

March 24, 2022

Tasman Geosciences

Justin Covey

6855 West 119th Avenue

Broomfield CO 80020

**Project Name - Bayswater - Lind 23-15 TB**

**Project Number - -**

Attached are your analytical results for Bayswater - Lind 23-15 TB received by Origins Laboratory, Inc. March 15, 2022. This project is associated with Origins project number Y203390-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Tasman Geosciences  
6855 West 119th Avenue  
Broomfield CO 80020

Justin Covey  
Project Number: -  
Project: Bayswater - Lind 23-15 TB

**CROSS REFERENCE REPORT**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-B01@3"	Y203390-01	Soil	March 15, 2022 9:49	03/15/2022 17:00
AST-B02@3"	Y203390-02	Soil	March 15, 2022 9:54	03/15/2022 17:00
PW-B01@6'	Y203390-03	Soil	March 15, 2022 10:01	03/15/2022 17:00
PW-N01@3'	Y203390-04	Soil	March 15, 2022 10:10	03/15/2022 17:00
DL-B02@3'	Y203390-05	Soil	March 15, 2022 10:44	03/15/2022 17:00
SEP-B01@3"	Y203390-06	Soil	March 15, 2022 10:48	03/15/2022 17:00
SEP-B02@3"	Y203390-07	Soil	March 15, 2022 10:50	03/15/2022 17:00

**Chain of Custody Modification Request**

On 3/23/2022, Justin Covey from Tasman Geosciences contacted Jordan Bynon via phone call regarding Y203390 requesting that DRO/ORO be added to all samples on a rush TAT.

Requested modifications to the chain of custody were made by Jordan Bynon on 3/23/2022.

Origins Laboratory, Inc.



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 Broomfield CO 80020

Justin Covey  
 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

Origins Laboratory: \_\_\_\_\_ F-012207-01-R1  
 Effective Date: 01/09/12

**Sample Receipt Checklist**

Origins Work Order: 4103390 Client: TASMAN  
 Client Project ID: LIND 23-15 TB

Checklist Completed by: JKH Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Date/time completed: 3/15/12 Airbill #: AVA

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1105 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: 1005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		-		same day
Is there ice present (document if blue ice is used)	-			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		-		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		-		
Were all samples received intact <sup>(1)</sup> ?	-			
Was adequate sample volume provided <sup>(1)</sup> ?	-			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		-		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	-			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	-			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	-			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	-			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			-	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			-	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager): [Signature] Date/Time Reviewed: 3/15/12

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Justin Covey  
 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

**AST-B01@3"**  
**3/15/2022 9:49:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203390-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.500	0.100	mg/L	1	B2C1604	CJM	03/16/2022	03/17/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C2301	ZZZ	03/23/2022	03/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	141 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C1531	ZZZ	03/15/2022	03/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130			"	"	"	"	

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**AST-B01@3"**

**3/15/2022 9:49:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203390-01 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	4.55	0.499	meq/L	10	[CALC]	CJM	03/16/2022	03/17/2022
Magnesium	4.11	0.823	"	"	"	CJM	"	"
Sodium	2.34	0.435	"	"	"	CJM	"	"

**pH in Soil by 9045D**

pH	7.87		pH Units	1	B2C1607	ACC	03/16/2022	03/17/2022
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**SAR by 20B Saturated Paste**

SAR	1.13		SAR	1	B2C1601	CJM	03/16/2022	03/17/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.27	0.00500	mmhos/cm	1	B2C1610	ACC	03/16/2022	03/17/2022
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 Project: Bayswater - Lind 23-15 TB

**AST-B02@3"**  
**3/15/2022 9:54:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203390-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.421	0.100	mg/L	1	B2C1604	CJM	03/16/2022	03/17/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C2301	ZZZ	03/23/2022	03/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	109 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C1531	ZZZ	03/15/2022	03/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130			"	"	"	"	

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**AST-B02@3"**

**3/15/2022 9:54:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203390-02 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	2.02	0.499	meq/L	10	[CALC]	CJM	03/16/2022	03/17/2022	
Magnesium	ND	0.823	"	"	"	CJM	"	"	
Sodium	ND	0.435	"	"	"	CJM	"	"	

