



**IDAHO TRANSPORTATION DEPARTMENT**

600 W. Prairie Ave.  
Coeur d'Alene, ID 83815-8764

(208) 772-1200  
itd.idaho.gov

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February 15, 2016

U.S. EPA Region 10  
Office of Water  
Attn: Ms. Julie Congdon - Storm Water Program  
1200 6<sup>th</sup> Avenue (OW-130)  
Seattle, Washington 98101

Re: MS4 2014 Annual Report

Dear Ms. Congdon:

The Idaho Transportation Department, District 1 hereby submits the enclosed MS4 Permit No. IDS-028223 Annual Report for 2015 and certifies the following:

*"I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties of submitting false information, including the possibility of fine and imprisonment for knowing violations."*

Please feel free to call me at 208-772-1200 if you have any questions or concerns regarding this report.

Sincerely,

Idaho Transportation Department

Jason Minzghor, P.E.  
Operations Manager

Cc: Idaho Department of Environmental Quality

Enclosure: MS4 2015 Annual Report

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**MUNICIPAL SEPARATE STORM SEWER SYSTEM  
(MS4)  
EPA NPDES PERMIT NO.: IDS-028223  
2015 ANNUAL REPORT**

**IDAHO TRANSPORTATION DEPARTMENT  
DISTRICT ONE  
Kootenai County  
Coeur d'Alene, Idaho**

**SUBMITTED BY:  
IDAHO TRANSPORTATION DEPARTMENT  
DISTRICT ONE**

**FOR THE REPORTING PERIOD:  
JANUARY 1, 2015 TO DECEMBER 31, 2015**

**FEBRUARY 15, 2016**

## INTRODUCTION

This Annual Report has been submitted by the Idaho Transportation Department District One (ITD) in response to reporting requirements set forth in Part IV.C of the EPA Permit #IDS-028223. This permit was issued by the Environmental Protection Agency (EPA) in compliance with the National Pollutant Discharge Elimination System (NPDES) regulations covering storm water discharges from ITD's Municipal Separate Storm Sewer System (MS4) located in Coeur d'Alene, Idaho. This report is hereby submitted to EPA and the Idaho Department of Environmental Quality (DEQ) to satisfy the permit reporting requirements for the Annual Report covering the period from January 1, 2015 through December 31, 2015. The purpose of this Annual Report is to document progress toward achieving the minimum control measures associated with the ITD D1 MS4, as identified by ITD D1's Stormwater Management Program (SWMP). The permit and MS4 documentation can be accessed on the ITD website at: <http://www.itd.idaho.gov/enviro/storm%20water/ms4/default.htm>

## MINIMUM CONTROL MEASURES IDENTIFIED BY THE SWMP

### *A. PUBLIC EDUCATION AND OUTREACH*

1. ITD Stormwater Training Opportunities – ITD offers instructor led training opportunities in stormwater management and sediment and erosion control. These courses satisfy the qualification requirements for stormwater inspectors on ITD projects. In 2015, ITD provided the following statewide training opportunities to ITD personnel, consultants, and construction contractors:
  - There was 1 Environmental Inspector Course (16 hours) and 16 people were certified in 2015.
  - There were 6 Water Pollution Control Manager Training Courses (16 hours) and 41 WPCMs were certified in 2015.
2. ITD Stormwater Management, Sediment and Erosion Control Guidance - Ongoing updates were made to ITD's website relative to the subject of stormwater management during the past reporting period. The ITD website is used as the principal tool for disseminating stormwater information, guidance and contract specifications for ITD projects. The ITD website is the best and most current source for downloading stormwater information from ITD.
3. ITD Stormwater Newsletters - ITD periodically develops and distributes stormwater management newsletters focusing on the latest stormwater, sediment and erosion control

news and information applicable in Idaho. There were no newsletters developed in 2015. Past newsletters can be downloaded from the ITD website.

