

February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702126-01.

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



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB08 @ 10'	X702126-01	Soil	February 3, 2017 12:46	02/03/2017 18:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X762126

Client: LTE

Client Project ID: Toedtli 1-10 Inorganic

Checklist Completed by: DLW

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2-6-17 1251

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1 / 3.2 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/			pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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 ⁽¹⁾ ? (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):				

⁽¹⁾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.

DLW
 Reviewed by (Project Manager)

2-6-17 1251
 Date/Time Reviewed

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB08 @ 10'
2/3/2017 12:46:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702126-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	0.67		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.39		"	"	"	"	"	
Sodium	2.92		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.95		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	4.01			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0327		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

Origins Laboratory, Inc.



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Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

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 B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

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LT Environmental, Inc.
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Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Notes and Definitions

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 For Noelle Doyle Mathis, President

February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702127-01.

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.

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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.

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o-squad@oelabinc.com



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB08 @ 1'	X702127-01	Soil	February 3, 2017 12:40	02/03/2017 18:30
SB08 @ 3'	X702127-02	Soil	February 3, 2017 12:42	02/03/2017 18:30
SB08 @ 5'	X702127-03	Soil	February 3, 2017 12:44	02/03/2017 18:30

Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

www.originslaboratory.com

X702127

ORIGINS
 LABORATORY, INC

page of

Client: LT Environmental, Inc.
 Address: 4600 W 60th Ave., Arvada, CO 80003
 Telephone Number: 303-433-9788
 Email Address: Jeremy Pike

Project Manager: Allison White
 Project Name: Toedtli 1-10 Inorganic Assessment
 Project Number: 041716045
 Samples Collected By: Jeremy Pike

1725 EIK Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sammler #			Other
5804 @ 1'	02/05/17	12:40	3	X				X			EC, pH, and SAR	1	
5804 @ 3'	↓	12:42	3	X				X			EC, pH, and SAR	2	
5804 @ 5'	↓	12:44	3	X				X			EC, pH, and SAR	3	
												4	
												5	
												6	
												7	
												8	
												9	
												10	

Relinquished By: [Signature] Date: 02/07/17 Time: 1830

Relinquished By: [Signature] Date: 2/3/17 Time: 1830

Turnaround Time: Same Day 24 Hr 48 Hr 72 Hr Standard

Date Results Needed: 3.2

Origins Laboratory, Inc.

Jefe Pellegrini

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X702127

Client: LTE

Client Project ID: Toedtli 1-10

Checklist Completed by: Don Lee

Shipped Via: +1D

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2-6-17 1254

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 32 °C _____ °C _____ °C _____ °C (Describe)

Thermometer ID: TOU3

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/			pk
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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 ⁽¹⁾ ? (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):				

⁽¹⁾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.

Don Lee
 Reviewed by (Project Manager)

2-6-17 1255
 Date/Time Reviewed

Origins Laboratory, Inc.



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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB08 @ 1'
2/3/2017 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702127-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	2.58		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.66		"	"	"	"	"	
Sodium	0.63		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.46		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	0.49			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0630		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

SB08 @ 3'
2/3/2017 12:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702127-02 (Soil)

Metals (Saturated Paste Prep)

Calcium	2.77		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	1.38		"	"	"	"	"	
Sodium	6.92		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.55		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	4.80			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.105		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB08 @ 5'
2/3/2017 12:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702127-03 (Soil)

Metals (Saturated Paste Prep)

Calcium	11.73		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	5.66		"	"	"	"	"	
Sodium	14.04		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.16		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	4.76			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.140		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

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Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Notes and Definitions

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 For Noelle Doyle Mathis, President



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada CO 80003

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o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB07 @ 1'	X702128-01	Soil	February 3, 2017 11:55	02/03/2017 18:30
SB07 @ 3'	X702128-02	Soil	February 3, 2017 11:57	02/03/2017 18:30
SB07 @ 5'	X702128-03	Soil	February 3, 2017 11:59	02/03/2017 18:30

Origins Laboratory, Inc.



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Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X702128

Client: LTE

Client Project ID: Toedtli 1-10

Checklist Completed by: JLW

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2-6-12 1257

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1 / 3.2 °c / _____ °c / _____ °c / _____ °c

Thermometer ID: TCUB

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/			FD
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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 ⁽¹⁾ ? (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):				

⁽¹⁾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.

