

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 # 5090111

Deschutes River Alliance	Project: General	Date Reported: 09/29/15
PO Box 440		Date Sampled: 08/31/15 08:55
Maupin, OR 97037	Project #: 2015 Lake Billy Chinook N	Date Received: 09/01/15 11:50
	Client Contact: Greg McMillan	Sampled By: Greg McMillan

Sample Location: RB Forebay @ East Bank: Surface
 Sample/Site #1

URC Sample #: 5090111-01

Matrix: Aqueous

Inorganics

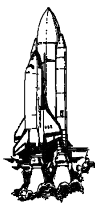
Analyte	Code	Result	Units	MRL	BML	Prepared	Analyzed	Analyst	Qualifier
-									
Chlorophyll-a		0.0205	mg/L	0.0003		09/01/15 15:18	09/11/15	TDL	O-07
EPA 300.0									
Nitrate as N		0.21	mg/L	0.10		09/01/15 17:58	09/01/15	TDL	
Nitrite as N		0.02	mg/L	0.01		09/01/15 17:58	09/01/15	TDL	
Nitrate/Nitrite as N		0.23	mg/L	0.10		09/01/15 17:58	09/01/15	TDL	
Phosphate, ortho as P		0.05	mg/L	0.03		09/01/15 17:58	09/01/15	TDL	
SM 4500Norg B									
Total Kjeldahl Nitrogen		0.459	mg/L	0.200		09/03/15	09/04/15	DJP	
SM 4500P									
Phosphorus-Total		ND	mg/L	0.050		09/09/15	09/10/15	TDL	

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ANALYSIS REPORT

URC # 5090111

Deschutes River Alliance
 PO Box 440
 Maupin, OR 97037

Project: General
 Project #: 2015 Lake Billy Chinook N
 Client Contact: Greg McMillan

Date Reported: 09/29/15
 Date Sampled: 08/31/15 09:06
 Date Received: 09/01/15 11:50
 Sampled By: Greg McMillan

Sample Location: RB Forebay @ East Bank: Spl. @
 Depth/Site #1

URC Sample #: 5090111-02

Matrix: Aqueous

Inorganics

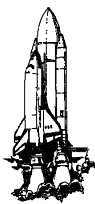
Analyte	Code	Result	Units	MRL	BML	Prepared	Analyzed	Analyst	Qualifier
-									
Chlorophyll-a		0.0048	mg/L	0.0003		09/01/15 15:18	09/11/15	TDL	O-07
EPA 300.0									
Nitrate as N		0.31	mg/L	0.10		09/01/15 17:58	09/01/15	TDL	
Nitrite as N		ND	mg/L	0.01		09/01/15 17:58	09/01/15	TDL	
Nitrate/Nitrite as N		0.32	mg/L	0.10		09/01/15 17:58	09/01/15	TDL	
Phosphate, ortho as P		0.07	mg/L	0.03		09/01/15 17:58	09/01/15	TDL	
SM 4500Norg B									
Total Kjeldahl Nitrogen		0.285	mg/L	0.200		09/03/15	09/04/15	DJP	
SM 4500P									
Phosphorus-Total		0.091	mg/L	0.050		09/09/15	09/10/15	TDL	

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ANALYSIS REPORT

URC # 5090111

Deschutes River Alliance	Project: General	Date Reported: 09/29/15
PO Box 440		Date Sampled: 08/31/15 09:22
Maupin, OR 97037	Project #: 2015 Lake Billy Chinook N	Date Received: 09/01/15 11:50
	Client Contact: Greg McMillan	Sampled By: Greg McMillan

Sample Location: RB Forebay @ Middle: Surface
 Sample/Site #2

URC Sample #: 5090111-03

Matrix: Aqueous

Inorganics

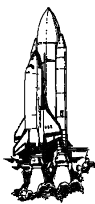
Analyte	Code	Result	Units	MRL	BML	Prepared	Analyzed	Analyst	Qualifier
-									
Chlorophyll-a		0.0187	mg/L	0.0003		09/01/15 15:18	09/11/15	TDL	O-07
EPA 300.0									
Nitrate as N		ND	mg/L	0.10		09/01/15 17:58	09/01/15	TDL	
Nitrite as N		ND	mg/L	0.01		09/01/15 17:58	09/01/15	TDL	
Nitrate/Nitrite as N		ND	mg/L	0.10		09/01/15 17:58	09/01/15	TDL	
Phosphate, ortho as P		ND	mg/L	0.03		09/01/15 17:58	09/01/15	TDL	
SM 4500Norg B									
Total Kjeldahl Nitrogen		0.511	mg/L	0.200		09/03/15	09/04/15	DJP	
SM 4500P									
Phosphorus-Total		0.079	mg/L	0.050		09/09/15	09/10/15	TDL	

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ANALYSIS REPORT

URC # 5090111

Deschutes River Alliance	Project: General	Date Reported: 09/29/15
PO Box 440		Date Sampled: 08/31/15 09:35
Maupin, OR 97037	Project #: 2015 Lake Billy Chinook N	Date Received: 09/01/15 11:50
	Client Contact: Greg McMillan	Sampled By: Greg McMillan