## ***B. PUBLIC INVOLVEMENT/PARTICIPATION***

1. ITD Website - ITD continues to maintain a stormwater/MS4 section on its website. The ITD D1 MS4 permit, annual reports, MS4 map, and water quality data are available on the website for viewing. The public can contact ITD with any comments or questions through the website.
2. ITD Maintenance Section Public Involvement - ITD's Operations Manager and staff are responsible for performing highway maintenance activities on ITD right of way, including maintenance of stormwater infrastructure. Any public or regulatory agency concerns and comments can be directed to the ITD District 1 Operations Manager at any time during normal business hours by calling 208-772-1200, accessing the ITD website or by visiting or writing to the District 1 Office at 600 W. Prairie Avenue Coeur d'Alene, Idaho 83815.
3. ITD Transportation Planning Activities - ITD routinely participates the Kootenai Metropolitan Planning Organization (KMPO) quarterly meetings. Formed in 2003, KMPO and its technical arm, the Kootenai County Area Transportation Team (KCATT), meet monthly to facilitate its mission. These groups oversee transportation activities within the federally designated urban area boundary, develop the transportation work plan and a transportation demand model. The KMPO consists of several transportation and land use planning organizations that include the following: Cities of Coeur d'Alene, Post Falls, Hayden, Rathdrum, Kootenai County, Post Falls Highway District, Lakes Highway District, Eastside Highway District and ITD. The KMPO process also helps shape projects that may become incorporated into ITD's Transportation Improvement Program. KMPO meetings include an open public comment opportunity to allow for public involvement in KMPO activities. Stormwater issues or concerns may be raised by the public during KMPO meetings.
4. Adopt a Highway Program – In 2015, 1.5 tons of litter was removed from the I-90 right of way within the MS4 drainage area.

## ***C. ILLICIT DISCHARGE DETECTION AND ELIMINATION***

1. Dry Weather Screening - On August 28, 2015, the I-90 MS4 was visually observed at open ditches and pipe outfalls to satisfy the requirement for dry weather screening in an effort to identify any potential for illicit discharges to the MS4 system. There had been no measureable precipitation in the area for at least two weeks leading up the dry weather screening event. Hard pipe outfalls were observed immediately up gradient from the 15<sup>th</sup> Street interchange, down gradient from the 15<sup>th</sup> Street Interchange and at the Sherman Avenue Interchange. As seen in 2013 and 2014, ponding was again observed in the open ditch at the pipe outfall immediately above the 15<sup>th</sup> Street Interchange. There are no explanations as to why saturation exists at this location during prolonged dry weather periods. The drainage is clear and shows no signs of contamination. There were no signs of illicit discharges to the ITD MS4 system in 2015.
2. Spill Response - ITD's spill response procedures are identified in the *Transportation Incident Management Plan for the State of Idaho, January 2008*. This document can be obtained from the ITD website at:  
[http://www.itd.idaho.gov/publications/detour/ITD%20TIM%20Plan\\_Final\\_2008.pdf](http://www.itd.idaho.gov/publications/detour/ITD%20TIM%20Plan_Final_2008.pdf)
3. Complaint Filing - ITD has also set up an electronic file folder to record and track any public complaints or information that may be received. Complaints or other information related to MS4 management and operation can be communicated to the District 1 Headquarters office at 208-772-1200. No specific complaints were recorded during the 2015 reporting period.
4. ITD MS4 Map - ITD has developed a stormwater infrastructure map of the I-90 facility within the city limits of Coeur d'Alene. The map may be modified over time with new information. No changes to the map were made in 2015. The MS4 map is posted on the ITD website for viewing at:  
<http://www.itd.idaho.gov/enviro/storm%20water/ms4/GIS%20Maps/MS4%20Map%20of%20CdA.pdf>.
5. Illicit Discharge Training - As discussed in Control Measure 1, ITD implements an ongoing stormwater education and training program for its employees and interested contractors in the area of NPDES regulations, stormwater management, and sediment and erosion control BMPs. The training program will be maintained, updated, and revised periodically as regulations change and BMP technical support materials are updated.

#### ***D. CONSTRUCTION SITE STORMWATER RUNOFF CONTROL***

No construction projects were undertaken within the MS4 area during 2015.

***E. POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT***

No development or redevelopment projects were undertaken during 2015 within the portion of the MS4 area operated by ITD.