JLW
 Reviewed by (Project Manager)

2-6-12 1257
 Date/Time Reviewed

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB07 @ 1'
2/3/2017 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702128-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.73		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.39		"	"	"	"	"	
Sodium	0.57		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.27		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	0.55			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0476		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB07 @ 3'
2/3/2017 11:57:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702128-02 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.32		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.49		"	"	"	"	"	
Sodium	2.96		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.48		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	3.11			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0442		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB07 @ 5'
2/3/2017 11:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702128-03 (Soil)

Metals (Saturated Paste Prep)

Calcium	7.66		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	3.77		"	"	"	"	"	
Sodium	11.81		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.35		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	4.94			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.184		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B0605 - NO PREP										
Duplicate (B7B0605-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Notes and Definitions

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.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702129-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB09 @ 1'	X702129-01	Soil	February 3, 2017 13:35	02/03/2017 18:30
SB09 @ 3'	X702129-02	Soil	February 3, 2017 13:37	02/03/2017 18:30
SB09 @ 5'	X702129-03	Soil	February 3, 2017 13:39	02/03/2017 18:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: ✓ 702129

Client: LTE

Client Project ID: Toedtli 1-10

Checklist Completed by: Don Lu

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2-6-17 1304

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1 / 3.2 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/			pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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 ⁽¹⁾ ? (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):				

⁽¹⁾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.

Don Lu
 Reviewed by (Project Manager)

2-6-17
 Date/Time Reviewed

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB09 @ 1'
2/3/2017 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702129-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	107.33		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	33.80		"	"	"	"	"	
Sodium	126.80		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.60		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	15.09			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	2.31		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB09 @ 3'
2/3/2017 1:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702129-02 (Soil)

Metals (Saturated Paste Prep)

Calcium	46.90		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	21.13		"	"	"	"	"	
Sodium	29.21		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.04		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	5.01			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.609		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB09 @ 5'
2/3/2017 1:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

AAL, Inc.
X702129-03 (Soil)

Metals (Saturated Paste Prep)

Calcium	8.28		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	4.02		"	"	"	"	"	
Sodium	11.91		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.45		pH Units	1	B7B0604	02/06/2017	02/06/2017	
----	------	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	4.80			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.259		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Notes and Definitions

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.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702130-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB09 @ 10'	X702130-01	Soil	February 3, 2017 13:41	02/03/2017 18:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X762130

Client: LIE

Client Project ID: Toedtli 1-10

Checklist Completed by: D. Lu

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2-6-17 1310

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1 / 3.2 °c / _____ °c / _____ °c / _____ °c

Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/			prk
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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 ⁽¹⁾ ? (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):				

⁽¹⁾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) D. Lu Date/Time Reviewed 2/6/17 1310

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

SB09 @ 10'
2/3/2017 1:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702130-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	0.28		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.14		"	"	"	"	"	
Sodium	2.98		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	9.04		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	6.50			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0721		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

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 B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Notes and Definitions

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.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702131-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB07 @ 10'	X702131-01	Soil	February 3, 2017 12:02	02/03/2017 18:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X702131

Client: LTE

Client Project ID: Toedtli 1-10

Checklist Completed by: Dan

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2-6-12 13:2

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1 / 3.2 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/			pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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 ⁽¹⁾ ? (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):				

⁽¹⁾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) Dan

2-6-12 13:3
 Date/Time Reviewed

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB07 @ 10'
2/3/2017 12:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702131-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	0.74		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.33		"	"	"	"	"	
Sodium	3.74		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.80		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	5.11			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0839		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B0605 - NO PREP										
Duplicate (B7B0605-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Notes and Definitions

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.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702132-01.

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



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB10 @ 10'	X702132-01	Soil	February 3, 2017 14:26	02/03/2017 18:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtl 1-10 Inorganic Assessment

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X762132

Client: LTE

Client Project ID: Toedtl 1-10

Checklist Completed by: D. Lee

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2-6-17 1314

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1 13.2 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: 703

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/			pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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 ⁽¹⁾ ? (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 HNO ₃ , HCl, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		/		
Additional Comments (if any):				

⁽¹⁾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.

D. Lee
 Reviewed by (Project Manager)

2-6-17 1315
 Date/Time Reviewed

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB10 @ 10'
2/3/2017 2:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702132-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	0.80		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.37		"	"	"	"	"	
Sodium	5.27		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.95		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	6.89			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.110		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Notes and Definitions

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.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President



February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702133-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB10 @ 1'	X702133-01	Soil	February 3, 2017 14:20	02/03/2017 18:30
SB10 @ 3'	X702133-02	Soil	February 3, 2017 14:22	02/03/2017 18:30
SB10 @ 5'	X702133-03	Soil	February 3, 2017 14:24	02/03/2017 18:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

www.originslaboratory.com

X702133

ORIGINS
 LABORATORY, INC

page of

Client: LT Environmental, Inc.
 Address: 4600 W 60th Ave., Arvada, CO 80003
 Telephone Number: 303-433-9788
 Email Address: Jeremy Pike

