

# UMPQUA Research Company

626 NE Division St. - P.O. Box 609  
 Myrtle Creek, Oregon 97457  
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 E-mail: Lab@URCmail.net  
 Internet: http://ChemLab.cc  
 ORELAP ID# OR100031

## ANALYSIS REPORT

URC # 5052915

Deschutes River Alliance  
 PO Box 440  
 Maupin, OR 97037

Project: General  
 Project #: DRA Lake Billy Chinook W  
 Client Contact: Greg McMillan

Date Reported: 07/23/15  
 Date Sampled: 05/28/15 09:05  
 Date Received: 05/29/15 11:50  
 Sampled By: G. McMillan & L. Marxer

Sample Location: #2 LBC Forebay East Bank Deep /  
 N.44 35.95 W121 16.891

URC Sample #: 5052915-01

Matrix: Aqueous

### Inorganics

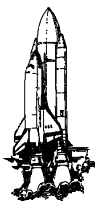
Analyte	Code	Result	Units	MRL	BML	Prepared	Analyzed	Analyst	Qualifier
-									
Chlorophyll-a		0.0147	mg/L	0.0003		05/29/15 18:53	06/11/15	TDL	Rev1, O-07
<b>EPA 300.0</b>									
Nitrate as N		ND	mg/L	0.10		05/29/15 18:40	05/29/15	TDL	
Nitrite as N		ND	mg/L	0.01		05/29/15 18:40	05/29/15	TDL	
Nitrate/Nitrite as N		ND	mg/L	0.10		05/29/15 18:40	05/29/15	TDL	
Phosphate, ortho as P		ND	mg/L	0.03		05/29/15 18:40	05/29/15	TDL	
<b>SM 4500Norg B</b>									
Total Kjeldahl Nitrogen		ND	mg/L	0.500		06/02/15	06/02/15	DJP	
<b>SM 4500P</b>									
Phosphorus-Total		ND	mg/L	0.050		06/15/15	06/16/15	TDL	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document.

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Tom Williams, Laboratory Manager



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## ANALYSIS REPORT

URC # 5052915

Deschutes River Alliance	Project: General	Date Reported: 07/23/15
PO Box 440		Date Sampled: 05/28/15 09:30
Maupin, OR 97037	Project #: DRA Lake Billy Chinook W	Date Received: 05/29/15 11:50
	Client Contact: Greg McMillan	Sampled By: G. McMillan & L. Marxer

Sample Location: #1 LBC Forebay East Bank  
 Surface / N.44 35.95 W121 16.891

URC Sample #: 5052915-02

Matrix: Aqueous

### Inorganics

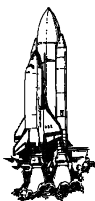
Analyte	Code	Result	Units	MRL	BML	Prepared	Analyzed	Analyst	Qualifier
-									
Chlorophyll-a		0.0506	mg/L	0.0003		05/29/15 18:53	06/11/15	TDL	Rev1, O-07
<b>EPA 300.0</b>									
Nitrate as N		0.19	mg/L	0.10		05/29/15 18:40	05/29/15	TDL	
Nitrite as N		ND	mg/L	0.01		05/29/15 18:40	05/29/15	TDL	
Nitrate/Nitrite as N		0.19	mg/L	0.10		05/29/15 18:40	05/29/15	TDL	
Phosphate, ortho as P		0.07	mg/L	0.03		05/29/15 18:40	05/29/15	TDL	
<b>SM 4500Norg B</b>									
Total Kjeldahl Nitrogen		0.890	mg/L	0.500		06/02/15	06/02/15	DJP	
<b>SM 4500P</b>									
Phosphorus-Total		0.386	mg/L	0.050		06/15/15	06/16/15	TDL	

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## ANALYSIS REPORT

URC # 5052915

Deschutes River Alliance	Project: General	Date Reported: 07/23/15
PO Box 440		Date Sampled: 05/28/15 10:00
Maupin, OR 97037	Project #: DRA Lake Billy Chinook W	Date Received: 05/29/15 11:50
	Client Contact: Greg McMillan	Sampled By: G. McMillan & L. Marxer