***F. POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS***

The principle stormwater pollutant in highway runoff is sediment (sand) from highway sanding operations. Sediment deposits can build up along roadway shoulders, catch basins, and within open ditches along the roadway. Maintenance activities to address sedimentation of the system include periodic shoulder shaping, drop inlet sediment removal, and ditch cleaning to maintain the original line and grade of the stormwater system. In recent years ITD has scaled back on its use of sand for use as anti-skid material and now uses more salt brine than in the past. Less sanding on I-90 generally means less frequent maintenance to remove sand deposits on shoulders and from drop inlets and ditches. Routine roadway brooming and drop inlet maintenance was conducted by ITD in April of 2015.

ITD personnel inspected the I-90 stormwater conveyance system in August 2015. All of the highway embankment slopes along the facility are currently stable with no signs of erosion. The catch basins, piping and ditches appear to be in proper working condition. Currently ITD has no concerns with the MS4 operation and has no immediate plans to perform ditch maintenance. In the future, if sediment removal from ditches becomes necessary again, the work will be conducted during dry weather periods when the MS4 is dry and the potential for sediment discharge is low.

Operation and maintenance (O&M) of the I-90 MS4 does not require any of the following activities: fleet vehicle maintenance and washing, materials storage, building maintenance, grounds/park maintenance, hazardous material storage, used oil recycling, sand/salt storage, solid waste transfer activities, spill control and prevention measures for refueling facilities, or snow disposal site operation.

***G. CONTROL OF THE DISCHARGE OF POLLUTANTS OF CONCERN***

Samples were collected per the MS4 permit requirements in 2015 (see updated data log). Sampling events occurred on 3/15/2015, 5/24/2015, 7/11/2015 and 10/31/2015. In 2015 ITD's automated sampling station at the Sherman Avenue Interchange went online.

***H. RESULTS OF INFORMATION COLLECTED AND ANALYZED DURING THE PREVIOUS 12 MONTH PERIOD:***

See Attached.

***I. SUMMARY OF THE NUMBER OF INSPECTIONS, FORMAL ENFORCEMENT ACTIONS AND SIMILAR ACTIONS PERFORMED BY THE PERMITTEE:***

No formal enforcement actions or recommendations were filed during 2015.

***J. SUMMARY OF NON-EPA RELATED COMPLAINTS AND/OR ENFORCEMENT ACTIONS:***

There were no non-EPA related complaints and/or enforcement actions.

***K. COPIES OF EDUCATIONAL MATERIALS, ORDINANCES, INVENTORIES, GUIDANCE MATERIALS OR OTHER PRODUCTS:***

Refer to ITD website.

***L. ACTIVITIES TO BE UNDERTAKEN IN COMING YEAR:***

Continue water quality monitoring and conduct dry weather survey.

***M. DESCRIPTION AND SCHEDULE FOR IMPLEMENTATION OF ADDITIONAL BMPS THAT MAY BE NECESSARY BASED ON MONITORING RESULTS TO ENSURE COMPLIANCE WITH APPLICABLE WATER QUALITY STANDARDS:***

None

***N. NOTICE IF THE PERMITTEE IS RELYING ON ANOTHER ENTITY TO SATISFY PERMIT OBLIGATIONS:***

None

## **FIGURES AND ATTACHMENTS**

- Dry Weather Screening Photographs
- ITD D1 MS4 2014 Water Quality Laboratory Results





Figure 1 - MS4 outlet into open channel up gradient from 15th Street Interchange.



Figure 2 - MS4 outlet into open channel down gradient from 15th Street Interchange.





Figure 3 - 15th Street outlet into open channel down gradient from 15th Street Interchange.



Figure 4 - MS4 open channel down gradient from Sherman Avenue (MS4 sampling point).