Project Manager: Allison White
 Project Name: Toedtli 1-10 Inorganic Assessment
 Project Number: 041716045
 Samples Collected By: Jeremy Pike

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summng # Canister #			
5810 @ 11	02/03/17	1420	3	X				X			EC, pH, and SAR	1	
5810 @ 3	↓	1422	3	X				X				2	
5810 @ 51	↓	1424	3	X				X				3	
												4	
												5	
												6	
												7	
												8	
												9	
												10	
Relinquished By: <u>[Signature]</u>	Date: <u>02/03/17</u>	Time: <u>1830</u>	Received By: <u>[Signature]</u>	Date: <u>2/3/17</u>	Time: <u>1830</u>	Relinquished By: <u>[Signature]</u>		Date: <u>2/3/17</u>	Time: <u>1830</u>				

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Date Results Needed

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

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

Sample Receipt Checklist

Origins Work Order: X702133 Client: LTE
 Client Project ID: Toedtli 1-10
 Checklist Completed by: Dan Lee Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 2-6-12 13:7 Airbill #: NA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 3.2 °c °c °c (Describe)
 Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			<u>pH</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

⁽¹⁾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) Dan Lee Date/Time Reviewed 2-6-12 13:8

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB10 @ 1'
2/3/2017 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702133-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.27		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.38		"	"	"	"	"	
Sodium	1.17		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.70		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	1.29			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0687		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB10 @ 3'
2/3/2017 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702133-02 (Soil)

Metals (Saturated Paste Prep)

Calcium	2.04		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.87		"	"	"	"	"	
Sodium	11.10		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.79		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	9.20			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.202		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB10 @ 5'
2/3/2017 2:24:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702133-03 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.71		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.83		"	"	"	"	"	
Sodium	8.99		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.72		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	7.98			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.160		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

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 B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Notes and Definitions

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.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702134-01.

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



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB06 @ 1'	X702134-01	Soil	February 3, 2017 10:40	02/03/2017 18:30
SB06 @ 3'	X702134-02	Soil	February 3, 2017 10:42	02/03/2017 18:30
SB06 @ 5'	X702134-03	Soil	February 3, 2017 10:44	02/03/2017 18:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X702134

Client: LTE

Client Project ID: Toedtli 1-10

Checklist Completed by: Da Lee

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7-6-12 1320

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 1 / 3.2 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: TOED

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}	/			
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 ^{(1)?}	/			
Was adequate sample volume provided ^{(1)?}	/			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}	/			pH
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	/			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	/			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	/			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	/			
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 ^{(1)?} (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):				

⁽¹⁾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.

Da Lee
 Reviewed by (Project Manager)

7-6-12 1320
 Date/Time Reviewed

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB06 @ 1'
2/3/2017 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702134-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	9.54		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	5.11		"	"	"	"	"	
Sodium	45.83		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.61		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	16.93			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.464		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB06 @ 3'
2/3/2017 10:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702134-02 (Soil)

Metals (Saturated Paste Prep)

Calcium	10.10		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	5.45		"	"	"	"	"	
Sodium	10.93		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.31		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	3.92			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.208		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB06 @ 5'
2/3/2017 10:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

AAL, Inc.
X702134-03 (Soil)

Metals (Saturated Paste Prep)

Calcium	3.99		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	2.19		"	"	"	"	"	
Sodium	4.85		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.65		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	2.76			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0951		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

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 B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Notes and Definitions

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.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702135-01.

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



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB11 @ 10'	X702135-01	Soil	February 3, 2017 15:16	02/03/2017 18:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X762135

Client: LTE

Client Project ID: Toedtli 1-10

Checklist Completed by: Don Lee

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2-6-12 1323

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 3.2 °C / _____ °C / _____ °C (Describe) / _____ °C

Thermometer ID: TO23

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			<u>PH</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with Na ₂ SO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

⁽¹⁾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: Don Lee (Project Manager)

Date/Time Reviewed: 2-6-12 1325

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB11 @ 10'
2/3/2017 3:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702135-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	23.17		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	11.33		"	"	"	"	"	
Sodium	37.02		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.95		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	8.91			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.636		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

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 B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Notes and Definitions

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.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702136-01.

