



CRL Environmental Corporation

31 March 2023

DENR Region 4 - B (MIMAROPA)

5th Floor, DENR By the Bay Bldg., 1515, Roxas Blvd., Ermita, Manila

ATTN: **Dir. Lormelyn E. Claudio**

Project Name: MT. PRINCESS EMPRESS OIL SPILL

Lab. Nos.: P00137124-01/04

Enclosed are the results and QC Data for samples received by CRL Environmental Corporation which were subcontracted to ASSET Laboratories, Inc., for testing of the requested parameters in the enclosed chain of custody.

The above Lab. Nos. have a corresponding Lab. IDs PH004903-001A/004A by ASSET Laboratories, Inc., CFZ, Pampanga.

Please note that any unused portion of the sample/s will be discarded 15 days after the date of this report, unless you have requested otherwise.

Thank you for the opportunity to service the needs of your company. Please feel free to call us at (045) 599-3943 or (02) 552-5100 if we can be of further service to you.

Very truly yours,

MARIA CARMELA Q. CAPULE, Ph.D.

Chief Operating Officer



Analytical Support Services for
Environmental Technologies, Inc.
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Building 02-A, Berthaphil I Compound, Jose Abad Santos Ave.,
Clark Special Economic Zone, Clarkfield, Pampanga
PH: (+6345) 499-3038 USA: +1 (702) 347-7996
www.ph.assetlaboratories.com

Date: 29-Mar-23

CLIENT: CRLEN01
Project: P00137124
Lab Order: PH004903

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact with proper chain of custody documentation.

HOLDING TIMES: Samples were received within holding time.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria except as noted in the report with data qualifiers.

COMMENTS: Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

DEFINITION OF TERMS:

PQL - Practical Quantitation Limit
DF - Dilution Factor
NR - Not Reported
SPK - Spike Amount
%RPD - Relative Percent Difference
%REC - Percent Recovery
MBLK - Method Blank
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate



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Date: 29-Mar-23

CLIENT: CRL Environmental Corporation

Project: P00137124

Lab Order: PH004903

Contract No:

WORK ORDER SAMPLE SUMMARY

Lab Sample ID	Client Samp ID	Matrix	Collection Date	Date Received	Date Reported
PH004903-001	P00137124-01	Air	03/16/2023 4:07PM	03/23/2023 8:50AM	03/29/2023 8:50PM
PH004903-002	P00137124-02	Air	03/16/2023 11:00AM	03/23/2023 8:50AM	03/29/2023 8:50PM
PH004903-003	P00137124-03	Air	03/16/2023 1:20PM	03/23/2023 8:50AM	03/29/2023 8:50PM
PH004903-004	P00137124-04	Air	03/16/2023 3:00PM	03/23/2023 8:50AM	03/29/2023 8:50PM



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ANALYTICAL SAMPLE RESULTS

Print Date: 29-Mar-23

CLIENT: CRL Environmental Corporation
Lab. Order: PH004903
Project: P00137124
Lab ID: PH004903-001A

Client Sample ID: P00137124-01
Collection Date: 3/16/2023 4:07PM
Matrix: Air

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
Aromatic Hydrocarbons by GC-FID			TestNo: NIOSH 1501			Prep-TestNo: GEN PREP	
RunID: GC02_230327A	QC Batch: 05504		PrepDate: 03/27/2023			Analyst: CPLB	
Benzene	ND	0.078	0.22		ug/tube	1	3/27/2023 07:28 PM
Ethyl Benzene	ND	0.075	0.22		ug/tube	1	3/27/2023 07:28 PM
m,p-Xylene	ND	0.15	0.43		ug/tube	1	3/27/2023 07:28 PM
o-Xylene	ND	0.071	0.22		ug/tube	1	3/27/2023 07:28 PM
Toluene	ND	0.075	0.22		ug/tube	1	3/27/2023 07:28 PM

Qualifiers:

B Analyte detected in the associated Method Blank
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit
S Spike/Surrogate outside of limits due to matrix interference
Results are wet unless otherwise specified
DO Surrogate Diluted Out

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ANALYTICAL SAMPLE RESULTS

Print Date: 29-Mar-23

CLIENT: CRL Environmental Corporation
Lab. Order: PH004903
Project: P00137124
Lab ID: PH004903-002A

Client Sample ID: P00137124-02
Collection Date: 3/16/2023 11:00AM
Matrix: Air

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
Aromatic Hydrocarbons by GC-FID			TestNo: NIOSH 1501			Prep-TestNo: GEN PREP	
RunID: GC02_230327A	QC Batch: 05504		PrepDate: 03/27/2023			Analyst: CPLB	
Benzene	ND	0.078	0.22		ug/tube	1	3/27/2023 08:36 PM
Ethyl Benzene	ND	0.075	0.22		ug/tube	1	3/27/2023 08:36 PM
m,p-Xylene	ND	0.15	0.43		ug/tube	1	3/27/2023 08:36 PM
o-Xylene	ND	0.071	0.22		ug/tube	1	3/27/2023 08:36 PM
Toluene	ND	0.075	0.22		ug/tube	1	3/27/2023 08:36 PM

Qualifiers:

B Analyte detected in the associated Method Blank
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits

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ANALYTICAL SAMPLE RESULTS

Print Date: 29-Mar-23

CLIENT:	CRL Environmental Corporation	Client Sample ID:	P00137124-03
Lab. Order:	PH004903	Collection Date:	3/16/2023 1:20PM
Project:	P00137124	Matrix:	Air
Lab ID:	PH004903-003A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
Aromatic Hydrocarbons by GC-FID			TestNo: NIOSH 1501			Prep-TestNo: GEN PREP	
RunID: GC02_230327A	QC Batch: 05504		PrepDate: 03/27/2023			Analyst: CPLB	
Benzene	ND	0.078	0.22		ug/tube	1	3/27/2023 09:44 PM
Ethyl Benzene	ND	0.075	0.22		ug/tube	1	3/27/2023 09:44 PM
m,p-Xylene	ND	0.15	0.43		ug/tube	1	3/27/2023 09:44 PM
o-Xylene	ND	0.071	0.22		ug/tube	1	3/27/2023 09:44 PM
Toluene	ND	0.075	0.22		ug/tube	1	3/27/2023 09:44 PM

Qualifiers:

B Analyte detected in the associated Method Blank
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits

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ANALYTICAL SAMPLE RESULTS

Print Date: 29-Mar-23

CLIENT:	CRL Environmental Corporation	Client Sample ID:	P00137124-04
Lab. Order:	PH004903	Collection Date:	3/16/2023 3:00PM
Project:	P00137124	Matrix:	Air
Lab ID:	PH004903-004A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
Aromatic Hydrocarbons by GC-FID			TestNo: NIOSH 1501			Prep-TestNo: GEN PREP	
RunID: GC02_230327A	QC Batch: 05504		PrepDate: 03/27/2023			Analyst: CPLB	
Benzene	ND	0.078	0.22		ug/tube	1	3/27/2023 11:55 PM
Ethyl Benzene	ND	0.075	0.22		ug/tube	1	3/27/2023 11:55 PM
m,p-Xylene	ND	0.15	0.43		ug/tube	1	3/27/2023 11:55 PM
o-Xylene	ND	0.071	0.22		ug/tube	1	3/27/2023 11:55 PM
Toluene	ND	0.075	0.22		ug/tube	1	3/27/2023 11:55 PM

Qualifiers:

B Analyte detected in the associated Method Blank
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Date: 29-Mar-23

ANALYTICAL QC SUMMARY REPORT

TestCode: 1501BTEx_A

CLIENT: CRL Environmental Corporation

Work Order: PH004903

Project: P00137124

SampleID: MB-05504	SampType: MBLK	TestCode: 1501BTEx_A	Units: ug/tube	PrepDate: 3/27/2023							
Client ID: MBLK	Batch ID: 05504	TestNo: NIOSH 1501	Prep-TestNo: GEN PREP	Analysis Date: 3/27/2023							
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Benzene	ND	0.22									
Ethyl Benzene	ND	0.22									
m,p-Xylene	ND	0.43									
o-Xylene	ND	0.22									
Toluene	ND	0.22									

SampID: LCS-05504	SampType: LCS	TestCode: 1501BTEx_A	Units: ug/tube	PrepDate: 3/27/2023							
Client ID: LCS	Batch ID: 05504	TestNo: NIOSH 1501	Prep-TestNo: GEN PREP	Analysis Date: 3/28/2023							
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Benzene	3.5	0.22	3.510	0	98.5	89	111				
Ethyl Benzene	3.5	0.22	3.460	0	100	83	117				
m,p-Xylene	6.9	0.43	6.880	0	100	89	111				
o-Xylene	3.5	0.22	3.440	0	101	89	111				
Toluene	3.4	0.22	3.460	0	99.7	89	111				

Qualifiers:	B	H	ND	S	E	J	R	Value above quantitation range
								Analyte detected below quantitation limits
								RPD outside accepted recovery limits
								Results are wet unless otherwise specified



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Date: 29-Mar-23

ANALYTICAL QC SUMMARY REPORT

TestCode: 1501BTEX_A

CLIENT: CRL Environmental Corporation

Work Order: PH004903

Project: P00137124

SampleID: LCSD-05504	SampleType: LCSD	TestCode: 1501BTEX_A	Units: ug/tube	PrepDate: 3/27/2023							
Client ID: LCSD	Batch ID: 05504	TestNo: NIOSH 1501	Prep-TestNo: GEN PREP	Analysis Date: 3/28/2023							
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Benzene	3.5	0.22	3.510	0	101	89	111	3.456	2.40		
Ethyl Benzene	3.6	0.22	3.460	0	103	83	117	3.463	2.54		
m,p-Xylene	7.1	0.43	6.880	0	103	89	111	6.886	2.54		
o-Xylene	3.5	0.22	3.440	0	103	89	111	3.462	2.48		
Toluene	3.5	0.22	3.460	0	102	89	111	3.449	2.52		

Qualifiers:	B	H	ND	S	E	J	R
Analyte detected in the associated Method Blank							
Holding times for preparation or analysis exceeded							
Not Detected at the Reporting Limit							
Spike/Surrogate outside of limits due to matrix interference							
Value above quantitation range							
Analyte detected below quantitation limits							
RPD outside accepted recovery limits							
Results are wet unless otherwise specified							



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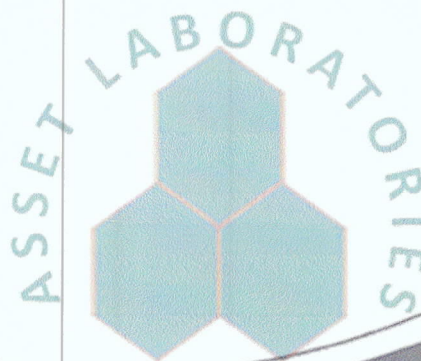
Analyzed by:

Christian Pol L. Bonde
Analyst II
PRC License No. 0002529

Certified by:

Kristiene S. Ferrer
Laboratory Supervisor
PRC License No. 0012899

Maria Carmela Q. Capule Ph.D.
Laboratory Director
PRC License No. 0007663





CRL Environmental
Corporation

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Fax: (6345) 599-3963

CHAIN OF CUSTODY RECORD

FOR LABORATORY USE ONLY

Batch #	P00123124D O #		
P.O. #			
Logged By	VCOR	Date:	3/27/23 Time: 0700
Method of Transport		Sample Condition Upon Receipt	
Walk-in	☐	Y	N
Courier	☐	1. CHILLED	4. SEALED
UPS	☐	2. HEADSPACE(VOA)	5. # OF SPLS MATCH COC
FedEx	☐	3. CONTAINER INTACT	6. PRESERVED
CRL	☐		

Client:	EMB MIMAROPA	Address:	1515 L&S BLDG, ROXAS BLVD. ERMITA MANILA	Tel No.
Attn:		City:	State:	Zip Code:
				Fax:

Project Name: MBIENT AIR QUALITY SAMPLING AT POLA OR. M		Project#	Sampler:		Signature:	
Relinquished By (Signature Name)	Date:		Time:	Received By (Signature Name)	Date:	Signature:
Relinquished By (Signature Name)	Date:		Time:	Received By (Signature Name)	Date:	Signature:
Relinquished By (Signature Name)	Date:		Time:	Received By (Signature Name)	Date:	Signature:

SHIP TO LAB:		Send Report To		Special Instruction / Comments
(SUB CONTRACT)		Attn: EMED		
TEST:		Company: EMB MIMAROPA		
CRL:		Address: 1515 L & S BLDG. ROXAS BLVD. ERMITA		
DATE:		City: MANILA		
CLIENT I.D.		State: Zip Code:		
I hereby authorize CRL to perform the work indicated below:				
Project Mgr. / Submitter:				
ERWIN LIZARDO				
Print Name		Date		
Signature				

[illegible]