District 1 MS4 WQ Results				Concentration (mg/L)														
MS4 Outlet	Date	Flow (cfs)	Temp (deg C.)	TSS (mg/L)	Total Nitrogen	Nitrate	Nitrite	TKN	TP	T. Lead	T. Zinc	hardness	Cl	Mg	Ca	PCBs		
Below Sherman IC	11/6/2008	NA	NA	10	2.51	1.8	ND	0.62	0.061	ND	ND	112	17	11.1	26.4	ND		
	7/1/2009	NA	NA	3	1.59	0.8	ND	0.57	0.126	ND	ND	NA	19	8.6	26.4	ND		
	12/22/2009	NA	NA	96	2.37	1.4	ND	1.01	0.23	ND	0.071	77.6	21	18.3	7.75	ND		
	3/26/2010	NA	NA	19	0.76	ND	ND	0.4	0.07	ND	0.025	40.6	9.2	3.82	9.98	ND		
	6/9/2010	6.92	13	15	0.63	ND	ND	0.29	0.067	ND	0.017	30	NA	2.68	7.6	ND		
	10/29/2010	1.66	7	85	2.11	1.2	ND	0.86	0.17	0.012	0.046	90.6	NA	8.76	21.8	ND		
	4/11/2011	8.75	12	13	0.59	ND	ND	0.27	0.066	ND	0.019	30.3	NA	2.81	7.51	ND		
	6/13/2011	2.19	14	16	0.38	ND	ND	0.38	0.0686	ND	ND	36.3	NA	3.34	8.96	ND		
	11/22/2011	13.65	3.3	47	0.51	ND	ND	0.51	0.155	ND	0.039	10.4	NA	1.09	2.35	ND		
	1/30/2012	8.87	5	40	0.945	0.51	ND	0.435	0.132	ND	0.02	28.3	NA	2.78	6.68	NA		
	4/26/2012	2.36	12.4	106	3.4	ND	ND	3.4	0.186	0.011	0.06	40.2	6.19	4.04	9.36	ND		
	6/5/2012	1.2	14.7	8	0.285	ND	ND	0.285	0.046	ND	ND	37.6	5.07	3.12	9.82	ND		
	8/22/2012	0	NA	15	2	0.81	ND	1.19	0.119	ND	0.019	54.5	15.7	4.66	14.1	ND		
	10/30/2012	0.06	9.8	14	1.22	0.69	ND	0.528	0.121	ND	0.037	66.5	12.7	6.3	16.1	ND		
	5/28/2013	1.69	12	54	0.716	ND	ND	0.716	0.119	ND	0.041	33.4	12.1	3.46	7.66	ND		
	6/19/2013	0.57	19	21	0.914	ND	ND	0.914	0.161	ND	0.033	29.3	6.71	2.35	7.85	ND		
	8/30/2013	1	18.5	30	2.26	0.95	ND	1.31	0.218	0.0049	0.0398	32.5	5.58	2.39	9.07	ND		
	4/22/2014	0.56	8.5	11	0.59	ND	ND	0.509	0.055	ND	0.018	44.8	NA	4.09	11.2	ND		
	6/17/2014	0.41	12.7	19	0.817	ND	ND	0.817	0.119	ND	0.035	39.2	NA	3.25	10.3	ND		
	10/23/2014	4.61	12.6	39	0.613	ND	ND	0.613	0.215	ND	0.04	13.3	1.61	1.08	3.55	ND		
	3/15/2015	1.8	7	NA	0.838	ND	ND	0.838	0.18	0.013	NA	39.3	NA	3.84	9.39	ND		
	5/24/2015	1.32	15.5	NA	8.11	ND	ND	8.11	2.35	0.157	NA	139	NA	18.9	24.7	ND		
	7/11/2015	0.1	22.7	NA	14.7	1.87	0.13	12.7	1.46	0.099	NA	92.9	NA	11.7	17.8	ND		
	10/31/2015	0.279	11.1	NA	1.61	ND	ND	1.61	0.33	0.01	NA	21.9	NA	1.55	6.22	ND		

# Accurate Testing Labs, LLC

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www.accuratetesting.com  
info@accuratetesting.com

# Certificate of Analysis

Order No.:

**2015030211**

Page: 1 of 2

Idaho Transportation Dept  
600 W. Prairie Ave  
Coeur d'Alene , ID 83815

Project: MS4 Sherman IC

Date Received: 03/16/2015 10:35

Sample: **1**  
Location: Sherman IC  
Sample Type: Grabs

Matrix: Non-Potable Water  
D/T Collected: 03/15/2015 15:44  
Collected by: Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	9.39	mg/L	EPA 200.7	0.17	03/19/15	WM
Hardness, Total (as CaCO3)	39.3	mg/L	SM 2340	0.2	03/19/15	WM
Lead	0.013	mg/L	SM 3120B	0.001	03/18/15	WM
Magnesium	3.84	mg/L	EPA 200.7	0.03	03/19/15	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	03/17/15	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	03/17/15	WM
Phosphorus, Total	0.180	mg/L	EPA 365.1	0.007	03/19/15	WM
Total Kjeldahl Nitrogen (N)	0.838	mg/L	SM 4500NORG B	0.09	03/20/15	WM
Total Nitrogen (NO2+NO3+TKN as N)	0.838	mg/L	Calculation		03/20/15	WM

Sample: **2**  
Location: Sherman IC  
Sample Type: Grabs

Matrix: Non-Potable Water  
D/T Collected: 03/15/2015 15:45  
Collected by: Wally Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.2	03/26/15	ANA
Aroclor 1016	ND	ug/L	EPA 8082	0.2	03/26/15	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	03/26/15	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	03/26/15	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	03/26/15	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	03/26/15	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	03/26/15	ANA

Comments:



Laboratory Supervisor, Walter Mueller Date: 03/30/15

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info@accuratetesting.com

# Certificate of Analysis

Order No.: **2015030211**

Page: 2 of 2

Aroclor 1260	ND	ug/L	EPA 8082	0.2	03/26/15	ANA
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If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Walter Mueller Date: 03/30/15



# Chain of Custody

**Accurate Testing Labs**

7950 Meadowlark Way | Coeur d'Alene, ID 83815 | Phone: (208) 762-8378 | Fax: (208) 762-9082  
E-mail: [mueller@accuratetesting.com](mailto:mueller@accuratetesting.com) | Internet: <http://www.accuratetesting.com>

## Results & Invoice to:

Name: WALLACE BROWN  
Address: 600 W PRAIRIE AVE  
Phone: 208 772 1225 Fax: 208 772 1203

## Reporting Requirements:

Preliminary: FAX ☐ Verbal ☐ by:    /   /     
Final Report: FAX ☐ Verbal ☐ by:    /   /     
Rushes: 48 hrs. ☐ Other: ☐

## Name of Sampler:

WALLACE BROWN

## Project Information:

Project Name: MS4 SHERMAN I. C.  
Project Number:                       
Purchase Order Number:                     

## ANALYSIS REQUEST

Remarks/Sample  
Conditions

Lab #	Sample ID	Date	Time	Matrix
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NO. OF CONTAINERS	CALCIUM	HARDNESS	LEAD	MAGNESIUM	NITRATE - N	NITRITE - N	PHOSPHORUS	TOTAL KJELDAH	TOTAL NITROGEN	PCB
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211-1	SHERMAN IC	3/15/15	3:44	WATER
-2	SHERMAN IC	3/16/15	3:45	WATER

	X	X	X	X	X	X	X	X	X	
										X

Relinquished by:

Date Time

Received by:

Date Time

Chain of Custody Seals

☐ Yes ☐ No ☐ N/A  
☐ UPS ☐ FedEx  
☐ Bus ☒ Hand

030  
1

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# Certificate of Analysis

Order No.: **2015050381**

Page: 1 of 2

Idaho Transportation Dept  
600 W. Prairie Ave  
Coeur d'Alene, ID 83815

Project: MS4 Sherman I.C.

Date Received: 05/26/2015 08:51

Sample: **1** Matrix: Non-Potable Water  
Location: Sherman IC D/T Collected: 05/24/2015 00:00  
Sample Type: Grabs Collected by: Wallace Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Calcium	24.7	mg/L	EPA 200.7	0.17	05/29/15	WM
Hardness, Total (as CaCO3)	139	mg/L	SM 2340	0.2	05/29/15	WM
Lead	0.157	mg/L	SM 3120B	0.005	05/28/15	WM
Magnesium	18.9	mg/L	EPA 200.7	0.03	05/29/15	WM
Nitrate-N	ND	mg/L	SM 4110B	0.5	05/26/15	WM
Nitrite-N	ND	mg/L	SM 4110B	0.5	05/26/15	WM
Phosphorus, Total	2.35	mg/L	EPA 365.1	0.007	05/28/15	WM
Total Kjeldahl Nitrogen (N)	8.11	mg/L	SM 4500NORG B	0.09	05/29/15	WM
Total Nitrogen (NO2+NO3+TKN as N)	8.11	mg/L	Calculation		05/29/15	WM

Sample: **2** Matrix: Non-Potable Water  
Location: Sherman IC D/T Collected: 05/24/2015 00:00  
Sample Type: Grabs Collected by: Wallace Brown

Analyte	Result	Unit	Method	PQL	Test Date	Analyst
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.8	06/05/15	ANA
Aroclor 1016	ND	ug/L	EPA 8082	0.8	06/05/15	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.8	06/05/15	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.8	06/05/15	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.8	06/05/15	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.8	06/05/15	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.8	06/05/15	ANA

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 06/09/15

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Order No.: **2015050381**

Page: 2 of 2

Aroclor 1260	ND	ug/L	EPA 8082	0.8	06/05/15	ANA
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If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 06/09/15



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[illegible]

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# Certificate of Analysis

Order No.:

**2015070204**

Page: 1 of 2

Idaho Transportation Dept  
600 W. Prairie Ave  
Coeur d'Alene, ID 83815

Project: MS4 Sherman I.C.

Date Received: 07/13/2015 15:38

Sample: **1**  
Location: Sherman IC  
Sample Type: Grabs

Matrix: Non-Potable Water  
D/T Collected: 07/11/2015 06:12  
Collected by: Wally Brown

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Calcium	17.8	mg/L	EPA 200.7	0.17	07/16/15	WM
Hardness, Total (as CaCO <sub>3</sub> )	92.9	mg/L	SM 2340	0.2	07/16/15	WM
Magnesium	11.7	mg/L	EPA 200.7	0.03	07/16/15	WM
Phosphorus, Total	1.46	mg/L	EPA 365.1	0.007	07/16/15	NR
Nitrate-N	1.87	mg/L	EPA 300.0	0.5	07/14/15	WM
Nitrite-N	0.13	mg/L	EPA 300.0	0.1	07/14/15	WM
Total Kjeldahl Nitrogen (N)	12.7	mg/L	SM 4500NORG	0.09	07/17/15	NR
Total Nitrogen (NO <sub>2</sub> +NO <sub>3</sub> +TKN as	14.7	mg/L	Calculation		07/17/15	WM
Lead	0.099	mg/L	SM 3120B	0.005	07/15/15	WM

Sample: **2**  
Location: Sherman IC  
Sample Type: Grabs

Matrix: Non-Potable Water  
D/T Collected: 07/11/2015 06:12  
Collected by: Wally Brown

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Aroclor 1016	ND	ug/L	EPA 8082	0.8	07/28/15	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.8	07/28/15	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.8	07/28/15	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.8	07/28/15	ANA
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.8	07/28/15	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.8	07/28/15	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.8	07/28/15	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.8	07/28/15	ANA

Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 07/30/15

# Accurate Testing Labs, LLC

7950 Meadowlark Way  
Coeur d'Alene, ID 83815  
Phone (208) 762 8378 Fax (208) 762 9082  
www.accuratetesting.com  
info@accuratetesting.com

# Certificate of Analysis

Order No.:

**2015110033**

Page: 1 of 2

Idaho Transportation Dept  
600 W. Prairie Ave  
Coeur d'Alene, ID 83815

Project: MS4 Sherman I.C.

Date Received: 11/02/2015 13:45

Sample: **1**  
Location: Sherman IC  
Sample Type: Grabs

Matrix: Non-Potable Water  
D/T Collected: 10/31/2015 08:00  
Collected by: Wally Brown

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Calcium	6.22	mg/L	EPA 200.7	0.17	11/05/15	WM
Hardness, Total (as CaCO3)	21.9	mg/L	SM 2340	0.6	11/05/15	WM
Phosphorus, Total	0.330	mg/L	EPA 365.1	0.007	11/05/15	WM
Nitrate-N	ND	mg/L	EPA 300.0	0.5	11/03/15	WM
Nitrite-N	ND	mg/L	EPA 300.0	0.5	11/03/15	WM
Magnesium	1.55	mg/L	EPA 200.7	0.03	11/05/15	WM
Total Kjeldahl Nitrogen (N)	1.61	mg/L	SM 4500NORG B	0.09	11/06/15	AC
Total Nitrogen (NO2+NO3+TKN as N)	1.61	mg/L	Calculation		11/06/15	AC
Lead	0.010	mg/L	SM 3120B	0.005	11/06/15	WM

Sample: **2**  
Location: Sherman IC  
Sample Type: Grabs

Matrix: Non-Potable Water  
D/T Collected: 10/31/2015 08:00  
Collected by: Wally Brown

Analyte	Result	Unit	Method	PQL	Analysis Date	Analyst
Aroclor 1016	ND	ug/L	EPA 8082	0.2	11/18/15	ANA
Aroclor 1221	ND	ug/L	EPA 8082	0.2	11/18/15	ANA
Aroclor 1232	ND	ug/L	EPA 8082	0.2	11/18/15	ANA
Aroclor 1242	ND	ug/L	EPA 8082	0.2	11/18/15	ANA
Aroclor (PCB, total)	ND	ug/L	EPA 8082	0.2	11/18/15	ANA
Aroclor 1248	ND	ug/L	EPA 8082	0.2	11/18/15	ANA
Aroclor 1254	ND	ug/L	EPA 8082	0.2	11/18/15	ANA
Aroclor 1260	ND	ug/L	EPA 8082	0.2	11/18/15	ANA

Comments:

Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 11/20/15

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# Certificate of Analysis

Order No.: **2015110033**

Page: 2 of 2

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If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



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Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 11/20/15



# Chain of Custody

**Accurate Testing Labs**

7950 Meadowlark Way | Coeur d'Alene, ID 83815 | Phone: (208) 762-8378 | Fax: (208) 762-9082  
E-mail: [mueller@accuratetesting.com](mailto:mueller@accuratetesting.com) | Internet: <http://www.accuratetesting.com>

## Results & Invoice to:

Name: WALLACE BROWN  
Address: 600 W PRAIRIE AVE  
Phone: 208 772 1225 Fax: 208 772 1203

## Reporting Requirements:

Preliminary: FAX ☐ Verbal ☐ by: 1/1  
Final Report: FAX ☐ Verbal ☐ by: 1/1  
Rushes: 48 hrs. ☐ Other: ☐

Name of Sampler:  
WALLACE BROWN

## Project Information:

Project Name: MS4 SHERMAN I. C.  
Project Number: \_\_\_\_\_  
Purchase Order Number: \_\_\_\_\_

## ANALYSIS REQUEST

Remarks/Sample  
Conditions

Lab #	Sample ID	Date	Time	Matrix
-------	-----------	------	------	--------

NO. OF CONTAINERS	CALCIUM	HARDNESS	LEAD	MAGNESIUM	NITRATE - N	NITRITE - N	PHOSPHORUS	TOTAL NITROGEN	TOTAL NITROGEN	PCB
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119033-1  
-2

119033-1	SHERMAN IC	10/3/15	8:00A	WATER
-2	SHERMAN IC	10/3/15	8:00A	WATER

	X	X	X	X	X	X	X	X	X	
										X

Relinquished by:

Mike Hart

Date Time

11/2/15 1:45

Received by:

[Signature]

Date Time

11-2-15 1:45

Chain of Custody Seals

☐ Yes ☐ No ☐ N/A  
☐ UPS ☐ FedEx  
☐ Bus ☒ Hand

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# Certificate of Analysis

Order No.:

**2015070204**

Page: 2 of 2

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If the RESULT is 'ND' (Not Detected) or 'Absent', that means the concentration is less than the PQL (Practical Quantitation Limit for this method).

Comments:



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Laboratory Supervisor, Digitally signed by: Walter Mueller Date: 07/30/15

## Accurate Testing Labs

E-mail: [mueller@accuratetesting.com](mailto:mueller@accuratetesting.com) | Internet: <http://www.accuratetesting.com>

[illegible]