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



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB11 @ 1'	X702136-01	Soil	February 3, 2017 15:10	02/03/2017 18:30
SB11 @ 3'	X702136-02	Soil	February 3, 2017 15:12	02/03/2017 18:30
SB11 @ 5'	X702136-03	Soil	February 3, 2017 15:14	02/03/2017 18:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

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

Sample Receipt Checklist

Origins Work Order: X702136 Client: LTE
 Client Project ID: Toedtli 1-10
 Checklist Completed by: Don Lu Shipped Via: HD
 Date/time completed: 2-6-12 1328 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 3.2 °C / _____ °C / _____ °C / _____ °C
 Thermometer ID: TCB

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/			pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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 ⁽¹⁾ ? (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):				

⁽¹⁾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) Don Lu Date/Time Reviewed 2-6-12 1329

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB11 @ 1'
2/3/2017 3:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702136-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	3.01		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	1.07		"	"	"	"	"	
Sodium	1.94		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.35		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	1.36			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0738		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB11 @ 3'
2/3/2017 3:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702136-02 (Soil)

Metals (Saturated Paste Prep)

Calcium	0.42		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.17		"	"	"	"	"	
Sodium	2.66		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.99		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	4.90			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.122		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

SB11 @ 5'
2/3/2017 3:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702136-03 (Soil)

Metals (Saturated Paste Prep)

Calcium	1.92		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.81		"	"	"	"	"	
Sodium	21.12		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	9.09		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	18.08			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.439		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

Notes and Definitions

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.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

February 09, 2017

LT Environmental, Inc.

Allison White

4600 West 60th Avenue

Arvada CO 80003

Project Name - Toedtli 1-10 Inorganic Assessment Project Number - 041716045

Attached are your analytical results for Toedtli 1-10 Inorganic Assessment received by Origins Laboratory, Inc. February 03, 2017. This project is associated with Origins project number X702137-01.

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



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO 80003

Allison White
Project Number: 041716045
Project: Toedtli 1-10 Inorganic Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB06 @ 10'	X702137-01	Soil	February 3, 2017 10:50	02/03/2017 18:30

Origins Laboratory, Inc.



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 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X702137

Client: LTE

Client Project ID: Toedtli 1-10

Checklist Completed by: DL

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2-6-17 1327

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 (Describe)

Cooler Number/Temperature: 1 / 3.2 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: TCOB

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/			pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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 ⁽¹⁾ ? (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 HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		/		
Additional Comments (if any):				

⁽¹⁾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.

DL
 Reviewed by (Project Manager)

2-6-17 1331
 Date/Time Reviewed

Origins Laboratory, Inc.



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SB06 @ 10'
2/3/2017 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
X702137-01 (Soil)

Metals (Saturated Paste Prep)

Calcium	0.27		me/L	1	'[none]'	02/07/2017	02/08/2017	
Magnesium	0.16		"	"	"	"	"	
Sodium	2.05		"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.96		pH Units	1	B7B0604	02/06/2017	02/06/2017	
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SAR by 20B Saturated Paste

SAR	4.42			1	'[none]'	02/07/2017	02/08/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0735		mmhos/cm	1	B7B0605	02/06/2017	02/06/2017	
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Origins Laboratory, Inc.



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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO 80003

Allison White
 Project Number: 041716045
 Project: Toedtli 1-10 Inorganic Assessment

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7B0604 - NO PREP										
Duplicate (B7B0604-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.97		pH Units		8.95			0.223	25	
Duplicate (B7B0604-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	8.41		pH Units		8.46			0.593	25	
Duplicate (B7B0604-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	7.01		pH Units		6.95			0.860	25	
Duplicate (B7B0604-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
pH	6.99		pH Units		7.02			0.428	25	
Batch B7B0605 - NO PREP										
Blank (B7B0605-BLK1)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK2)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Blank (B7B0605-BLK3)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Blank (B7B0605-BLK4)		Prepared: 02/06/2017 Analyzed: 02/06/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7B0605-DUP1)		Source: X702126-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0324		mmhos/cm		0.0327			0.922	25	

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Allison White
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 Project: Toedtli 1-10 Inorganic Assessment

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 B7B0605 - NO PREP

Duplicate (B7B0605-DUP2)		Source: X702127-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0641		mmhos/cm		0.0630			1.73	25	
Duplicate (B7B0605-DUP3)		Source: X702142-01			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.0133		mmhos/cm		0.0161			19.0	25	
Duplicate (B7B0605-DUP4)		Source: X702142-02			Prepared: 02/06/2017 Analyzed: 02/06/2017					
Specific Conductance (EC)	0.00920		mmhos/cm		0.00990			7.33	25	

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Notes and Definitions

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 For Noelle Doyle Mathis, President