trimethylbenzene	0.39	J	0.14	1.00	ug/L
Q3468-03	MW-10	Water	sec-Butylbenzene	1.40		0.13	1.00	ug/L
Q3468-03	MW-10	Water	p-Isopropyltoluene	0.29	J	0.13	1.00	ug/L
Q3468-03	MW-10	Water	n-Butylbenzene	1.50		0.15	1.00	ug/L
Q3468-03	MW-10	Water	Naphthalene	1.80		0.20	1.00	ug/L
			Total Voc :	12.0				
			Total Concentration:	12.0				
Client ID:	**MW-11**							
Q3468-04	MW-11	Water	Total Xylenes	0.75	J	0.36	3.00	ug/L
Q3468-04	MW-11	Water	m/p-Xylenes	0.75	J	0.24	2.00	ug/L
			Total Voc :	0.75				
			Total Concentration:	0.75				
Client ID:	**MW-13**							
Q3468-05	MW-13	Water	Benzene	1.20		0.15	1.00	ug/L
Q3468-05	MW-13	Water	Ethyl Benzene	1.30		0.13	1.00	ug/L
Q3468-05	MW-13	Water	Total Xylenes	2.65	J	0.36	3.00	ug/L
Q3468-05	MW-13	Water	m/p-Xylenes	0.95	J	0.24	2.00	ug/L
Q3468-05	MW-13	Water	o-Xylene	1.70		0.12	1.00	ug/L
Q3468-05	MW-13	Water	Isopropylbenzene	0.37	J	0.12	1.00	ug/L

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Hit Summary Sheet
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SDG No.: Q3468

Client: LiRo Engineers, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3468-05	MW-13	Water	n-propylbenzene	0.48	J	0.13	1.00	ug/L
			Total Voc :	6.00				
			Total Concentration:	6.00				
Client ID:	**MW-12**							
Q3468-06	MW-12	Water	Benzene	180	E	0.15	1.00	ug/L
Q3468-06	MW-12	Water	Toluene	140		0.14	1.00	ug/L
Q3468-06	MW-12	Water	Ethyl Benzene	600	EQ	0.13	1.00	ug/L
Q3468-06	MW-12	Water	Total Xylenes	770	E	0.36	3.00	ug/L
Q3468-06	MW-12	Water	m/p-Xylenes	330	E	0.24	2.00	ug/L
Q3468-06	MW-12	Water	o-Xylene	440	EQ	0.12	1.00	ug/L
Q3468-06	MW-12	Water	Isopropylbenzene	16.0		0.12	1.00	ug/L
Q3468-06	MW-12	Water	n-propylbenzene	31.0		0.13	1.00	ug/L
Q3468-06	MW-12	Water	1,3,5-Trimethylbenzene	4.90		0.15	1.00	ug/L
Q3468-06	MW-12	Water	1,2,4-Trimethylbenzene	390	E	0.14	1.00	ug/L
Q3468-06	MW-12	Water	p-Isopropyltoluene	1.50		0.13	1.00	ug/L
Q3468-06	MW-12	Water	n-Butylbenzene	2.20		0.15	1.00	ug/L
Q3468-06	MW-12	Water	Naphthalene	180	E	0.20	1.00	ug/L
			Total Voc :	2320				
			Total Concentration:	2320				
Client ID:	**MW-12DL**							
Q3468-06DL	MW-12DL	Water	Benzene	210	D	1.50	10.0	ug/L
Q3468-06DL	MW-12DL	Water	Toluene	160	D	1.40	10.0	ug/L
Q3468-06DL	MW-12DL	Water	Ethyl Benzene	710	D	1.30	10.0	ug/L
Q3468-06DL	MW-12DL	Water	Total Xylenes	900	D	3.60	30.0	ug/L
Q3468-06DL	MW-12DL	Water	m/p-Xylenes	390	D	2.40	20.0	ug/L
Q3468-06DL	MW-12DL	Water	o-Xylene	510	D	1.20	10.0	ug/L
Q3468-06DL	MW-12DL	Water	Isopropylbenzene	17.2	D	1.20	10.0	ug/L
Q3468-06DL	MW-12DL	Water	n-propylbenzene	34.4	D	1.30	10.0	ug/L
Q3468-06DL	MW-12DL	Water	1,2,4-Trimethylbenzene	440	D	1.40	10.0	ug/L
Q3468-06DL	MW-12DL	Water	Naphthalene	190	D	2.00	10.0	ug/L
			Total Voc :	2660				
			Total Concentration:	2660				

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	10/23/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	10/24/25
Client Sample ID:	MW-06	SDG No.:	Q3468
Lab Sample ID:	Q3468-01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
1634-04-4	Methyl tert-butyl Ether	1.00	U	1	0.16	1.00	ug/L	10/29/25 13:03	VN102925
71-43-2	Benzene	6.30		1	0.15	1.00	ug/L	10/29/25 13:03	VN102925
108-88-3	Toluene	1.20		1	0.14	1.00	ug/L	10/29/25 13:03	VN102925
100-41-4	Ethyl Benzene	4.80		1	0.13	1.00	ug/L	10/29/25 13:03	VN102925
179601-23-1	m/p-Xylenes	4.80		1	0.24	2.00	ug/L	10/29/25 13:03	VN102925
1330-20-7	Total Xylenes	8.60		1	0.36	3.00	ug/L	10/29/25 13:03	VN102925
95-47-6	o-Xylene	3.80		1	0.12	1.00	ug/L	10/29/25 13:03	VN102925
98-82-8	Isopropylbenzene	20.1		1	0.12	1.00	ug/L	10/29/25 13:03	VN102925
103-65-1	n-propylbenzene	46.8		1	0.13	1.00	ug/L	10/29/25 13:03	VN102925
108-67-8	1,3,5-Trimethylbenzene	0.87	J	1	0.15	1.00	ug/L	10/29/25 13:03	VN102925
98-06-6	tert-Butylbenzene	0.46	JQ	1	0.14	1.00	ug/L	10/29/25 13:03	VN102925
95-63-6	1,2,4-Trimethylbenzene	5.70		1	0.14	1.00	ug/L	10/29/25 13:03	VN102925
135-98-8	sec-Butylbenzene	4.00		1	0.13	1.00	ug/L	10/29/25 13:03	VN102925
99-87-6	p-Isopropyltoluene	1.00	U	1	0.13	1.00	ug/L	10/29/25 13:03	VN102925
104-51-8	n-Butylbenzene	4.50		1	0.15	1.00	ug/L	10/29/25 13:03	VN102925
91-20-3	Naphthalene	48.5		1	0.20	1.00	ug/L	10/29/25 13:03	VN102925
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	60.3			74 - 125	121%	SPK: 50		
1868-53-7	Dibromofluoromethane	48.9			75 - 124	98%	SPK: 50		
2037-26-5	Toluene-d8	46.9			86 - 113	94%	SPK: 50		
460-00-4	4-Bromofluorobenzene	55.0			77 - 121	110%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	240000							
540-36-3	1,4-Difluorobenzene	555000							
3114-55-4	Chlorobenzene-d5	541000							
3855-82-1	1,4-Dichlorobenzene-d4	270000							

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	10/23/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	10/24/25
Client Sample ID:	MW-08	SDG No.:	Q3468
Lab Sample ID:	Q3468-02	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
1634-04-4	Methyl tert-butyl Ether	1.00	U	1	0.16	1.00	ug/L	10/28/25 14:40	VN102825
71-43-2	Benzene	120		1	0.15	1.00	ug/L	10/28/25 14:40	VN102825
108-88-3	Toluene	9.50		1	0.14	1.00	ug/L	10/28/25 14:40	VN102825
100-41-4	Ethyl Benzene	100	Q	1	0.13	1.00	ug/L	10/28/25 14:40	VN102825
179601-23-1	m/p-Xylenes	310	E	1	0.24	2.00	ug/L	10/28/25 14:40	VN102825
1330-20-7	Total Xylenes	550	E	1	0.36	3.00	ug/L	10/28/25 14:40	VN102825
95-47-6	o-Xylene	240	EQ	1	0.12	1.00	ug/L	10/28/25 14:40	VN102825
98-82-8	Isopropylbenzene	10.6		1	0.12	1.00	ug/L	10/28/25 14:40	VN102825
103-65-1	n-propylbenzene	16.9		1	0.13	1.00	ug/L	10/28/25 14:40	VN102825
108-67-8	1,3,5-Trimethylbenzene	15.4		1	0.15	1.00	ug/L	10/28/25 14:40	VN102825
98-06-6	tert-Butylbenzene	1.00	U	1	0.14	1.00	ug/L	10/28/25 14:40	VN102825
95-63-6	1,2,4-Trimethylbenzene	350	E	1	0.14	1.00	ug/L	10/28/25 14:40	VN102825
135-98-8	sec-Butylbenzene	1.80		1	0.13	1.00	ug/L	10/28/25 14:40	VN102825
99-87-6	p-Isopropyltoluene	1.40		1	0.13	1.00	ug/L	10/28/25 14:40	VN102825
104-51-8	n-Butylbenzene	2.50		1	0.15	1.00	ug/L	10/28/25 14:40	VN102825
91-20-3	Naphthalene	210	E	1	0.20	1.00	ug/L	10/28/25 14:40	VN102825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	60.4			74 - 125	121%	SPK: 50		
1868-53-7	Dibromofluoromethane	48.3			75 - 124	97%	SPK: 50		
2037-26-5	Toluene-d8	46.7			86 - 113	93%	SPK: 50		
460-00-4	4-Bromofluorobenzene	55.4			77 - 121	111%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	281000							
540-36-3	1,4-Difluorobenzene	637000							
3114-55-4	Chlorobenzene-d5	622000							
3855-82-1	1,4-Dichlorobenzene-d4	313000							

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	10/23/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	10/24/25
Client Sample ID:	MW-08DL	SDG No.:	Q3468
Lab Sample ID:	Q3468-02DL	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
1634-04-4	Methyl tert-butyl Ether	5.00	UD	5	0.80	5.00	ug/L	10/29/25 12:21	VN102925
71-43-2	Benzene	190	D	5	0.75	5.00	ug/L	10/29/25 12:21	VN102925
108-88-3	Toluene	14.2	D	5	0.70	5.00	ug/L	10/29/25 12:21	VN102925
100-41-4	Ethyl Benzene	150	D	5	0.65	5.00	ug/L	10/29/25 12:21	VN102925
179601-23-1	m/p-Xylenes	500	D	5	1.20	10.0	ug/L	10/29/25 12:21	VN102925
1330-20-7	Total Xylenes	900	D	5	1.80	15.0	ug/L	10/29/25 12:21	VN102925
95-47-6	o-Xylene	400	D	5	0.60	5.00	ug/L	10/29/25 12:21	VN102925
98-82-8	Isopropylbenzene	15.0	D	5	0.60	5.00	ug/L	10/29/25 12:21	VN102925
103-65-1	n-propylbenzene	25.5	D	5	0.65	5.00	ug/L	10/29/25 12:21	VN102925
108-67-8	1,3,5-Trimethylbenzene	27.5	D	5	0.75	5.00	ug/L	10/29/25 12:21	VN102925
98-06-6	tert-Butylbenzene	5.00	UDQ	5	0.70	5.00	ug/L	10/29/25 12:21	VN102925
95-63-6	1,2,4-Trimethylbenzene	580	D	5	0.70	5.00	ug/L	10/29/25 12:21	VN102925
135-98-8	sec-Butylbenzene	5.00	UD	5	0.65	5.00	ug/L	10/29/25 12:21	VN102925
99-87-6	p-Isopropyltoluene	2.40	JD	5	0.65	5.00	ug/L	10/29/25 12:21	VN102925
104-51-8	n-Butylbenzene	5.00	UD	5	0.75	5.00	ug/L	10/29/25 12:21	VN102925
91-20-3	Naphthalene	350	D	5	1.00	5.00	ug/L	10/29/25 12:21	VN102925
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.8			74 - 125	110%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.6			75 - 124	95%	SPK: 50		
2037-26-5	Toluene-d8	45.2			86 - 113	90%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.1			77 - 121	102%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	214000							
540-36-3	1,4-Difluorobenzene	486000							
3114-55-4	Chlorobenzene-d5	458000							
3855-82-1	1,4-Dichlorobenzene-d4	232000							

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	10/23/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	10/24/25
Client Sample ID:	MW-10	SDG No.:	Q3468
Lab Sample ID:	Q3468-03	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
1634-04-4	Methyl tert-butyl Ether	1.00	U	1	0.16	1.00	ug/L	10/28/25 13:38	VN102825
71-43-2	Benzene	1.00	U	1	0.15	1.00	ug/L	10/28/25 13:38	VN102825
108-88-3	Toluene	0.21	J	1	0.14	1.00	ug/L	10/28/25 13:38	VN102825
100-41-4	Ethyl Benzene	1.00	UQ	1	0.13	1.00	ug/L	10/28/25 13:38	VN102825
179601-23-1	m/p-Xylenes	1.20	J	1	0.24	2.00	ug/L	10/28/25 13:38	VN102825
1330-20-7	Total Xylenes	1.20	J	1	0.36	3.00	ug/L	10/28/25 13:38	VN102825
95-47-6	o-Xylene	1.00	UQ	1	0.12	1.00	ug/L	10/28/25 13:38	VN102825
98-82-8	Isopropylbenzene	2.90		1	0.12	1.00	ug/L	10/28/25 13:38	VN102825
103-65-1	n-propylbenzene	2.00		1	0.13	1.00	ug/L	10/28/25 13:38	VN102825
108-67-8	1,3,5-Trimethylbenzene	0.34	J	1	0.15	1.00	ug/L	10/28/25 13:38	VN102825
98-06-6	tert-Butylbenzene	1.00	U	1	0.14	1.00	ug/L	10/28/25 13:38	VN102825
95-63-6	1,2,4-Trimethylbenzene	0.39	J	1	0.14	1.00	ug/L	10/28/25 13:38	VN102825
135-98-8	sec-Butylbenzene	1.40		1	0.13	1.00	ug/L	10/28/25 13:38	VN102825
99-87-6	p-Isopropyltoluene	0.29	J	1	0.13	1.00	ug/L	10/28/25 13:38	VN102825
104-51-8	n-Butylbenzene	1.50		1	0.15	1.00	ug/L	10/28/25 13:38	VN102825
91-20-3	Naphthalene	1.80		1	0.20	1.00	ug/L	10/28/25 13:38	VN102825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	52.5			74 - 125	105%	SPK: 50		
1868-53-7	Dibromofluoromethane	46.5			75 - 124	93%	SPK: 50		
2037-26-5	Toluene-d8	44.6			86 - 113	89%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.9			77 - 121	102%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	236000							
540-36-3	1,4-Difluorobenzene	530000							
3114-55-4	Chlorobenzene-d5	501000							
3855-82-1	1,4-Dichlorobenzene-d4	243000							

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Fax : 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	10/23/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	10/24/25
Client Sample ID:	MW-11	SDG No.:	Q3468
Lab Sample ID:	Q3468-04	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
1634-04-4	Methyl tert-butyl Ether	1.00	U	1	0.16	1.00	ug/L	10/27/25 18:41	VN102725
71-43-2	Benzene	1.00	U	1	0.15	1.00	ug/L	10/27/25 18:41	VN102725
108-88-3	Toluene	1.00	U	1	0.14	1.00	ug/L	10/27/25 18:41	VN102725
100-41-4	Ethyl Benzene	1.00	U	1	0.13	1.00	ug/L	10/27/25 18:41	VN102725
179601-23-1	m/p-Xylenes	0.75	J	1	0.24	2.00	ug/L	10/27/25 18:41	VN102725
1330-20-7	Total Xylenes	0.75	J	1	0.36	3.00	ug/L	10/27/25 18:41	VN102725
95-47-6	o-Xylene	1.00	U	1	0.12	1.00	ug/L	10/27/25 18:41	VN102725
98-82-8	Isopropylbenzene	1.00	U	1	0.12	1.00	ug/L	10/27/25 18:41	VN102725
103-65-1	n-propylbenzene	1.00	U	1	0.13	1.00	ug/L	10/27/25 18:41	VN102725
108-67-8	1,3,5-Trimethylbenzene	1.00	U	1	0.15	1.00	ug/L	10/27/25 18:41	VN102725
98-06-6	tert-Butylbenzene	1.00	U	1	0.14	1.00	ug/L	10/27/25 18:41	VN102725
95-63-6	1,2,4-Trimethylbenzene	1.00	U	1	0.14	1.00	ug/L	10/27/25 18:41	VN102725
135-98-8	sec-Butylbenzene	1.00	U	1	0.13	1.00	ug/L	10/27/25 18:41	VN102725
99-87-6	p-Isopropyltoluene	1.00	U	1	0.13	1.00	ug/L	10/27/25 18:41	VN102725
104-51-8	n-Butylbenzene	1.00	U	1	0.15	1.00	ug/L	10/27/25 18:41	VN102725
91-20-3	Naphthalene	1.00	U	1	0.20	1.00	ug/L	10/27/25 18:41	VN102725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	52.6			74 - 125	105%	SPK: 50		
1868-53-7	Dibromofluoromethane	45.4			75 - 124	91%	SPK: 50		
2037-26-5	Toluene-d8	44.5			86 - 113	89%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.1			77 - 121	100%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	264000							
540-36-3	1,4-Difluorobenzene	588000							
3114-55-4	Chlorobenzene-d5	556000							
3855-82-1	1,4-Dichlorobenzene-d4	270000							

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	10/23/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	10/24/25
Client Sample ID:	MW-13	SDG No.:	Q3468
Lab Sample ID:	Q3468-05	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
1634-04-4	Methyl tert-butyl Ether	1.00	U	1	0.16	1.00	ug/L	10/29/25 18:33	VN102925
71-43-2	Benzene	1.20		1	0.15	1.00	ug/L	10/29/25 18:33	VN102925
108-88-3	Toluene	1.00	U	1	0.14	1.00	ug/L	10/29/25 18:33	VN102925
100-41-4	Ethyl Benzene	1.30		1	0.13	1.00	ug/L	10/29/25 18:33	VN102925
179601-23-1	m/p-Xylenes	0.95	J	1	0.24	2.00	ug/L	10/29/25 18:33	VN102925
1330-20-7	Total Xylenes	2.65	J	1	0.36	3.00	ug/L	10/29/25 18:33	VN102925
95-47-6	o-Xylene	1.70		1	0.12	1.00	ug/L	10/29/25 18:33	VN102925
98-82-8	Isopropylbenzene	0.37	J	1	0.12	1.00	ug/L	10/29/25 18:33	VN102925
103-65-1	n-propylbenzene	0.48	J	1	0.13	1.00	ug/L	10/29/25 18:33	VN102925
108-67-8	1,3,5-Trimethylbenzene	1.00	U	1	0.15	1.00	ug/L	10/29/25 18:33	VN102925
98-06-6	tert-Butylbenzene	1.00	UQ	1	0.14	1.00	ug/L	10/29/25 18:33	VN102925
95-63-6	1,2,4-Trimethylbenzene	1.00	U	1	0.14	1.00	ug/L	10/29/25 18:33	VN102925
135-98-8	sec-Butylbenzene	1.00	U	1	0.13	1.00	ug/L	10/29/25 18:33	VN102925
99-87-6	p-Isopropyltoluene	1.00	U	1	0.13	1.00	ug/L	10/29/25 18:33	VN102925
104-51-8	n-Butylbenzene	1.00	U	1	0.15	1.00	ug/L	10/29/25 18:33	VN102925
91-20-3	Naphthalene	1.00	U	1	0.20	1.00	ug/L	10/29/25 18:33	VN102925
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.5			74 - 125	109%	SPK: 50		
1868-53-7	Dibromofluoromethane	44.8			75 - 124	90%	SPK: 50		
2037-26-5	Toluene-d8	45.0			86 - 113	90%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.7			77 - 121	103%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	328000							
540-36-3	1,4-Difluorobenzene	751000							
3114-55-4	Chlorobenzene-d5	708000							
3855-82-1	1,4-Dichlorobenzene-d4	355000							

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	10/23/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	10/24/25
Client Sample ID:	MW-12	SDG No.:	Q3468
Lab Sample ID:	Q3468-06	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
1634-04-4	Methyl tert-butyl Ether	1.00	U	1	0.16	1.00	ug/L	10/28/25 13:59	VN102825
71-43-2	Benzene	180	E	1	0.15	1.00	ug/L	10/28/25 13:59	VN102825
108-88-3	Toluene	140		1	0.14	1.00	ug/L	10/28/25 13:59	VN102825
100-41-4	Ethyl Benzene	600	EQ	1	0.13	1.00	ug/L	10/28/25 13:59	VN102825
179601-23-1	m/p-Xylenes	330	E	1	0.24	2.00	ug/L	10/28/25 13:59	VN102825
1330-20-7	Total Xylenes	770	E	1	0.36	3.00	ug/L	10/28/25 13:59	VN102825
95-47-6	o-Xylene	440	EQ	1	0.12	1.00	ug/L	10/28/25 13:59	VN102825
98-82-8	Isopropylbenzene	16.0		1	0.12	1.00	ug/L	10/28/25 13:59	VN102825
103-65-1	n-propylbenzene	31.0		1	0.13	1.00	ug/L	10/28/25 13:59	VN102825
108-67-8	1,3,5-Trimethylbenzene	4.90		1	0.15	1.00	ug/L	10/28/25 13:59	VN102825
98-06-6	tert-Butylbenzene	1.00	U	1	0.14	1.00	ug/L	10/28/25 13:59	VN102825
95-63-6	1,2,4-Trimethylbenzene	390	E	1	0.14	1.00	ug/L	10/28/25 13:59	VN102825
135-98-8	sec-Butylbenzene	1.00	U	1	0.13	1.00	ug/L	10/28/25 13:59	VN102825
99-87-6	p-Isopropyltoluene	1.50		1	0.13	1.00	ug/L	10/28/25 13:59	VN102825
104-51-8	n-Butylbenzene	2.20		1	0.15	1.00	ug/L	10/28/25 13:59	VN102825
91-20-3	Naphthalene	180	E	1	0.20	1.00	ug/L	10/28/25 13:59	VN102825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.2			74 - 125	108%	SPK: 50		
1868-53-7	Dibromofluoromethane	46.0			75 - 124	92%	SPK: 50		
2037-26-5	Toluene-d8	44.7			86 - 113	89%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.6			77 - 121	103%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	239000							
540-36-3	1,4-Difluorobenzene	532000							
3114-55-4	Chlorobenzene-d5	512000							
3855-82-1	1,4-Dichlorobenzene-d4	250000							

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	10/23/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	10/24/25
Client Sample ID:	MW-12DL	SDG No.:	Q3468
Lab Sample ID:	Q3468-06DL	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
1634-04-4	Methyl tert-butyl Ether	10.0	UD	10	1.60	10.0	ug/L	10/29/25 12:42	VN102925
71-43-2	Benzene	210	D	10	1.50	10.0	ug/L	10/29/25 12:42	VN102925
108-88-3	Toluene	160	D	10	1.40	10.0	ug/L	10/29/25 12:42	VN102925
100-41-4	Ethyl Benzene	710	D	10	1.30	10.0	ug/L	10/29/25 12:42	VN102925
179601-23-1	m/p-Xylenes	390	D	10	2.40	20.0	ug/L	10/29/25 12:42	VN102925
1330-20-7	Total Xylenes	900	D	10	3.60	30.0	ug/L	10/29/25 12:42	VN102925
95-47-6	o-Xylene	510	D	10	1.20	10.0	ug/L	10/29/25 12:42	VN102925
98-82-8	Isopropylbenzene	17.2	D	10	1.20	10.0	ug/L	10/29/25 12:42	VN102925
103-65-1	n-propylbenzene	34.4	D	10	1.30	10.0	ug/L	10/29/25 12:42	VN102925
108-67-8	1,3,5-Trimethylbenzene	10.0	UD	10	1.50	10.0	ug/L	10/29/25 12:42	VN102925
98-06-6	tert-Butylbenzene	10.0	UDQ	10	1.40	10.0	ug/L	10/29/25 12:42	VN102925
95-63-6	1,2,4-Trimethylbenzene	440	D	10	1.40	10.0	ug/L	10/29/25 12:42	VN102925
135-98-8	sec-Butylbenzene	10.0	UD	10	1.30	10.0	ug/L	10/29/25 12:42	VN102925
99-87-6	p-Isopropyltoluene	10.0	UD	10	1.30	10.0	ug/L	10/29/25 12:42	VN102925
104-51-8	n-Butylbenzene	10.0	UD	10	1.50	10.0	ug/L	10/29/25 12:42	VN102925
91-20-3	Naphthalene	190	D	10	2.00	10.0	ug/L	10/29/25 12:42	VN102925
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	57.2			74 - 125	114%	SPK: 50		
1868-53-7	Dibromofluoromethane	48.3			75 - 124	97%	SPK: 50		
2037-26-5	Toluene-d8	46.5			86 - 113	93%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.1			77 - 121	104%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	208000							
540-36-3	1,4-Difluorobenzene	469000							
3114-55-4	Chlorobenzene-d5	447000							
3855-82-1	1,4-Dichlorobenzene-d4	226000							

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q3468

Client: LiRo Engineers, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	High
Q3468-01	MW-06	1,2-Dichloroethane-d4	50	60.3	121		74	125
		Dibromofluoromethane	50	48.9	98		75	124
		Toluene-d8	50	46.9	94		86	113
		4-Bromofluorobenzene	50	55.0	110		77	121
Q3468-02	MW-08	1,2-Dichloroethane-d4	50	60.4	121		74	125
		Dibromofluoromethane	50	48.3	97		75	124
		Toluene-d8	50	46.7	93		86	113
		4-Bromofluorobenzene	50	55.4	111		77	121
Q3468-02DL	MW-08DL	1,2-Dichloroethane-d4	50	54.8	110		74	125
		Dibromofluoromethane	50	47.6	95		75	124
		Toluene-d8	50	45.3	90		86	113
		4-Bromofluorobenzene	50	51.1	102		77	121
Q3468-03	MW-10	1,2-Dichloroethane-d4	50	52.5	105		74	125
		Dibromofluoromethane	50	46.5	93		75	124
		Toluene-d8	50	44.6	89		86	113
		4-Bromofluorobenzene	50	50.9	102		77	121
Q3468-04	MW-11	1,2-Dichloroethane-d4	50	52.6	105		74	125
		Dibromofluoromethane	50	45.4	91		75	124
		Toluene-d8	50	44.5	89		86	113
		4-Bromofluorobenzene	50	50.1	100		77	121
Q3468-05	MW-13	1,2-Dichloroethane-d4	50	54.5	109		74	125
		Dibromofluoromethane	50	44.8	90		75	124
		Toluene-d8	50	45.0	90		86	113
		4-Bromofluorobenzene	50	51.7	103		77	121
Q3468-06	MW-12	1,2-Dichloroethane-d4	50	54.2	108		74	125
		Dibromofluoromethane	50	46.0	92		75	124
		Toluene-d8	50	44.7	89		86	113
		4-Bromofluorobenzene	50	51.6	103		77	121
Q3468-06DL	MW-12DL	1,2-Dichloroethane-d4	50	57.2	114		74	125
		Dibromofluoromethane	50	48.3	97		75	124
		Toluene-d8	50	46.5	93		86	113
		4-Bromofluorobenzene	50	52.1	104		77	121
VN1027WBL01	VN1027WBL01	1,2-Dichloroethane-d4	50	61.1	122		74	125
		Dibromofluoromethane	50	52.8	106		75	124
		Toluene-d8	50	49.9	100		86	113
		4-Bromofluorobenzene	50	52.0	104		77	121
VN1027WBS01	VN1027WBS01	1,2-Dichloroethane-d4	50	56.2	112		74	125
		Dibromofluoromethane	50	53.2	106		75	124
		Toluene-d8	50	51.1	102		86	113
		4-Bromofluorobenzene	50	52.6	105		77	121
VN1027WBSD0	VN1027WBSD01	1,2-Dichloroethane-d4	50	56.4	113		74	125
		Dibromofluoromethane	50	53.0	106		75	124
		Toluene-d8	50	51.0	102		86	113
		4-Bromofluorobenzene	50	52.9	106		77	121
VN1028WBL01	VN1028WBL01	1,2-Dichloroethane-d4	50	54.8	110		74	125
		Dibromofluoromethane	50	46.8	94		75	124
		Toluene-d8	50	44.8	90		86	113
		4-Bromofluorobenzene	50	48.3	97		77	121
VN1028WBS02	VN1028WBS02	1,2-Dichloroethane-d4	50	48.6	97		74	125
		Dibromofluoromethane	50	47.6	95		75	124

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Surrogate Summary

SDG No.: Q3468

Client: LiRo Engineers, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
VN1028WBS02	VN1028WBS02	Toluene-d8	50	46.6	93		86	113
		4-Bromofluorobenzene	50	47.9	96		77	121
VN1029WBL01	VN1029WBL01	1,2-Dichloroethane-d4	50	54.5	109		74	125
		Dibromofluoromethane	50	46.6	93		75	124
		Toluene-d8	50	44.5	89		86	113
		4-Bromofluorobenzene	50	48.1	96		77	121
VN1029WBS01	VN1029WBS01	1,2-Dichloroethane-d4	50	50.6	101		74	125
		Dibromofluoromethane	50	45.9	92		75	124
		Toluene-d8	50	44.0	88		86	113
		4-Bromofluorobenzene	50	44.4	89		77	121

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3468 **Analytical Method:** SW8260-Low

Client: LiRo Engineers, Inc. **Datafile :** VN088105.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1027WBS01	Methyl tert-butyl Ether	20	21.8	ug/L	109			78	114	
	Benzene	20	21.8	ug/L	109			82	109	
	Toluene	20	21.5	ug/L	108			82	110	
	Ethyl Benzene	20	20.9	ug/L	104			83	109	
	m/p-Xylenes	40	42.1	ug/L	105			82	110	
	o-Xylene	20	21.2	ug/L	106			83	109	
	Isopropylbenzene	20	20.1	ug/L	101			83	112	
	N-propylbenzene	20	20.4	ug/L	102			83	112	
	1,3,5-Trimethylbenzene	20	20.3	ug/L	102			85	112	
	tert-Butylbenzene	20	19.5	ug/L	98			83	112	
	1,2,4-Trimethylbenzene	20	20.6	ug/L	103			85	111	
	Sec-butylbenzene	20	19.9	ug/L	100			81	114	
	p-Isopropyltoluene	20	20.5	ug/L	103			78	116	
	n-Butylbenzene	20	20.1	ug/L	101			75	115	
	Naphthalene	20	19.9	ug/L	100			78	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3468 **Analytical Method:** SW8260-Low

Client: LiRo Engineers, Inc. **Datafile :** VN088106.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1027WBSD01	Methyl tert-butyl Ether	20	21.8	ug/L	109	0		78	114	20
	Benzene	20	21.8	ug/L	109	0		82	109	15
	Toluene	20	21.6	ug/L	108	0		82	110	16
	Ethyl Benzene	20	21.4	ug/L	107	3		83	109	16
	m/p-Xylenes	40	42.3	ug/L	106	1		82	110	15
	o-Xylene	20	21.4	ug/L	107	1		83	109	20
	Isopropylbenzene	20	20.6	ug/L	103	2		83	112	29
	N-propylbenzene	20	21.0	ug/L	105	3		83	112	20
	1,3,5-Trimethylbenzene	20	21.3	ug/L	106	4		85	112	20
	tert-Butylbenzene	20	20.1	ug/L	101	3		83	112	20
	1,2,4-Trimethylbenzene	20	21.2	ug/L	106	3		85	111	20
	Sec-butylbenzene	20	20.5	ug/L	103	3		81	114	20
	p-Isopropyltoluene	20	21.0	ug/L	105	2		78	116	20
	n-Butylbenzene	20	20.9	ug/L	104	3		75	115	20
	Naphthalene	20	21.1	ug/L	106	6		78	119	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3468 **Analytical Method:** SW8260-Low

Client: LiRo Engineers, Inc. **Datafile :** VN088131.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1028WBS02	Methyl tert-butyl Ether	20	21.2	ug/L	106			78	114	
	Benzene	20	21.7	ug/L	109			82	109	
	Toluene	20	21.5	ug/L	108			82	110	
	Ethyl Benzene	20	22.0	ug/L	110		*	83	109	
	m/p-Xylenes	40	43.2	ug/L	108			82	110	
	o-Xylene	20	22.1	ug/L	111		*	83	109	
	Isopropylbenzene	20	21.3	ug/L	106			83	112	
	N-propylbenzene	20	21.7	ug/L	109			83	112	
	1,3,5-Trimethylbenzene	20	21.9	ug/L	110			85	112	
	tert-Butylbenzene	20	21.1	ug/L	106			83	112	
	1,2,4-Trimethylbenzene	20	22.0	ug/L	110			85	111	
	Sec-butylbenzene	20	21.6	ug/L	108			81	114	
	p-Isopropyltoluene	20	22.5	ug/L	113			78	116	
	n-Butylbenzene	20	21.5	ug/L	108			75	115	
	Naphthalene	20	20.8	ug/L	104			78	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3468 **Analytical Method:** SW8260-Low

Client: LiRo Engineers, Inc. **Datafile :** VN088150.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1029WBS01	Methyl tert-butyl Ether	20	19.6	ug/L	98			78	114	
	Benzene	20	19.2	ug/L	96			82	109	
	Toluene	20	18.6	ug/L	93			82	110	
	Ethyl Benzene	20	18.2	ug/L	91			83	109	
	m/p-Xylenes	40	35.7	ug/L	89			82	110	
	o-Xylene	20	18.3	ug/L	92			83	109	
	Isopropylbenzene	20	17.1	ug/L	86			83	112	
	N-propylbenzene	20	17.0	ug/L	85			83	112	
	1,3,5-Trimethylbenzene	20	17.8	ug/L	89			85	112	
	tert-Butylbenzene	20	16.2	ug/L	81		*	83	112	
	1,2,4-Trimethylbenzene	20	17.8	ug/L	89			85	111	
	Sec-butylbenzene	20	16.3	ug/L	81			81	114	
	p-Isopropyltoluene	20	17.2	ug/L	86			78	116	
	n-Butylbenzene	20	16.6	ug/L	83			75	115	
	Naphthalene	20	17.3	ug/L	86			78	119	

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VOLATILE METHOD BLANK SUMMARY

Client ID: VN1027WBL01

Lab Name: Alliance | Contract: LIRO01

Lab Code: ACE | SDG NO.: Q3468

Lab File ID: VN088104.D | Lab Sample ID: VN1027WBL01

Date Analyzed: 10/27/2025 | Time Analyzed: 11:34

GC Column: RXI-624 ID: 0.25 (mm) | Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1027WBS01	VN1027WBS01	VN088105.D	10/27/2025
VN1027WBSD01	VN1027WBSD01	VN088106.D	10/27/2025
MW-11	Q3468-04	VN088124.D	10/27/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VN1028WBL01

Lab Name: Alliance | Contract: LIRO01

Lab Code: ACE | SDG NO.: Q3468

Lab File ID: VN088129.D | Lab Sample ID: VN1028WBL01

Date Analyzed: 10/28/2025 | Time Analyzed: 11:17

GC Column: RXI-624 ID: 0.25 (mm) | Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1028WBS02	VN1028WBS02	VN088131.D	10/28/2025
MW-10	Q3468-03	VN088135.D	10/28/2025
MW-12	Q3468-06	VN088136.D	10/28/2025
MW-08	Q3468-02	VN088138.D	10/28/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VN1029WBL01

Lab Name: Alliance | Contract: LIRO01

Lab Code: ACE | SDG NO.: Q3468

Lab File ID: VN088149.D | Lab Sample ID: VN1029WBL01

Date Analyzed: 10/29/2025 | Time Analyzed: 11:06

GC Column: RXI-624 ID: 0.25 (mm) | Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1029WBS01	VN1029WBS01	VN088150.D	10/29/2025
MW-08DL	Q3468-02DL	VN088152.D	10/29/2025
MW-12DL	Q3468-06DL	VN088153.D	10/29/2025
MW-06	Q3468-01	VN088154.D	10/29/2025
MW-13	Q3468-05	VN088170.D	10/29/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: LIRO01
Lab Code: ACE
SDG NO.: Q3468
Lab File ID: VN088077.D
BFB Injection Date: 10/23/2025
Instrument ID: MSVOA_N
BFB Injection Time: 09:09
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.7
75	30.0 - 60.0% of mass 95	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 (0.6) 1
174	50.0 - 100.0% of mass 95	64.7
175	5.0 - 9.0% of mass 174	5.8 (8.9) 1
176	95.0 - 101.0% of mass 174	62.6 (96.8) 1
177	5.0 - 9.0% of mass 176	4.5 (7.2) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VN088078.D	10/23/2025	09:42
VSTDICC005	VSTDICC005	VN088079.D	10/23/2025	10:38
VSTDICC020	VSTDICC020	VN088080.D	10/23/2025	10:59
VSTDICCC050	VSTDICCC050	VN088081.D	10/23/2025	11:20
VSTDICC100	VSTDICC100	VN088082.D	10/23/2025	11:41
VSTDICC150	VSTDICC150	VN088083.D	10/23/2025	12:02

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: LIRO01
Lab Code: ACE
SDG NO.: Q3468
Lab File ID: VN088101.D
BFB Injection Date: 10/27/2025
Instrument ID: MSVOA_N
BFB Injection Time: 09:58
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.7
75	30.0 - 60.0% of mass 95	57.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.4 (0.6) 1
174	50.0 - 100.0% of mass 95	68.6
175	5.0 - 9.0% of mass 174	5.1 (7.4) 1
176	95.0 - 101.0% of mass 174	65.3 (95.2) 1
177	5.0 - 9.0% of mass 176	4.2 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN088102.D	10/27/2025	10:40
VN1027WBL01	VN1027WBL01	VN088104.D	10/27/2025	11:34
VN1027WBS01	VN1027WBS01	VN088105.D	10/27/2025	11:55
VN1027WBSD01	VN1027WBSD01	VN088106.D	10/27/2025	12:29
MW-11	Q3468-04	VN088124.D	10/27/2025	18:41

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: LIRO01
Lab Code: ACE
SDG NO.: Q3468
Lab File ID: VN088126.D
BFB Injection Date: 10/28/2025
Instrument ID: MSVOA_N
BFB Injection Time: 09:26
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.1
75	30.0 - 60.0% of mass 95	57.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 100.0% of mass 95	66.3
175	5.0 - 9.0% of mass 174	5 (7.6) 1
176	95.0 - 101.0% of mass 174	65 (98) 1
177	5.0 - 9.0% of mass 176	4.2 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN088127.D	10/28/2025	10:23
VN1028WBL01	VN1028WBL01	VN088129.D	10/28/2025	11:17
VN1028WBS02	VN1028WBS02	VN088131.D	10/28/2025	12:14
MW-10	Q3468-03	VN088135.D	10/28/2025	13:38
MW-12	Q3468-06	VN088136.D	10/28/2025	13:59
MW-08	Q3468-02	VN088138.D	10/28/2025	14:40

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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: LIRO01
Lab Code: ACE
SDG NO.: Q3468
Lab File ID: VN088146.D
BFB Injection Date: 10/29/2025
Instrument ID: MSVOA_N
BFB Injection Time: 09:07
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.7
75	30.0 - 60.0% of mass 95	59.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	67.6
175	5.0 - 9.0% of mass 174	5 (7.4) 1
176	95.0 - 101.0% of mass 174	66.9 (99) 1
177	5.0 - 9.0% of mass 176	4.6 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN088147.D	10/29/2025	10:24
VN1029WBL01	VN1029WBL01	VN088149.D	10/29/2025	11:06
VN1029WBS01	VN1029WBS01	VN088150.D	10/29/2025	11:27
MW-08DL	Q3468-02DL	VN088152.D	10/29/2025	12:21
MW-12DL	Q3468-06DL	VN088153.D	10/29/2025	12:42
MW-06	Q3468-01	VN088154.D	10/29/2025	13:03
MW-13	Q3468-05	VN088170.D	10/29/2025	18:33

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: LIRO01

Lab Code: ACE SDG NO.: Q3468

Lab File ID: VN088102.D Date Analyzed: 10/27/2025

Instrument ID: MSVOA_N Time Analyzed: 10:40

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	321965	8.21	587119	9.08	522069	11.84
UPPER LIMIT	643930	8.706	1174240	9.582	1044140	12.341
LOWER LIMIT	160983	7.706	293560	8.582	261035	11.341
EPA SAMPLE NO.						
MW-11	263533	8.21	588016	9.08	556110	11.84
VN1027WBL01	198801	8.21	446179	9.08	422679	11.84
VN1027WBS01	300941	8.21	563874	9.08	505093	11.85
VN1027WBSD01	293635	8.21	537984	9.08	482887	11.85

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: LIRO01

Lab Code: ACE SDG NO.: Q3468

Lab File ID: VN088102.D Date Analyzed: 10/27/2025

Instrument ID: MSVOA_N Time Analyzed: 10:40

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	267876	13.77				
UPPER LIMIT	535752	14.27				
LOWER LIMIT	133938	13.27				
EPA SAMPLE NO.						
MW-11	269618	13.77				
VN1027WBL01	199580	13.77				
VN1027WBS01	256562	13.77				
VN1027WBSD01	241641	13.77				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: LIRO01

Lab Code: ACE SDG NO.: Q3468

Lab File ID: VN088127.D Date Analyzed: 10/28/2025

Instrument ID: MSVOA_N Time Analyzed: 10:23

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	299407	8.21	575460	9.08	507990	11.85
UPPER LIMIT	598814	8.706	1150920	9.582	1015980	12.347
LOWER LIMIT	149704	7.706	287730	8.582	253995	11.347
EPA SAMPLE NO.						
MW-08	280779	8.21	636841	9.08	622260	11.85
MW-10	236497	8.21	529671	9.08	500860	11.85
MW-12	238860	8.21	531874	9.08	512440	11.85
VN1028WBL01	231261	8.21	516618	9.08	484454	11.85
VN1028WBS02	325166	8.21	590689	9.08	518318	11.85

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: LIRO01

Lab Code: ACE SDG NO.: Q3468

Lab File ID: VN088127.D Date Analyzed: 10/28/2025

Instrument ID: MSVOA_N Time Analyzed: 10:23

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	256667	13.77				
UPPER LIMIT	513334	14.27				
LOWER LIMIT	128334	13.27				
EPA SAMPLE NO.						
MW-08	313348	13.77				
MW-10	243219	13.77				
MW-12	250379	13.77				
VN1028WBL01	238378	13.77				
VN1028WBS02	257534	13.77				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: LIRO01

Lab Code: ACE SDG NO.: Q3468

Lab File ID: VN088147.D Date Analyzed: 10/29/2025

Instrument ID: MSVOA_N Time Analyzed: 10:24

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	276791	8.21	513941	9.08	450607	11.85
UPPER LIMIT	553582	8.706	1027880	9.583	901214	12.347
LOWER LIMIT	138396	7.706	256971	8.583	225304	11.347
EPA SAMPLE NO.						
MW-06	239807	8.21	555035	9.08	540568	11.85
MW-08DL	214217	8.21	486300	9.08	458325	11.85
MW-13	328066	8.21	750626	9.08	708184	11.85
MW-12DL	208467	8.21	468936	9.08	447110	11.85
VN1029WBL01	220088	8.21	494622	9.08	463889	11.85
VN1029WBS01	234631	8.21	449642	9.08	401244	11.85

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: LIRO01

Lab Code: ACE SDG NO.: Q3468

Lab File ID: VN088147.D Date Analyzed: 10/29/2025

Instrument ID: MSVOA_N Time Analyzed: 10:24

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	235546	13.77				
UPPER LIMIT	471092	14.27				
LOWER LIMIT	117773	13.27				
EPA SAMPLE NO.						
MW-06	270083	13.77				
MW-08DL	232108	13.77				
MW-13	354853	13.77				
MW-12DL	226296	13.77				
VN1029WBL01	222427	13.77				
VN1029WBS01	206462	13.77				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	RFK Bridge RMB-Randall Island	Date Received:	
Client Sample ID:	VN1027WBL01	SDG No.:	Q3468
Lab Sample ID:	VN1027WBL01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
1634-04-4	Methyl tert-butyl Ether	1.00	U	1	0.16	1.00	ug/L	10/27/25 11:34	VN102725
71-43-2	Benzene	1.00	U	1	0.15	1.00	ug/L	10/27/25 11:34	VN102725
108-88-3	Toluene	1.00	U	1	0.14	1.00	ug/L	10/27/25 11:34	VN102725
100-41-4	Ethyl Benzene	1.00	U	1	0.13	1.00	ug/L	10/27/25 11:34	VN102725
179601-23-1	m/p-Xylenes	2.00	U	1	0.24	2.00	ug/L	10/27/25 11:34	VN102725
1330-20-7	Total Xylenes	3.00	U	1	0.36	3.00	ug/L	10/27/25 11:34	VN102725
95-47-6	o-Xylene	1.00	U	1	0.12	1.00	ug/L	10/27/25 11:34	VN102725
98-82-8	Isopropylbenzene	1.00	U	1	0.12	1.00	ug/L	10/27/25 11:34	VN102725
103-65-1	n-propylbenzene	1.00	U	1	0.13	1.00	ug/L	10/27/25 11:34	VN102725
108-67-8	1,3,5-Trimethylbenzene	1.00	U	1	0.15	1.00	ug/L	10/27/25 11:34	VN102725
98-06-6	tert-Butylbenzene	1.00	U	1	0.14	1.00	ug/L	10/27/25 11:34	VN102725
95-63-6	1,2,4-Trimethylbenzene	1.00	U	1	0.14	1.00	ug/L	10/27/25 11:34	VN102725
135-98-8	sec-Butylbenzene	1.00	U	1	0.13	1.00	ug/L	10/27/25 11:34	VN102725
99-87-6	p-Isopropyltoluene	1.00	U	1	0.13	1.00	ug/L	10/27/25 11:34	VN102725
104-51-8	n-Butylbenzene	1.00	U	1	0.15	1.00	ug/L	10/27/25 11:34	VN102725
91-20-3	Naphthalene	1.00	U	1	0.20	1.00	ug/L	10/27/25 11:34	VN102725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	61.1			74 - 125	122%	SPK: 50		
1868-53-7	Dibromofluoromethane	52.8			75 - 124	106%	SPK: 50		
2037-26-5	Toluene-d8	49.9			86 - 113	100%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.9			77 - 121	104%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	199000							
540-36-3	1,4-Difluorobenzene	446000							
3114-55-4	Chlorobenzene-d5	423000							
3855-82-1	1,4-Dichlorobenzene-d4	200000							