**pH in Soil by 9045D**

pH	7.90		pH Units	1	B2C1607	ACC	03/16/2022	03/17/2022	
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**SAR by 20B Saturated Paste**

SAR	0.0699		SAR	1	B2C1601	CJM	03/16/2022	03/17/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.321	0.00500	mmhos/cm	1	B2C1610	ACC	03/16/2022	03/17/2022	
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 Project: Bayswater - Lind 23-15 TB

**PW-B01@6'**  
**3/15/2022 10:01:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203390-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.423	0.101	mg/L	1	B2C1604	CJM	03/16/2022	03/17/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C2301	ZZZ	03/23/2022	03/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	110 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C1531	ZZZ	03/15/2022	03/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"	"	"	

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 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

**PW-B01@6'**

**3/15/2022 10:01:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203390-03 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.73	0.499	meq/L	10	[CALC]	CJM	03/16/2022	03/17/2022
Magnesium	0.872	0.823	"	"	"	CJM	"	"
Sodium	ND	0.435	"	"	"	CJM	"	"

**pH in Soil by 9045D**

pH	8.02		pH Units	1	B2C1607	ACC	03/16/2022	03/17/2022
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**SAR by 20B Saturated Paste**

SAR	0.152		SAR	1	B2C1601	CJM	03/16/2022	03/17/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.294	0.00500	mmhos/cm	1	B2C1610	ACC	03/16/2022	03/17/2022
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**PW-N01@3'**  
**3/15/2022 10:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203390-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.139	0.0996	mg/L	1	B2C1604	CJM	03/16/2022	03/17/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C2301	ZZZ	03/23/2022	03/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	120 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C1531	ZZZ	03/15/2022	03/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130			"	"	"	"	

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 Project: Bayswater - Lind 23-15 TB

**PW-N01@3'**

**3/15/2022 10:10:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203390-04 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.12	0.499	meq/L	10	[CALC]	CJM	03/16/2022	03/17/2022
Magnesium	ND	0.823	"	"	"	CJM	"	"
Sodium	ND	0.435	"	"	"	CJM	"	"

**pH in Soil by 9045D**

pH	8.21		pH Units	1	B2C1607	ACC	03/16/2022	03/17/2022
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**SAR by 20B Saturated Paste**

SAR	0.0797		SAR	1	B2C1601	CJM	03/16/2022	03/17/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.183	0.00500	mmhos/cm	1	B2C1610	ACC	03/16/2022	03/17/2022
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**DL-B02@3'**  
**3/15/2022 10:44:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203390-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.436	0.0991	mg/L	1	B2C1604	CJM	03/16/2022	03/17/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C2301	ZZZ	03/23/2022	03/23/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	111 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C1531	ZZZ	03/15/2022	03/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	110 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130			"	"	"	"	

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 Project: Bayswater - Lind 23-15 TB

**DL-B02@3'**

**3/15/2022 10:44:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203390-05 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.51	0.499	meq/L	10	[CALC]	CJM	03/16/2022	03/17/2022
Magnesium	0.905	0.823	"	"	"	CJM	"	"
Sodium	ND	0.435	"	"	"	CJM	"	"

**pH in Soil by 9045D**

pH	8.13		pH Units	1	B2C1607	ACC	03/16/2022	03/17/2022
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**SAR by 20B Saturated Paste**

SAR	0.337		SAR	1	B2C1601	CJM	03/16/2022	03/17/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.333	0.00500	mmhos/cm	1	B2C1610	ACC	03/16/2022	03/17/2022
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Origins Laboratory, Inc.



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Justin Covey  
 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

SEP-B01@3"  
 3/15/2022 10:48:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y203390-06 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.276	0.0987	mg/L	1	B2C1604	CJM	03/16/2022	03/17/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	30.5	25.0	mg/kg	1	B2C2301	ZZZ	03/23/2022	03/23/2022	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	111 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C1531	ZZZ	03/15/2022	03/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Tasman Geosciences  
 6855 West 119th Avenue  
 Broomfield CO 80020

Justin Covey  
 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

**SEP-B01@3"**

**3/15/2022 10:48:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203390-06 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.22	0.499	meq/L	10	[CALC]	CJM	03/16/2022	03/17/2022
Magnesium	ND	0.823	"	"	"	CJM	"	"
Sodium	0.544	0.435	"	"	"	CJM	"	"