Sample Location: #4 LBC Forebay Middle Deep /  
 N.44 36.01 W121 16.899

URC Sample #: 5052915-03

Matrix: Aqueous

### Inorganics

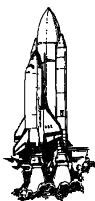
Analyte	Code	Result	Units	MRL	BML	Prepared	Analyzed	Analyst	Qualifier
-									
Chlorophyll-a		0.0093	mg/L	0.0003		05/29/15 18:53	06/11/15	TDL	Rev1, O-07
<b>EPA 300.0</b>									
Nitrate as N		ND	mg/L	0.10		05/29/15 18:40	05/29/15	TDL	
Nitrite as N		ND	mg/L	0.01		05/29/15 18:40	05/29/15	TDL	
Nitrate/Nitrite as N		ND	mg/L	0.10		05/29/15 18:40	05/29/15	TDL	
Phosphate, ortho as P		ND	mg/L	0.03		05/29/15 18:40	05/29/15	TDL	
<b>SM 4500Norg B</b>									
Total Kjeldahl Nitrogen		ND	mg/L	0.500		06/02/15	06/02/15	DJP	
<b>SM 4500P</b>									
Phosphorus-Total		ND	mg/L	0.050		06/15/15	06/16/15	TDL	

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## ANALYSIS REPORT

URC # 5052915

Deschutes River Alliance  
 PO Box 440  
 Maupin, OR 97037

Project: General  
 Project #: DRA Lake Billy Chinook W  
 Client Contact: Greg McMillan

Date Reported: 07/23/15  
 Date Sampled: 05/28/15 10:20  
 Date Received: 05/29/15 11:50  
 Sampled By: G. McMillan & L. Marxer

Sample Location: #3 LBC Forebay Middle Surface /  
 N.44 36.01 W121 16.899

URC Sample #: 5052915-04

Matrix: Aqueous

### Inorganics

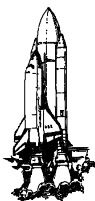
Analyte	Code	Result	Units	MRL	BML	Prepared	Analyzed	Analyst	Qualifier
-									
Chlorophyll-a		0.0385	mg/L	0.0003		05/29/15 18:53	06/11/15	TDL	Rev1, O-07
<b>EPA 300.0</b>									
Nitrate as N		0.18	mg/L	0.10		05/29/15 18:40	05/29/15	TDL	
Nitrite as N		ND	mg/L	0.01		05/29/15 18:40	05/29/15	TDL	
Nitrate/Nitrite as N		0.18	mg/L	0.10		05/29/15 18:40	05/29/15	TDL	
Phosphate, ortho as P		0.08	mg/L	0.03		05/29/15 18:40	05/29/15	TDL	
<b>SM 4500Norg B</b>									
Total Kjeldahl Nitrogen		ND	mg/L	0.500		06/02/15	06/02/15	DJP	
<b>SM 4500P</b>									
Phosphorus-Total		2.00	mg/L	0.100		06/15/15	06/16/15	TDL	

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URC # 5052915

Deschutes River Alliance  
 PO Box 440  
 Maupin, OR 97037

Project: General  
 Project #: DRA Lake Billy Chinook W  
 Client Contact: Greg McMillan

Date Reported: 07/23/15  
 Date Sampled: 05/28/15 12:50  
 Date Received: 05/29/15 11:50  
 Sampled By: G. McMillan & L. Marxer

Sample Location: #5 Deschutes Riv Below Re-Reg  
 Dam Surface / N.44 43.695 W121 14.683

URC Sample #: 5052915-05

Matrix: Aqueous

### Inorganics

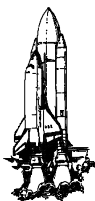
Analyte	Code	Result	Units	MRL	BML	Prepared	Analyzed	Analyst	Qualifier
-									
Chlorophyll-a		0.0066	mg/L	0.0003		05/29/15 18:53	06/11/15	TDL	O-07
<b>EPA 300.0</b>									
Nitrate as N		ND	mg/L	0.10		05/29/15 18:40	05/29/15	TDL	
Nitrite as N		ND	mg/L	0.01		05/29/15 18:40	05/29/15	TDL	
Nitrate/Nitrite as N		ND	mg/L	0.10		05/29/15 18:40	05/29/15	TDL	
<b>Phosphate, ortho as P</b>		0.05	mg/L	0.03		05/29/15 18:40	05/29/15	TDL	
<b>SM 4500Norg B</b>									
Total Kjeldahl Nitrogen		ND	mg/L	0.500		06/02/15	06/02/15	DJP	
<b>SM 4500P</b>									
<b>Phosphorus-Total</b>		0.078	mg/L	0.050		06/15/15	06/16/15	TDL	

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## ANALYSIS REPORT

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### Qualifiers and Definitions

Rev1	Report revised to correct sample ID. 7/23/15
O-07	Sample received outside recommended method hold time. Sample analyzed per client request.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the MRL (minimum reporting limit)
NA	Not Applicable
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MRL	Minimum Reporting Limit
MDL	Minimum Detection Limit
BML	Benchmark Level
(‡)	ORELAP Accredited Analyte
(~)	Due to rounding of individual analytes, the "total" may vary slightly from the sum of the individual analyte values.

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