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	RFK Bridge RMB-Randall Island	Date Received:	
Client Sample ID:	VN1028WBL01	SDG No.:	Q3468
Lab Sample ID:	VN1028WBL01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
1634-04-4	Methyl tert-butyl Ether	1.00	U	1	0.16	1.00	ug/L	10/28/25 11:17	VN102825
71-43-2	Benzene	1.00	U	1	0.15	1.00	ug/L	10/28/25 11:17	VN102825
108-88-3	Toluene	1.00	U	1	0.14	1.00	ug/L	10/28/25 11:17	VN102825
100-41-4	Ethyl Benzene	1.00	U	1	0.13	1.00	ug/L	10/28/25 11:17	VN102825
179601-23-1	m/p-Xylenes	2.00	U	1	0.24	2.00	ug/L	10/28/25 11:17	VN102825
1330-20-7	Total Xylenes	3.00	U	1	0.36	3.00	ug/L	10/28/25 11:17	VN102825
95-47-6	o-Xylene	1.00	U	1	0.12	1.00	ug/L	10/28/25 11:17	VN102825
98-82-8	Isopropylbenzene	1.00	U	1	0.12	1.00	ug/L	10/28/25 11:17	VN102825
103-65-1	n-propylbenzene	1.00	U	1	0.13	1.00	ug/L	10/28/25 11:17	VN102825
108-67-8	1,3,5-Trimethylbenzene	1.00	U	1	0.15	1.00	ug/L	10/28/25 11:17	VN102825
98-06-6	tert-Butylbenzene	1.00	U	1	0.14	1.00	ug/L	10/28/25 11:17	VN102825
95-63-6	1,2,4-Trimethylbenzene	1.00	U	1	0.14	1.00	ug/L	10/28/25 11:17	VN102825
135-98-8	sec-Butylbenzene	1.00	U	1	0.13	1.00	ug/L	10/28/25 11:17	VN102825
99-87-6	p-Isopropyltoluene	1.00	U	1	0.13	1.00	ug/L	10/28/25 11:17	VN102825
104-51-8	n-Butylbenzene	1.00	U	1	0.15	1.00	ug/L	10/28/25 11:17	VN102825
91-20-3	Naphthalene	1.00	U	1	0.20	1.00	ug/L	10/28/25 11:17	VN102825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.8			74 - 125	110%	SPK: 50		
1868-53-7	Dibromofluoromethane	46.8			75 - 124	94%	SPK: 50		
2037-26-5	Toluene-d8	44.8			86 - 113	90%	SPK: 50		
460-00-4	4-Bromofluorobenzene	48.3			77 - 121	97%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	231000							
540-36-3	1,4-Difluorobenzene	517000							
3114-55-4	Chlorobenzene-d5	484000							
3855-82-1	1,4-Dichlorobenzene-d4	238000							

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	RFK Bridge RMB-Randall Island	Date Received:	
Client Sample ID:	VN1029WBL01	SDG No.:	Q3468
Lab Sample ID:	VN1029WBL01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
1634-04-4	Methyl tert-butyl Ether	1.00	U	1	0.16	1.00	ug/L	10/29/25 11:06	VN102925
71-43-2	Benzene	1.00	U	1	0.15	1.00	ug/L	10/29/25 11:06	VN102925
108-88-3	Toluene	1.00	U	1	0.14	1.00	ug/L	10/29/25 11:06	VN102925
100-41-4	Ethyl Benzene	1.00	U	1	0.13	1.00	ug/L	10/29/25 11:06	VN102925
179601-23-1	m/p-Xylenes	2.00	U	1	0.24	2.00	ug/L	10/29/25 11:06	VN102925
1330-20-7	Total Xylenes	3.00	U	1	0.36	3.00	ug/L	10/29/25 11:06	VN102925
95-47-6	o-Xylene	1.00	U	1	0.12	1.00	ug/L	10/29/25 11:06	VN102925
98-82-8	Isopropylbenzene	1.00	U	1	0.12	1.00	ug/L	10/29/25 11:06	VN102925
103-65-1	n-propylbenzene	1.00	U	1	0.13	1.00	ug/L	10/29/25 11:06	VN102925
108-67-8	1,3,5-Trimethylbenzene	1.00	U	1	0.15	1.00	ug/L	10/29/25 11:06	VN102925
98-06-6	tert-Butylbenzene	1.00	U	1	0.14	1.00	ug/L	10/29/25 11:06	VN102925
95-63-6	1,2,4-Trimethylbenzene	1.00	U	1	0.14	1.00	ug/L	10/29/25 11:06	VN102925
135-98-8	sec-Butylbenzene	1.00	U	1	0.13	1.00	ug/L	10/29/25 11:06	VN102925
99-87-6	p-Isopropyltoluene	1.00	U	1	0.13	1.00	ug/L	10/29/25 11:06	VN102925
104-51-8	n-Butylbenzene	1.00	U	1	0.15	1.00	ug/L	10/29/25 11:06	VN102925
91-20-3	Naphthalene	1.00	U	1	0.20	1.00	ug/L	10/29/25 11:06	VN102925
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.5			74 - 125	109%	SPK: 50		
1868-53-7	Dibromofluoromethane	46.6			75 - 124	93%	SPK: 50		
2037-26-5	Toluene-d8	44.5			86 - 113	89%	SPK: 50		
460-00-4	4-Bromofluorobenzene	48.1			77 - 121	96%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	220000							
540-36-3	1,4-Difluorobenzene	495000							
3114-55-4	Chlorobenzene-d5	464000							
3855-82-1	1,4-Dichlorobenzene-d4	222000							

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
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J = Estimated Value
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* = Values outside of QC limits
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	RFK Bridge RMB-Randall Island	Date Received:	
Client Sample ID:	VN1027WBS01	SDG No.:	Q3468
Lab Sample ID:	VN1027WBS01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
1634-04-4	Methyl tert-butyl Ether	21.8		1	0.16	1.00	ug/L	10/27/25 11:55	VN102725
71-43-2	Benzene	21.8		1	0.15	1.00	ug/L	10/27/25 11:55	VN102725
108-88-3	Toluene	21.5		1	0.14	1.00	ug/L	10/27/25 11:55	VN102725
100-41-4	Ethyl Benzene	20.9		1	0.13	1.00	ug/L	10/27/25 11:55	VN102725
179601-23-1	m/p-Xylenes	42.1		1	0.24	2.00	ug/L	10/27/25 11:55	VN102725
1330-20-7	Total Xylenes	63.3		1	0.36	3.00	ug/L	10/27/25 11:55	VN102725
95-47-6	o-Xylene	21.2		1	0.12	1.00	ug/L	10/27/25 11:55	VN102725
98-82-8	Isopropylbenzene	20.1		1	0.12	1.00	ug/L	10/27/25 11:55	VN102725
103-65-1	n-propylbenzene	20.4		1	0.13	1.00	ug/L	10/27/25 11:55	VN102725
108-67-8	1,3,5-Trimethylbenzene	20.3		1	0.15	1.00	ug/L	10/27/25 11:55	VN102725
98-06-6	tert-Butylbenzene	19.5		1	0.14	1.00	ug/L	10/27/25 11:55	VN102725
95-63-6	1,2,4-Trimethylbenzene	20.6		1	0.14	1.00	ug/L	10/27/25 11:55	VN102725
135-98-8	sec-Butylbenzene	19.9		1	0.13	1.00	ug/L	10/27/25 11:55	VN102725
99-87-6	p-Isopropyltoluene	20.5		1	0.13	1.00	ug/L	10/27/25 11:55	VN102725
104-51-8	n-Butylbenzene	20.1		1	0.15	1.00	ug/L	10/27/25 11:55	VN102725
91-20-3	Naphthalene	19.9		1	0.20	1.00	ug/L	10/27/25 11:55	VN102725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	56.2			74 - 125	112%	SPK: 50		
1868-53-7	Dibromofluoromethane	53.2			75 - 124	106%	SPK: 50		
2037-26-5	Toluene-d8	51.1			86 - 113	102%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.6			77 - 121	105%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	301000							
540-36-3	1,4-Difluorobenzene	564000							
3114-55-4	Chlorobenzene-d5	505000							
3855-82-1	1,4-Dichlorobenzene-d4	257000							

U = Not Detected
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Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	RFK Bridge RMB-Randall Island	Date Received:	
Client Sample ID:	VN1028WBS02	SDG No.:	Q3468
Lab Sample ID:	VN1028WBS02	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
1634-04-4	Methyl tert-butyl Ether	21.2		1	0.16	1.00	ug/L	10/28/25 12:14	VN102825
71-43-2	Benzene	21.7		1	0.15	1.00	ug/L	10/28/25 12:14	VN102825
108-88-3	Toluene	21.5		1	0.14	1.00	ug/L	10/28/25 12:14	VN102825
100-41-4	Ethyl Benzene	22.0		1	0.13	1.00	ug/L	10/28/25 12:14	VN102825
179601-23-1	m/p-Xylenes	43.2		1	0.24	2.00	ug/L	10/28/25 12:14	VN102825
1330-20-7	Total Xylenes	65.3		1	0.36	3.00	ug/L	10/28/25 12:14	VN102825
95-47-6	o-Xylene	22.1		1	0.12	1.00	ug/L	10/28/25 12:14	VN102825
98-82-8	Isopropylbenzene	21.3		1	0.12	1.00	ug/L	10/28/25 12:14	VN102825
103-65-1	n-propylbenzene	21.7		1	0.13	1.00	ug/L	10/28/25 12:14	VN102825
108-67-8	1,3,5-Trimethylbenzene	21.9		1	0.15	1.00	ug/L	10/28/25 12:14	VN102825
98-06-6	tert-Butylbenzene	21.1		1	0.14	1.00	ug/L	10/28/25 12:14	VN102825
95-63-6	1,2,4-Trimethylbenzene	22.0		1	0.14	1.00	ug/L	10/28/25 12:14	VN102825
135-98-8	sec-Butylbenzene	21.6		1	0.13	1.00	ug/L	10/28/25 12:14	VN102825
99-87-6	p-Isopropyltoluene	22.5		1	0.13	1.00	ug/L	10/28/25 12:14	VN102825
104-51-8	n-Butylbenzene	21.5		1	0.15	1.00	ug/L	10/28/25 12:14	VN102825
91-20-3	Naphthalene	20.8		1	0.20	1.00	ug/L	10/28/25 12:14	VN102825
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	48.6			74 - 125	97%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.6			75 - 124	95%	SPK: 50		
2037-26-5	Toluene-d8	46.6			86 - 113	93%	SPK: 50		
460-00-4	4-Bromofluorobenzene	47.9			77 - 121	96%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	325000							
540-36-3	1,4-Difluorobenzene	591000							
3114-55-4	Chlorobenzene-d5	518000							
3855-82-1	1,4-Dichlorobenzene-d4	258000							

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	RFK Bridge RMB-Randall Island	Date Received:	
Client Sample ID:	VN1029WBS01	SDG No.:	Q3468
Lab Sample ID:	VN1029WBS01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
1634-04-4	Methyl tert-butyl Ether	19.6		1	0.16	1.00	ug/L	10/29/25 11:27	VN102925
71-43-2	Benzene	19.2		1	0.15	1.00	ug/L	10/29/25 11:27	VN102925
108-88-3	Toluene	18.6		1	0.14	1.00	ug/L	10/29/25 11:27	VN102925
100-41-4	Ethyl Benzene	18.2		1	0.13	1.00	ug/L	10/29/25 11:27	VN102925
179601-23-1	m/p-Xylenes	35.7		1	0.24	2.00	ug/L	10/29/25 11:27	VN102925
1330-20-7	Total Xylenes	54.0		1	0.36	3.00	ug/L	10/29/25 11:27	VN102925
95-47-6	o-Xylene	18.3		1	0.12	1.00	ug/L	10/29/25 11:27	VN102925
98-82-8	Isopropylbenzene	17.1		1	0.12	1.00	ug/L	10/29/25 11:27	VN102925
103-65-1	n-propylbenzene	17.0		1	0.13	1.00	ug/L	10/29/25 11:27	VN102925
108-67-8	1,3,5-Trimethylbenzene	17.8		1	0.15	1.00	ug/L	10/29/25 11:27	VN102925
98-06-6	tert-Butylbenzene	16.2		1	0.14	1.00	ug/L	10/29/25 11:27	VN102925
95-63-6	1,2,4-Trimethylbenzene	17.8		1	0.14	1.00	ug/L	10/29/25 11:27	VN102925
135-98-8	sec-Butylbenzene	16.3		1	0.13	1.00	ug/L	10/29/25 11:27	VN102925
99-87-6	p-Isopropyltoluene	17.2		1	0.13	1.00	ug/L	10/29/25 11:27	VN102925
104-51-8	n-Butylbenzene	16.6		1	0.15	1.00	ug/L	10/29/25 11:27	VN102925
91-20-3	Naphthalene	17.3		1	0.20	1.00	ug/L	10/29/25 11:27	VN102925
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	50.6			74 - 125	101%	SPK: 50		
1868-53-7	Dibromofluoromethane	45.9			75 - 124	92%	SPK: 50		
2037-26-5	Toluene-d8	44.0			86 - 113	88%	SPK: 50		
460-00-4	4-Bromofluorobenzene	44.4			77 - 121	89%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	235000							
540-36-3	1,4-Difluorobenzene	450000							
3114-55-4	Chlorobenzene-d5	401000							
3855-82-1	1,4-Dichlorobenzene-d4	206000							

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Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	RFK Bridge RMB-Randall Island	Date Received:	
Client Sample ID:	VN1027WBSD01	SDG No.:	Q3468
Lab Sample ID:	VN1027WBSD01	Matrix:	Water
Analytical Method:	8260D	Level : LOW	% Solid: 0
Sample Wt/Vol:	5 mL	Final Vol: 5000 uL	Test: VOCMS Group1

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
1634-04-4	Methyl tert-butyl Ether	21.8		1	0.16	1.00	ug/L	10/27/25 12:29	VN102725
71-43-2	Benzene	21.8		1	0.15	1.00	ug/L	10/27/25 12:29	VN102725
108-88-3	Toluene	21.6		1	0.14	1.00	ug/L	10/27/25 12:29	VN102725
100-41-4	Ethyl Benzene	21.4		1	0.13	1.00	ug/L	10/27/25 12:29	VN102725
179601-23-1	m/p-Xylenes	42.3		1	0.24	2.00	ug/L	10/27/25 12:29	VN102725
1330-20-7	Total Xylenes	63.7		1	0.36	3.00	ug/L	10/27/25 12:29	VN102725
95-47-6	o-Xylene	21.4		1	0.12	1.00	ug/L	10/27/25 12:29	VN102725
98-82-8	Isopropylbenzene	20.6		1	0.12	1.00	ug/L	10/27/25 12:29	VN102725
103-65-1	n-propylbenzene	21.0		1	0.13	1.00	ug/L	10/27/25 12:29	VN102725
108-67-8	1,3,5-Trimethylbenzene	21.3		1	0.15	1.00	ug/L	10/27/25 12:29	VN102725
98-06-6	tert-Butylbenzene	20.1		1	0.14	1.00	ug/L	10/27/25 12:29	VN102725
95-63-6	1,2,4-Trimethylbenzene	21.2		1	0.14	1.00	ug/L	10/27/25 12:29	VN102725
135-98-8	sec-Butylbenzene	20.5		1	0.13	1.00	ug/L	10/27/25 12:29	VN102725
99-87-6	p-Isopropyltoluene	21.0		1	0.13	1.00	ug/L	10/27/25 12:29	VN102725
104-51-8	n-Butylbenzene	20.9		1	0.15	1.00	ug/L	10/27/25 12:29	VN102725
91-20-3	Naphthalene	21.1		1	0.20	1.00	ug/L	10/27/25 12:29	VN102725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	56.4			74 - 125	113%	SPK: 50		
1868-53-7	Dibromofluoromethane	53.0			75 - 124	106%	SPK: 50		
2037-26-5	Toluene-d8	51.0			86 - 113	102%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.9			77 - 121	106%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	294000							
540-36-3	1,4-Difluorobenzene	538000							
3114-55-4	Chlorobenzene-d5	483000							
3855-82-1	1,4-Dichlorobenzene-d4	242000							

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CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: LIRO01

Lab Code: ACE SDG No.: Q3468

Instrument ID: MSVOA_N Calibration Date(s): 10/23/2025 10/23/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:42 12:02

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF001 = VN088078.D RRF005 = VN088079.D RRF020 = VN088080.D
RRF050 = VN088081.D RRF100 = VN088082.D RRF150 = VN088083.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Methyl tert-butyl Ether	2.356	2.498	2.493	1.790	2.370	2.342	2.308	11.4
Benzene	1.621	1.577	1.609	1.216	1.372	1.566	1.494	10.9
Toluene	0.971	0.958	0.991	0.755	0.862	0.989	0.921	10.2
Ethyl Benzene	2.069	2.066	2.123	1.649	1.873	2.177	1.993	9.9
m/p-Xylenes	0.733	0.774	0.804	0.635	0.708	0.827	0.747	9.4
o-Xylene	0.670	0.742	0.764	0.604	0.684	0.784	0.708	9.6
Isopropylbenzene	4.189	3.857	4.067	3.173	3.580	4.272	3.856	10.8
n-propylbenzene	4.874	4.855	4.930	3.925	4.436	5.217	4.706	9.7
1,3,5-Trimethylbenzene	3.329	3.254	3.385	2.669	3.028	3.551	3.203	9.8
tert-Butylbenzene	3.154	2.876	3.002	2.358	2.646	3.131	2.861	10.8
1,2,4-Trimethylbenzene	3.242	3.316	3.465	2.700	3.012	3.491	3.204	9.4
sec-Butylbenzene	4.578	4.273	4.382	3.490	3.881	4.616	4.203	10.4
p-Isopropyltoluene	3.269	3.541	3.602	2.866	3.170	3.783	3.372	9.9
n-Butylbenzene	3.396	3.438	3.493	2.827	3.158	3.730	3.340	9.3
Naphthalene	3.451	3.110	3.437	2.732	3.203	3.987	3.320	12.6
1,2-Dichloroethane-d4		0.914	0.915	0.799	0.822	0.872	0.865	6.1
Dibromofluoromethane		0.343	0.344	0.315	0.327	0.350	0.336	4.3
Toluene-d8		1.283	1.298	1.224	1.283	1.384	1.294	4.4
4-Bromofluorobenzene		0.435	0.457	0.439	0.466	0.488	0.457	4.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: LIRO01

Lab Code: ACE | SDG No.: Q3468

Instrument ID: MSVOA_N | Calibration Date/Time: 10/27/2025 10:40

Lab File ID: VN088102.D | Init. Calib. Date(s): 10/23/2025 10/23/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:42 12:02

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl tert-butyl Ether	2.308	2.427		5.16	20
Benzene	1.494	1.599		7.03	20
Toluene	0.921	0.975		5.86	20
Ethyl Benzene	1.993	2.130		6.87	20
m/p-Xylenes	0.747	0.796		6.56	20
o-Xylene	0.708	0.768		8.48	20
Isopropylbenzene	3.856	4.002		3.79	20
n-propylbenzene	4.706	4.968		5.57	20
1,3,5-Trimethylbenzene	3.203	3.432		7.15	20
tert-Butylbenzene	2.861	2.988		4.44	20
1,2,4-Trimethylbenzene	3.204	3.458		7.93	20
sec-Butylbenzene	4.203	4.388		4.4	20
p-Isopropyltoluene	3.372	3.664		8.66	20
n-Butylbenzene	3.340	3.566		6.77	20
Naphthalene	3.320	3.431		3.34	20
1,2-Dichloroethane-d4	0.865	0.876		1.27	20
Dibromofluoromethane	0.336	0.332		-1.19	20
Toluene-d8	1.294	1.241		-4.1	20
4-Bromofluorobenzene	0.457	0.460		0.66	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: LIRO01

Lab Code: ACE | SDG No.: Q3468

Instrument ID: MSVOA_N | Calibration Date/Time: 10/28/2025 10:23

Lab File ID: VN088127.D | Init. Calib. Date(s): 10/23/2025 10/23/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:42 12:02

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl tert-butyl Ether	2.308	2.786		20.71	20
Benzene	1.494	1.602		7.23	20
Toluene	0.921	0.978		6.19	20
Ethyl Benzene	1.993	2.129		6.82	20
m/p-Xylenes	0.747	0.796		6.56	20
o-Xylene	0.708	0.779		10.03	20
Isopropylbenzene	3.856	3.984		3.32	20
n-propylbenzene	4.706	4.889		3.89	20
1,3,5-Trimethylbenzene	3.203	3.442		7.46	20
tert-Butylbenzene	2.861	2.928		2.34	20
1,2,4-Trimethylbenzene	3.204	3.555		10.95	20
sec-Butylbenzene	4.203	4.256		1.26	20
p-Isopropyltoluene	3.372	3.599		6.73	20
n-Butylbenzene	3.340	3.444		3.11	20
Naphthalene	3.320	3.767		13.46	20
1,2-Dichloroethane-d4	0.865	0.954		10.29	20
Dibromofluoromethane	0.336	0.330		-1.79	20
Toluene-d8	1.294	1.205		-6.88	20
4-Bromofluorobenzene	0.457	0.461		0.88	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: LIRO01

Lab Code: ACE | SDG No.: Q3468

Instrument ID: MSVOA_N | Calibration Date/Time: 10/29/2025 10:24

Lab File ID: VN088147.D | Init. Calib. Date(s): 10/23/2025 10/23/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 09:42 12:02

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Methyl tert-butyl Ether	2.308	2.670		15.69	20
Benzene	1.494	1.622		8.57	20
Toluene	0.921	0.998		8.36	20
Ethyl Benzene	1.993	2.204		10.59	20
m/p-Xylenes	0.747	0.817		9.37	20
o-Xylene	0.708	0.796		12.43	20
Isopropylbenzene	3.856	4.049		5.01	20
n-propylbenzene	4.706	5.001		6.27	20
1,3,5-Trimethylbenzene	3.203	3.418		6.71	20
tert-Butylbenzene	2.861	2.965		3.63	20
1,2,4-Trimethylbenzene	3.204	3.544		10.61	20
sec-Butylbenzene	4.203	4.348		3.45	20
p-Isopropyltoluene	3.372	3.656		8.42	20
n-Butylbenzene	3.340	3.566		6.77	20
Naphthalene	3.320	3.695		11.3	20
1,2-Dichloroethane-d4	0.865	0.988		14.22	20
Dibromofluoromethane	0.336	0.354		5.36	20
Toluene-d8	1.294	1.288		-0.46	20
4-Bromofluorobenzene	0.457	0.482		5.47	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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LAB CHRONICLE

OrderID:	Q3468	**OrderDate:**	10/27/2025 11:00:00 AM
Client:	LiRo Engineers, Inc.	**Project:**	RFK Bridge RMB-Randall Island
Contact:	Martin Wesolowski	**Location:**	D41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3468-01	**MW-06**	**Water**			**10/23/25**			**10/24/25**
			SVOCMS Group1	8270E		10/28/25	10/29/25	
Q3468-02	**MW-08**	**Water**			**10/23/25**			**10/24/25**
			SVOCMS Group1	8270E		10/28/25	10/29/25	
Q3468-03	**MW-10**	**Water**			**10/23/25**			**10/24/25**
			SVOCMS Group1	8270E		10/28/25	10/29/25	
Q3468-04	**MW-11**	**Water**			**10/23/25**			**10/24/25**
			SVOCMS Group1	8270E		10/28/25	10/29/25	
Q3468-05	**MW-13**	**Water**			**10/23/25**			**10/24/25**
			SVOCMS Group1	8270E		10/28/25	10/29/25	
Q3468-06	**MW-12**	**Water**			**10/23/25**			**10/24/25**
			SVOCMS Group1	8270E		10/28/25	10/29/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3468

Client: LiRo Engineers, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW-06								
Q3468-01	MW-06	WATER	Acenaphthene	14.200		0.56	5.1	ug/L
Q3468-01	MW-06	WATER	Fluorene	7.200		0.64	5.1	ug/L
Q3468-01	MW-06	WATER	Phenanthrene	6.100		0.51	5.1	ug/L
Q3468-01	MW-06	WATER	Anthracene	3.500	J	0.62	5.1	ug/L
Q3468-01	MW-06	WATER	Fluoranthene	6.900		0.84	5.1	ug/L
Q3468-01	MW-06	WATER	Pyrene	4.700	J	0.51	5.1	ug/L
			Total Svoc :			**42.60**		
			Total Concentration:			**42.60**		

SAMPLE DATA

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	10/23/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	10/24/25
Client Sample ID:	MW-06	SDG No.:	Q3468
Lab Sample ID:	Q3468-01	Matrix:	Water
Analytical Method:	8270E Level: LOW	% Solid:	0
Sample Wt/Vol:	980 mL Final Vol: 1000 uL	Test:	SVOCMS Group1
Prep Method :	3510C Prep Date: 10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
208-96-8	Acenaphthylene	5.10	U	1	0.77	5.10	ug/L	10/29/25 18:56	PB170286
83-32-9	Acenaphthene	14.2		1	0.56	5.10	ug/L	10/29/25 18:56	PB170286
86-73-7	Fluorene	7.20		1	0.64	5.10	ug/L	10/29/25 18:56	PB170286
85-01-8	Phenanthrene	6.10		1	0.51	5.10	ug/L	10/29/25 18:56	PB170286
120-12-7	Anthracene	3.50	J	1	0.62	5.10	ug/L	10/29/25 18:56	PB170286
206-44-0	Fluoranthene	6.90		1	0.84	5.10	ug/L	10/29/25 18:56	PB170286
129-00-0	Pyrene	4.70	J	1	0.51	5.10	ug/L	10/29/25 18:56	PB170286
56-55-3	Benzo(a)anthracene	5.10	U	1	0.46	5.10	ug/L	10/29/25 18:56	PB170286
218-01-9	Chrysene	5.10	U	1	0.45	5.10	ug/L	10/29/25 18:56	PB170286
205-99-2	Benzo(b)fluoranthene	5.10	U	1	0.50	5.10	ug/L	10/29/25 18:56	PB170286
207-08-9	Benzo(k)fluoranthene	5.10	U	1	0.49	5.10	ug/L	10/29/25 18:56	PB170286
50-32-8	Benzo(a)pyrene	5.10	U	1	0.56	5.10	ug/L	10/29/25 18:56	PB170286
193-39-5	Indeno(1,2,3-cd)pyrene	5.10	U	1	0.60	5.10	ug/L	10/29/25 18:56	PB170286
53-70-3	Dibenzo(a,h)anthracene	5.10	U	1	0.68	5.10	ug/L	10/29/25 18:56	PB170286
191-24-2	Benzo(g,h,i)perylene	5.10	U	1	0.70	5.10	ug/L	10/29/25 18:56	PB170286
SURROGATES									
4165-60-0	Nitrobenzene-d5	120			67 - 132	120%	SPK: 100		
321-60-8	2-Fluorobiphenyl	95.3			52 - 132	95%	SPK: 100		
1718-51-0	Terphenyl-d14	96.2			42 - 152	96%	SPK: 100		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	29700							
1146-65-2	Naphthalene-d8	117000							
15067-26-2	Acenaphthene-d10	94500							
1517-22-2	Phenanthrene-d10	229000							
1719-03-5	Chrysene-d12	284000							
1520-96-3	Perylene-d12	313000							

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	10/23/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	10/24/25
Client Sample ID:	MW-08	SDG No.:	Q3468
Lab Sample ID:	Q3468-02	Matrix:	Water
Analytical Method:	8270E Level: LOW	% Solid:	0
Sample Wt/Vol:	990 mL Final Vol: 1000 uL	Test:	SVOCMS Group1
Prep Method :	3510C Prep Date: 10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
208-96-8	Acenaphthylene	5.10	U	1	0.76	5.10	ug/L	10/29/25 19:37	PB170286
83-32-9	Acenaphthene	5.10	U	1	0.56	5.10	ug/L	10/29/25 19:37	PB170286
86-73-7	Fluorene	5.10	U	1	0.64	5.10	ug/L	10/29/25 19:37	PB170286
85-01-8	Phenanthrene	5.10	U	1	0.51	5.10	ug/L	10/29/25 19:37	PB170286
120-12-7	Anthracene	5.10	U	1	0.62	5.10	ug/L	10/29/25 19:37	PB170286
206-44-0	Fluoranthene	5.10	U	1	0.83	5.10	ug/L	10/29/25 19:37	PB170286
129-00-0	Pyrene	5.10	U	1	0.51	5.10	ug/L	10/29/25 19:37	PB170286
56-55-3	Benzo(a)anthracene	5.10	U	1	0.45	5.10	ug/L	10/29/25 19:37	PB170286
218-01-9	Chrysene	5.10	U	1	0.44	5.10	ug/L	10/29/25 19:37	PB170286
205-99-2	Benzo(b)fluoranthene	5.10	U	1	0.49	5.10	ug/L	10/29/25 19:37	PB170286
207-08-9	Benzo(k)fluoranthene	5.10	U	1	0.48	5.10	ug/L	10/29/25 19:37	PB170286
50-32-8	Benzo(a)pyrene	5.10	U	1	0.56	5.10	ug/L	10/29/25 19:37	PB170286
193-39-5	Indeno(1,2,3-cd)pyrene	5.10	U	1	0.60	5.10	ug/L	10/29/25 19:37	PB170286
53-70-3	Dibenzo(a,h)anthracene	5.10	U	1	0.68	5.10	ug/L	10/29/25 19:37	PB170286
191-24-2	Benzo(g,h,i)perylene	5.10	U	1	0.70	5.10	ug/L	10/29/25 19:37	PB170286
SURROGATES									
4165-60-0	Nitrobenzene-d5	118			67 - 132	118%	SPK: 100		
321-60-8	2-Fluorobiphenyl	85.9			52 - 132	86%	SPK: 100		
1718-51-0	Terphenyl-d14	87.9			42 - 152	88%	SPK: 100		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	30500							
1146-65-2	Naphthalene-d8	123000							
15067-26-2	Acenaphthene-d10	99500							
1517-22-2	Phenanthrene-d10	227000							
1719-03-5	Chrysene-d12	290000							
1520-96-3	Perylene-d12	314000							