**pH in Soil by 9045D**

pH	8.05		pH Units	1	B2C1607	ACC	03/16/2022	03/17/2022
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**SAR by 20B Saturated Paste**

SAR	0.553		SAR	1	B2C1601	CJM	03/16/2022	03/17/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.304	0.00500	mmhos/cm	1	B2C1610	ACC	03/16/2022	03/17/2022
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Justin Covey  
 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

**SEP-B02@3"**  
**3/15/2022 10:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203390-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.710	0.0986	mg/L	1	B2C1604	CJM	03/16/2022	03/17/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	58.0	25.0	mg/kg	1	B2C2301	ZZZ	03/23/2022	03/23/2022	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	110 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C1531	ZZZ	03/15/2022	03/16/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Naphthalene	ND	0.00380	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	70-130			"	"	"	"	

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 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

**SEP-B02@3"**

**3/15/2022 10:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203390-07 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	3.04	0.499	meq/L	10	[CALC]	CJM	03/16/2022	03/17/2022	
Magnesium	2.12	0.823	"	"	"	CJM	"	"	
Sodium	1.35	0.435	"	"	"	CJM	"	"	

**pH in Soil by 9045D**

pH	7.83		pH Units	1	B2C1608	ACC	03/16/2022	03/17/2022	
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**SAR by 20B Saturated Paste**

SAR	0.842		SAR	1	B2C1602	CJM	03/16/2022	03/17/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.832	0.00500	mmhos/cm	1	B2C1611	ACC	03/16/2022	03/17/2022	
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Justin Covey  
 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C1531 - EPA 5030 (soil)**

**Blank (B2C1531-BLK1)**

Prepared: 03/15/2022 Analyzed: 03/15/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	89.1		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	91.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.7		70-130			

Origins Laboratory, Inc.



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 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C1531 - EPA 5030 (soil)**

**LCS (B2C1531-BS1)**

Prepared: 03/15/2022 Analyzed: 03/15/2022

1,2,4-Trimethylbenzene	0.0953	0.00200	mg/kg	0.100		95.3	70-130			
1,3,5-Trimethylbenzene	0.0948	0.00200	"	0.100		94.8	70-130			
Benzene	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.0928	0.00200	"	0.100		92.8	70-130			
Naphthalene	0.0942	0.0100	"	0.100		94.2	70-130			
Toluene	0.0952	0.00200	"	0.100		95.2	70-130			
o-Xylene	0.0908	0.00200	"	0.100		90.8	70-130			
m,p-Xylene	0.195	0.00400	"	0.200		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.9	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.1	70-130			

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Justin Covey  
 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C1531 - EPA 5030 (soil)

Matrix Spike (B2C1531-MS1)	Source: Y203387-01			Prepared: 03/15/2022 Analyzed: 03/16/2022						
1,2,4-Trimethylbenzene	0.0886	0.00200	mg/kg	0.100	ND	88.6	70-130			
1,3,5-Trimethylbenzene	0.0901	0.00200	"	0.100	ND	90.1	70-130			
Benzene	0.0904	0.00200	"	0.100	ND	90.4	70-130			
Ethylbenzene	0.0924	0.00200	"	0.100	ND	92.4	70-130			
Naphthalene	0.0847	0.0100	"	0.100	ND	84.7	70-130			
Toluene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
o-Xylene	0.0915	0.00200	"	0.100	ND	91.5	70-130			
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.3	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		89.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	70-130			

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 Project: Bayswater - Lind 23-15 TB

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C1531 - EPA 5030 (soil)**

Matrix Spike Dup (B2C1531-MSD1)	Source: Y203387-01			Prepared: 03/15/2022 Analyzed: 03/15/2022						
1,2,4-Trimethylbenzene	0.0700	0.00200	mg/kg	0.100	ND	70.0	70-130	23.5	20	QM-07
1,3,5-Trimethylbenzene	0.153	0.00200	"	0.100	ND	153	70-130	51.9	20	QM-07
Benzene	0.150	0.00200	"	0.100	ND	150	70-130	49.5	20	QM-07
Ethylbenzene	0.154	0.00200	"	0.100	ND	154	70-130	49.7	20	QM-07
Naphthalene	0.144	0.0100	"	0.100	ND	144	70-130	51.9	20	QM-07
Toluene	0.146	0.00200	"	0.100	ND	146	70-130	53.8	20	QM-07
o-Xylene	0.153	0.00200	"	0.100	ND	153	70-130	50.3	20	QM-07
m,p-Xylene	0.301	0.00400	"	0.200	ND	151	70-130	49.9	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.6	70-130			