Sample Location: RB Forebay @ Middle: Spl. @
 Depth/Site #2

URC Sample #: 5090111-04

Matrix: Aqueous

Inorganics

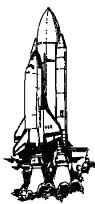
Analyte	Code	Result	Units	MRL	BML	Prepared	Analyzed	Analyst	Qualifier
-									
Chlorophyll-a		0.0020	mg/L	0.0003		09/01/15 15:18	09/11/15	TDL	O-07
EPA 300.0									
Nitrate as N		0.14	mg/L	0.10		09/01/15 17:58	09/01/15	TDL	
Nitrite as N		ND	mg/L	0.01		09/01/15 17:58	09/01/15	TDL	
Nitrate/Nitrite as N		0.14	mg/L	0.10		09/01/15 17:58	09/01/15	TDL	
Phosphate, ortho as P		0.07	mg/L	0.03		09/01/15 17:58	09/01/15	TDL	
SM 4500Norg B									
Total Kjeldahl Nitrogen		3.27	mg/L	0.200		09/03/15	09/04/15	DJP	
SM 4500P									
Phosphorus-Total		0.084	mg/L	0.050		09/09/15	09/10/15	TDL	

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ANALYSIS REPORT

URC # 5090111

Deschutes River Alliance	Project: General	Date Reported: 09/29/15
PO Box 440		Date Sampled: 08/31/15 09:54
Maupin, OR 97037	Project #: 2015 Lake Billy Chinook N	Date Received: 09/01/15 11:50
	Client Contact: Greg McMillan	Sampled By: Greg McMillan

Sample Location: RB Forebay @ West Bank:
 Surface Sample/Site #3

URC Sample #: 5090111-05

Matrix: Aqueous

Inorganics

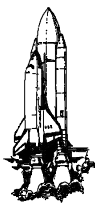
Analyte	Code	Result	Units	MRL	BML	Prepared	Analyzed	Analyst	Qualifier
-									
Chlorophyll-a		0.0222	mg/L	0.0003		09/01/15 15:18	09/11/15	TDL	O-07
EPA 300.0									
Nitrate as N		ND	mg/L	0.10		09/01/15 17:58	09/01/15	TDL	
Nitrite as N		ND	mg/L	0.01		09/01/15 17:58	09/01/15	TDL	
Nitrate/Nitrite as N		ND	mg/L	0.10		09/01/15 17:58	09/01/15	TDL	
Phosphate, ortho as P		ND	mg/L	0.03		09/01/15 17:58	09/01/15	TDL	
SM 4500Norg B									
Total Kjeldahl Nitrogen		0.483	mg/L	0.200		09/03/15	09/04/15	DJP	
SM 4500P									
Phosphorus-Total		0.051	mg/L	0.050		09/09/15	09/10/15	TDL	

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ANALYSIS REPORT

URC # 5090111

Deschutes River Alliance	Project: General	Date Reported: 09/29/15
PO Box 440		Date Sampled: 08/31/15 10:10
Maupin, OR 97037	Project #: 2015 Lake Billy Chinook N	Date Received: 09/01/15 11:50
	Client Contact: Greg McMillan	Sampled By: Greg McMillan

Sample Location: RB Forebay @ West Bank: Spl. @
 Depth/Site #3

URC Sample #: 5090111-06

Matrix: Aqueous

Inorganics

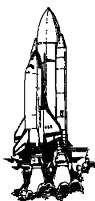
Analyte	Code	Result	Units	MRL	BML	Prepared	Analyzed	Analyst	Qualifier
-									
Chlorophyll-a		0.0452	mg/L	0.0003		09/01/15 15:18	09/11/15	TDL	O-07
EPA 300.0									
Nitrate as N		0.33	mg/L	0.10		09/01/15 17:58	09/01/15	TDL	
Nitrite as N		ND	mg/L	0.01		09/01/15 17:58	09/01/15	TDL	
Nitrate/Nitrite as N		0.33	mg/L	0.10		09/01/15 17:58	09/01/15	TDL	
Phosphate, ortho as P		0.08	mg/L	0.03		09/01/15 17:58	09/01/15	TDL	
SM 4500Norg B									
Total Kjeldahl Nitrogen		0.327	mg/L	0.200		09/03/15	09/04/15	DJP	
SM 4500P									
Phosphorus-Total		0.445	mg/L	0.050		09/09/15	09/10/15	TDL	

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ANALYSIS REPORT

URC # 5090111

Deschutes River Alliance
 PO Box 440
 Maupin, OR 97037

Project: General
 Project #: 2015 Lake Billy Chinook N
 Client Contact: Greg McMillan

Date Reported: 09/29/15
 Date Sampled: 08/31/15 12:45
 Date Received: 09/01/15 11:50
 Sampled By: Greg McMillan

Sample Location: Rereg. Dam Tailrace + 200 mtrs.
 Spl. Depth: 1 mtr./Site #4

URC Sample #: 5090111-07

Matrix: Aqueous

Inorganics

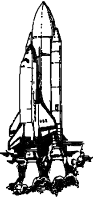
Analyte	Code	Result	Units	MRL	BML	Prepared	Analyzed	Analyst	Qualifier
-									
Chlorophyll-a		0.0055	mg/L	0.0003		09/01/15 15:18	09/11/15	TDL	O-09
EPA 300.0									
Nitrate as N		0.24	mg/L	0.10		09/01/15 17:58	09/02/15	TDL	
Nitrite as N		ND	mg/L	0.01		09/01/15 17:58	09/02/15	TDL	
Nitrate/Nitrite as N		0.24	mg/L	0.10		09/01/15 17:58	09/02/15	TDL	
Phosphate, ortho as P		0.08	mg/L	0.03		09/01/15 17:58	09/02/15	TDL	
SM 4500Norg B									
Total Kjeldahl Nitrogen		0.242	mg/L	0.200		09/03/15	09/04/15	DJP	
SM 4500P									
Phosphorus-Total		0.106	mg/L	0.050		09/09/15	09/10/15	TDL	

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ANALYSIS REPORT

URC # 5090111

Qualifiers and Definitions

O-09	This sample was analyzed outside of the recommended holding time per client's request.
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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