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	10/23/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	10/24/25
Client Sample ID:	MW-10	SDG No.:	Q3468
Lab Sample ID:	Q3468-03	Matrix:	Water
Analytical Method:	8270E Level: LOW	% Solid:	0
Sample Wt/Vol:	970 mL Final Vol: 1000 uL	Test:	SVOCMS Group1
Prep Method :	3510C Prep Date: 10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
208-96-8	Acenaphthylene	5.20	U	1	0.77	5.20	ug/L	10/29/25 20:18	PB170286
83-32-9	Acenaphthene	5.20	U	1	0.57	5.20	ug/L	10/29/25 20:18	PB170286
86-73-7	Fluorene	5.20	U	1	0.65	5.20	ug/L	10/29/25 20:18	PB170286
85-01-8	Phenanthrene	5.20	U	1	0.52	5.20	ug/L	10/29/25 20:18	PB170286
120-12-7	Anthracene	5.20	U	1	0.63	5.20	ug/L	10/29/25 20:18	PB170286
206-44-0	Fluoranthene	5.20	U	1	0.85	5.20	ug/L	10/29/25 20:18	PB170286
129-00-0	Pyrene	5.20	U	1	0.52	5.20	ug/L	10/29/25 20:18	PB170286
56-55-3	Benzo(a)anthracene	5.20	U	1	0.46	5.20	ug/L	10/29/25 20:18	PB170286
218-01-9	Chrysene	5.20	U	1	0.45	5.20	ug/L	10/29/25 20:18	PB170286
205-99-2	Benzo(b)fluoranthene	5.20	U	1	0.51	5.20	ug/L	10/29/25 20:18	PB170286
207-08-9	Benzo(k)fluoranthene	5.20	U	1	0.49	5.20	ug/L	10/29/25 20:18	PB170286
50-32-8	Benzo(a)pyrene	5.20	U	1	0.57	5.20	ug/L	10/29/25 20:18	PB170286
193-39-5	Indeno(1,2,3-cd)pyrene	5.20	U	1	0.61	5.20	ug/L	10/29/25 20:18	PB170286
53-70-3	Dibenzo(a,h)anthracene	5.20	U	1	0.69	5.20	ug/L	10/29/25 20:18	PB170286
191-24-2	Benzo(g,h,i)perylene	5.20	U	1	0.71	5.20	ug/L	10/29/25 20:18	PB170286
SURROGATES									
4165-60-0	Nitrobenzene-d5	132			67 - 132	132%	SPK: 100		
321-60-8	2-Fluorobiphenyl	110			52 - 132	110%	SPK: 100		
1718-51-0	Terphenyl-d14	104			42 - 152	104%	SPK: 100		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	27600							
1146-65-2	Naphthalene-d8	111000							
15067-26-2	Acenaphthene-d10	81800							
1517-22-2	Phenanthrene-d10	193000							
1719-03-5	Chrysene-d12	252000							
1520-96-3	Perylene-d12	279000							

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	10/23/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	10/24/25
Client Sample ID:	MW-11	SDG No.:	Q3468
Lab Sample ID:	Q3468-04	Matrix:	Water
Analytical Method:	8270E Level: LOW	% Solid:	0
Sample Wt/Vol:	990 mL Final Vol: 1000 uL	Test:	SVOCMS Group1
Prep Method :	3510C Prep Date: 10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
208-96-8	Acenaphthylene	5.10	U	1	0.76	5.10	ug/L	10/29/25 20:59	PB170286
83-32-9	Acenaphthene	5.10	U	1	0.56	5.10	ug/L	10/29/25 20:59	PB170286
86-73-7	Fluorene	5.10	U	1	0.64	5.10	ug/L	10/29/25 20:59	PB170286
85-01-8	Phenanthrene	5.10	U	1	0.51	5.10	ug/L	10/29/25 20:59	PB170286
120-12-7	Anthracene	5.10	U	1	0.62	5.10	ug/L	10/29/25 20:59	PB170286
206-44-0	Fluoranthene	5.10	U	1	0.83	5.10	ug/L	10/29/25 20:59	PB170286
129-00-0	Pyrene	5.10	U	1	0.51	5.10	ug/L	10/29/25 20:59	PB170286
56-55-3	Benzo(a)anthracene	5.10	U	1	0.45	5.10	ug/L	10/29/25 20:59	PB170286
218-01-9	Chrysene	5.10	U	1	0.44	5.10	ug/L	10/29/25 20:59	PB170286
205-99-2	Benzo(b)fluoranthene	5.10	U	1	0.49	5.10	ug/L	10/29/25 20:59	PB170286
207-08-9	Benzo(k)fluoranthene	5.10	U	1	0.48	5.10	ug/L	10/29/25 20:59	PB170286
50-32-8	Benzo(a)pyrene	5.10	U	1	0.56	5.10	ug/L	10/29/25 20:59	PB170286
193-39-5	Indeno(1,2,3-cd)pyrene	5.10	U	1	0.60	5.10	ug/L	10/29/25 20:59	PB170286
53-70-3	Dibenzo(a,h)anthracene	5.10	U	1	0.68	5.10	ug/L	10/29/25 20:59	PB170286
191-24-2	Benzo(g,h,i)perylene	5.10	U	1	0.70	5.10	ug/L	10/29/25 20:59	PB170286
SURROGATES									
4165-60-0	Nitrobenzene-d5	123			67 - 132	123%	SPK: 100		
321-60-8	2-Fluorobiphenyl	101			52 - 132	101%	SPK: 100		
1718-51-0	Terphenyl-d14	92.9			42 - 152	93%	SPK: 100		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	33300							
1146-65-2	Naphthalene-d8	137000							
15067-26-2	Acenaphthene-d10	104000							
1517-22-2	Phenanthrene-d10	235000							
1719-03-5	Chrysene-d12	295000							
1520-96-3	Perylene-d12	322000							

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	10/23/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	10/24/25
Client Sample ID:	MW-13	SDG No.:	Q3468
Lab Sample ID:	Q3468-05	Matrix:	Water
Analytical Method:	8270E Level: LOW	% Solid:	0
Sample Wt/Vol:	1000 mL Final Vol: 1000 uL	Test:	SVOCMS Group1
Prep Method :	3510C Prep Date: 10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
208-96-8	Acenaphthylene	5.00	U	1	0.75	5.00	ug/L	10/29/25 21:40	PB170286
83-32-9	Acenaphthene	5.00	U	1	0.55	5.00	ug/L	10/29/25 21:40	PB170286
86-73-7	Fluorene	5.00	U	1	0.63	5.00	ug/L	10/29/25 21:40	PB170286
85-01-8	Phenanthrene	5.00	U	1	0.50	5.00	ug/L	10/29/25 21:40	PB170286
120-12-7	Anthracene	5.00	U	1	0.61	5.00	ug/L	10/29/25 21:40	PB170286
206-44-0	Fluoranthene	5.00	U	1	0.82	5.00	ug/L	10/29/25 21:40	PB170286
129-00-0	Pyrene	5.00	U	1	0.50	5.00	ug/L	10/29/25 21:40	PB170286
56-55-3	Benzo(a)anthracene	5.00	U	1	0.45	5.00	ug/L	10/29/25 21:40	PB170286
218-01-9	Chrysene	5.00	U	1	0.44	5.00	ug/L	10/29/25 21:40	PB170286
205-99-2	Benzo(b)fluoranthene	5.00	U	1	0.49	5.00	ug/L	10/29/25 21:40	PB170286
207-08-9	Benzo(k)fluoranthene	5.00	U	1	0.48	5.00	ug/L	10/29/25 21:40	PB170286
50-32-8	Benzo(a)pyrene	5.00	U	1	0.55	5.00	ug/L	10/29/25 21:40	PB170286
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	1	0.59	5.00	ug/L	10/29/25 21:40	PB170286
53-70-3	Dibenzo(a,h)anthracene	5.00	U	1	0.67	5.00	ug/L	10/29/25 21:40	PB170286
191-24-2	Benzo(g,h,i)perylene	5.00	U	1	0.69	5.00	ug/L	10/29/25 21:40	PB170286
SURROGATES									
4165-60-0	Nitrobenzene-d5	113			67 - 132	113%	SPK: 100		
321-60-8	2-Fluorobiphenyl	94.7			52 - 132	95%	SPK: 100		
1718-51-0	Terphenyl-d14	90.7			42 - 152	91%	SPK: 100		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	31900							
1146-65-2	Naphthalene-d8	122000							
15067-26-2	Acenaphthene-d10	91000							
1517-22-2	Phenanthrene-d10	220000							
1719-03-5	Chrysene-d12	278000							
1520-96-3	Perylene-d12	306000							

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	10/23/25
Project:	RFK Bridge RMB-Randall Island	Date Received:	10/24/25
Client Sample ID:	MW-12	SDG No.:	Q3468
Lab Sample ID:	Q3468-06	Matrix:	Water
Analytical Method:	8270E Level: LOW	% Solid:	0
Sample Wt/Vol:	950 mL Final Vol: 1000 uL	Test:	SVOCMS Group1
Prep Method :	3510C Prep Date: 10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
208-96-8	Acenaphthylene	5.30	U	1	0.79	5.30	ug/L	10/29/25 22:21	PB170286
83-32-9	Acenaphthene	5.30	U	1	0.58	5.30	ug/L	10/29/25 22:21	PB170286
86-73-7	Fluorene	5.30	U	1	0.66	5.30	ug/L	10/29/25 22:21	PB170286
85-01-8	Phenanthrene	5.30	U	1	0.53	5.30	ug/L	10/29/25 22:21	PB170286
120-12-7	Anthracene	5.30	U	1	0.64	5.30	ug/L	10/29/25 22:21	PB170286
206-44-0	Fluoranthene	5.30	U	1	0.86	5.30	ug/L	10/29/25 22:21	PB170286
129-00-0	Pyrene	5.30	U	1	0.53	5.30	ug/L	10/29/25 22:21	PB170286
56-55-3	Benzo(a)anthracene	5.30	U	1	0.47	5.30	ug/L	10/29/25 22:21	PB170286
218-01-9	Chrysene	5.30	U	1	0.46	5.30	ug/L	10/29/25 22:21	PB170286
205-99-2	Benzo(b)fluoranthene	5.30	U	1	0.52	5.30	ug/L	10/29/25 22:21	PB170286
207-08-9	Benzo(k)fluoranthene	5.30	U	1	0.51	5.30	ug/L	10/29/25 22:21	PB170286
50-32-8	Benzo(a)pyrene	5.30	U	1	0.58	5.30	ug/L	10/29/25 22:21	PB170286
193-39-5	Indeno(1,2,3-cd)pyrene	5.30	U	1	0.62	5.30	ug/L	10/29/25 22:21	PB170286
53-70-3	Dibenzo(a,h)anthracene	5.30	U	1	0.71	5.30	ug/L	10/29/25 22:21	PB170286
191-24-2	Benzo(g,h,i)perylene	5.30	U	1	0.73	5.30	ug/L	10/29/25 22:21	PB170286
SURROGATES									
4165-60-0	Nitrobenzene-d5	117			67 - 132	117%	SPK: 100		
321-60-8	2-Fluorobiphenyl	86.3			52 - 132	86%	SPK: 100		
1718-51-0	Terphenyl-d14	92.3			42 - 152	92%	SPK: 100		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	32000							
1146-65-2	Naphthalene-d8	124000							
15067-26-2	Acenaphthene-d10	102000							
1517-22-2	Phenanthrene-d10	213000							
1719-03-5	Chrysene-d12	279000							
1520-96-3	Perylene-d12	310000							

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SW-846

SDG No.: Q3468

Client: LiRo Engineers, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB170286BL	PB170286BL	Nitrobenzene-d5	100	102	102		67	132
		2-Fluorobiphenyl	100	87.4	87		52	132
		Terphenyl-d14	100	79.4	79		42	152
PB170286BS	PB170286BS	Nitrobenzene-d5	100	93.9	94		67	132
		2-Fluorobiphenyl	100	79.9	80		52	132
		Terphenyl-d14	100	79.5	79		42	152
PB170286BSD	PB170286BSD	Nitrobenzene-d5	100	97.0	97		67	132
		2-Fluorobiphenyl	100	79.8	80		52	132
		Terphenyl-d14	100	80.6	81		42	152
Q3468-01	MW-06	Nitrobenzene-d5	100	120	120		67	132
		2-Fluorobiphenyl	100	95.3	95		52	132
		Terphenyl-d14	100	96.2	96		42	152
Q3468-02	MW-08	Nitrobenzene-d5	100	118	118		67	132
		2-Fluorobiphenyl	100	85.9	86		52	132
		Terphenyl-d14	100	87.9	88		42	152
Q3468-03	MW-10	Nitrobenzene-d5	100	132	132		67	132
		2-Fluorobiphenyl	100	110	110		52	132
		Terphenyl-d14	100	104	104		42	152
Q3468-04	MW-11	Nitrobenzene-d5	100	123	123		67	132
		2-Fluorobiphenyl	100	101	101		52	132
		Terphenyl-d14	100	92.9	93		42	152
Q3468-05	MW-13	Nitrobenzene-d5	100	113	113		67	132
		2-Fluorobiphenyl	100	94.7	95		52	132
		Terphenyl-d14	100	90.7	91		42	152
Q3468-06	MW-12	Nitrobenzene-d5	100	117	117		67	132
		2-Fluorobiphenyl	100	86.3	86		52	132
		Terphenyl-d14	100	92.3	92		42	152

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3468 **Analytical Method:** 8270E

Client: LiRo Engineers, Inc. **DataFile:** BG064638.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB170286BS	Acenaphthylene	50	44.6	ug/L	89				79	103	
	Acenaphthene	50	45.1	ug/L	90				59	113	
	Fluorene	50	41.0	ug/L	82				64	107	
	Phenanthrene	50	40.4	ug/L	81				62	109	
	Anthracene	50	40.2	ug/L	80				65	110	
	Fluoranthene	50	41.6	ug/L	83				64	110	
	Pyrene	50	38.0	ug/L	76				71	103	
	Benzo(a)anthracene	50	40.7	ug/L	81				62	107	
	Chrysene	50	40.2	ug/L	80				61	108	
	Benzo(b)fluoranthene	50	43.3	ug/L	87				77	113	
	Benzo(k)fluoranthene	50	43.1	ug/L	86				77	105	
	Benzo(a)pyrene	50	45.1	ug/L	90				72	131	
	Indeno(1,2,3-cd)pyrene	50	43.3	ug/L	87				72	105	
	Dibenz(a,h)anthracene	50	43.7	ug/L	87				78	115	
	Benzo(g,h,i)perylene	50	45.2	ug/L	90				75	118	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3468 **Analytical Method:** 8270E

Client: LiRo Engineers, Inc. **DataFile:** BG064639.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB170286BSD	Acenaphthylene	50	44.5	ug/L	89	0			79	103	20
	Acenaphthene	50	45.3	ug/L	91	0			59	113	20
	Fluorene	50	40.0	ug/L	80	2			64	107	20
	Phenanthrene	50	40.3	ug/L	81	0			62	109	20
	Anthracene	50	40.1	ug/L	80	0			65	110	20
	Fluoranthene	50	41.3	ug/L	83	1			64	110	20
	Pyrene	50	37.9	ug/L	76	0			71	103	20
	Benzo(a)anthracene	50	40.7	ug/L	81	0			62	107	20
	Chrysene	50	40.5	ug/L	81	1			61	108	20
	Benzo(b)fluoranthene	50	43.9	ug/L	88	1			77	113	20
	Benzo(k)fluoranthene	50	43.0	ug/L	86	0			77	105	20
	Benzo(a)pyrene	50	44.8	ug/L	90	1			72	131	20
	Indeno(1,2,3-cd)pyrene	50	43.3	ug/L	87	0			72	105	20
	Dibenz(a,h)anthracene	50	44.4	ug/L	89	2			78	115	20
	Benzo(g,h,i)perylene	50	44.6	ug/L	89	1			75	118	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB170286BL

Lab Name: Alliance | Contract: LIRO01

Lab Code: ACE | SDG NO.: Q3468

Lab File ID: BG064637.D | Lab Sample ID: PB170286BL

Instrument ID: BNA_G | Date Extracted: 10/28/2025

Matrix: (soil/water) Water | Date Analyzed: 10/30/2025

Level: (low/med) LOW | Time Analyzed: 12:17

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB170286BS	PB170286BS	BG064638.D	10/30/2025
PB170286BSD	PB170286BSD	BG064639.D	10/30/2025
MW-06	Q3468-01	BG064629.D	10/29/2025
MW-08	Q3468-02	BG064630.D	10/29/2025
MW-10	Q3468-03	BG064631.D	10/29/2025
MW-11	Q3468-04	BG064632.D	10/29/2025
MW-13	Q3468-05	BG064633.D	10/29/2025
MW-12	Q3468-06	BG064634.D	10/29/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: LIRO01

Lab Code: ACE SDG NO.: Q3468

Lab File ID: BG064568.D DFTPP Injection Date: 10/24/2025

Instrument ID: BNA_G DFTPP Injection Time: 08:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	35.3
70	Less than 2.0% of mass 69	0.1 (0.2) 1
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.2
365	Greater than 1% of mass 198	5.1
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	92.7
443	15.0 - 24.0% of mass 442	17.5 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BG064569.D	10/24/2025	09:00
SSTDICC005	SSTDICC005	BG064570.D	10/24/2025	09:41
SSTDICC010	SSTDICC010	BG064571.D	10/24/2025	11:02
SSTDICC020	SSTDICC020	BG064572.D	10/24/2025	12:23
SSTDICCC040	SSTDICCC040	BG064573.D	10/24/2025	13:03
SSTDICC060	SSTDICC060	BG064574.D	10/24/2025	13:44
SSTDICC080	SSTDICC080	BG064575.D	10/24/2025	14:24
SSTDICC050	SSTDICC050	BG064576.D	10/24/2025	15:32

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: LIRO01

Lab Code: ACE | SDG NO.: Q3468

Lab File ID: BG064617.D | DFTPP Injection Date: 10/29/2025

Instrument ID: BNA_G | DFTPP Injection Time: 10:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.3 (1) 1
69	Mass 69 relative abundance	31.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.3
365	Greater than 1% of mass 198	5.3
441	Present, but less than mass 443	16.1
442	Greater than 50% of mass 198	97.3
443	15.0 - 24.0% of mass 442	17.5 (18) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG064618.D	10/29/2025	11:22
MW-06	Q3468-01	BG064629.D	10/29/2025	18:56
MW-08	Q3468-02	BG064630.D	10/29/2025	19:37
MW-10	Q3468-03	BG064631.D	10/29/2025	20:18
MW-11	Q3468-04	BG064632.D	10/29/2025	20:59
MW-13	Q3468-05	BG064633.D	10/29/2025	21:40
MW-12	Q3468-06	BG064634.D	10/29/2025	22:21

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: LIRO01

Lab Code: ACE SDG NO.: Q3468

Lab File ID: BG064635.D DFTPP Injection Date: 10/30/2025

Instrument ID: BNA_G DFTPP Injection Time: 10:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.2 (0.7) 1
69	Mass 69 relative abundance	34.4
70	Less than 2.0% of mass 69	0.0 (0.0) 1
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.3
365	Greater than 1% of mass 198	5.1
441	Present, but less than mass 443	15.1
442	Greater than 50% of mass 198	94.2
443	15.0 - 24.0% of mass 442	18.8 (20) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG064636.D	10/30/2025	11:36
PB170286BL	PB170286BL	BG064637.D	10/30/2025	12:17
PB170286BS	PB170286BS	BG064638.D	10/30/2025	12:58
PB170286BSD	PB170286BSD	BG064639.D	10/30/2025	13:39

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3468

Client ID : SSTDCCC040 Date Analyzed: 10/29/2025

Lab File ID: BG064618.D Time Analyzed: 11:22

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	36613	8.223	148961	11.04	108882	14.84
	UPPER LIMIT	73226	8.723	297922	11.543	217764	15.339
	LOWER LIMIT	18306.5	7.723	74480.5	10.543	54441	14.339
	EPA SAMPLE NO.						
01	MW-12	31994	8.22	123990	11.04	102275	14.84
02	MW-06	29669	8.21	117287	11.04	94541	14.84
03	MW-08	30503	8.22	122508	11.04	99505	14.84
04	MW-10	27605	8.22	111146	11.04	81763	14.84
05	MW-11	33286	8.22	137382	11.04	103755	14.84
06	MW-13	31875	8.22	122159	11.04	91004	14.84

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Fax : 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3468

Client ID: SSTDCCC040 Date Analyzed: 10/29/2025

Lab File ID: BG064618.D Time Analyzed: 11:22

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	241683	17.577	261016	21.854	298207	25.197
	UPPER LIMIT	483366	18.077	522032	22.354	596414	25.697
	LOWER LIMIT	120842	17.077	130508	21.354	149104	24.697
	EPA SAMPLE NO.						
01	MW-12	212573	17.57	278839	21.84	309539	25.19
02	MW-06	229494	17.57	284022	21.85	312536	25.19
03	MW-08	226879	17.57	289509	21.85	314104	25.19
04	MW-10	192626	17.58	251896	21.85	278585	25.19
05	MW-11	234664	17.57	295229	21.85	321514	25.19
06	MW-13	219936	17.57	277573	21.85	306088	25.19

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3468

Client ID : SSTDCCC040 Date Analyzed: 10/30/2025

Lab File ID: BG064636.D Time Analyzed: 11:36

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	32501	8.219	127691	11.05	94503	14.84
	UPPER LIMIT	65002	8.719	255382	11.545	189006	15.341
	LOWER LIMIT	16250.5	7.719	63845.5	10.545	47251.5	14.341
	EPA SAMPLE NO.						
01	PB170286BL	25136	8.22	99198	11.04	73729	14.84
02	PB170286BS	30784	8.22	124677	11.04	97021	14.84
03	PB170286BSD	30191	8.22	121649	11.04	100532	14.84

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3468

Client ID: SSTDCCC040 Date Analyzed: 10/30/2025

Lab File ID: BG064636.D Time Analyzed: 11:36

Instrument ID: BNA_G GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	210658	17.579	257813	21.856	295961	25.199
	UPPER LIMIT	421316	18.079	515626	22.356	591922	25.699
	LOWER LIMIT	105329	17.079	128907	21.356	147981	24.699
	EPA SAMPLE NO.						
01	PB170286BL	191571	17.58	261407	21.85	302809	25.19
02	PB170286BS	242858	17.58	288177	21.85	302049	25.20
03	PB170286BSD	246375	17.58	288758	21.86	302411	25.19

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	RFK Bridge RMB-Randall Island	Date Received:	
Client Sample ID:	PB170286BL	SDG No.:	Q3468
Lab Sample ID:	PB170286BL	Matrix:	Water
Analytical Method:	8270E Level: LOW	% Solid:	0
Sample Wt/Vol:	1000 mL Final Vol: 1000 uL	Test:	SVOCMS Group1
Prep Method :	3510C Prep Date: 10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
208-96-8	Acenaphthylene	5.00	U	1	0.75	5.00	ug/L	10/30/25 12:17	PB170286
83-32-9	Acenaphthene	5.00	U	1	0.55	5.00	ug/L	10/30/25 12:17	PB170286
86-73-7	Fluorene	5.00	U	1	0.63	5.00	ug/L	10/30/25 12:17	PB170286
85-01-8	Phenanthrene	5.00	U	1	0.50	5.00	ug/L	10/30/25 12:17	PB170286
120-12-7	Anthracene	5.00	U	1	0.61	5.00	ug/L	10/30/25 12:17	PB170286
206-44-0	Fluoranthene	5.00	U	1	0.82	5.00	ug/L	10/30/25 12:17	PB170286
129-00-0	Pyrene	5.00	U	1	0.50	5.00	ug/L	10/30/25 12:17	PB170286
56-55-3	Benzo(a)anthracene	5.00	U	1	0.45	5.00	ug/L	10/30/25 12:17	PB170286
218-01-9	Chrysene	5.00	U	1	0.44	5.00	ug/L	10/30/25 12:17	PB170286
205-99-2	Benzo(b)fluoranthene	5.00	U	1	0.49	5.00	ug/L	10/30/25 12:17	PB170286
207-08-9	Benzo(k)fluoranthene	5.00	U	1	0.48	5.00	ug/L	10/30/25 12:17	PB170286
50-32-8	Benzo(a)pyrene	5.00	U	1	0.55	5.00	ug/L	10/30/25 12:17	PB170286
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	1	0.59	5.00	ug/L	10/30/25 12:17	PB170286
53-70-3	Dibenzo(a,h)anthracene	5.00	U	1	0.67	5.00	ug/L	10/30/25 12:17	PB170286
191-24-2	Benzo(g,h,i)perylene	5.00	U	1	0.69	5.00	ug/L	10/30/25 12:17	PB170286
SURROGATES									
4165-60-0	Nitrobenzene-d5	102			67 - 132	102%	SPK: 100		
321-60-8	2-Fluorobiphenyl	87.4			52 - 132	87%	SPK: 100		
1718-51-0	Terphenyl-d14	79.4			42 - 152	79%	SPK: 100		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	25100							
1146-65-2	Naphthalene-d8	99200							
15067-26-2	Acenaphthene-d10	73700							
1517-22-2	Phenanthrene-d10	192000							
1719-03-5	Chrysene-d12	261000							
1520-96-3	Perylene-d12	303000							

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	RFK Bridge RMB-Randall Island	Date Received:	
Client Sample ID:	PB170286BS	SDG No.:	Q3468
Lab Sample ID:	PB170286BS	Matrix:	Water
Analytical Method:	8270E Level: LOW	% Solid:	0
Sample Wt/Vol:	1000 mL Final Vol: 1000 uL	Test:	SVOCMS Group1
Prep Method :	3510C Prep Date: 10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
208-96-8	Acenaphthylene	44.6		1	0.75	5.00	ug/L	10/30/25 12:58	PB170286
83-32-9	Acenaphthene	45.1		1	0.55	5.00	ug/L	10/30/25 12:58	PB170286
86-73-7	Fluorene	41.0		1	0.63	5.00	ug/L	10/30/25 12:58	PB170286
85-01-8	Phenanthrene	40.4		1	0.50	5.00	ug/L	10/30/25 12:58	PB170286
120-12-7	Anthracene	40.2		1	0.61	5.00	ug/L	10/30/25 12:58	PB170286
206-44-0	Fluoranthene	41.6		1	0.82	5.00	ug/L	10/30/25 12:58	PB170286
129-00-0	Pyrene	38.0		1	0.50	5.00	ug/L	10/30/25 12:58	PB170286
56-55-3	Benzo(a)anthracene	40.7		1	0.45	5.00	ug/L	10/30/25 12:58	PB170286
218-01-9	Chrysene	40.2		1	0.44	5.00	ug/L	10/30/25 12:58	PB170286
205-99-2	Benzo(b)fluoranthene	43.3		1	0.49	5.00	ug/L	10/30/25 12:58	PB170286
207-08-9	Benzo(k)fluoranthene	43.1		1	0.48	5.00	ug/L	10/30/25 12:58	PB170286
50-32-8	Benzo(a)pyrene	45.1		1	0.55	5.00	ug/L	10/30/25 12:58	PB170286
193-39-5	Indeno(1,2,3-cd)pyrene	43.3		1	0.59	5.00	ug/L	10/30/25 12:58	PB170286
53-70-3	Dibenzo(a,h)anthracene	43.7		1	0.67	5.00	ug/L	10/30/25 12:58	PB170286
191-24-2	Benzo(g,h,i)perylene	45.2		1	0.69	5.00	ug/L	10/30/25 12:58	PB170286
SURROGATES									
4165-60-0	Nitrobenzene-d5	93.9			67 - 132	94%	SPK: 100		
321-60-8	2-Fluorobiphenyl	79.9			52 - 132	80%	SPK: 100		
1718-51-0	Terphenyl-d14	79.5			42 - 152	79%	SPK: 100		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	30800							
1146-65-2	Naphthalene-d8	125000							
15067-26-2	Acenaphthene-d10	97000							
1517-22-2	Phenanthrene-d10	243000							
1719-03-5	Chrysene-d12	288000							
1520-96-3	Perylene-d12	302000							

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Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	
Project:	RFK Bridge RMB-Randall Island	Date Received:	
Client Sample ID:	PB170286BSD	SDG No.:	Q3468
Lab Sample ID:	PB170286BSD	Matrix:	Water
Analytical Method:	8270E Level: LOW	% Solid:	0
Sample Wt/Vol:	1000 mL Final Vol: 1000 uL	Test:	SVOCMS Group1
Prep Method :	3510C Prep Date: 10/28/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
208-96-8	Acenaphthylene	44.5		1	0.75	5.00	ug/L	10/30/25 13:39	PB170286
83-32-9	Acenaphthene	45.3		1	0.55	5.00	ug/L	10/30/25 13:39	PB170286
86-73-7	Fluorene	40.0		1	0.63	5.00	ug/L	10/30/25 13:39	PB170286
85-01-8	Phenanthrene	40.3		1	0.50	5.00	ug/L	10/30/25 13:39	PB170286
120-12-7	Anthracene	40.1		1	0.61	5.00	ug/L	10/30/25 13:39	PB170286
206-44-0	Fluoranthene	41.3		1	0.82	5.00	ug/L	10/30/25 13:39	PB170286
129-00-0	Pyrene	37.9		1	0.50	5.00	ug/L	10/30/25 13:39	PB170286
56-55-3	Benzo(a)anthracene	40.7		1	0.45	5.00	ug/L	10/30/25 13:39	PB170286
218-01-9	Chrysene	40.5		1	0.44	5.00	ug/L	10/30/25 13:39	PB170286
205-99-2	Benzo(b)fluoranthene	43.9		1	0.49	5.00	ug/L	10/30/25 13:39	PB170286
207-08-9	Benzo(k)fluoranthene	43.0		1	0.48	5.00	ug/L	10/30/25 13:39	PB170286
50-32-8	Benzo(a)pyrene	44.8		1	0.55	5.00	ug/L	10/30/25 13:39	PB170286
193-39-5	Indeno(1,2,3-cd)pyrene	43.3		1	0.59	5.00	ug/L	10/30/25 13:39	PB170286
53-70-3	Dibenzo(a,h)anthracene	44.4		1	0.67	5.00	ug/L	10/30/25 13:39	PB170286
191-24-2	Benzo(g,h,i)perylene	44.6		1	0.69	5.00	ug/L	10/30/25 13:39	PB170286
SURROGATES									
4165-60-0	Nitrobenzene-d5	97.0			67 - 132	97%	SPK: 100		
321-60-8	2-Fluorobiphenyl	79.8			52 - 132	80%	SPK: 100		
1718-51-0	Terphenyl-d14	80.6			42 - 152	81%	SPK: 100		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	30200							
1146-65-2	Naphthalene-d8	122000							
15067-26-2	Acenaphthene-d10	101000							
1517-22-2	Phenanthrene-d10	246000							
1719-03-5	Chrysene-d12	289000							
1520-96-3	Perylene-d12	302000							

U = Not Detected
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E = Value Exceeds Calibration Range
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG102425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Nov 03 18:16:26 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BG064569.D 5 =BG064570.D 10 =BG064571.D 20 =BG064572.D 40 =BG064573.D 50 =BG064576.D 60 =BG064574.D 80 =BG0645
75.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.570	0.581	0.524	0.525	0.474	0.559	0.460	0.528	8.85
3)		Pyridine		1.630	1.608	1.552	1.669	1.471	1.733	1.427	1.584	6.84
4)		n-Nitrosodimet...			0.912	0.807	0.900	0.780	0.921	0.776	0.850	8.08
5)	S	2-Fluorophenol		1.098	1.207	1.155	1.292	1.139	1.318	1.132	1.192	7.09
6)		Aniline		2.203	2.320	2.131	2.386	2.090	2.440	2.004	2.225	7.28
7)	S	Phenol-d6		1.469	1.654	1.566	1.771	1.597	1.864	1.524	1.635	8.55
8)		2-Chlorophenol		1.051	1.207	1.197	1.373	1.225	1.461	1.216	1.247	10.65
9)		Benzaldehyde			0.942	0.994	0.940	0.836	0.981	0.662	0.893	14.09
10)	C	Phenol		1.665	1.820	1.748	1.944	1.761	2.027	1.693	1.808	7.36
11)		bis(2-Chloroet...		1.307	1.409	1.292	1.383	1.273	1.443	1.198	1.329	6.47
12)		1,3-Dichlorobe...		1.435	1.516	1.394	1.520	1.342	1.542	1.299	1.435	6.62
13)	C	1,4-Dichlorobe...		1.431	1.546	1.442	1.534	1.381	1.561	1.323	1.460	6.21
14)		1,2-Dichlorobe...		1.371	1.518	1.364	1.483	1.316	1.520	1.283	1.408	6.97
15)		Benzyl Alcohol			1.281	1.263	1.425	1.306	1.533	1.283	1.348	7.97
16)		2,2'-oxybis(1-...		3.421	3.604	3.396	3.733	3.301	3.802	3.154	3.487	6.74
17)		2-Methylphenol		1.103	1.225	1.178	1.273	1.159	1.345	1.120	1.201	7.22
18)		Hexachloroethane		0.468	0.535	0.505	0.541	0.496	0.557	0.483	0.512	6.41
19)	P	n-Nitroso-di-n...	1.044	1.038	1.141	1.129	1.227	1.115	1.289	1.057	1.130	7.93
20)		3+4-Methylphenols			1.652	1.581	1.818	1.612	1.895	1.571	1.688	8.04
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.535	0.565	0.528	0.584	0.516	0.590	0.509	0.547	6.04
23)	S	Nitrobenzene-d5		0.239	0.286	0.314	0.377	0.356	0.403	0.356	0.333	17.02
24)		Nitrobenzene		0.274	0.312	0.344	0.410	0.377	0.438	0.380	0.362	15.64
25)		Isophorone		0.751	0.796	0.771	0.869	0.764	0.891	0.751	0.799	7.25
26)	C	2-Nitrophenol		0.076	0.095	0.110	0.137	0.135	0.152	0.144	0.121	23.20
27)		2,4-Dimethylph...		0.236	0.294	0.285	0.335	0.297	0.343	0.290	0.297	11.93
28)		bis(2-Chloroet...		0.452	0.464	0.443	0.490	0.426	0.493	0.417	0.455	6.48
29)	C	2,4-Dichloroph...		0.243	0.299	0.315	0.360	0.327	0.373	0.322	0.320	13.34
30)		1,2,4-Trichlor...		0.338	0.369	0.348	0.391	0.349	0.399	0.349	0.363	6.44
31)		Naphthalene		1.083	1.144	1.084	1.177	1.036	1.201	1.037	1.109	5.96
32)		Benzoic acid			0.142	0.164	0.223	0.215	0.260	0.237	0.207	21.74
33)		4-Chloroaniline		0.390	0.456	0.411	0.459	0.410	0.486	0.405	0.431	8.29
34)	C	Hexachlorobuta...		0.266	0.291	0.282	0.299	0.271	0.306	0.273	0.284	5.33
35)		Caprolactam			0.112	0.114	0.134	0.118	0.142	0.116	0.123	9.85
36)	C	4-Chloro-3-met...		0.323	0.381	0.361	0.426	0.376	0.454	0.370	0.384	11.18
37)		2-Methylnaphth...		0.764	0.858	0.797	0.865	0.772	0.888	0.755	0.814	6.74
38)		1-Methylnaphth...		0.798	0.849	0.776	0.853	0.752	0.878	0.735	0.806	6.85

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG102425.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.657	0.684	0.648	0.702	0.633	0.717	0.657	0.671	4.55
41)	P	Hexachlorocycl...		0.268	0.279	0.324	0.297	0.340	0.305	0.302	8.97
42)	S	2,4,6-Tribromo...	0.221	0.266	0.272	0.318	0.292	0.346	0.306	0.289	14.04
43)	C	2,4,6-Trichlor...	0.294	0.333	0.375	0.423	0.399	0.456	0.408	0.384	14.41
44)		2,4,5-Trichlor...	0.339	0.425	0.439	0.484	0.443	0.517	0.454	0.443	12.48
45)	S	2-Fluorobiphenyl	1.310	1.389	1.306	1.384	1.235	1.384	1.228	1.319	5.24
46)		1,1'-Biphenyl	1.456	1.450	1.401	1.489	1.326	1.498	1.333	1.422	4.98
47)		2-Chloronaphth...	1.065	1.082	1.053	1.132	1.013	1.145	1.023	1.073	4.71
48)		2-Nitroaniline	0.201	0.234	0.277	0.348	0.343	0.404	0.367	0.311	24.06
49)		Acenaphthylene	1.667	1.726	1.647	1.786	1.593	1.827	1.604	1.693	5.30
50)		Dimethylphthalate	1.389	1.570	1.488	1.641	1.462	1.699	1.462	1.530	7.21
51)		2,6-Dinitrotol...	0.127	0.180	0.193	0.247	0.244	0.283	0.254	0.218	24.69
52)	C	Acenaphthene	1.126	1.178	1.115	1.223	1.093	1.261	1.101	1.157	5.63
53)		3-Nitroaniline	0.180	0.211	0.252	0.294	0.281	0.325	0.297	0.263	19.70
54)	P	2,4-Dinitrophenol		0.086	0.110	0.137	0.139	0.165	0.154	0.132	22.11
55)		Dibenzofuran	1.881	1.972	1.826	1.963	1.734	1.988	1.725	1.870	5.96
56)	P	4-Nitrophenol		0.191	0.213	0.261	0.250	0.283	0.267	0.244	14.40
57)		2,4-Dinitrotol...	0.223	0.269	0.300	0.385	0.373	0.434	0.396	0.340	22.67
58)		Fluorene	1.471	1.559	1.426	1.531	1.356	1.549	1.329	1.460	6.38
59)		2,3,4,6-Tetrac...	0.312	0.385	0.402	0.466	0.444	0.508	0.449	0.424	15.04
60)		Diethylphthalate	1.417	1.645	1.514	1.657	1.486	1.718	1.502	1.563	7.06
61)		4-Chlorophenyl...	0.800	0.864	0.792	0.866	0.763	0.888	0.763	0.820	6.38
62)		4-Nitroaniline	0.194	0.252	0.286	0.327	0.310	0.355	0.324	0.293	18.55
63)		Azobenzene	1.362	1.504	1.377	1.538	1.338	1.564	1.353	1.434	6.80
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.055	0.064	0.083	0.083	0.097	0.093	0.079	21.00
66)	c	n-Nitrosodiphe...	0.510	0.551	0.525	0.583	0.518	0.594	0.500	0.540	6.79
67)		4-Bromophenyl-...	0.218	0.236	0.230	0.258	0.229	0.264	0.224	0.237	7.28
68)		Hexachlorobenzene	0.254	0.266	0.262	0.292	0.260	0.302	0.256	0.270	6.99
69)		Atrazine	0.215	0.227	0.249	0.245	0.219	0.261	0.211	0.232	8.27
70)	C	Pentachlorophenol		0.132	0.152	0.180	0.172	0.199	0.177	0.169	13.91
71)		Phenanthrene	1.084	1.133	1.073	1.162	1.020	1.179	1.005	1.094	6.17
72)		Anthracene	1.087	1.144	1.101	1.187	1.041	1.204	1.025	1.113	6.17
73)		Carbazole	0.982	1.037	0.982	1.031	0.910	1.028	0.897	0.981	5.90
74)		Di-n-butylphth...	1.011	1.156	1.179	1.240	1.084	1.198	1.075	1.134	7.11
75)	C	Fluoranthene	1.385	1.463	1.380	1.440	1.273	1.403	1.247	1.370	5.91
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.392	0.475	0.490	0.416	0.533	0.383	0.448	13.40
78)		Pyrene	1.287	1.331	1.284	1.411	1.233	1.406	1.196	1.307	6.24
79)	S	Terphenyl-d14	1.074	1.120	1.066	1.142	0.987	1.102	0.928	1.060	7.21
80)		Butylbenzylpht...	0.284	0.359	0.388	0.450	0.408	0.467	0.410	0.395	15.43
81)		Benzo(a)anthra...	1.294	1.355	1.292	1.416	1.253	1.430	1.243	1.326	5.71
82)		3,3'-Dichlorob...		0.418	0.428	0.477	0.424	0.486	0.424	0.443	6.88
83)		Chrysene	1.249	1.291	1.229	1.344	1.188	1.359	1.173	1.262	5.76
84)		Bis(2-ethylhex...	0.484	0.555	0.581	0.671	0.585	0.667	0.588	0.590	10.95
85)	c	Di-n-octyl pht...		0.871	0.932	1.087	0.976	1.117	0.986	0.995	9.32

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG102425.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.383	1.491	1.410	1.568	1.396	1.642	1.410	1.471	6.80
88)		Benzo(b)fluora...	1.138	1.246	1.169	1.322	1.173	1.353	1.183	1.226	6.77
89)		Benzo(k)fluora...	1.175	1.260	1.206	1.285	1.151	1.364	1.149	1.227	6.51
90)	C	Benzo(a)pyrene	1.061	1.144	1.093	1.202	1.067	1.246	1.079	1.127	6.42
91)		Dibenzo(a,h)an...	1.120	1.223	1.158	1.268	1.130	1.324	1.143	1.195	6.55
92)		Benzo(g,h,i)pe...	1.080	1.162	1.089	1.213	1.078	1.280	1.092	1.142	6.95

(#) = Out of Range

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: LIRO01

Lab Code: ACE SDG No.: Q3468

Instrument ID: BNA_G Calibration Date/Time: 10/29/2025 11:22

Lab File ID: BG064618.D Init. Calib. Date(s): 10/24/2025 10/24/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:00 15:32

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.192	1.266		6.2	
Phenol-d6	1.635	1.656		1.3	
Nitrobenzene-d5	0.333	0.401		20.4	
2-Fluorobiphenyl	1.319	1.473		11.7	
Acenaphthylene	1.693	1.770		4.5	
Acenaphthene	1.157	1.225		5.9	20.0
Fluorene	1.460	1.476		1.1	
2,4,6-Tribromophenol	0.289	0.312		8.0	
Phenanthrene	1.094	1.132		3.5	
Anthracene	1.113	1.125		1.1	
Fluoranthene	1.370	1.343		-2.0	20.0
Pyrene	1.307	1.322		1.1	
Terphenyl-d14	1.060	1.074		1.3	
Benzo(a)anthracene	1.326	1.395		5.2	
Chrysene	1.262	1.298		2.9	
Benzo(b)fluoranthene	1.226	1.236		0.8	
Benzo(k)fluoranthene	1.227	1.235		0.7	
Benzo(a)pyrene	1.127	1.157		2.7	20.0
Indeno(1,2,3-cd)pyrene	1.471	1.519		3.3	
Dibenzo(a,h)anthracene	1.195	1.241		3.8	
Benzo(g,h,i)perylene	1.142	1.182		3.5	

All other compounds must meet a minimum RRF of 0.010.

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: LIRO01

Lab Code: ACE SDG No.: Q3468

Instrument ID: BNA_G Calibration Date/Time: 10/30/2025 11:36

Lab File ID: BG064636.D Init. Calib. Date(s): 10/24/2025 10/24/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:00 15:32

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.192	1.233		3.4	
Phenol-d6	1.635	1.603		-2.0	
Nitrobenzene-d5	0.333	0.420		26.1	
2-Fluorobiphenyl	1.319	1.427		8.2	
Acenaphthylene	1.693	1.756		3.7	
Acenaphthene	1.157	1.205		4.1	20.0
Fluorene	1.460	1.442		-1.2	
2,4,6-Tribromophenol	0.289	0.317		9.7	
Phenanthrene	1.094	1.114		1.8	
Anthracene	1.113	1.144		2.8	
Fluoranthene	1.370	1.451		5.9	20.0
Pyrene	1.307	1.247		-4.6	
Terphenyl-d14	1.060	1.043		-1.6	
Benzo(a)anthracene	1.326	1.410		6.3	
Chrysene	1.262	1.324		4.9	
Benzo(b)fluoranthene	1.226	1.272		3.8	
Benzo(k)fluoranthene	1.227	1.285		4.7	
Benzo(a)pyrene	1.127	1.190		5.6	20.0
Indeno(1,2,3-cd)pyrene	1.471	1.593		8.3	
Dibenzo(a,h)anthracene	1.195	1.283		7.4	
Benzo(g,h,i)perylene	1.142	1.243		8.8	

All other compounds must meet a minimum RRF of 0.010.

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q3468
COC Number 2046865

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Lira Environmental Inc.
ADDRESS: 690 Delaware Avenue
CITY Buffalo STATE: NY ZIP: 14209
ATTENTION: Martin Wesolowski
PHONE: 716-970-4273 FAX: 716-882-9640

CLIENT PROJECT INFORMATION

PROJECT NAME: RMB, RFK Bridge Randalls Island
PROJECT NO.: RMB-2023 LOCATION: NY
PROJECT MANAGER: Martin Wesolowski
e-mail: wesolowski@lira.com
PHONE: 716 970 9640 FAX: 716 882 9640

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: SAME
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

❑ Level 1 (Results Only) ❑ Level 4 (QC + Full Raw Data)
❑ Level 2 (Results + QC) ❑ NJ Reduced ❑ US EPA CLP
❑ Level 3 (Results + QC + Raw Data) ❑ NYS ASP A ❑ NYS ASP B
❑ Other _____
❑ EDD FORMAT _____

ANALYSIS

1 CP-51 VOC's
2 CP-51 SVOC's
3 Tables 2 & 3
4
5
6
7
8
9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	MW-06	GW		X	10/23/25	11:40	5	X	X	X							
2.	MW-08	GW		X		10:30	5	X	X	X							
3.	MW-10	GW		X		12:15	5	X	X	X							
4.	MW-11	GW		X		12:55	5	X	X	X							
5.	MW-13	GW		X		9:15	5	X	X	X							
6.	MW-12	GW		X	↓	13:30	5	X	X	X							
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES
← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

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SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	10-24-25 1647	1.	10-24-25 1647
2.	DATE/TIME:	2.	
3.	10-24-25 1944	3.	

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 2.1 °C
Comments:

Page ____ of

CLIENT: ❑ Hand Delivered ❑ Other

Shipment Complete ❑ YES ❑ NO

Q3468

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3468 LIRO01
Client Name : LiRo Engineers, Inc.
Client Contact : Martin Wesolowski
Invoice Name : LiRo Engineers, Inc.
Invoice Contact : Martin Wesolowski

Order Date : 10/27/2025 11:00:00 AM
Project Name : RFK Bridge RMB-Randall
Receive DateTime : 10/25/4025 7:44:00 PM
Purchase Order :

Project Mgr :
Report Type : NYS ASP A
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3468-01	MW-06	Water	10/23/2025	11:40					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3468-02	MW-08	Water	10/23/2025	10:30					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3468-03	MW-10	Water	10/23/2025	12:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3468-04	MW-11	Water	10/23/2025	12:55					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3468-05	MW-13	Water	10/23/2025	09:15					
					VOCMS Group1		8260-Low		10 Bus. Days
Q3468-06	MW-12	Water	10/23/2025	13:30					
					VOCMS Group1		8260-Low		10 Bus. Days

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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LOGIN REPORT/SAMPLE TRANSFER

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Order Date : 10/27/2025 11:00:00 AM
Project Name : RFK Bridge RMB-Randall
Receive DateTime : 10/24/4025 7:44:00 PM
Purchase Order :

Project Mgr :
Report Type : NYS ASP A
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By :
Date / Time : 10/27/25 1150

Received By :
Date / Time : 10/27/25 12:25

Storage Area : VOA Refridgerator Room