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Justin Covey  
 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C2301 - EPA 3580</b>										
<b>Blank (B2C2301-BLK1)</b>										
					Prepared: 03/23/2022 Analyzed: 03/23/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		112	50-150			

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Jen Pellegrini, Project Manager

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 Broomfield CO 80020

Justin Covey  
 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C2301 - EPA 3580**

**LCS (B2C2301-BS1)**

Prepared: 03/23/2022 Analyzed: 03/23/2022

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	895	200	"	1000		89.5	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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Jen Pellegrini, Project Manager

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 Broomfield CO 80020

Justin Covey  
 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C2301 - EPA 3580**

<b>Matrix Spike (B2C2301-MS1)</b>	<b>Source: Y203538-02</b>			Prepared: 03/23/2022 Analyzed: 03/23/2022						
Diesel (C10-C28)	1150	50.0	mg/kg	1000	58.9	109	70-130			
Residual Range Organics (C28-C40)	986	200	"	1000	ND	98.6	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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Justin Covey  
 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2C2301 - EPA 3580

Matrix Spike Dup (B2C2301-MSD1)	Source: Y203538-02			Prepared: 03/23/2022 Analyzed: 03/23/2022						
Diesel (C10-C28)	1050	50.0	mg/kg	1000	58.9	99.4	70-130	9.05	35	
Residual Range Organics (C28-C40)	951	200	"	1000	ND	95.1	70-130	3.61	35	
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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Justin Covey  
 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C1604 - Default Prep Metals**

**Blank (B2C1604-BLK1)**

Prepared: 03/16/2022 Analyzed: 03/17/2022

Boron	ND	0.100	mg/L							U
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**Duplicate (B2C1604-DUP1)**

**Source: Y203359-08**

Prepared: 03/16/2022 Analyzed: 03/17/2022

Boron	0.472	0.0982	mg/L		0.275			52.5	50	QR-DUP
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Justin Covey  
 Project Number: -  
 Project: Bayswater - Lind 23-15 TB

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C1607 - NO PREP</b>										
<b>Duplicate (B2C1607-DUP1)</b>		<b>Source: Y203359-10</b>			Prepared: 03/16/2022 Analyzed: 03/17/2022					
pH	7.56		pH Units		7.61			0.659	25	
<b>Batch B2C1608 - NO PREP</b>										
<b>Duplicate (B2C1608-DUP1)</b>		<b>Source: Y203390-07</b>			Prepared: 03/16/2022 Analyzed: 03/17/2022					
pH	7.77		pH Units		7.83			0.769	25	
<b>Batch B2C1610 - NO PREP</b>										
<b>Blank (B2C1610-BLK1)</b>		Prepared: 03/16/2022 Analyzed: 03/17/2022								
Specific Conductance (EC)	0.00100	0.00500	mmhos/cm							
<b>Duplicate (B2C1610-DUP1)</b>		<b>Source: Y203359-10</b>			Prepared: 03/16/2022 Analyzed: 03/17/2022					
Specific Conductance (EC)	1.46	0.00500	mmhos/cm		1.81			21.3	25	
<b>Batch B2C1611 - NO PREP</b>										
<b>Blank (B2C1611-BLK1)</b>		Prepared: 03/16/2022 Analyzed: 03/17/2022								
Specific Conductance (EC)	0.000800	0.00500	mmhos/cm							
<b>Duplicate (B2C1611-DUP1)</b>		<b>Source: Y203390-07</b>			Prepared: 03/16/2022 Analyzed: 03/17/2022					
Specific Conductance (EC)	0.858	0.00500	mmhos/cm		0.832			3.05	25	

Origins Laboratory, Inc.



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6855 West 119th Avenue  
Broomfield CO 80020

Justin Covey  
Project Number: -  
Project: Bayswater - Lind 23-15 TB

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### Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager