



City of  
Coeur d'Alene  
IDAHO

2018 NPDES  
ANNUAL REPORT

January 01, 2018 to December 31, 2018  
Municipal Separate Storm Sewer System (MS4)  
Federal Storm Water

National Pollutant Discharge Elimination System Permit  
(IDS-028215)

Submitted To:

United States Environmental  
Protection Agency  
NPDES Compliance Unit  
1200 6<sup>th</sup> Avenue, Suite 900 (OCE-133)  
Seattle, Washington 98101

&

Idaho Department of Environmental Quality  
Coeur d'Alene Regional Office  
2110 Ironwood Parkway  
Coeur d'Alene, Idaho 83814

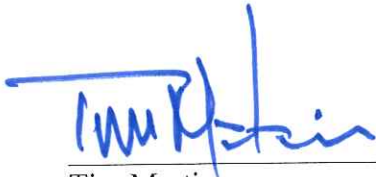
Submitted By:

City of Coeur d'Alene  
710 E. Mullan Avenue  
Coeur d'Alene, Idaho 83814

## Report Certification

### City of Coeur d'Alene NPDES Municipal Separate Storm Sewer System Annual Report for Permit Year 2018

"I certify under penalty of 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 for submitting false information, including the possibility of fine and imprisonment for knowing violations."



\_\_\_\_\_  
Tim Martin  
Streets / Engineering / Drainage Utility  
Superintendent

2.7.19

\_\_\_\_\_  
Date

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| Permit Part   | SWMP Activity Summary   |   |
|---|---|---|
| <b>General Requirements - Summary</b>                             |   |   |
| Part II.C   | Submit written description of how SWMP actions are targeted to control the discharge of pollutants of concern, and how permittee will evaluate the effectiveness of those actions   | One year from permit effective date, update annually thereafter |
| Part II.D and IV.C  | Conduct an annual review of SWMP implementation and submit an Annual Report to EPA and IDEQ   | February 15 of each year, beginning in 2010                     |
| Part IV.A   | Develop a Quality Assurance Plan for storm water discharge monitoring, provide written notice to EPA and IDEQ   | Within 270 days of permit effective date                        |
|   | Begin monitoring  | 18 months from permit effective date                            |
| <b>Public Education and Outreach (40 CFR §122.34(b)(1))</b>       |   | <b>Pages 1-7</b>  |
| Part II.B.1   | Implement an ongoing public education program to educate the community about the impacts of storm water discharges on local water bodies and the steps that citizens and businesses can take to reduce pollutants in storm water runoff. (II.B.1.a) | Two years from effective date of this permit                    |
|   | Distribute storm water educational materials to target audiences (II.B.1.b)   | At least once per year  |
|   | Distribute SWMP information to local media (II.B.c)   | At least once per year  |
| <b>Public Involvement and Participation (40CFR §122.34(b)(2))</b> |   | <b>Pages 8-10</b>   |
| Part II.B.2   | Post all SWMP documentation and Annual Reports on the permittee' s website (II.B.2.b)   | Two years from permit effective date, ongoing thereafter        |
|   | Organize and promote Adopt a Street and Litter Pick Up Day(s) (II.B.2.c)  | Once per year, each program                                     |
|   | Conduct public forum regarding SWMP activities (II.B.2.d)   | At least once annually  |
|   | Create, maintain, and promote a telephone hotline; track complaints (II.B.2.e)  | Within three years, ongoing thereafter                          |
|   | Organize and conduct a storm drain stenciling program.  | Within one year of the effective date of this permit            |
|   | At least 100 storm drains stenciled per year (II.B.2.f)   | Within two years of permit effective date, ongoing thereafter   |

| Illicit Discharge Detection and Elimination (40 CFR §122.34(b)(3)) |  | Pages 11-14  |
|--|--|--|
| Part II.B.3  | Development, implement and enforce a program to detect and eliminate illicit discharges into the MS4 (II.B.3.a)  | Two years from the permit effective date                     |
|  | Adopt an ordinance or other control measure to prohibit illicit discharges to the MS4(s); prohibit any specific non-storm water discharge, if necessary (II.B.3.b & c) | Two years from the permit effective date                     |
|  | Develop/update a comprehensive storm sewer system map (II.B.3.d)   | Two years from the permit effective date                     |
|  | Inform public employees, businesses and the general public of hazards associated with illegal discharges and improper disposal of waste (II.B.3.e)                     | Two years from the permit effective date                     |
|  | Screen 50% of outfalls for dry weather flows. (II.B.3.f)   | No later than permit expiration date                         |
|  | Inventory the industrial facilities discharging storm water within the Urbanized Area (II.B.3.g)   | Three years from the permit effective date                   |
| Construction Site Storm Water Runoff (40CFR §122.34(b)(4))         |  | Pages 15-19  |
| Part II.B.4  | Implement and enforce a construction site runoff control program for sites disturbing one or more acres of land; review and update the program as necessary (II.B.4.a) | Two years from the permit effective date, ongoing thereafter |
|  | Provide adequate direction to project proponents regarding the EPA Construction General Permit (II.B.4.b)  | Upon permit effective date                                   |
|  | Adopt an ordinance or other control measure to require construction site operators to practice erosion, sediment and waste control (II.B.4.c)                          | Two years from the permit effective date                     |
|  | Publish and distribute written requirements for construction site best management practices (II.B.4.d)   | Two years from the permit effective date                     |
|  | Develop, or review/update as necessary, procedures for reviewing pre-construction site plans & accepting public input and complaints (II.B.4.e & f)                    | Two years from the permit effective date                     |
|  | Implement site inspection & enforcement procedures. Inspect all construction sites at least once per construction season. (II.B.4.g)                                   | Two years from the permit effective date                     |
|  | Ensure all permittee-owned construction projects comply with EPA's Construction General Permit (II.B.4.h)  | Upon permit effective date                                   |
|  | Conduct at least one training for construction industry (II.B.4.i)   | Three years from the permit effective date                   |

| Post-Construction Storm Water Management<br>(40 CFR §122.34(b)(5)) |  | Pages 20-22   |
|--|--|---|
| Part II.B.5  | Develop and implement a program to address post-construction storm water runoff from new development and redevelopment projects (II.B.5.a)   | Three years from the permit effective date  |
|  | Adopt an ordinance to address post-construction runoff from new development and redevelopment projects (II.B.5.b)  | Three years from the permit effective date  |
|  | Ensure proper long term operation and maintenance of post construction storm water BMPs. (II.B.5.c)  | Three years from the permit effective date  |
|  | Develop and implement a site plan review process and site inspection program to ensure proper installation and long-term operation and maintenance of post-construction storm water management controls (II.B.5.d) | Four years from the permit effective date   |
| Pollution Prevention/Good Housekeeping<br>(40 CFR§122.34(b)(6))    |  | Pages 23-27   |
| Part II.B.6  | Develop and implement an operation and maintenance program intended to prevent or reduce pollutant runoff from municipal operations (II.B.6.a)   | Two years from the permit effective date  |
|  | Develop and conduct appropriate training for municipal personnel (II.B.6.b)  | Two years from the permit effective date, annually thereafter                           |
|  | Prepare storm water pollution prevention plans for the fleet maintenance/street department site and the water treatment plant (II.B.6.c)   | Two years from the permit effective date  |
| Monitoring Requirements & Results                                  |  | Pages 28-61   |
| Part IV.A.2  | Evaluate City's compliance with the identified BMP's and progress toward achieving the minimum control measures and document in each annual report   | Two years from the permit effective date  |
|  | Monitor the quality of storm water discharges from the MS4 / Conduct a storm water discharge monitoring program  | 18 months from the permit effective date  |
|  | Develop a quality assurance plan (QAPP) monitoring storm water discharge. Must be submitted for review to EPA and IDEQ   | Quality Assurance Project Plan, developed, reviewed, signed, submitted February 09,2010 |
|  |  |   |

## Summary

### Information for Reviewers

This 2018 City of Coeur d'Alene Urbanized Area NPDES MS4 Annual Report is presented in a text format. This text document comprises the majority of the report and discusses each of the required reporting elements for the permit. Copies of the Annual Report will be available through the City of Coeur d'Alene website at [www.cdavid.org](http://www.cdavid.org) or city hall.

The city annually evaluates the effectiveness of its SWMP activities to control the discharge of the pollutant(s) of concern.

### Introduction

Region 10 of the U.S. Environmental Protection Agency (EPA) issued a draft National Pollutant Discharge Elimination System (NPDES) permit to the City of Coeur d'Alene Urbanized Area Municipal Storm Sewer Systems (MS4) on February 29, 2008. Following review by the City of Coeur d'Alene and meetings with local Idaho Department of Environmental Quality (IDEQ) and Region 10 EPA staff, and a public hearing, a final permit became effective on January 1, 2009 and expiring on December 31, 2013. Pursuant to 40 C.F.R. 122.21(d), the City of Coeur d'Alene submitted a new permit application to EPA on May 30, 2013. We have on file a letter from EPA stating that our existing permit will remain effective and enforceable until EPA grants or denies our application for a new permit.

This report presents and documents the actions required by the permit and taken by the permittee for Year 10 reporting period (January 1, 2018 – December 31, 2018). Individual requirements of the permit are presented in the order of the permit outline. The report has been certified by the appropriate officials.

### Quality Assurance Project Plan for Coeur d'Alene Urbanized Area

Quality Assurance Project Plan - As required by Part IV.A of the permit, the City of Coeur d'Alene developed, reviewed, signed and submitted a Quality Assurance Project Plan (QAPP) on February 09, 2010 for the water quality monitoring requirements of the permit (Part IV). The QAPP is included with our 2009, 2010 annual reports and as a link on our website.

### Storm Water Management Program Review

The Coeur d'Alene Urbanized Area Storm Water Management Program (SWMP) review for the reporting year 2009 consists of developing a SWMP. The SWMP is designed to reduce the discharge of pollutants from the MS4 to the maximum extent practicable, and to protect water quality in receiving waters. The SWMP actions, updates and activities are outlined in the following pages of this 2018 Annual Report.

| Public Education and Outreach |  |  |
|-------------------------------|--|--|
| Part II.B.1                   | 1) Implement an ongoing public education program to educate the community about the impacts of storm water discharges on local water bodies and the steps that citizens and businesses can take to reduce pollutants in storm water runoff. (II.B.1.a) | Two years from effective date of this permit |
|                               | 2) Distribute storm water educational materials to target audiences (II.B.1.b)   | At least once per year                       |
|                               | 3) Distribute SWMP information to local media (II.B.c)   | At least once per year                       |

**1) Within two years of the effective date of this permit, the permittee must develop and implement a public education program to educate the community about the impacts of storm water discharges on local water bodies and the steps that citizens and businesses can take to reduce pollutants in storm water runoff.**

The following is a list of events and manners in which we distributed stormwater educational materials and information.

We have partnered with other local agencies to share educational materials and educational event opportunities.

City of Coeur d'Alene Website: Drainage Utility page contains stormwater information, projects and pollution prevention practices.

CDA TV Channel 19: The mission of CDA TV (Government/Public Education channel for the Greater Coeur d'Alene area) is to enhance the community's public information and communications system, involve the community in local government decision making, and provide useful local government/public education information to general and specialized audiences. The following were featured on our public channel in this permit year:

- EPA produced "Coeur d'Alene Basin: Partnering with Community for a Successful Cleanup" was aired in the month of January 2018.

April 22, 2018

Earth Day, Library Community Room: This annual event was well attended, approximately 200. A stormwater educational interactive display, stormwater plinko game and pollution prevention information was distributed.



May 16-17, 2018

Provided stormwater pollution prevention information at the annual Silverwood Science and Physics Days event. Approximately 1000 students from the region attended.





April 25-26, 2018

Provided stormwater information and pollution prevention demonstrations during the annual tour for Ramsey Elementary and Lake City High School students.

## Heads Up!

27-Apr-18

**From Mike Anderson: WW TOURS.** This week the Wastewater department had 210 students tour the Plant from Lake City High School and Ramsey Elementary. On Wednesday and Thursday, we combined our tour efforts with the University of Idaho, Kim Harrington from Stormwater and Tyson and Travis from Water to provide tours and education on the what, why and how the City provides water, receives and treats sewer water and how and where Stormwater flows. The University of Idaho tied in to these lessons and others that Ramsey Elementary had been working on with a lesson on Zooplankton and Macros.

We would like to recognize the efforts of our Treatment Plant Operator's and Lab Analyst for their time and expertise in showing these students through the Plant and Lab and explaining the process of treatment from start to finish. Thanks to Andy Williams, Michael Taylor, Andrew Ruiz, Mark Moore, Brandon Guzman and David Hauser for guiding the students and Torri Green for helping to orchestrate this educational event.

May 31 and June 01, 2018

Participated in the second annual Coeur d'Alene Water Festival.



Date: May 31st and June 1st

Location: McEuen Park 420 E Front Ave, Coeur d'Alene

The 2nd Annual Coeur d'Alene Water Festival is a multidisciplinary environmental education program for 5th Grade students from Borah, Bryan, Skyway, Fernan STEM Academy, and Winton Elementary schools. The Water Festival focuses on our most precious resource—water and the Coeur d'Alene Lake Watershed.

The Water Festival's components include an interactive in-class presentation by a natural resource professional that culminate with an outdoor field trip where students have the opportunity to touch, see, hear and creatively think about the dynamic world around them as they rotate through 5 different educational stations: Fisheries, Watershed, Water Quality, Animal Tracks and take a Nature Walk. The Coeur d'Alene Tribe will do a presentation and storytelling during lunch. After lunch students attend the "Birds of Prey" presentation by Idaho Department of Fish & Game Biologist, Beth Paragamian.



Coeur d'Alene Bible Church volunteers Grace Moehling and Clay Finney install pavers at the new amphitheater/outdoor classroom next to the Harbor Center and the Centennial Trail in Coeur d'Alene last Sunday. The new space will be used for education and recreation and is open for student and community use. More features will be added in the coming weeks and months.

## Mother Nature's classroom

Local church helps prepare learning space by Harbor Center

By DEVIN WEEKS  
Staff Writer

**COEUR D'ALENE** — A new outdoor classroom and amphitheater near Harbor Center is coming along, thanks to the helping hands of Coeur

d'Alene Bible Church.

About 20 volunteers from the church joined University of Idaho Extension area water educator Jim Ekins to clear land, locate space and install pavers during the church's annual Serve CDA service day last Sunday.

"We follow it from the Bible to do good work and to help," said Coeur d'Alene Bible Church member and Serve

CDA project lead Spencer Dahl. "It's to show that you can be helpful and do God's work and help out the community at the same time."

The amphitheater/outdoor classroom, located adjacent to the Spokane River and accessible from the Centennial Trail, has been in the works for a few years and was under construction earlier this year. It's now a

reality because of the efforts of Ekins, grant funding from the National Fish and Wildlife Foundation and support from the city of Coeur d'Alene.

Ekins said the land is technically known as a "rain garden" because of a depression in the ground that accepts, absorbs and filters storm water.

See OUTDOOR, C10

Idaho

The Press



Volunteers from Coeur d'Alene Bible Church assist University of Idaho Extension area water educator Jim Ekins (orange shirt) with setting pavers and clearing land at the new amphitheater/outdoor classroom near Harbor Center in Coeur d'Alene during a volunteer service day Sunday, Aug. 26.

## OUTDOOR

from C1

"There's really nothing like it in Coeur d'Alene," Ekins said. "There's no outdoor amphitheater where we can get 100 kids together to do some sort of outdoor learning."

The space, which serves as a storm water pollution treatment area as well as a place for experiential learning, has already had some visitors. Ekins said

elementary students from Ramsey and Hayden Meadows have taken trips to the area for hands-on education.

"They do a field day at Harbor Center and the wastewater treatment plant because it's right there," Ekins said.

The area is now open for community and student use, but features to come include a shade area with a living roof, a larger stage and cultural elements such as interpretive signs and Coeur d'Alene Tribal

history panels. The project was one of many that about 150 Coeur d'Alene Bible Church volunteers worked on throughout the community for Serve CDA.

"We had quite a lot of groups that went off to different sections and did quite a bit of work throughout the community. It was a blast," Dahl said. "It's all about giving."

Ekins said it has been quite the process to create the volunteer-driven, grant-funded

outdoor classroom/amphitheater, but it's something the community has needed.

"This is for the community. It's not mine. It's the city's. It's there for people to use," he said. "If I'm not teaching there, if you want to have lunch, bicycling along the Centennial Trail and you want to take a break, you're welcome to use it."

Harbor Center is located at 1031 N. Academic Way in Coeur d'Alene.

During this permit year we have continued to partner with the University of Idaho in the development of an outdoor classroom that will provide a venue for presentations on pollution prevention and best management practices in relation to stormwater discharge.

**2) At least once per year, the permittee must distribute appropriate storm water educational materials to the target audiences.**

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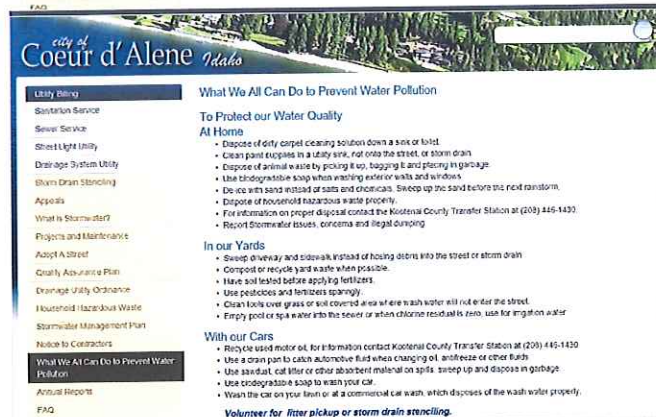
The City of Coeur d'Alene Engineering Department worked together with Panhandle Storm Water Erosion and Sediment Control Education Program (SEEP) to produce a field guide which includes storm water education materials. The guide is available to contractors and the public in our customer service center at city hall. CGP handouts are also distributed in our customer service center. A basic best management practices for construction sites was developed and made available in our customer service center and is distributed in the field to on-site construction crews during this permit year.

Several volunteer groups that participated in storm drain stenciling distributed pollution prevention information in the neighborhoods where they were stenciling.

Pollution prevention information and materials are distributed at all of our educational events and are also provided to other agencies and groups for distribution.

**3) At least once per year, the permittee will prepare and distribute appropriate information relevant to the SWMP to the local newspaper and at least one other media outlet.**

The City of Coeur d'Alene stormwater program and events are featured on our website and facebook page.



## Investigating North Idaho's watershed

Students present Confluence Project work at Youth Water Summit

By DEVIN WEEKS Staff Writer

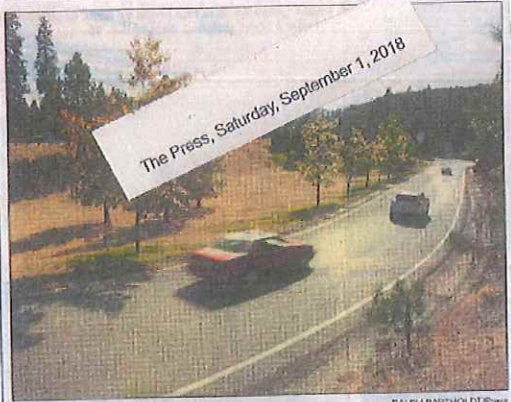
**COEUR D'ALENE** — The death of a family pet motivated a team of Lake City High School students to scientifically investigate what happened. "The other girl in our group, her dog actually died from pythiosis last year, so we thought we'd look more into it," said Lake City High School sophomore Katie Fleming. "By their garbage cans they had a lot of buildup of water and the dog drank from it." Katie stood by her team's exhibit Tuesday during the Youth Water Summit in North Idaho

College's Edminster Student Union Building. The display featured interesting facts about her team's research as well as samples of water that pets shouldn't drink. She explained that pythiosis is a disease caused by the pathogen *pythium insidiosum*, found in stagnant water and sometimes soil. Pythiosis, which is more common in warmer climates, can be deadly to dogs and make larger creatures sick or cause lesions to the skin. "There are diseases out there that we're not sure about, but also, they're very hard to cure," Katie said. "This one's hard to detect, and by the time you detect it, it's hard to save the animal."



Timberlake High School student Logan Jones shows Amy Evans how stream flow can affect Spirit Lake, as well as the process of returning Brickle Creek's natural curvature with the process of de-channelization. Jones and more than 350 area high school students chose local watershed issues to research. Their projects and findings were judged by administrators, professors, local water resource professionals and others at the Youth Water Summit at North Idaho College Tuesday.

See WATER, C3



The Press, Saturday, September 1, 2018

RALPH BARTHOLDT/Press

Traffic exiting U.S. 95 to Northwest Boulevard passes along a large, grass field the city is considering using to collect stormwater.

# Unused swale could help water quality

By RALPH BARTHOLDT  
Staff Writer

## COEUR d'ALENE

— A grassy chunk of undeveloped property near U.S. 95 and Northwest Boulevard in Coeur d'Alene could turn into a collection point for stormwater otherwise headed to the Spokane River.

The City Council will decide.

City engineer Chris Bosley this week pitched the proposal to the public works committee to install a pipe that would move stormwater from a series of neighborhoods

around Kootenai Health and seep it into a grassy swale about the size of a football field instead of dumping it into the river.

The swale would be built in a pocket of grass enclosed by the sweeping exit to northbound Northwest Boulevard from U.S. 95.

"Before we can construct that swale we need to do some modeling to see how much capacity we need, how much is flowing in there and all of that," Bosley said. "That whole area all drains to this point."

The goal, Bosley said, is to prevent that stormwater from hitting the river.

"Our ultimate goal is to take the outfall completely offline," Bosley said. "In the end we will be making a big improvement toward cleaner water."

If engineers find too much water would potentially flow to the swale, the project could simply reduce the amount of stormwater that gets dumped into the swale, as well as the Spokane River upstream of the U.S. 95 bridge.

See SWALE, C4

## SWALE

from C1

The proposal came to the forefront recently because of next year's state project to rebuild U.S. 95 from Northwest Boulevard to west Lacrosse Avenue.

That project, funded and overseen by the Idaho Transportation Department, seeks to eliminate a dogleg in the highway where U.S. 95 makes a 90-degree turn at Walnut and Lincoln avenues as it bores into the city.

Highway department plans include replacing

the sharp corner with a sweeping curve, and while the road is being moved, the city and state both want to rework the stormwater system there.

The city would have to get its work done first, Bosley said.

"They want us to be out of the way rather

than couple it with their project," he said.

Placing the pipe would likely be done at night to prevent traffic problems.

City Council members Woody McEvers, Kiki Miller and Dan English gave the proposal a green light, so it will be sent to the full council for approval.



LOREN BENOIT/Press

This grassy field at the entrance to Northwest Boulevard from U.S. 95 could turn into a collection point for stormwater that would reduce the amount of city stormwater that is dumped into the Spokane River.

| Public Involvement and Participation |   |   |
|--------------------------------------|---|---|
| Part II.B.2                          | 1) Post all SWMP documentation and Annual Reports on the permittee's website (II.B.2.b) | Two years from permit effective date, ongoing thereafter      |
|                                      | 2) Organize and promote Adopt a Street and Litter Pick Up Day(s) (II.B.2.c)             | Once per year, each program                                   |
|                                      | 3) Conduct public forum regarding SWMP activities (II.B.2.d)                            | At least once annually  |
|                                      | 4) Create, maintain, and promote a telephone hotline; track complaints (II.B.2.e)       | Within three years, ongoing thereafter                        |
|                                      | 5) Organize and conduct a storm drain stenciling program.                               | Within one year of the effective date of this permit          |
|                                      | At least 100 storm drains stenciled per year (II.B.2.f)                                 | Within two years of permit effective date, ongoing thereafter |

**1) The permittee must make all relevant SWMP documents and all Annual Reports required by this permit available to the public. Within two years of the effective date of this permit, all SWMP document and Annual Reports must be posted online through its regularly maintained website (or a website sponsored by the permittee).**

The 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017 & 2018 Annual Reports, Storm Water Management Program and Quality Assurance Protection Plan are posted on the City of Coeur d'Alene website and are available for review at the City of Coeur d'Alene Streets & Engineering Department.

**2) At least once per year, the permittee must organize and promote citizen participation in each of its Adopt a Street and Annual Litter Pick-up programs.**

The Adopt-A-Street program was authorized by the City Council in August of 2000. The program is a partnership, which includes an adopting group, family, or individual. They pick up the trash, and the City provides signage, vests, and orange litter bags, and also collects the bags the next working day after they have been filled. A quarterly pick up of trash is encouraged with a minimum being twice per year. There are currently 31 Adopt-A-Street volunteer groups. During this permit year, approximately 9 tons of trash was removed from our MS4 by our volunteers. Information for this program is available on the city website "volunteer" tab and on the City of Coeur d'Alene street department web page.

**3) At least once per year, the permittee must conduct a public open house or other forum to solicit input from the public on the permittee's implementation of the SWMP activities.**

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The City of Coeur d'Alene partners with several agencies in presenting stormwater management information and pollution prevention information at all of our educational outreach events. We utilized our plinko game, enviroscape model and a best management display to demonstrate how vegetation helps to filter stormwater. Our SWMP is available for review at these events.

The City of Coeur d Alene website offers visitors to the site the opportunity to contact the city in reference to drainage issues, questions or concerns.

**4) Within three years of the permit effective date, the permittee will create, maintain, and promote a "hotline" telephone number to receive, track, and respond as necessary to information submitted by the public regarding storm water pollution concerns.**

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A hotline was established for reporting spills, illegal dumping or for stormwater questions and concerns. In addition to the hot line the city has an on line reporting tool on our website. The hot line phone number is posted on the city's website and on our educational materials. During the permit year we received 2 hot line calls, 4 e mails from citizens, 2 emails from DEQ, 2 emails from Kootenai Environmental Alliance through our city web site and 3 reports from employees.

5) The permittee must organize promote and conduct a storm drain stenciling program. Within two years of the effective date of this permit, at least 100 storm drains, catch basins or inlets throughout the permittee's jurisdiction must be stenciled per year.

Our 2018 goal of 100 was exceeded thanks to our volunteers. Volunteer groups from Coeur d'Alene Bible Church and Kootenai Environmental Alliance have stenciled or applied metal markers to our storm drains during this permit year. In addition to the stenciling they distributed door hangers in residential areas, providing stormwater education and pollution prevention tips. The volunteer groups also picked up trash in the neighborhoods they were stenciling. The program is promoted at outreach events and on the city's web site under the "volunteer" tab.





| Illicit Discharge Detection and Elimination |   |  |
|---|---|--|
| Part II.B.3                                 | 1) Development, implement and enforce a program to detect and eliminate illicit discharges into the MS4 (II.B.3.a)  | Two years from the permit effective date   |
|   | 2) Adopt an ordinance or other control measure to prohibit illicit discharges to the MS4(s); prohibit any specific non-storm water discharge, if necessary (II.B.3.b & c) | Two years from the permit effective date   |
|   | 3) Develop/update a comprehensive storm sewer system map (II.B.3.d)   | Two years from the permit effective date   |
|   | 4) Inform public employees, businesses and the general public of hazards associated with illegal discharges and improper disposal of waste (II.B.3.e)                     | Two years from the permit effective date   |
|   | 5) Screen 50% of outfalls for dry weather flows. (II.B.3.f)   | No later than permit expiration date       |
|   | 6) Inventory the industrial facilities discharging storm water within the Urbanized Area (II.B.3.g)   | Three years from the permit effective date |

**1) Within two years from the effective date of this permit, the permittee must develop and implement a program to detect and eliminate illicit discharges into their MS4, including roadways and associated drainage facilities, ditches, pipes, culverts, catch basins and retention ponds in its jurisdiction. This program must include written spill response procedures to ensure protection of the permittee's MS4. The program must include written procedures for detention, identification of the source, and removal of non-storm water discharges from the MS4. This program must also address illegal dumping into the MS4, and include training for City staff on how to respond to reports of illicit discharges. The permittee must develop an information management database system to track the activities and actions of the program in concert with the hotline required in Part II.B.2.**

Our illicit discharge detection and elimination program outline was submitted with 2010 annual report. Municipal employees have received training in the recognition of and response to illicit discharges.

Spill prevention and containment refreshers are included as part of the annual training for staff members from Fire, Building, Parks, Police, Water, Wastewater, Recreation and Streets & Engineering Departments.

Information on reported illicit discharges and action taken is kept in our City Track database and with our code enforcement department. The city has developed a written standard operating procedure for prioritizing illicit discharges and stormwater complaints and concerns. City staff has been directed to code entries into our "city track" database reporting system as "high" priority. Our system will notify designated staff and the appropriate priority ranking of the call

will be assigned. This approach enables all city staff to take the calls and appropriate staff to rank the priority.

*High Priority (Immediate action is required)*

- Spills / Accidents
- Intentional Dumping
- Leaking automotive fluids
- Public Health and Safety Issues

*Medium Priority (3-5 day response)*

- Cross connection between a sanitary sewer and a storm sewer
- Failing septic system that is causing surface discharge into the storm sewer
- Sanitary waste piping that is directly connected from a home or business to the storm sewer
- Shop floor drain that is connected directly to a storm sewer

*Low Priority (5-10 day response)*

- Slow draining catch basin\*
- Slow draining or plugged grassed infiltration area\*

*\*if flooding is occurring on street or private property that is a safety concern or threat to property damage, upgrade priority to high*

Video of our storm lines are utilized in the identification of lateral intrusions.

**2-1) Within two years from the effective date of this permit, the permittee must effectively prohibit non-storm water discharges into the MS4 through an ordinance or other regulatory mechanism to the extent allowable under State or local law. The permittee must implement appropriate enforcement procedures and actions, including a written policy of enforcement escalation procedures for recalcitrant or repeat offenders.**

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Ordinance 3455 amending the municipal code of the City of Coeur d'Alene, Kootenai County, Idaho adopting a new chapter 13.32, Entitled Illicit Discharge and Stormwater Sewer Connection, to provide for regulation of all water directly or indirectly entering the city stormwater system, including definitions, discharge regulation, monitoring and reporting requirements, prohibiting illicit connections and providing that any violation of the chapter is a misdemeanor punishable by a fine of not more than \$1,000.00 or by imprisonment not to exceed 180 days or both.

**2-2) Through the ordinance or other regularly mechanism set forth in Section II.B.3.b, the permittee must prohibit any of the non-stormwater flows listed in Part I.C.1.c only if such flows are identified (by EPA or the permittee) as a source of pollutants to the MS4. The permittee must document to EPA in the Annual Report any existing local controls or conditions placed on the types of non-storm water discharges in Part I.C.1.c.**

The City of Coeur d'Alene, Ordinance 3455, prohibits all non-storm water discharges to the MS4 with the exception of discharges detailed in our NPDES permit Part I.C.1.c.

**3) Within two years from the effective date of this permit, the permittee must update and complete its comprehensive MS4 map. At a minimum, the map(2) must show jurisdictional boundaries, the location of all City-owned or operated storm sewers, culverts, ditches, and other conveyances, the location of all inlets and outfalls, points at which the permittee's MS4 is interconnected with other MS4s, names and locations of all waters that receive discharges from those outfalls, and locations of all municipally-owned or operated facilities, including all maintenance/storage facilities and public or private snow disposal sites. Locations of all outfalls must also be provided in latitude and longitude, and the diameter of all outfalls must be provided with the map. The maps must be available in electronic or digital format as appropriate. A copy of the completed map(s), as both a report and as an electronic file via Arc GIS format, must be submitted to EPA and IDEQ as part of the corresponding Annual Report.**

The City of Coeur d'Alene MS4 map was updated and submitted with the 2017 annual report.

**4) Within two years from the effective date of this permit, the permittee must begin an ongoing education program to inform users of the MS4, especially public employees, businesses, and the general public, of hazards associated with illegal discharges and improper disposal of waste. This program must be conducted in concert with the public education requirements outlined in Part II.B.1.**

The City of Coeur d'Alene utilizes our public television station and the City of Coeur d'Alene website to present stormwater pollution prevention and awareness during each permit year.

Municipal storm water pollution prevention training, which includes spill containment and illicit discharge detection are covered annually by the following departments: Streets & Engineering, Building, Engineering, Police, Fire, Water, Wastewater, and Parks Department staff.

Pollution prevention materials are distributed during all of our outreach events.

Information on illicit discharge and proper disposal of hazardous waste is distributed at our educational events and on our website. We have a link on our website to the Kootenai County Solid Waste Department for hazardous waste disposal information.

**5) Within three years from the effective date of this permit, the permittee must begin dry weather field screening for non-storm water flows from all storm water outfalls. By the expiration date of the permit, at least 50% of the permittee's outfalls within the Coeur d'Alene Urbanized Area must be screened for dry weather flows. The screening should include field tests of selected parameters as indicators of discharge sources. Screening level tests may utilize less expensive "field test kits" using test methods not approved by EPA under 40 CFR Part 136, provided the manufacturer's published detention ranges are adequate for the illicit discharge detention purposes. The permittee must investigate any illicit discharge within fifteen (15) days of its detection, and must take action to eliminate the source of the discharge within 45 days of its detention.**

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August & September 2018, Dry weather field screenings were conducted on all of our outfalls. There were no indications of any illicit discharges were discovered during the screenings. Our video system is also used in illicit discharge detection and investigation.

**6) Within three years from the effective date of this permit, the permittee must inventory all industrial facilities that discharge directly to the permittee's MS4 or directly to waters of the United States located within the Coeur d'Alene Urbanized Area and submit this inventory as part of the corresponding Annual Report. The types of industrial facilities that must be inventoried are set forth in 40 CFR §122.26(b)(14)(i-ix) and (xi). This inventory must include the location of the facility, the location of its outfall, and the NPDES permit status for its storm water discharges.**

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This requirement was met in the 2011 permit year. There was only one business identified that met the criteria of this permitting requirement; Deming Industries located at 2945 N. Government Way in Coeur d'Alene, Outfall#11.

The research for this program requirement utilized information from our wastewater department, Panhandle Health, Kootenai Environmental Alliance, City of Coeur d Alene building permit data and EPA's NOI site. No additional industrial facilities were identified in 2018.

| Construction Site Storm Water Runoff |   |  |
|--------------------------------------|---|--|
| Part II.B.4                          | 1) Implement and enforce a construction site runoff control program for sites disturbing one or more acres of land; review and update the program as necessary (II.B.4.a) | Two years from the permit effective date, ongoing thereafter |
|                                      | 2) Provide adequate direction to project proponents regarding the EPA Construction General Permit (II.B.4.b)  | Upon permit effective date                                   |
|                                      | 3) Adopt an ordinance or other control measure to require construction site operators to practice erosion, sediment and waste control (II.B.4.c)                          | Two years from the permit effective date                     |
|                                      | 4) Publish and distribute written requirements for construction site best management practices (II.B.4.d)   | Two years from the permit effective date                     |
|                                      | 5) Develop, or review/update as necessary, procedures for reviewing pre-construction site plans & accepting public input and complaints (II.B.4.e & f)                    | Two years from the permit effective date                     |
|                                      | 6) Implement site inspection & enforcement procedures. Inspect all construction sites at least once per construction season. (II.B.4.g)                                   | Two years from the permit effective date                     |
|                                      | 7) Ensure all permittee-owned construction projects comply with EPA's Construction General Permit (II-B.4.h)  | Upon permit effective date                                   |
|                                      | 8) Conduct at least one training for construction industry (II.B.4.i)   | Three years from the permit effective date                   |

**1) Within two years from the effective date of this permit, the permittee must implement and enforce a program to reduce pollutants in any storm water runoff to the MS4 from construction activities resulting in land disturbance of greater than or equal to one acre. This program must also include controls for pollutants in such storm water discharges from activity disturbing less than one acre, if that construction activity is part of a larger common plan of development or sale that disturbs one acre or more.**

Ordinance 3455, adopted December 04, 2012 amending the municipal code of the City of Coeur d'Alene,,Kootenai County,,Idaho,,Amending Sections 13.30.010,13.30.020,13.30.040,13.30.050,13.30.606 and adopting a new section 13.30.075 to the Stormwater Management Ordinance to provide additional definitions, adopting additional standards for erosion, sediment and construction waste control and providing for inspections;

repealing all ordinances and parts of ordinances in conflict herewith and providing a severability clause. Complete ordinance is available on the City of Coeur d'Alene website.

**2) The permittee must provide appropriate information and direction to representatives of proposed new development and redevelopment construction projects concerning the NPDES General Permit for Storm Water Discharges for Construction Activity in Idaho, #IDR 10-0000 (Construction General Permit).**

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The "Notice to Contractors" is located on our City of Coeur d'Alene website, is posted in the customer service center at city hall and has been electronically distributed to the North Idaho Building Contractors Association. The information is also included in all project reviews packets. The notice is include with the 2009 and 2010 annual reports and is available on our website. Also, available in our customer service center is an E.P.A produced brochure; "Does Your Construction Site Need A Stormwater Permit."

Engineering project reviews include notification to the applicant of this requirement.

**3) Within two years from the effective date of this permit, the permittee must adopt an ordinance or other regulatory mechanism to the extent allowable under state or local law that requires all construction site operators to practice appropriate erosion, sediment and waste control. This ordinance or regulatory mechanism must include sanctions to ensure compliance. The permittee may evaluate any existing procedures, policies, and authorities pertaining to activities occurring on their property that may be used to assist in the development of the required regulatory mechanism.**

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Ordinance No. 3455, Municipal Code 13.30.010-13.30.130 addresses this permit requirement. The complete ordinance was submitted with our 2012 annual report and is available on our website.

**4) Within two years from the effective date of this permit, the permittee must publish and distribute requirements for construction site operators to implement appropriate erosion and sediment control BMPs and to control waste (such as discarded building materials, concrete truck washout, chemicals, litter and sanitary waste at a construction site) that may cause adverse impacts to water quality.**

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October 05, 2010 The City of Coeur d'Alene Resolution No. 10-038 adopting the Idaho Department of Environmental Quality Best Management Practices as the city's BMP's. The information was presented at public works, city council meeting, North Idaho Building

Contractors Association and mailed to builders, contractors, landscaper and architects. The information is also on our website and posted in the customer service center, provided at project reviews and distributed during inspection.

**5-1) Within two years from the effective date of this permit, the permittee must develop procedures for reviewing all pre-construction site plans for potential water quality impacts, including erosion and sediment control, control of other wastes, and any other impacts according to the requirements of the law, ordinance, or other enforceable mechanism created to comply with Part II.B.4.c. These procedures must include provisions for receipt and consideration of information submitted by the public.**

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Ordinance 3455, 13.30.040 states that storm water management plans are required for all land disturbing building permits and provides for exceptions. The plans are reviewed and approved as a condition of issuance of the permits. All required erosion and sediment controls will be included on the stormwater management plans and reviewed and approved by City engineer or his designee. In addition, these plans will be made available to the public for input. Inspection of construction sites will be performed at least once per construction season and after a rain event to ensure placement and proper functioning of required erosion control elements. During the 2018 construction season sites were inspected prior to site disturbance, after a storm event and before the issuance of a certificate of occupancy.

**5-2) Within two years from the effective date of this permit, the permittee must implement a program to receive, track, and review information submitted by the public regarding construction site erosion and sediment control complaints.**

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The City of Coeur d'Alene Drainage System Utility established a stormwater hotline and an on-line communication link. The hotline number is included in our educational handouts, on our website, included in our municipal training and has been included in several newspaper articles. The reporting and tracking program includes an on line reporting form and database to track and save information. If a complaint is called in or given in person, the staff member taking the information will enter it into our "City Track" system for appropriate action and documentation. One mud tracking call was received from the public in the 2018 construction season.

**6) Within three years from the effective date of this permit, the permittee must develop and implement procedures for site inspection and enforcement of control measures established as required in Parts II.B.4.c and d, including a written policy of enforcement escalation procedures for recalcitrant or repeat offenders. The permittee must inspect all construction sites in their jurisdiction for appropriate erosion/sediment/waste control practices as least once per construction season.**

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Stormwater Management, Ordinance 3455, Municipal Code 13.30.080, Inspections

Prior to site inspection, plans are reviewed to confirm stormwater management plan requirements. During on-site inspection, all bmp's are evaluated to ensure proper installation and functionality.

Any bmp's that are found to be incorrectly installed or missing will be noted and a correction notice given to the person in charge at the site. If no one is available on site, a correction notice will be left and a call will be placed to the permit applicant. The correction notice will state the amount of time allowed for permittee to comply. An additional inspection will be made to ensure corrections have been addressed. If compliance is not achieved a stop work order is issued.

During this permit year, 936 erosion/sediment and waste control inspection were completed. Of those inspections 73 correction notices were issued. All construction sites in the city are inspected a minimum of three times; prior to site disturbance, after a rain event and on final inspection before the issuance of a certificate of occupancy.

**7) The permittee must comply with the Construction General Permit and all relevant local requirements for erosion, sediment and onsite materials control on public construction projects. The permittee must ensure that all contractors working on behalf of the permittee are complying with the Construction General Permit and all relevant local requirements for erosion, sediment, and onsite materials control on construction projects. The permittee must incorporate specific language in all contracts ensuring appropriate storm water management on all public construction projects.**

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It is the City of Coeur d'Alene policy that all projects disturbing over 1 acre of ground must obtain an NPDES general permit and comply with the permits requirements for erosion, sediment and on site materials control. Additionally, it is the City's policy that all projects disturbing any ground must implement and be inspected for erosion, sediment control and material handling and storage BMP's. This requirement is included in the approved plans for projects.



8) Within three years from the effective date of this permit, the permittee must develop and conduct at least one training session for the local construction/design/engineering audience related to the construction ordinance and BMP requirements referenced in Parts II.B.4.c and d.

The city has hosted three development forums which provided best management practices and requirements for construction sites. At the events we also provided an EPA produced educational handout, "How Do I Get Stormwater Permit Coverage for My Construction Site," available in our customer service center.

The following trainings were hosted by the City of Coeur d'Alene in 2018.



**Stormwater System Design Training & Hydraulic Erosion Control**

Learn about new products and best practice solutions that improve design quality, save time & money, and keep your sites compliant

Join us for a presentation of innovative design and construction approaches to address increasing requirements for Low Impact Development. We will cover system design, maintenance costs, and life cycle benefits of these LD systems and products. Case studies will also be presented on hydraulically applied mulch products to control erosion, improve soil health, and increase germination.

**Wednesday March 21, 2018 from 11:00am - 1:00pm**  
Lunch Provided

**Location:** The City of Coeur d'Alene  
710 E. Mullan Avenue  
Coeur d'Alene, ID 83814

**RSVP:** Jen Lee jen.lee@acfwest.com  
253-922-6641

Presentations by: **TANK**, **FAVE**, **Profile**

Continuing education credits will be awarded.

**ACF WEST INC. GEOSYNTHETICS**  
Products | Service | Solutions



**March 21, 2018**  
**STORMWATER SYSTEM DESIGN TRAINING**

Join us for a presentation of some of the most innovative products in the marketplace, to address increasing requirements for Low Impact Development solutions. We will cover design, maintenance costs and life cycle benefits of these new approaches. We have assembled a "dream team" of geosynthetic professionals to share their product knowledge and jobsite experience with you. Continuing education credits will be awarded.

Lunch and training will begin at 11a at The City of Coeur d'Alene at: 710 E. Mullan Ave, Coeur d'Alene, ID 83814

**New Products Include:**  
Profile Product – Erosion Control  
R Tank – Stormwater Systems  
PaveDrain – Stormwater's Arch Enemy



Learn How to Save Your Client's Money by Using the Newest Innovative Products

Earn Continuing Education Credits

Covering Project Installation and Design

Bringing ACF West's Legendary Service to the Civil Engineering and Landscape Architect Community

**ACF WEST, INC.**  
2505 Frank Albert Rd  
Fife, WA 98454  
253-922-6641  
Please RSVP to Jen Lee  
jen.lee@acfwest.com  
www.ACFWest.com

Tues. March 21, 2018  
11:00 PM – 1:00 PM  
Lunch Provided

| Post-Construction Storm Water Management in New Development and Redevelopment |   |  |
|---|---|--|
| Part II.B.5   | 1) Develop and implement a program to address post-construction storm water runoff from new development and redevelopment projects (II.B.5.a)   | Three years from the permit effective date |
|   | 2) Adopt an ordinance to address post-construction runoff from new development and redevelopment projects (II.B.5.b)  | Three years from the permit effective date |
|   | 3) Ensure proper long term operation and maintenance of post construction storm water BMPs. (II.B.5.c)  | Three years from the permit effective date |
|   | 4) Develop and implement a site plan review process and site inspection program to ensure proper installation and long-term operation and maintenance of post-construction storm water management controls (II.B.5.d) | Four years from the permit effective date  |

**1) Within three years from the effective date of this permit, the permittee must implement and enforce a program to address post-construction storm water runoff from new development and redevelopment projects that disturb greater than or equal to one acre (including projects less than one acre that are part of a larger common plan of development or sale) and that result in discharge into the permittee's MS4. The program must ensure that controls are enacted that will prevent or minimize water quality impacts from newly developed or redeveloped areas.**

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Ordinance 3455, Municipal Code 13.32.010-13.32.140 addresses all items listed in this required action. The complete ordinance was included with the 2012 annual report and is available on our website.

**2) Within three years from the effective date of this permit, the permittee must adopt an ordinance or other regulatory mechanism to the extent allowable under State or local law to address post-construction runoff from new development and redevelopment projects. If such requirements do not currently exist, development and adoption of an ordinance is required. The permittee may evaluate existing procedures, policies, and authorities pertaining to activities occurring on their property that may be used to assist in the development of the required regulatory mechanism.**

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Ordinance 3455, Municipal Code 13.32.010-13.32.140 addresses all items listed in this required action. The complete ordinance was included with the 2012 annual report and is available on our website.

**3) Within three years from the effective date of this permit, the permittee must ensure proper long term operation and maintenance of all permanent storm water management controls located within its jurisdiction.**

As part of the City's storm water facilities and conveyances maintenance plan, inspections are performed annually. The results are used to plan the appropriate measures necessary to ensure proper long term operation. The city utilizes green alternatives when able to manage and maintain stormwater swales and detention areas. Street sweeping, line jetting and catch basin debris removal are on-going best management practices.



**Video of Storm Lines: 24000 feet**

**Catch Basins Cleaned: 2425**

**Street Sweeping: Approximately 5500 miles**

**Amount of debris removed from sweeping and catch basin cleaning: Approximately 2300 tons**

**Swale Inlet Maintenance: 1240 scuppers along arterials and in residential areas**

**Underdrain conveyance cleaning: 300**

**4) Within four years from the effective date of this permit, the permittee must develop and implement a process for pre-construction plan review of permanent storm water management controls and inspection of such controls to ensure proper installation and appropriate long-term operation and maintenance.**

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The City of Coeur d'Alene has utilized a pre-construction plan review process since the early 1980's. In relation to stormwater management controls and inspections, the following is our procedure:

- A stormwater management plan is required with the plan submission.
- The City engineering staff reviews the submission for bmp's and permanent stormwater management controls, with final approval by the City Engineer.
- Site Inspections are performed prior to permit issuance and prior to certificate of occupancy.
- The applicant is required to submit a percolation test and a letter signed by the design professional stating that the swales were constructed in accordance with their recommendations.

| Pollution Prevention and Good Housekeeping for Municipal Operations |   |   |
|---|---|---|
| Part II.B.6   | 1) Develop and implement an operation and maintenance program intended to prevent or reduce pollutant runoff from municipal operations (II.B.6.a) | Two years from the permit effective date                      |
|   | 2) Develop and conduct appropriate training for municipal personnel (II.B.6.b)  | Two years from the permit effective date, annually thereafter |
|   | 3) Prepare storm water pollution prevention plans for the fleet maintenance/street department site and the water treatment plant (II.B.6.c)       | Two years from the permit effective date                      |

**1) Within two years from the effective date of this permit, the permittee must develop and implement an operation and maintenance program intended to prevent or reduce pollutant runoff from municipal operations. This program must address municipal activities occurring within the permittee's jurisdiction with potential for negative storm water related water quality impacts, including: the use of sand and road deicers; fleet maintenance and vehicle washing operations; street cleaning and maintenance; grounds/park and open space maintenance operations; building maintenance, solid waste transfer activities; water treatment plant operations; storm water system maintenance; and snow disposal site operation and maintenance. Examples of other municipal activities which may also be evaluated as relevant to the jurisdiction include, but are not limited to: materials storage; hazardous materials storage; used oil recycling; spill control and prevention measures for municipal refueling facilities; municipal golf course maintenance; municipal new construction and land disturbances; and snow removal practices.**

During this permit year the City of Coeur d'Alene has utilized an evolving guide for the operations and activities of our departments with the potential for negative storm water quality impacts. Our focus is to identify and evaluate our existing best management practices in our municipal operations and activities to determine areas for improvement.

Each department within the City has operations and maintenance procedures that are designed and evaluated to ensure we are implementing BMP's in relation to our municipal operations. There are 25 city employees that hold a Stormwater & Erosion Educational Program certification. Individual departments within the City have operations and maintenance procedures that are designed and evaluated to ensure we are implementing BMP's in relation to municipal operations.

## Existing Best Management Practices for Pollution Prevention

### **Water Department:**

Employees have received training in storm water basics, pollution prevention, spill prevention and response, illicit discharge detection and reporting

Supervisor performs storm water pollution potential evaluation on site prior to commencement of operations, repair or maintenance projects

Appropriate BMP's are utilized in to water line construction, repair and maintenance activities

Spill Kits in vehicles

### **Streets & Engineering Department:**

Annual training has been conducted for street department personnel related to optimal maintenance practices for the protection of water quality. One of the integral parts of street maintenance involves sweeping of debris before the deposits can enter the storm system. The street department delivers an aggressive street sweeping program to improve air and water quality

City wide leaf pick up: Approximately 1700 tons of leaves were removed from city streets in this permit year

The city currently establishes snow dumpsites within its corporate boundary. These sites are established based on needed volume of storage for specific areas of the city and to minimize possible snowmelt discharges directly to the waters of the U.S. Ideally these sites encourage ground infiltration of storm water and filtering across established vegetation during gradual spring snowmelt

BMP's applied to construction and repair projects

Spill Kits in vehicles

Annual training includes storm water basics, pollution prevention, spill prevention and response, illicit discharge detection and reporting

Thirteen department employees have completed a SEEP training class (Storm water Erosion Education Program)

Partners with Urban Forestry in the tree trimming program, for enhanced sweeping clearance

Vehicle wash water discharges to sanitary sewer. Drain is equipped with an oil water separator that is cleaned annually

The City of Coeur d'Alene uses both road deicers and sand sparingly with the focus on safety to the community. Deicers are used on arterial streets where volumes of traffic help carry the product. This allows use to be kept to a minimal amount. Temperatures above 18 degrees are optimum.

Sand is used only when roads become glazed with ice. Normally this will occur in residential side streets and that time we treat only major stops coming onto arterials; hills and tight corners. CSB is utilized to enhance salt brine de-icer, which results in less salt used on roadways

We make and store our own deicer; the site has a secondary containment feature. We have only one storage site and it is here at the corporate shop at 3800 Ramsey Road. This site is monitored by the Idaho Panhandle Health District

#### Fleet Maintenance and Car Washing

The shop includes a vehicle maintenance washing facility. All vehicles brought to this site including patrol vehicles are cleaned after servicing. This bay is goes in to the wastewater pipe that is cleared through the treatment plant. The steam cleaner site is drained into an oil/ water sump that is cleaned yearly by a disposal company

#### **Parks Department:**

The City of Coeur d'Alene has received recognition as a Walk Friendly Community which could result in a reduction of automobile traffic

The Parks department fertilizes the turf with half of the recommended rate and applied 6 times in the season instead of the 3 applications as was done in the past. The idea was to control the growth rate of the grass and not waste fertilizer that may have been leached out due to rain or irrigation

Promotion and organization of Community Bike to Work Week  
Park staff participate in earth friendly events and provide free tree seedlings

Employee training in storm water basics, pollution prevention, spill prevention and response, illicit discharge detection and reporting

9 Employees have a Professional Applicators License issued by the Idaho Department of Agriculture to handle and apply pesticides and herbicides

Soil sampling before fertilizer application

Water Conservation Irrigation Systems

Installation of Pet Waste Dispensers; there are a total of 20 within the city

Trash pick-up along all City managed bike paths and hiking trails year round (except when snow is on the ground). Trash is picked up 3 times a week in the summer, two times a week in the colder seasons, and once a week in the winter

Public trees planted in 2018: 565 trees and 80 seedlings (within the right of way or in parks)

The Parks Department provides support for tree health and pruning educational programs

All trails are mowed and tree limbs trimmed up regularly in the spring, winter, and fall. The Parks Department promotes an educational program to encourage increased use of the trail system

Parks / Cemetery Shop were issued a Critical Materials Compliance Certificate from Panhandle Health Districts Aquifer Protection Program

### **Waste Water Department**

Employee training in storm water basics, pollution prevention, spill prevention and response, illicit discharge detection and reporting

All on-site storm water is processed with the sanitary sewer before discharge

Treatment Plant operates under NPDES permit ID-002285-3

Treatment Plant has a Critical Materials Compliance Certificate, issued by Panhandle Health Districts Aquifer Protection Program

### **Fire Department**

The Coeur d'Alene Fire Department provides Hazardous Material responses at the Operations Level. At this level of training, all firefighters are trained to recognize a potential Haz-Mat incident, isolation of the incident, identify exposures, identify safety hazards to the public & responders, determine possible evacuations, take a defensive approach by possibly shutting off the source and protecting drains without coming in contact with the material or product.

- Initial Operations Level Training consists of 40 hours of Hazardous Materials Training and 8 hours of annual continuing education for all personnel
- Annual Storm Water education (DVD based) provided by the City of Coeur d'Alene

#### **Response Materials**

- The CDA Fire Department stocks a ready supply of 3 ½" (10") absorbent tubing for the use of diking and containment booms on the water
- A ready supply on responding units of absorbent pads (16"x16".)
- 5 gallons of absorbent for fluid hazards
- Emergency response guide book in all response apparatus

#### **Additional Resources**

- State of Idaho Hazardous Materials Team is located at Kootenai County Fire & Rescue, which is based within the City of Coeur d'Alene. They provide Technician, Specialist & Incident Commander level services. They are activated through Boise State Communications if and when our Chief Officers determine the spill level to exceed our capabilities



**2) Within two years from the effective date of this permit and annually thereafter, the permittee must develop and conduct appropriate training for municipal employees related to optimum maintenance practices for protection of water quality. This training must be conducted at least once annually and address the activities specified in Part II.B.6.a.**

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Individual departments address best management practices in relation to their job tasks as a standing topic in their staff meetings. Appropriate city staff receives annual refresher courses on spill control & containment and illicit discharge detection. Streets and Engineering staff continually utilize the EPA website for training in relation to the permit components. Staff has attended presentations from EPA representatives on the Construction General Permit requirements.

During this permit year training that addresses pollution prevention, spill prevention and illicit discharge detection was presented to field project management, streets & engineering department staff and inspectors. Three employees have received an MS4 Compliance & Enforcement Inspector Certification. Appropriate staff has received SEEP (stormwater erosion education program) certifications.

**3) Within two years from the effective date of this permit, the permittee must prepare and implement storm water pollution prevention plans for the permittee's fleet maintenance/street department site and waste water treatment plant.**

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The Street / Fleet Maintenance Department are not located on or near the storm water conveyance system. Although not located near the conveyance system, our street department has developed best management practices in relation to pollution prevention. Routine maintenance and vehicle washing on site is performed indoors and any discharge from these activities goes to the sanitary sewer. Secondary containment and covered storage is implemented where necessary. The street department is inspected by the Panhandle Health District Aquifer Protection Program and was issued a Critical Materials Compliance Certificate.

The City's Waste Water Treatment Plant captures all on-site storm water and processes it as it does sanitary sewer. The plant operates under their own NPDES permit number ID-002285-3, which was effective December 01, 2014 and expires November 30, 2019. The plant is also inspected by the Panhandle Health District Aquifer Protection Program and was issued a Critical Materials Compliance Certificate.

| Monitoring Requirements |  |   |
|-------------------------|--|---|
| Part IV.A.2             | Evaluate City's compliance with the identified BMP's and progress toward achieving the minimum control measures and document in each annual report | Two years from the permit effective date  |
|                         | Monitor the quality of storm water discharges from the MS4 / Conduct a storm water discharge monitoring program                                    | 18 months from the permit effective date  |
|                         | Develop a quality assurance plan (QAPP) monitoring storm water discharge. Must be submitted for review to EPA and IDEQ                             | Quality Assurance Project Plan, developed, reviewed, signed, submitted February 09,2010 |

**1) Within 1 year from the effective date of this permit, the permittee must develop a monitoring plan that includes the quality assurance requirements defined in Part IV.A.6. The permittee must develop and implement a monitoring program to:**

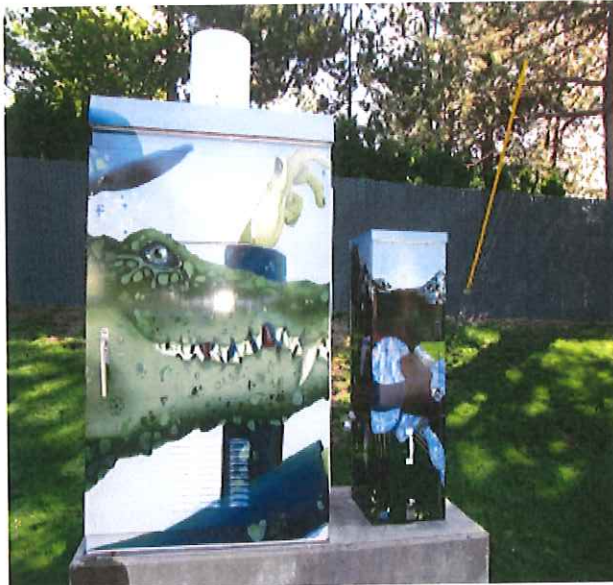
- a) **estimate the pollutant loading currently discharged from the MS4**
- b) **assess the effectiveness and adequacy of control measures implemented through this permit; and**
- c) **identify and prioritize those portions of the MS4 requiring additional controls**

During this permit year eight samples were collected, four from each of our monitoring stations. Additional sampling years are needed to assess the effectiveness and adequacy of the control measures implemented in the permit. Additional data collection / evaluation and guidance from EPA are necessary to determine the need for additional control actions and to determine the priority of actions. We have increased sweeping, performed leaf pick up and litter control in hard pipe areas.

2) No later than 18 months from the effective date of this permit, the permittee must conduct a storm water discharge monitoring program which meet the following minimum requirements:

- a) the permittee must sample at least one storm water outfall discharging to the Spokane River, and at least one storm water outfall discharging to Lake Coeur d'Alene, each representing the largest or highest flow discharges from the MS4
- b) the permittee must monitor the storm water discharges for the pollutants as identified in Table IV.A.

The City began our program with the installation of two automatic monitoring stations. Station 1, discharges to Lake Coeur d Alene and Station 2, discharges to the Spokane River. During this permit year four samples were collected from each station. The lab results from those samples are on the following pages.



19<sup>th</sup> Street Monitoring Station  
Discharges to Coeur d'Alene Lake



Bellerive Monitoring Station  
Discharges to Spokane River



One Government Gulch - PO Box 929  
 Kellogg, ID 83837-0929  
 (208) 784-1258  
[www.svl.net](http://www.svl.net)

|  |   |
|--|---|
| City of Coeur d'Alene<br>710 E. Mullan Ave.<br>Coeur d'Alene, ID 83814 | Project Name: Stormwater Monitoring<br>Work Order: XSD0097<br>Reported: 23-Apr-18 10:38 |
|--|---|

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID             | Laboratory ID | Matrix | Date Sampled    | Sampled By | Date Received | Notes |
|-----------------------|---------------|--------|-----------------|------------|---------------|-------|
| Station 1 (19th St)   | X8D0097-01    | Other  | 05-Apr-18 08:06 | KH         | 05-Apr-2018   |       |
| Station 2 (Bellerive) | X8D0097-02    | Other  | 05-Apr-18 08:42 | KH         | 05-Apr-2018   |       |

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.  
 Sample preparation is defined by the client as per their Data Quality Objectives.  
 This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.  
 Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.  
 The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.



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City of Coeur d'Alene  
710 E. Mallan Ave.  
Coeur d'Alene, ID 83814

Project Name: Stormwater Monitoring  
Work Order: X8D0097  
Reported: 23-Apr-18 10:38

Client Sample ID: Station 1 (19th St)  
SVL Sample ID: X8D0097-01 (Other)

Sampled: 05-Apr-18 08:06  
Received: 05-Apr-18  
Sampled By: KH

Sample Report Page 1 of 1

| Method  | Analyte                          | Result   | Units | RL     | MDL    | Dilution | Batch   | Analyst | Analyzed       | Notes |
|---|----------------------------------|----------|-------|--------|--------|----------|---------|---------|----------------|-------|
| <b>Metals (Total Recoverable--reportable as Total per 40 CFR 136)</b> |                                  |          |       |        |        |          |         |         |                |       |
| EPA 200.7   | Calcium                          | 7.38     | mg/L  | 0.100  | 0.035  |          | X815028 | AS      | 04/18/18 11:04 |       |
| EPA 200.7   | Lead                             | < 0.0075 | mg/L  | 0.0075 | 0.0025 |          | X815028 | AS      | 04/18/18 11:04 |       |
| EPA 200.7   | Magnesium                        | 1.49     | mg/L  | 0.50   | 0.16   |          | X815028 | AS      | 04/18/18 11:04 |       |
| EPA 200.7   | Zinc                             | 0.060    | mg/L  | 0.010  | 0.003  |          | X815028 | AS      | 04/18/18 11:04 |       |
| SM 2340B  | Hardness (as CaCO <sub>3</sub> ) | 24.6     | mg/L  | 2.31   | 0.745  |          | N/A     |         | 04/18/18 11:04 |       |
| <b>Classical Chemistry Parameters</b>                                 |                                  |          |       |        |        |          |         |         |                |       |
| ASTM D-5176   | Total Nitrogen                   | 0.64     | mg/L  | 0.50   | 0.12   |          | X815137 | SM      | 04/20/18 18:57 |       |
| SM 2540 D   | Total Susp. Solids               | 48.0     | mg/L  | 5.0    |        |          | X815018 | RS      | 04/09/18 11:30 |       |
| SM 4500-P-E   | Phosphorus                       | 0.131    | mg/L  | 0.010  | 0.003  |          | X815153 | SM      | 04/11/18 14:43 |       |

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

*Dianne Gardner*  
Dianne Gardner  
Project Manager



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|  |   |
|--|---|
| City of Coeur d'Alene<br>710 E. Millan Ave.<br>Coeur d'Alene, ID 83814 | Project Name: Stormwater Monitoring<br>Work Order: X8D0097<br>Reported: 23-Apr-18 10:38 |
|--|---|

Client Sample ID: **Station 2 (Bellerive)**  
 SVL Sample ID: X8D0097-02 (Other)

Sample Report Page 1 of 1

Sampled: 05-Apr-18 08:42  
 Received: 05-Apr-18  
 Sampled By: KH

| Method  | Analyte                          | Result | Units | RL     | MDL    | Dilution | Batch   | Analyst | Analyzed       | Notes |
|---|----------------------------------|--------|-------|--------|--------|----------|---------|---------|----------------|-------|
| <b>Metals (Total Recoverable--reportable as Total per 40 CFR 136)</b> |                                  |        |       |        |        |          |         |         |                |       |
| EPA 200.7   | Calcium                          | 11.5   | mg/L  | 0.100  | 0.035  |          | X815028 | AS      | 04/18/18 11:07 |       |
| EPA 200.7   | Lead                             | 0.0171 | mg/L  | 0.0075 | 0.0025 |          | X815028 | AS      | 04/18/18 11:07 |       |
| EPA 200.7   | Magnesium                        | 6.16   | mg/L  | 0.50   | 0.16   |          | X815028 | AS      | 04/18/18 11:07 |       |
| EPA 200.7   | Zinc                             | 0.301  | mg/L  | 0.010  | 0.003  |          | X815028 | AS      | 04/18/18 11:07 |       |
| SM 2340B  | Hardness (as CaCO <sub>3</sub> ) | 54.1   | mg/L  | 2.31   | 0.745  |          | N/A     |         | 04/18/18 11:07 |       |
| <b>Classical Chemistry Parameters</b>                                 |                                  |        |       |        |        |          |         |         |                |       |
| ASTM D-5176   | Total Nitrogen                   | 0.71   | mg/L  | 0.50   | 0.12   |          | X815137 | SM      | 04/20/18 19:07 |       |
| SM 2540 D   | Total Susp. Solids               | 423    | mg/L  | 5.0    |        |          | X815018 | RS      | 04/09/18 11:30 |       |
| SM 4500-P-E   | Phosphorus                       | 0.352  | mg/L  | 0.010  | 0.003  |          | X815153 | SM      | 04/11/18 14:43 |       |

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

*Dianne Gardner*  
 Dianne Gardner  
 Project Manager



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|  |   |
|--|---|
| City of Coeur d'Alene<br>710 E. Mallon Ave.<br>Coeur d'Alene, ID 83814 | Project Name: Stormwater Monitoring<br>Work Order: X8D0697<br>Reported: 23-Apr-18 10:38 |
|--|---|

| Quality Control - BLANK Data   |                    |       |         |        |        |          |           |       |  |
|--|--------------------|-------|---------|--------|--------|----------|-----------|-------|--|
| Method   | Analyte            | Units | Result  | MDL    | MRL    | Batch ID | Analyzed  | Notes |  |
| <b>Metals (Total Recoverable—reportable as Total per 40 CFR 136)</b> |                    |       |         |        |        |          |           |       |  |
| EPA 200.7  | Calcium            | mg/L  | <0.100  | 0.033  | 0.000  | X815028  | 18-Ago-18 |       |  |
| EPA 200.7  | Lead               | mg/L  | <0.0075 | 0.0025 | 0.0075 | X815028  | 18-Ago-18 |       |  |
| EPA 200.7  | Magnesium          | mg/L  | <0.38   | 0.16   | 0.50   | X815028  | 18-Ago-18 |       |  |
| EPA 200.7  | Zinc               | mg/L  | <0.010  | 0.003  | 0.000  | X815028  | 18-Ago-18 |       |  |
| <b>Classical Chemistry Parameters</b>                                |                    |       |         |        |        |          |           |       |  |
| ASTM D-5176  | Total Nitrogen     | mg/L  | <0.50   | 0.12   | 0.50   | X815137  | 20-Ago-18 |       |  |
| SM 1540 D  | Total Susp. Solids | mg/L  | <5.0    |        | 5.0    | X815018  | 08-Ago-18 |       |  |
| SM 4500-P-E  | Phosphorus         | mg/L  | <0.010  | 0.003  | 0.000  | X815133  | 11-Ago-18 |       |  |

| Quality Control - LABORATORY CONTROL SAMPLE DATA                     |                |       |            |          |        |                   |          |           |       |
|--|----------------|-------|------------|----------|--------|-------------------|----------|-----------|-------|
| Method   | Analyte        | Units | LCS Result | LCS True | % Rec. | Acceptance Limits | Batch ID | Analyzed  | Notes |
| <b>Metals (Total Recoverable—reportable as Total per 40 CFR 136)</b> |                |       |            |          |        |                   |          |           |       |
| EPA 200.7  | Calcium        | mg/L  | 20.4       | 20.0     | 102    | 85 - 115          | X815028  | 18-Ago-18 |       |
| EPA 200.7  | Lead           | mg/L  | 1.03       | 1.00     | 103    | 85 - 115          | X815028  | 18-Ago-18 |       |
| EPA 200.7  | Magnesium      | mg/L  | 20.9       | 20.0     | 104    | 85 - 115          | X815028  | 18-Ago-18 |       |
| EPA 200.7  | Zinc           | mg/L  | 1.03       | 1.00     | 103    | 85 - 115          | X815028  | 18-Ago-18 |       |
| <b>Classical Chemistry Parameters</b>                                |                |       |            |          |        |                   |          |           |       |
| ASTM D-5176  | Total Nitrogen | mg/L  | 9.55       | 10.0     | 95.5   | 80 - 120          | X815137  | 20-Ago-18 |       |
| SM 4500-P-E  | Phosphorus     | mg/L  | 0.800      | 0.774    | 104    | 90 - 110          | X815133  | 11-Ago-18 |       |

| Quality Control - DUPLICATE DATA      |                    |       |                  |               |     |           |          |           |       |
|---------------------------------------|--------------------|-------|------------------|---------------|-----|-----------|----------|-----------|-------|
| Method                                | Analyte            | Units | Duplicate Result | Sample Result | RPD | RPD Limit | Batch ID | Analyzed  | Notes |
| <b>Classical Chemistry Parameters</b> |                    |       |                  |               |     |           |          |           |       |
| SM 1540 D                             | Total Susp. Solids | mg/L  | 48.0             | 48.0          | 0.0 | 10        | X815018  | 08-Ago-18 |       |
| SM 1540 D                             | Total Susp. Solids | mg/L  | 7.0              | 7.0           | 0.0 | 10        | X815018  | 08-Ago-18 |       |

| Quality Control - MATRIX SPIKE DATA                                  |                |       |              |                   |                 |            |                   |          |           |       |
|--|----------------|-------|--------------|-------------------|-----------------|------------|-------------------|----------|-----------|-------|
| Method   | Analyte        | Units | Spike Result | Sample Result (R) | Spike Level (S) | % Recovery | Acceptance Limits | Batch ID | Analyzed  | Notes |
| <b>Metals (Total Recoverable—reportable as Total per 40 CFR 136)</b> |                |       |              |                   |                 |            |                   |          |           |       |
| EPA 200.7  | Calcium        | mg/L  | 581          | 552               | 20.0            | 0.308-5    | 70 - 130          | X815028  | 18-Ago-18 | D2.M3 |
| EPA 200.7  | Lead           | mg/L  | 1.01         | <0.0075           | 1.00            | 100        | 70 - 130          | X815028  | 18-Ago-18 |       |
| EPA 200.7  | Magnesium      | mg/L  | 37.0         | 37.2              | 20.0            | 99.0       | 70 - 130          | X815028  | 18-Ago-18 |       |
| EPA 200.7  | Zinc           | mg/L  | 1.24         | 0.208             | 1.00            | 103        | 70 - 130          | X815028  | 18-Ago-18 |       |
| <b>Classical Chemistry Parameters</b>                                |                |       |              |                   |                 |            |                   |          |           |       |
| ASTM D-5176  | Total Nitrogen | mg/L  | 1.63         | 0.62              | 5.00            | 100        | 80 - 120          | X815137  | 20-Ago-18 |       |
| SM 4500-P-E  | Phosphorus     | mg/L  | 0.641        | 0.131             | 0.500           | 102        | 75 - 125          | X815133  | 11-Ago-18 |       |

SVL holds the following certifications:  
 AZ:0538, CA:2080, ID:ID00018 & ID00965 (Microbiology), NV:ID000192007A, UT(TN):ID000192015-1, WA:0573

Work order Report Page 4 of 5



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|  |   |
|--|---|
| City of Coeur d'Alene<br>710 E. Mallam Ave.<br>Coeur d'Alene, ID 83804 | Project Name: Stormwater Monitoring<br>Work Order: X8D0097<br>Reported: 23-Apr-18 10:58 |
|--|---|

| Quality Control - MATRIX SPIKE DUPLICATE Data                        |                |       |            |              |             |         |     |           |          |           |       |
|--|----------------|-------|------------|--------------|-------------|---------|-----|-----------|----------|-----------|-------|
| Method   | Analyte        | Units | MSD Result | Spike Result | Spike Level | % Rec.  | RPD | RPD Limit | Batch ID | Analysed  | Notes |
| <b>Metals (Total Recoverable—reportable as Total per 40 CFR 136)</b> |                |       |            |              |             |         |     |           |          |           |       |
| EPA 200.7  | Calcium        | mg/L  | 565        | 581          | 20.0        | 0.30R-S | 3.2 | 20        | X815028  | 18-Apr-18 | DLMB  |
| EPA 200.7  | Lead           | mg/L  | 0.987      | 1.01         | 1.00        | 98.2    | 2.2 | 20        | X815028  | 18-Apr-18 |       |
| EPA 200.7  | Magnesium      | mg/L  | 56.7       | 57.8         | 20.0        | 97.3    | 0.6 | 20        | X815028  | 18-Apr-18 |       |
| EPA 200.7  | Zinc           | mg/L  | 1.20       | 1.24         | 1.00        | 100     | 2.6 | 20        | X815028  | 18-Apr-18 |       |
| <b>Classical Chemistry Parameters</b>                                |                |       |            |              |             |         |     |           |          |           |       |
| ASTM D-5076  | Total Nitrogen | mg/L  | 1.41       | 1.63         | 1.00        | 95.8    | 4.1 | 20        | X815157  | 20-Apr-18 |       |
| SM 4100-P-E  | Phosphorus     | mg/L  | 0.620      | 0.641        | 0.500       | 99.7    | 1.5 | 20        | X815153  | 11-Apr-18 |       |

**Notes and Definitions:**

- DC Sample required dilution due to high concentration of target analyte.
- M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
- LCS Laboratory Control Sample (Blank Spike)
- RPD Relative Percent Difference
- UDL A result is less than the detection limit
- 0.30R-S % recovery not applicable; spike level is less than 30% of the sample concentration
- <RL A result is less than the reporting limit
- MRL Method Reporting Limit
- MDL Method Detection Limit
- N/A Not Applicable



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|                 |                               |                      |              |
|-----------------|-------------------------------|----------------------|--------------|
| <b>Client:</b>  | COEUR D'ALENE WASTEWATER DEPT | <b>Batch #:</b>      | 180410033    |
| <b>Address:</b> | 710 MULLAN- CITY HALL         | <b>Project Name:</b> | SVL #X8D0097 |
|                 | COEUR D'ALENE, ID 83814       |                      |              |
| <b>Attn:</b>    | KIM HARRINGTON                |                      |              |

## Analytical Results Report

|                         |                     |                        |            |                           |                    |
|-------------------------|---------------------|------------------------|------------|---------------------------|--------------------|
| <b>Sample Number</b>    | 180410033-001       | <b>Sampling Date</b>   | 4/5/2018   | <b>Date/Time Received</b> | 4/10/2018 12:00 PM |
| <b>Client Sample ID</b> | STATION 1 (19TH ST) | <b>Sampling Time</b>   | 8:06 AM    | <b>Extraction Date</b>    | 4/10/2018          |
| <b>Matrix</b>           | Water               | <b>Sample Location</b> | X8D0097-01 |                           |                    |
| <b>Comments</b>         |                     |                        |            |                           |                    |

| Parameter               | Result | Units | PQL | Analysis Date | Analyst | Method   | Qualifier |
|-------------------------|--------|-------|-----|---------------|---------|----------|-----------|
| Aroclor 1016 (PCB-1016) | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |
| Aroclor 1221 (PCB-1221) | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |
| Aroclor 1232 (PCB-1232) | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |
| Aroclor 1242 (PCB-1242) | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |
| Aroclor 1248 (PCB-1248) | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |
| Aroclor 1254 (PCB-1254) | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |
| Aroclor 1260 (PCB-1260) | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |
| PCB (total)             | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |

### Surrogate Data

|                           |               |                         |          |
|---------------------------|---------------|-------------------------|----------|
| <b>Sample Number</b>      | 180410033-001 | <b>Method</b>           | EPA 8082 |
| <b>Surrogate Standard</b> | DCB           | <b>Percent Recovery</b> | 94.0     |
|                           |               | <b>Control Limits</b>   | 30-130   |

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**Client:** COEUR D'ALENE WASTEWATER DEPT      **Batch #:** 180410033  
**Address:** 710 MULLAN- CITY HALL      **Project Name:** SVL #X8D0097  
 COEUR D'ALENE, ID 83814  
**Attn:** KIM HARRINGTON

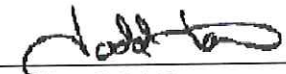
## Analytical Results Report

|                         |                       |                        |            |                           |                    |
|-------------------------|-----------------------|------------------------|------------|---------------------------|--------------------|
| <b>Sample Number</b>    | 180410033-002         | <b>Sampling Date</b>   | 4/5/2018   | <b>Date/Time Received</b> | 4/10/2018 12:00 PM |
| <b>Client Sample ID</b> | STATION 2 (BELLERIVE) | <b>Sampling Time</b>   | 8:42 AM    | <b>Extraction Date</b>    | 4/10/2018          |
| <b>Matrix</b>           | Water                 | <b>Sample Location</b> | X8D0097-02 |                           |                    |
| <b>Comments</b>         |                       |                        |            |                           |                    |

| Parameter               | Result | Units | PQL | Analysis Date | Analyst | Method   | Qualifier |
|-------------------------|--------|-------|-----|---------------|---------|----------|-----------|
| Aroclor 1016 (PCB-1016) | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |
| Aroclor 1221 (PCB-1221) | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |
| Aroclor 1232 (PCB-1232) | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |
| Aroclor 1242 (PCB-1242) | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |
| Aroclor 1248 (PCB-1248) | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |
| Aroclor 1254 (PCB-1254) | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |
| Aroclor 1260 (PCB-1260) | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |
| PCB (total)             | ND     | ug/L  | 2   | 4/16/2018     | MAH     | EPA 8082 |           |

## Surrogate Data

|                           |               |               |                  |                       |
|---------------------------|---------------|---------------|------------------|-----------------------|
| <b>Sample Number</b>      | 180410033-002 | <b>Method</b> | Percent Recovery | <b>Control Limits</b> |
| <b>Surrogate Standard</b> |               | EPA 8082      | 79.0             | 30-130                |
| DCB                       |               |               |                  |                       |

Authorized Signature \_\_\_\_\_  
  
 Todd Taruscio, Lab Manager

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|                 |  |                      |              |
|-----------------|--|----------------------|--------------|
| <b>Client:</b>  | COEUR D'ALENE WASTEWATER DEPT                    | <b>Batch #:</b>      | 180410033    |
| <b>Address:</b> | 710 MULLAN- CITY HALL<br>COEUR D'ALENE, ID 83814 | <b>Project Name:</b> | SVL #X8D0097 |
| <b>Attn:</b>    | KIM HARRINGTON                                   |                      |              |

## Analytical Results Report Quality Control Data

### Lab Control Sample

| Parameter   | LCS Result | Units | LCS Spike | %Rec  | AR %Rec | Prep Date | Analysis Date |
|-------------|------------|-------|-----------|-------|---------|-----------|---------------|
| PCB (total) | 11.0       | ug/L  | 10        | 110.0 | 30-130  | 4/10/2018 | 4/15/2018     |

### Lab Control Sample Duplicate

| Parameter   | LCSD Result | Units | LCSD Spike | %Rec  | %RPD | AR %RPD | Prep Date | Analysis Date |
|-------------|-------------|-------|------------|-------|------|---------|-----------|---------------|
| PCB (total) | 10.9        | ug/L  | 10         | 109.0 | 0.9  | 0-50    | 4/10/2018 | 4/15/2018     |

### Method Blank

| Parameter               | Result | Units | PQL | Prep Date | Analysis Date |
|-------------------------|--------|-------|-----|-----------|---------------|
| Aroclor 1016 (PCB-1016) | ND     | ug/L  | 0.2 | 4/10/2018 | 4/15/2018     |
| Aroclor 1221 (PCB-1221) | ND     | ug/L  | 0.2 | 4/10/2018 | 4/15/2018     |
| Aroclor 1232 (PCB-1232) | ND     | ug/L  | 0.2 | 4/10/2018 | 4/15/2018     |
| Aroclor 1242 (PCB-1242) | ND     | ug/L  | 0.2 | 4/10/2018 | 4/15/2018     |
| Aroclor 1248 (PCB-1248) | ND     | ug/L  | 0.2 | 4/10/2018 | 4/15/2018     |
| Aroclor 1254 (PCB-1254) | ND     | ug/L  | 0.2 | 4/10/2018 | 4/15/2018     |
| Aroclor 1260 (PCB-1260) | ND     | ug/L  | 0.2 | 4/10/2018 | 4/15/2018     |
| PCB (total)             | ND     | ug/L  | 0.2 | 4/10/2018 | 4/15/2018     |



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City of Coeur d'Alene  
710 E. Mullan Ave.  
Coeur d'Alene, ID 83814

Project Name: Stormwater Monitoring  
Work Order: X8F0020  
Reported: 20-Jun-18 12:56

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID             | Laboratory ID | Matrix | Date Sampled    | Sampled By | Date Received | Notes |
|-----------------------|---------------|--------|-----------------|------------|---------------|-------|
| Station 1 (19th St)   | X8F0020-01    | Other  | 01-Jun-18 09:55 | KH         | 01-Jun-2018   |       |
| Station 2 (Bellefice) | X8F0020-02    | Other  | 01-Jun-18 09:33 | KH         | 01-Jun-2018   |       |

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.



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City of Coeur d'Alene  
710 E. Mallan Ave.  
Coeur d'Alene, ID 83814

Project Name: Stormwater Monitoring  
Work Order: X8F0020  
Reported: 20-Jun-18 12:56

Client Sample ID: Station 1 (19th St)

SVL Sample ID: X8F0020-01 (Other)

Sampled: 01-Jun-18 09:55

Received: 01-Jun-18

Sampled By: KH

Sample Report Page 1 of 1

| Method  | Analyte             | Result   | Units | RL     | MDL    | Dilution | Batch   | Analyst | Analyzed       | Notes |
|---|---------------------|----------|-------|--------|--------|----------|---------|---------|----------------|-------|
| <b>Metals (Total Recoverable--reportable as Total per 40 CFR 136)</b> |                     |          |       |        |        |          |         |         |                |       |
| EPA 200.7   | Calcium             | 14.7     | mg/L  | 0.100  | 0.055  |          | X823072 | AS      | 06/17/18 09:30 |       |
| EPA 200.7   | Lead                | < 0.0075 | mg/L  | 0.0075 | 0.0025 |          | X823072 | AS      | 06/17/18 09:30 |       |
| EPA 200.7   | Magnesium           | 2.80     | mg/L  | 0.50   | 0.16   |          | X823072 | AS      | 06/17/18 09:30 |       |
| EPA 200.7   | Zinc                | 0.095    | mg/L  | 0.010  | 0.003  |          | X823072 | AS      | 06/17/18 09:30 |       |
| SM 2540 B   | Hardness (as CaCO3) | 48.3     | mg/L  | 2.31   | 0.745  |          | N/A     |         | 06/17/18 09:30 |       |
| <b>Classical Chemistry Parameters</b>                                 |                     |          |       |        |        |          |         |         |                |       |
| ASTM D-5176   | Total Nitrogen      | 2.13     | mg/L  | 0.50   | 0.12   |          | X824261 | SM      | 06/14/18 16:12 |       |
| SM 2540 D   | Total Susp. Solids  | 31.0     | mg/L  | 5.0    |        |          | X823086 | JDS     | 06/05/18 10:40 |       |
| SM 4500-P-E   | Phosphorus          | 0.553    | mg/L  | 0.040  | 0.013  | 4        | X825217 | SM      | 06/07/18 16:28 | D2    |

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

*Dianne Gardner*

Dianne Gardner  
Project Manager



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City of Coeur d'Alene  
710 E. Millan Ave.  
Coeur d'Alene, ID 83814

Project Name: Stormwater Monitoring  
Work Order: X8F0020  
Reported: 20-Jun-18 12:56

Client Sample ID: Station 2 (Bellerive)

SVL Sample ID: X8F0020-02 (Other)

Sample Report Page 1 of 1

Sampled: 01-Jun-18 09:33

Received: 01-Jun-18

Sampled By: KH

| Method  | Analyte             | Result  | Units | RL     | MDL    | Dilution | Batch   | Analyst | Analyzed       | Notes |
|---|---------------------|---------|-------|--------|--------|----------|---------|---------|----------------|-------|
| <b>Metals (Total Recoverable--reportable as Total per 40 CFR 136)</b> |                     |         |       |        |        |          |         |         |                |       |
| EPA 200.7   | Calcium             | 18.5    | mg/L  | 0.100  | 0.035  |          | X825072 | AS      | 06/17/18 09:33 |       |
| EPA 200.7   | Lead                | <0.0075 | mg/L  | 0.0075 | 0.0025 |          | X825072 | AS      | 06/17/18 09:33 |       |
| EPA 200.7   | Magnesium           | 4.95    | mg/L  | 0.50   | 0.16   |          | X825072 | AS      | 06/17/18 09:33 |       |
| EPA 200.7   | Zinc                | 0.148   | mg/L  | 0.010  | 0.003  |          | X825072 | AS      | 06/17/18 09:33 |       |
| SM 2540 B   | Hardness (as CaCO3) | 66.5    | mg/L  | 2.31   | 0.745  |          | N/A     |         | 06/17/18 09:33 |       |
| <b>Classical Chemistry Parameters</b>                                 |                     |         |       |        |        |          |         |         |                |       |
| ASTM D-5176   | Total Nitrogen      | 3.66    | mg/L  | 0.50   | 0.12   |          | X824261 | SM      | 06/14/18 16:23 |       |
| SM 2540 D   | Total Susp. Solids  | 11.0    | mg/L  | 5.0    |        |          | X825086 | JDS     | 06/05/18 10:40 |       |
| SM 4500-P-E   | Phosphorus          | 0.218   | mg/L  | 0.010  | 0.003  |          | X823217 | SM      | 06/07/18 16:28 |       |

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

*Dianne Gardner*

Dianne Gardner  
Project Manager



|  |   |
|--|---|
| City of Coeur d'Alene<br>710 E. Millen Ave.<br>Coeur d'Alene, ID 83814 | Project Name: Stormwater Monitoring<br>Work Order: XSF0020<br>Reported: 20-Jun-18 12:56 |
|--|---|

**Quality Control - BLANK Data**

| Method | Analyte | Units | Result | MDL | MRL | Batch ID | Analyzed | Notes |
|--------|---------|-------|--------|-----|-----|----------|----------|-------|
|--------|---------|-------|--------|-----|-----|----------|----------|-------|

**Metals (Total Recoverable--reportable as Total per 40 CFR 136)**

|           |           |      |         |        |        |         |           |  |
|-----------|-----------|------|---------|--------|--------|---------|-----------|--|
| EPA 200.7 | Calcium   | mg/L | <0.100  | 0.055  | 0.100  | XB13072 | 17-Jun-18 |  |
| EPA 200.7 | Lead      | mg/L | <0.0075 | 0.0025 | 0.0075 | XB13072 | 17-Jun-18 |  |
| EPA 200.7 | Magnesium | mg/L | <0.50   | 0.16   | 0.50   | XB13072 | 17-Jun-18 |  |
| EPA 200.7 | Zinc      | mg/L | <0.000  | 0.003  | 0.010  | XB13072 | 17-Jun-18 |  |

**Classical Chemistry Parameters**

|             |                    |      |        |       |       |         |           |  |
|-------------|--------------------|------|--------|-------|-------|---------|-----------|--|
| ASTMD-5176  | Total Nitrogen     | mg/L | <0.50  | 0.12  | 0.50  | XB14261 | 14-Jun-18 |  |
| SM 2540 D   | Total Susp. Solids | mg/L | <5.0   |       | 5.0   | XB13086 | 05-Jun-18 |  |
| SM 4500-P-E | Phosphorus         | mg/L | <0.000 | 0.003 | 0.010 | XB13217 | 07-Jun-18 |  |

**Quality Control - LABORATORY CONTROL SAMPLE Data**

| Method | Analyte | Units | LCS Result | LCS True | % Rec. | Acceptance Limits | Batch ID | Analyzed | Notes |
|--------|---------|-------|------------|----------|--------|-------------------|----------|----------|-------|
|--------|---------|-------|------------|----------|--------|-------------------|----------|----------|-------|

**Metals (Total Recoverable--reportable as Total per 40 CFR 136)**

|           |           |      |       |      |      |          |         |           |  |
|-----------|-----------|------|-------|------|------|----------|---------|-----------|--|
| EPA 200.7 | Calcium   | mg/L | 19.9  | 20.0 | 99.5 | 85 - 115 | XB13072 | 17-Jun-18 |  |
| EPA 200.7 | Lead      | mg/L | 0.887 | 1.00 | 88.7 | 85 - 115 | XB13072 | 17-Jun-18 |  |
| EPA 200.7 | Magnesium | mg/L | 20.6  | 20.0 | 103  | 85 - 115 | XB13072 | 17-Jun-18 |  |
| EPA 200.7 | Zinc      | mg/L | 0.895 | 1.00 | 89.5 | 85 - 115 | XB13072 | 17-Jun-18 |  |

**Classical Chemistry Parameters**

|             |                |      |       |       |      |          |         |           |  |
|-------------|----------------|------|-------|-------|------|----------|---------|-----------|--|
| ASTMD-5176  | Total Nitrogen | mg/L | 10.8  | 10.0  | 108  | 80 - 120 | XB14261 | 14-Jun-18 |  |
| SM 4500-P-E | Phosphorus     | mg/L | 0.718 | 0.748 | 95.9 | 90 - 110 | XB13217 | 07-Jun-18 |  |

**Quality Control - DUPLICATE Data**

| Method | Analyte | Units | Duplicate Result | Sample Result | RPD | RPD Limit | Batch ID | Analyzed | Notes |
|--------|---------|-------|------------------|---------------|-----|-----------|----------|----------|-------|
|--------|---------|-------|------------------|---------------|-----|-----------|----------|----------|-------|

**Classical Chemistry Parameters**

|           |                    |      |      |      |     |    |         |           |  |
|-----------|--------------------|------|------|------|-----|----|---------|-----------|--|
| SM 2540 D | Total Susp. Solids | mg/L | <5.0 | <5.0 | <RL | 10 | XB13086 | 05-Jun-18 |  |
|-----------|--------------------|------|------|------|-----|----|---------|-----------|--|

**Quality Control - MATRIX SPIKE Data**

| Method | Analyte | Units | Spike Result | Sample Result (R) | Spike Level (%) | % Recovery | Acceptance Limits | Batch ID | Analyzed | Notes |
|--------|---------|-------|--------------|-------------------|-----------------|------------|-------------------|----------|----------|-------|
|--------|---------|-------|--------------|-------------------|-----------------|------------|-------------------|----------|----------|-------|

**Metals (Total Recoverable--reportable as Total per 40 CFR 136)**

|           |           |      |       |         |      |      |          |         |           |  |
|-----------|-----------|------|-------|---------|------|------|----------|---------|-----------|--|
| EPA 200.7 | Calcium   | mg/L | 36.5  | 17.3    | 20.0 | 96.2 | 70 - 130 | XB13072 | 17-Jun-18 |  |
| EPA 200.7 | Lead      | mg/L | 0.949 | <0.0075 | 1.00 | 94.9 | 70 - 130 | XB13072 | 17-Jun-18 |  |
| EPA 200.7 | Magnesium | mg/L | 31.5  | 11.4    | 20.0 | 100  | 70 - 130 | XB13072 | 17-Jun-18 |  |
| EPA 200.7 | Zinc      | mg/L | 0.987 | <0.010  | 1.00 | 98.1 | 70 - 130 | XB13072 | 17-Jun-18 |  |

**Classical Chemistry Parameters**

|             |                |      |       |       |       |      |          |         |           |    |
|-------------|----------------|------|-------|-------|-------|------|----------|---------|-----------|----|
| ASTMD-5176  | Total Nitrogen | mg/L | 7.17  | 2.15  | 5.00  | 100  | 80 - 120 | XB14261 | 14-Jun-18 |    |
| SM 4500-P-E | Phosphorus     | mg/L | 0.967 | 0.553 | 0.500 | 82.7 | 75 - 125 | XB13217 | 07-Jun-18 | DL |

SVL holds the following certifications: AZ:0538, CA:2009, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, UT:(INI):ID000192015-1, WA:C573  
 Work order Report Page 4 of 5



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|   |   |
|---|---|
| City of Coeur d'Alene<br>710 E. McKen Ave.<br>Coeur d'Alene, ID 83814 | Project Name: Stormwater Monitoring<br>Work Order: XSF0020<br>Reported: 20-Jun-18 12:56 |
|---|---|

| Quality Control - MATRIX SPIKE DUPLICATE Data                         |                |       |            |              |             |        |     |           |          |           |       |
|---|----------------|-------|------------|--------------|-------------|--------|-----|-----------|----------|-----------|-------|
| Method  | Analyte        | Units | MSD Result | Spike Result | Spike Level | % Rec. | RPD | RPD Limit | Batch ID | Analyzed  | Notes |
| <b>Metals (Total Recoverable--reportable as Total per 40 CFR 136)</b> |                |       |            |              |             |        |     |           |          |           |       |
| EPA 200.7   | Calcium        | mg/L  | 36.5       | 36.5         | 20.0        | 95.9   | 0.1 | 20        | XB13072  | 17-Jun-18 |       |
| EPA 200.7   | Lead           | mg/L  | 0.970      | 0.969        | 1.00        | 97.0   | 0.2 | 20        | XB13072  | 17-Jun-18 |       |
| EPA 200.7   | Magnesium      | mg/L  | 31.0       | 31.5         | 20.0        | 105    | 1.6 | 20        | XB13072  | 17-Jun-18 |       |
| EPA 200.7   | Zinc           | mg/L  | 0.993      | 0.987        | 1.00        | 98.3   | 0.6 | 20        | XB13072  | 17-Jun-18 |       |
| <b>Classical Chemistry Parameters</b>                                 |                |       |            |              |             |        |     |           |          |           |       |
| ASTMD-5176  | Total Nitrogen | mg/L  | 7.09       | 7.17         | 5.00        | 98.3   | 1.1 | 20        | XB14261  | 14-Jun-18 |       |
| SM 4500-P-E   | Phosphorus     | mg/L  | 0.967      | 0.967        | 0.500       | 98.3   | 2.1 | 20        | XB13217  | 07-Jun-18 | D2    |

**Notes and Definitions**

- D2 Sample required dilution due to high concentration of target analyte.
- LCS Laboratory Control Sample (Blank Spike)
- RPD Relative Percent Difference
- UDL A result is less than the detection limit
- 0.30R->S % recovery not applicable; spike level is less than 30% of the sample concentration
- <RL A result is less than the reporting limit
- MRL Method Reporting Limit
- MDL Method Detection Limit
- N/A Not Applicable



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|                 |                               |                      |              |
|-----------------|-------------------------------|----------------------|--------------|
| <b>Client:</b>  | COEUR D'ALENE WASTEWATER DEPT | <b>Batch #:</b>      | 180605021    |
| <b>Address:</b> | 710 MULLAN- CITY HALL         | <b>Project Name:</b> | SVL #X8F0020 |
|                 | COEUR D'ALENE, ID 83814       |                      |              |
| <b>Attn:</b>    | KIM HARRINGTON                |                      |              |

## Analytical Results Report

|                         |                     |                        |            |                           |                   |
|-------------------------|---------------------|------------------------|------------|---------------------------|-------------------|
| <b>Sample Number</b>    | 180605021-001       | <b>Sampling Date</b>   | 6/11/2018  | <b>Date/Time Received</b> | 6/5/2018 10:50 AM |
| <b>Client Sample ID</b> | STATION 1 (19TH ST) | <b>Sampling Time</b>   | 9:55 AM    | <b>Extraction Date</b>    | 6/11/2018         |
| <b>Matrix</b>           | Water               | <b>Sample Location</b> | X8F0020-01 |                           |                   |
| <b>Comments</b>         |                     |                        |            |                           |                   |

| Parameter               | Result | Units | PQL | Analysis Date        | Analyst | Method   | Qualifier |
|-------------------------|--------|-------|-----|----------------------|---------|----------|-----------|
| Aroclor 1016 (PCB-1016) | ND     | ug/L  | 0.8 | 6/18/2018 6:53:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1221 (PCB-1221) | ND     | ug/L  | 0.8 | 6/18/2018 6:53:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1232 (PCB-1232) | ND     | ug/L  | 0.8 | 6/18/2018 6:53:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1242 (PCB-1242) | ND     | ug/L  | 0.8 | 6/18/2018 6:53:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1248 (PCB-1248) | ND     | ug/L  | 0.8 | 6/18/2018 6:53:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1254 (PCB-1254) | ND     | ug/L  | 0.8 | 6/18/2018 6:53:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1260 (PCB-1260) | ND     | ug/L  | 0.8 | 6/18/2018 6:53:00 PM | MAH     | EPA 8082 |           |
| PCB (total)             | ND     | ug/L  | 0.8 | 6/18/2018 6:53:00 PM | MAH     | EPA 8082 |           |

### Surrogate Data

| Sample Number | Surrogate Standard | Method   | Percent Recovery | Control Limits |
|---------------|--------------------|----------|------------------|----------------|
| 180605021-001 | DCB                | EPA 8082 | 85.8             | 30-130         |

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|                 |  |                      |              |
|-----------------|--|----------------------|--------------|
| <b>Client:</b>  | COEUR D'ALENE WASTEWATER DEPT                    | <b>Batch #:</b>      | 180605021    |
| <b>Address:</b> | 710 MULLAN- CITY HALL<br>COEUR D'ALENE, ID 83814 | <b>Project Name:</b> | SVL #X8F0020 |
| <b>Attn:</b>    | KIM HARRINGTON                                   |                      |              |

## Analytical Results Report

|                         |                       |                        |            |                           |                    |
|-------------------------|-----------------------|------------------------|------------|---------------------------|--------------------|
| <b>Sample Number</b>    | 180605021-002         | <b>Sampling Date</b>   | 6/11/2018  | <b>Date/Time Received</b> | 6/15/2018 10:50 AM |
| <b>Client Sample ID</b> | STATION 2 (BELLER/VE) | <b>Sampling Time</b>   | 9:33 AM    | <b>Extraction Date</b>    | 6/11/2018          |
| <b>Matrix</b>           | Water                 | <b>Sample Location</b> | X8F0020-02 |                           |                    |
| <b>Comments</b>         |                       |                        |            |                           |                    |

| Parameter               | Result | Units | PQL | Analysis Date        | Analyst | Method   | Qualifier |
|-------------------------|--------|-------|-----|----------------------|---------|----------|-----------|
| Aroclor 1016 (PCB-1016) | ND     | ug/L  | 0.2 | 6/18/2018 7:12:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1221 (PCB-1221) | ND     | ug/L  | 0.2 | 6/18/2018 7:12:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1232 (PCB-1232) | ND     | ug/L  | 0.2 | 6/18/2018 7:12:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1242 (PCB-1242) | ND     | ug/L  | 0.2 | 6/18/2018 7:12:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1248 (PCB-1248) | ND     | ug/L  | 0.2 | 6/18/2018 7:12:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1254 (PCB-1254) | ND     | ug/L  | 0.2 | 6/18/2018 7:12:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1260 (PCB-1260) | ND     | ug/L  | 0.2 | 6/18/2018 7:12:00 PM | MAH     | EPA 8082 |           |
| PCB (total)             | ND     | ug/L  | 0.2 | 6/18/2018 7:12:00 PM | MAH     | EPA 8082 |           |

### Surrogate Data

|                           |               |               |          |                         |      |                       |        |
|---------------------------|---------------|---------------|----------|-------------------------|------|-----------------------|--------|
| <b>Sample Number</b>      | 180605021-002 | <b>Method</b> | EPA 8082 | <b>Percent Recovery</b> | 65.0 | <b>Control Limits</b> | 30-130 |
| <b>Surrogate Standard</b> | DCB           |               |          |                         |      |                       |        |

Authorized Signature

  
 \_\_\_\_\_  
 Todd Tarusolo, Lab Manager

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**Client:** COEUR D'ALENE WASTEWATER DEPT      **Batch #:** 180605021  
**Address:** 710 MULLAN- CITY HALL      **Project Name:** SVL #X8F0020  
 COEUR D'ALENE, ID 83814  
**Attn:** KIM HARRINGTON

## Analytical Results Report Quality Control Data

### Lab Control Sample

| Parameter   | LCS Result | Units | LCS Spike | %Rec | AR %Rec | Prep Date | Analysis Date |
|-------------|------------|-------|-----------|------|---------|-----------|---------------|
| PCB (total) | 9.95       | ug/L  | 10        | 99.5 | 30-130  | 6/11/2018 | 6/18/2018     |

### Lab Control Sample Duplicate

| Parameter   | LCSD Result | Units | LCSD Spike | %Rec | %RPD | AR %RPD | Prep Date | Analysis Date |
|-------------|-------------|-------|------------|------|------|---------|-----------|---------------|
| PCB (total) | 9.67        | ug/L  | 10         | 96.7 | 2.9  | 0-50    | 6/11/2018 | 6/18/2018     |

### Method Blank

| Parameter               | Result | Units | PQL | Prep Date | Analysis Date |
|-------------------------|--------|-------|-----|-----------|---------------|
| Aroclor 1016 (PCB-1016) | ND     | ug/L  | 0.2 | 6/11/2018 | 6/18/2018     |
| Aroclor 1221 (PCB-1221) | ND     | ug/L  | 0.2 | 6/11/2018 | 6/18/2018     |
| Aroclor 1232 (PCB-1232) | ND     | ug/L  | 0.2 | 6/11/2018 | 6/18/2018     |
| Aroclor 1242 (PCB-1242) | ND     | ug/L  | 0.2 | 6/11/2018 | 6/18/2018     |
| Aroclor 1248 (PCB-1248) | ND     | ug/L  | 0.2 | 6/11/2018 | 6/18/2018     |
| Aroclor 1254 (PCB-1254) | ND     | ug/L  | 0.2 | 6/11/2018 | 6/18/2018     |
| Aroclor 1260 (PCB-1260) | ND     | ug/L  | 0.2 | 6/11/2018 | 6/18/2018     |
| PCB (total)             | ND     | ug/L  | 0.2 | 6/11/2018 | 6/18/2018     |



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|  |   |
|--|---|
| City of Coeur d'Alene<br>710 E. Mullan Ave.<br>Coeur d'Alene, ID 83814 | Project Name: Stormwater Monitoring<br>Work Order: XSH0658<br>Reported: 17-Sep-18 17:53 |
|--|---|

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID             | Laboratory ID | Matrix     | Date Sampled    | Sampled By | Date Received | Notes |
|-----------------------|---------------|------------|-----------------|------------|---------------|-------|
| Station 1 (19th St)   | XSH0658-01    | Stormwater | 27-Aug-18 07:08 | KH         | 27-Aug-2018   |       |
| Station 2 (Bellerive) | XSH0658-02    | Stormwater | 27-Aug-18 06:46 | KH         | 27-Aug-2018   |       |

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.  
 Sample preparation is defined by the client as per their Data Quality Objectives.  
 This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.  
 Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.  
 The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.



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|  |   |
|--|---|
| City of Coeur d'Alene<br>710 E. Mullan Ave.<br>Coeur d'Alene, ID 83814 | Project Name: Stormwater Monitoring<br>Work Order: X8H0658<br>Reported: 17-Sep-18 17:53 |
|--|---|

Client Sample ID: Station 1 (19th St)

SVL Sample ID: X8H0658-01 (Stormwater)

Sample Report Page 1 of 1

Sampled: 17-Aug-18 07:08  
 Received: 17-Aug-18  
 Sampled By: KH

| Method  | Analyte             | Result   | Units | RL     | MDL    | Dilution | Batch   | Analyst | Analyzed       | Notes |
|---|---------------------|----------|-------|--------|--------|----------|---------|---------|----------------|-------|
| <b>Metals (Total Recoverable--reportable as Total per 40 CFR 136)</b> |                     |          |       |        |        |          |         |         |                |       |
| EPA 200.7   | Calcium             | 8.43     | mg/L  | 0.100  | 0.035  |          | X835231 | DT      | 09/07/18 13:44 |       |
| EPA 200.7   | Lead                | < 0.0075 | mg/L  | 0.0075 | 0.0025 |          | X835231 | DT      | 09/07/18 13:44 |       |
| EPA 200.7   | Magnesium           | 1.73     | mg/L  | 0.50   | 0.16   |          | X835231 | DT      | 09/07/18 13:44 |       |
| EPA 200.7   | Zinc                | 0.041    | mg/L  | 0.010  | 0.003  |          | X835231 | DT      | 09/07/18 13:44 |       |
| SM 2540 B   | Hardness (as CaCO3) | 28.2     | mg/L  | 2.31   | 0.745  |          | N/A     |         | 09/07/18 13:44 |       |
| <b>Classical Chemistry Parameters</b>                                 |                     |          |       |        |        |          |         |         |                |       |
| ASTMD-5176  | Total Nitrogen      | 1.01     | mg/L  | 0.50   | 0.12   |          | X835195 | SM      | 08/30/18 15:29 |       |
| SM 2540 D   | Total Susp. Solids  | 15.0     | mg/L  | 5.0    |        |          | X835112 | JDM     | 08/29/18 13:00 |       |
| SM 4500-P-E   | Phosphorus          | 0.298    | mg/L  | 0.010  | 0.003  |          | X835157 | sm      | 08/30/18 16:36 |       |

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

*Dianne Gardner*  
 Dianne Gardner  
 Project Manager



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|  |   |
|--|---|
| City of Coeur d'Alene<br>710 E. Millan Ave.<br>Coeur d'Alene, ID 83814 | Project Name: Stormwater Monitoring<br>Work Order: X8H0658<br>Reported: 17-Sep-18 17:53 |
|--|---|

Client Sample ID: Station 2 (Bellerive)

SVL Sample ID: X8H0658-02 (Stormwater)

Sample Report Page 1 of 1

Sampled: 17-Aug-18 06:46

Received: 17-Aug-18

Sampled By: KH

| Method  | Analyte                          | Result   | Units | RL     | MDL    | Dilution | Batch   | Analyst | Analyzed       | Notes |
|---|----------------------------------|----------|-------|--------|--------|----------|---------|---------|----------------|-------|
| <b>Metals (Total Recoverable--reportable as Total per 40 CFR 136)</b> |                                  |          |       |        |        |          |         |         |                |       |
| EPA 200.7   | Calcium                          | 9.64     | mg/L  | 0.100  | 0.035  |          | X835231 | DT      | 09/07/18 13:51 |       |
| EPA 200.7   | Lead                             | < 0.0075 | mg/L  | 0.0075 | 0.0025 |          | X835231 | DT      | 09/07/18 13:51 |       |
| EPA 200.7   | Magnesium                        | 2.35     | mg/L  | 0.50   | 0.16   |          | X835231 | DT      | 09/07/18 13:51 |       |
| EPA 200.7   | Zinc                             | 0.067    | mg/L  | 0.010  | 0.003  |          | X835231 | DT      | 09/07/18 13:51 |       |
| SM 2340 B   | Hardness (as CaCO <sub>3</sub> ) | 33.8     | mg/L  | 2.31   | 0.745  |          | NA      |         | 09/07/18 13:51 |       |
| <b>Classical Chemistry Parameters</b>                                 |                                  |          |       |        |        |          |         |         |                |       |
| ASTMD-5176  | Total Nitrogen                   | 0.93     | mg/L  | 0.50   | 0.12   |          | X835195 | SM      | 08/30/18 15:42 |       |
| SM 2540 D   | Total Susp. Solids               | 37.0     | mg/L  | 5.0    |        |          | X835112 | JDM     | 08/29/18 13:00 |       |
| SM 4500-P-E   | Phosphorus                       | 0.340    | mg/L  | 0.010  | 0.003  |          | X835157 | sm      | 08/30/18 16:36 |       |

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

*Dianne Gardner*  
Dianne Gardner  
Project Manager



|  |   |
|--|---|
| City of Coeur d'Alene<br>710 E. Mullan Ave.<br>Coeur d'Alene, ID 83814 | Project Name: Stormwater Monitoring<br>Work Order: X8H0658<br>Reported: 17-Sep-18 17:53 |
|--|---|

**Quality Control - BLANK Data**

| Method   | Analyte            | Units | Result  | MDL    | MRL    | Batch ID | Analyzed  | Notes |
|--|--------------------|-------|---------|--------|--------|----------|-----------|-------|
| <b>Metals (Total Recoverable—reportable as Total per 40 CFR 136)</b> |                    |       |         |        |        |          |           |       |
| EPA 200.7  | Calcium            | mg/L  | <0.100  | 0.035  | 0.100  | X835231  | 07-Sep-18 |       |
| EPA 200.7  | Lead               | mg/L  | <0.0075 | 0.0025 | 0.0075 | X835231  | 07-Sep-18 |       |
| EPA 200.7  | Magnesium          | mg/L  | <0.50   | 0.16   | 0.50   | X835231  | 07-Sep-18 |       |
| EPA 200.7  | Zinc               | mg/L  | <0.010  | 0.003  | 0.010  | X835231  | 07-Sep-18 |       |
| <b>Classical Chemistry Parameters</b>                                |                    |       |         |        |        |          |           |       |
| ASTM D-5176  | Total Nitrogen     | mg/L  | <0.50   | 0.12   | 0.50   | X835195  | 30-Aug-18 |       |
| SM 2540 D  | Total Susp. Solids | mg/L  | <5.0    |        | 5.0    | X835112  | 29-Aug-18 |       |
| SM 4500-P-E  | Phosphorus         | mg/L  | <0.010  | 0.003  | 0.010  | X835157  | 30-Aug-18 |       |

**Quality Control - LABORATORY CONTROL SAMPLE Data**

| Method   | Analyte        | Units | LCS Result | LCS True | % Rec. | Acceptance Limits | Batch ID | Analyzed  | Notes |
|--|----------------|-------|------------|----------|--------|-------------------|----------|-----------|-------|
| <b>Metals (Total Recoverable—reportable as Total per 40 CFR 136)</b> |                |       |            |          |        |                   |          |           |       |
| EPA 200.7  | Calcium        | mg/L  | 19.2       | 20.0     | 95.8   | 85 - 115          | X835231  | 07-Sep-18 |       |
| EPA 200.7  | Lead           | mg/L  | 1.06       | 1.00     | 106    | 85 - 115          | X835231  | 07-Sep-18 |       |
| EPA 200.7  | Magnesium      | mg/L  | 19.3       | 20.0     | 96.7   | 85 - 115          | X835231  | 07-Sep-18 |       |
| EPA 200.7  | Zinc           | mg/L  | 1.05       | 1.00     | 105    | 85 - 115          | X835231  | 07-Sep-18 |       |
| <b>Classical Chemistry Parameters</b>                                |                |       |            |          |        |                   |          |           |       |
| ASTM D-5176  | Total Nitrogen | mg/L  | 9.51       | 10.0     | 95.1   | 80 - 120          | X835195  | 30-Aug-18 |       |
| SM 4500-P-E  | Phosphorus     | mg/L  | 0.753      | 0.748    | 101    | 90 - 110          | X835157  | 30-Aug-18 |       |

**Quality Control - DUPLICATE Data**

| Method                                | Analyte            | Units | Duplicate Result | Sample Result | RPD | RPD Limit | Batch ID | Analyzed  | Notes |
|---------------------------------------|--------------------|-------|------------------|---------------|-----|-----------|----------|-----------|-------|
| <b>Classical Chemistry Parameters</b> |                    |       |                  |               |     |           |          |           |       |
| SM 2540 D                             | Total Susp. Solids | mg/L  | ~5.0             | ~5.0          | <RL | 10        | X835112  | 29-Aug-18 |       |

**Quality Control - MATRIX SPIKE Data**

| Method   | Analyte        | Units | Spike Result | Sample Result (R) | Spike Level (S) | % Recovery | Acceptance Limits | Batch ID | Analyzed  | Notes |
|--|----------------|-------|--------------|-------------------|-----------------|------------|-------------------|----------|-----------|-------|
| <b>Metals (Total Recoverable—reportable as Total per 40 CFR 136)</b> |                |       |              |                   |                 |            |                   |          |           |       |
| EPA 200.7  | Calcium        | mg/L  | 28.0         | 8.43              | 20.0            | 98.1       | 70 - 130          | X835231  | 07-Sep-18 |       |
| EPA 200.7  | Calcium        | mg/L  | 611          | 576               | 20.0            | 0.30R-5    | 70 - 130          | X835231  | 07-Sep-18 | D2.M4 |
| EPA 200.7  | Lead           | mg/L  | 0.986        | -0.0075           | 1.00            | 98.0       | 70 - 130          | X835231  | 07-Sep-18 |       |
| EPA 200.7  | Lead           | mg/L  | 1.10         | -0.0075           | 1.00            | 110        | 70 - 130          | X835231  | 07-Sep-18 |       |
| EPA 200.7  | Magnesium      | mg/L  | 185          | 170               | 20.0            | 70.8       | 70 - 130          | X835231  | 07-Sep-18 |       |
| EPA 200.7  | Magnesium      | mg/L  | 22.1         | 1.73              | 20.0            | 102        | 70 - 130          | X835231  | 07-Sep-18 |       |
| EPA 200.7  | Zinc           | mg/L  | 1.04         | 0.032             | 1.00            | 101        | 70 - 130          | X835231  | 07-Sep-18 |       |
| EPA 200.7  | Zinc           | mg/L  | 1.12         | 0.041             | 1.00            | 108        | 70 - 130          | X835231  | 07-Sep-18 |       |
| <b>Classical Chemistry Parameters</b>                                |                |       |              |                   |                 |            |                   |          |           |       |
| ASTM D-5176  | Total Nitrogen | mg/L  | 6.36         | 1.01              | 5.00            | 107        | 80 - 120          | X835195  | 30-Aug-18 |       |
| SM 4500-P-E  | Phosphorus     | mg/L  | 0.610        | 0.078             | 0.500           | 107        | 75 - 125          | X835157  | 30-Aug-18 |       |

SVL holds the following certifications:  
 AZ-0538, CA-2080, ID-ID00019 & ID00965 (Microbiology), NV-ID000192007A, UT(TNI):ID000192015-1, WA-C573  
 Work order Report Page 4 of 5



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|  |   |
|--|---|
| City of Coeur d'Alene<br>710 E. Mullan Ave.<br>Coeur d'Alene, ID 83814 | Project Name: Stormwater Monitoring<br>Work Order: XBH0658<br>Reported: 17-Sep-18 17:53 |
|--|---|

| Quality Control - MATRIX SPIKE DUPLICATE Data                        |                |       |            |              |             |         |     |           |          |           |       |
|--|----------------|-------|------------|--------------|-------------|---------|-----|-----------|----------|-----------|-------|
| Method   | Analyte        | Units | MSD Result | Spike Result | Spike Level | % Rec.  | RPD | RPD Limit | Batch ID | Analyzed  | Notes |
| <b>Metals (Total Recoverable—reportable as Total per 40 CFR 136)</b> |                |       |            |              |             |         |     |           |          |           |       |
| EPA 200.7  | Calcium        | mg/L  | 597        | 611          | 20.0        | 108     | 2.3 | 20        | XB35231  | 07-Sep-18 | D2    |
| EPA 200.7  | Lead           | mg/L  | 0.946      | 0.986        | 1.00        | 94.0    | 4.1 | 20        | XB35231  | 07-Sep-18 |       |
| EPA 200.7  | Magnesium      | mg/L  | 181        | 185          | 20.0        | 0.30R-S | 2.0 | 20        | XB35231  | 07-Sep-18 | M3    |
| EPA 200.7  | Zinc           | mg/L  | 0.991      | 1.04         | 1.00        | 96.0    | 4.7 | 20        | XB35231  | 07-Sep-18 |       |
| <b>Classical Chemistry Parameters</b>                                |                |       |            |              |             |         |     |           |          |           |       |
| ASTM D-5176  | Total Nitrogen | mg/L  | 6.37       | 6.36         | 5.00        | 107     | 0.1 | 20        | XB35195  | 30-Aug-18 |       |
| SM 4500-P-E  | Phosphorus     | mg/L  | 0.605      | 0.610        | 0.500       | 106     | 0.7 | 20        | XB35157  | 30-Aug-18 |       |



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**Client:** CITY OF COEUR D'ALENE  
**Address:** 710 E MULLAN AVE  
 COEUR D'ALENE, ID 83815

**Batch #:** 180830016  
**Project Name:** SVL #X8H0658

**Attn:**

## Analytical Results Report

|                         |                     |                        |            |                           |                    |
|-------------------------|---------------------|------------------------|------------|---------------------------|--------------------|
| <b>Sample Number</b>    | 180830016-001       | <b>Sampling Date</b>   | 8/27/2018  | <b>Date/Time Received</b> | 8/29/2018 11:22 AM |
| <b>Client Sample ID</b> | STATION 1 (19TH ST) | <b>Sampling Time</b>   | 7:08 AM    | <b>Extraction Date</b>    | 9/4/2018           |
| <b>Matrix</b>           | Water               | <b>Sample Location</b> | X8H0658-01 |                           |                    |
| <b>Comments</b>         |                     |                        |            |                           |                    |

| Parameter               | Result | Units | PQL | Analysis Date         | Analyst | Method   | Qualifier |
|-------------------------|--------|-------|-----|-----------------------|---------|----------|-----------|
| Aroclor 1016 (PCB-1016) | ND     | ug/L  | 0.2 | 9/10/2018 10:44:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1221 (PCB-1221) | ND     | ug/L  | 0.2 | 9/10/2018 10:44:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1232 (PCB-1232) | ND     | ug/L  | 0.2 | 9/10/2018 10:44:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1242 (PCB-1242) | ND     | ug/L  | 0.2 | 9/10/2018 10:44:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1248 (PCB-1248) | ND     | ug/L  | 0.2 | 9/10/2018 10:44:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1254 (PCB-1254) | ND     | ug/L  | 0.2 | 9/10/2018 10:44:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1260 (PCB-1260) | ND     | ug/L  | 0.2 | 9/10/2018 10:44:00 PM | MAH     | EPA 8082 |           |
| PCB (total)             | ND     | ug/L  | 0.2 | 9/10/2018 10:44:00 PM | MAH     | EPA 8082 |           |

## Surrogate Data

| Sample Number | Surrogate Standard | Method   | Percent Recovery | Control Limits |
|---------------|--------------------|----------|------------------|----------------|
| 180830016-001 | DCB                | EPA 8082 | 79.2             | 30-130         |

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**Client:** CITY OF COEUR D'ALENE  
**Address:** 710 E MULLAN AVE  
 COEUR D'ALENE, ID 83815

**Batch #:** 180830016  
**Project Name:** SVL #X8H0658

**Attn:**

## Analytical Results Report


|                         |                       |                        |            |                           |                    |
|-------------------------|-----------------------|------------------------|------------|---------------------------|--------------------|
| <b>Sample Number</b>    | 180830016-002         | <b>Sampling Date</b>   | 8/27/2018  | <b>Date/Time Received</b> | 8/29/2018 11:22 AM |
| <b>Client Sample ID</b> | STATION 2 (BELLERIVE) | <b>Sampling Time</b>   | 6:46 AM    | <b>Extraction Date</b>    | 9/4/2018           |
| <b>Matrix</b>           | Water                 | <b>Sample Location</b> | X8H0658-02 |                           |                    |
| <b>Comments</b>         |                       |                        |            |                           |                    |

| Parameter               | Result | Units | PQL | Analysis Date         | Analyst | Method   | Qualifier |
|-------------------------|--------|-------|-----|-----------------------|---------|----------|-----------|
| Aroclor 1016 (PCB-1016) | ND     | ug/L  | 0.2 | 9/10/2018 11:03:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1221 (PCB-1221) | ND     | ug/L  | 0.2 | 9/10/2018 11:03:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1232 (PCB-1232) | ND     | ug/L  | 0.2 | 9/10/2018 11:03:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1242 (PCB-1242) | ND     | ug/L  | 0.2 | 9/10/2018 11:03:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1248 (PCB-1248) | ND     | ug/L  | 0.2 | 9/10/2018 11:03:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1254 (PCB-1254) | ND     | ug/L  | 0.2 | 9/10/2018 11:03:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1260 (PCB-1260) | ND     | ug/L  | 0.2 | 9/10/2018 11:03:00 PM | MAH     | EPA 8082 |           |
| PCB (total)             | ND     | ug/L  | 0.2 | 9/10/2018 11:03:00 PM | MAH     | EPA 8082 |           |

## Surrogate Data

|                           |               |               |          |                         |      |                       |        |
|---------------------------|---------------|---------------|----------|-------------------------|------|-----------------------|--------|
| <b>Sample Number</b>      | 180830016-002 | <b>Method</b> | EPA 8082 | <b>Percent Recovery</b> | 81.2 | <b>Control Limits</b> | 30-130 |
| <b>Surrogate Standard</b> | DCB           |               |          |                         |      |                       |        |

Authorized Signature

  
 Todd Tarusolo, Lab Manager

# Anatek Labs, Inc.

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 504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email [spokane@anateklabs.com](mailto:spokane@anateklabs.com)

**Client:** CITY OF COEUR D'ALENE  
**Address:** 710 E MULLAN AVE  
 COEUR D'ALENE, ID 83815

**Batch #:** 180830016  
**Project Name:** SVL #X8H0658

**Attn:**

## Analytical Results Report Quality Control Data

### Lab Control Sample

| Parameter   | LCS Result | Units | LCS Spike | %Rec  | AR %Rec | Prep Date | Analysis Date |
|-------------|------------|-------|-----------|-------|---------|-----------|---------------|
| PCB (total) | 10.4       | ug/L  | 10        | 104.0 | 30-130  | 9/4/2018  | 9/10/2018     |

### Lab Control Sample Duplicate

| Parameter   | LCSD Result | Units | LCSD Spike | %Rec | %RPD | AR %RPD | Prep Date | Analysis Date |
|-------------|-------------|-------|------------|------|------|---------|-----------|---------------|
| PCB (total) | 9.13        | ug/L  | 10         | 91.3 | 13.0 | 0-50    | 9/4/2018  | 9/10/2018     |

### Method Blank

| Parameter               | Result | Units | PQL | Prep Date | Analysis Date |
|-------------------------|--------|-------|-----|-----------|---------------|
| Aroclor 1016 (PCB-1016) | ND     | ug/L  | 0.2 | 9/4/2018  | 9/10/2018     |
| Aroclor 1221 (PCB-1221) | ND     | ug/L  | 0.2 | 9/4/2018  | 9/10/2018     |
| Aroclor 1232 (PCB-1232) | ND     | ug/L  | 0.2 | 9/4/2018  | 9/10/2018     |
| Aroclor 1242 (PCB-1242) | ND     | ug/L  | 0.2 | 9/4/2018  | 9/10/2018     |
| Aroclor 1248 (PCB-1248) | ND     | ug/L  | 0.2 | 9/4/2018  | 9/10/2018     |
| Aroclor 1254 (PCB-1254) | ND     | ug/L  | 0.2 | 9/4/2018  | 9/10/2018     |
| Aroclor 1260 (PCB-1260) | ND     | ug/L  | 0.2 | 9/4/2018  | 9/10/2018     |
| PCB (total)             | ND     | ug/L  | 0.2 | 9/4/2018  | 9/10/2018     |



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|--|---|
| City of Coeur d'Alene<br>710 E. Mullan Ave.<br>Coeur d'Alene, ID 83814 | Project Name: Stormwater Monitoring<br>Work Order: XBL0393<br>Reported: 07-Jan-19 11:43 |
|--|---|

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID             | Laboratory ID | Matrix     | Date Sampled    | Sampled By | Date Received | Notes |
|-----------------------|---------------|------------|-----------------|------------|---------------|-------|
| Station 1 (19th St)   | XBL0393-01    | Stormwater | 18-Dec-18 08:38 | KH         | 18-Dec-2018   |       |
| Station 2 (Bellerive) | XBL0393-02    | Stormwater | 18-Dec-18 08:03 | KH         | 18-Dec-2018   |       |

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.  
 Sample preparation is defined by the client as per their Data Quality Objectives.  
 This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.  
 Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.  
 The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.



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|--|---|
| City of Coeur d'Alene<br>710 E. Mullan Ave.<br>Coeur d'Alene, ID 83814 | Project Name: Stormwater Monitoring<br>Work Order: X8L0393<br>Reported: 07-Jan-19 11:43 |
|--|---|

Client Sample ID: Station 1 (19th St)

SVL Sample ID: X8L0393-01 (Stormwater)

Sample Report Page 1 of 1

Sampled: 18-Dec-18 08:38  
 Received: 18-Dec-18  
 Sampled By: KH

| Method   | Analyte             | Result | Units | RL     | MDL    | Dilution | Batch   | Analyst | Analyzed       | Notes |
|--|---------------------|--------|-------|--------|--------|----------|---------|---------|----------------|-------|
| <b>Metals (Total Recoverable—reportable as Total per 40 CFR 136)</b> |                     |        |       |        |        |          |         |         |                |       |
| EPA 200.7  | Calcium             | 3.74   | mg/L  | 0.100  | 0.035  |          | X851301 | AS      | 01/04/19 10:01 |       |
| EPA 200.7  | Lead                | 0.0114 | mg/L  | 0.0075 | 0.0025 |          | X851301 | AS      | 01/04/19 10:01 |       |
| EPA 200.7  | Magnesium           | 1.75   | mg/L  | 0.50   | 0.16   |          | X851301 | AS      | 01/04/19 10:01 |       |
| EPA 200.7  | Zinc                | 0.093  | mg/L  | 0.010  | 0.003  |          | X851301 | AS      | 01/04/19 10:01 |       |
| SM 2540 B  | Hardness (as CaCO3) | 16.6   | mg/L  | 2.31   | 0.745  |          | N/A     |         | 01/04/19 10:01 |       |
| <b>Classical Chemistry Parameters</b>                                |                     |        |       |        |        |          |         |         |                |       |
| ASTMD-5176   | Total Nitrogen      | < 0.50 | mg/L  | 0.50   | 0.12   |          | X801039 | APH     | 01/02/19 13:52 |       |
| SM 2540 D  | Total Susp. Solids  | 61.0   | mg/L  | 5.0    |        |          | X851178 | pmm     | 12/20/18 16:45 |       |
| SM 4500-P-E  | Phosphorus          | 0.330  | mg/L  | 0.010  | 0.003  |          | X852031 | SM      | 12/26/18 16:38 |       |

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Sophie Milam  
Project Manager



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|  |   |
|--|---|
| City of Coeur d'Alene<br>710 E. Millan Ave.<br>Coeur d'Alene, ID 83814 | Project Name: Stormwater Monitoring<br>Work Order: X8L0393<br>Reported: 07-Jan-19 11:43 |
|--|---|

Client Sample ID: Station 2 (Bellerive)  
 SVL Sample ID: X8L0393-02 (Stormwater)

Sampled: 18-Dec-18 08:03  
 Received: 18-Dec-18  
 Sampled By: KH

Sample Report Page 1 of 1

| Method   | Analyte             | Result | Units | RL     | MDL    | Dilution | Batch   | Analyst | Analyzed       | Notes |
|--|---------------------|--------|-------|--------|--------|----------|---------|---------|----------------|-------|
| <b>Metals (Total Recoverable—reportable as Total per 40 CFR 136)</b> |                     |        |       |        |        |          |         |         |                |       |
| EPA 200.7  | Calcium             | 6.74   | mg/L  | 0.100  | 0.035  |          | X851301 | AS      | 01/04/19 10:04 |       |
| EPA 200.7  | Lead                | 0.0095 | mg/L  | 0.0075 | 0.0025 |          | X851301 | AS      | 01/04/19 10:04 |       |
| EPA 200.7  | Magnesium           | 2.97   | mg/L  | 0.50   | 0.16   |          | X851301 | AS      | 01/04/19 10:04 |       |
| EPA 200.7  | Zinc                | 0.183  | mg/L  | 0.010  | 0.003  |          | X851301 | AS      | 01/04/19 10:04 |       |
| SM 2340 B  | Hardness (as CaCO3) | 29.0   | mg/L  | 2.31   | 0.745  |          | N/A     |         | 01/04/19 10:04 |       |
| <b>Classical Chemistry Parameters</b>                                |                     |        |       |        |        |          |         |         |                |       |
| ASTMD-5176   | Total Nitrogen      | < 0.50 | mg/L  | 0.50   | 0.13   |          | X901039 | APH     | 01/02/19 14:04 |       |
| SM 2540 D  | Total Susp. Solids  | 236    | mg/L  | 5.0    |        |          | X851178 | pm      | 12/20/18 16:45 |       |
| SM 4500-P-E  | Phosphorus          | 0.395  | mg/L  | 0.010  | 0.003  |          | X852031 | SM      | 12/26/18 16:38 |       |

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Sophie Milam  
 Project Manager



|  |  |
|--|--|
| City of Coeur d'Alene<br>710 E. Mullan Ave.<br>Coeur d'Alene, ID 83814 | <b>Project Name: Stormwater Monitoring</b><br>Work Order: X810393<br>Reported: 07-Jan-19 11:43 |
|--|--|

| Quality Control - BLANK Data  |                    |       |         |        |        |          |           |       |  |
|---|--------------------|-------|---------|--------|--------|----------|-----------|-------|--|
| Method  | Analyte            | Units | Result  | MDL    | MPL    | Batch ID | Analyzed  | Notes |  |
| <b>Metals (Total Recoverable--reportable as Total per 40 CFR 136)</b> |                    |       |         |        |        |          |           |       |  |
| EPA 200.7   | Calcium            | mg/L  | <0.100  | 0.020  | 0.100  | X851301  | 04-Jan-19 |       |  |
| EPA 200.7   | Lead               | mg/L  | <0.0075 | 0.0025 | 0.0075 | X851301  | 04-Jan-19 |       |  |
| EPA 200.7   | Magnesium          | mg/L  | <0.50   | 0.05   | 0.50   | X851301  | 04-Jan-19 |       |  |
| EPA 200.7   | Zinc               | mg/L  | <0.010  | 0.002  | 0.010  | X851301  | 04-Jan-19 |       |  |
| <b>Classical Chemistry Parameters</b>                                 |                    |       |         |        |        |          |           |       |  |
| ASTM D-5176   | Total Nitrogen     | mg/L  | <0.50   | 0.12   | 0.50   | X901039  | 02-Jan-19 |       |  |
| SM 2540 D   | Total Susp. Solids | mg/L  | <5.0    |        | 5.0    | X851178  | 20-Dec-18 |       |  |
| SM 4500-P-E   | Phosphorus         | mg/L  | <0.010  | 0.003  | 0.010  | X852031  | 26-Dec-18 |       |  |

| Quality Control - LABORATORY CONTROL SAMPLE Data                      |                |       |            |          |        |                   |          |           |       |
|---|----------------|-------|------------|----------|--------|-------------------|----------|-----------|-------|
| Method  | Analyte        | Units | LCS Result | LCS True | % Rec. | Acceptance Limits | Batch ID | Analyzed  | Notes |
| <b>Metals (Total Recoverable--reportable as Total per 40 CFR 136)</b> |                |       |            |          |        |                   |          |           |       |
| EPA 200.7   | Calcium        | mg/L  | 19.5       | 20.0     | 97.5   | 85 - 115          | X851301  | 04-Jan-19 |       |
| EPA 200.7   | Lead           | mg/L  | 0.984      | 1.00     | 98.4   | 85 - 115          | X851301  | 04-Jan-19 |       |
| EPA 200.7   | Magnesium      | mg/L  | 19.7       | 20.0     | 98.7   | 85 - 115          | X851301  | 04-Jan-19 |       |
| EPA 200.7   | Zinc           | mg/L  | 0.980      | 1.00     | 98.0   | 85 - 115          | X851301  | 04-Jan-19 |       |
| <b>Classical Chemistry Parameters</b>                                 |                |       |            |          |        |                   |          |           |       |
| ASTM D-5176   | Total Nitrogen | mg/L  | 10.4       | 10.0     | 104    | 80 - 120          | X901039  | 02-Jan-19 |       |
| SM 4500-P-E   | Phosphorus     | mg/L  | 0.740      | 0.748    | 98.9   | 90 - 110          | X852031  | 26-Dec-18 |       |

| Quality Control - DUPLICATE Data      |                    |       |                  |               |     |           |          |           |       |
|---------------------------------------|--------------------|-------|------------------|---------------|-----|-----------|----------|-----------|-------|
| Method                                | Analyte            | Units | Duplicate Result | Sample Result | RPD | RPD Limit | Batch ID | Analyzed  | Notes |
| <b>Classical Chemistry Parameters</b> |                    |       |                  |               |     |           |          |           |       |
| SM 2540 D                             | Total Susp. Solids | mg/L  | 16.0             | 16.0          | 0.0 | 10        | X851178  | 20-Dec-18 |       |

| Quality Control - MATRIX SPIKE Data                                   |                |       |              |                   |                 |            |                   |          |           |       |
|---|----------------|-------|--------------|-------------------|-----------------|------------|-------------------|----------|-----------|-------|
| Method  | Analyte        | Units | Spike Result | Sample Result (R) | Spike Level (S) | % Recovery | Acceptance Limits | Batch ID | Analyzed  | Notes |
| <b>Metals (Total Recoverable--reportable as Total per 40 CFR 136)</b> |                |       |              |                   |                 |            |                   |          |           |       |
| EPA 200.7   | Calcium        | mg/L  | 60.7         | 43.2              | 20.0            | 92.3       | 70 - 130          | X851301  | 04-Jan-19 |       |
| EPA 200.7   | Calcium        | mg/L  | 376          | 358               | 20.0            | 87.5       | 70 - 130          | X851301  | 04-Jan-19 |       |
| EPA 200.7   | Lead           | mg/L  | 1.01         | <0.0075           | 1.00            | 100        | 70 - 130          | X851301  | 04-Jan-19 |       |
| EPA 200.7   | Lead           | mg/L  | 0.807        | 0.0186            | 1.00            | 78.8       | 70 - 130          | X851301  | 04-Jan-19 |       |
| EPA 200.7   | Magnesium      | mg/L  | 35.6         | 16.5              | 20.0            | 95.4       | 70 - 130          | X851301  | 04-Jan-19 |       |
| EPA 200.7   | Magnesium      | mg/L  | 88.8         | 71.6              | 20.0            | 85.7       | 70 - 130          | X851301  | 04-Jan-19 |       |
| EPA 200.7   | Zinc           | mg/L  | 1.00         | 0.010             | 1.00            | 99.0       | 70 - 130          | X851301  | 04-Jan-19 |       |
| EPA 200.7   | Zinc           | mg/L  | 1.34         | 0.400             | 1.00            | 93.9       | 70 - 130          | X851301  | 04-Jan-19 |       |
| <b>Classical Chemistry Parameters</b>                                 |                |       |              |                   |                 |            |                   |          |           |       |
| ASTM D-5176   | Total Nitrogen | mg/L  | 5.89         | <0.50             | 5.00            | 108        | 80 - 120          | X901039  | 02-Jan-19 |       |
| SM 4500-P-E   | Phosphorus     | mg/L  | 0.501        | <0.010            | 0.500           | 99.3       | 75 - 125          | X852031  | 26-Dec-18 |       |

SVL holds the following certifications:  
 AZ:0538, CA:2080, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, UT(IN):ID000192015-1, WA:C573



One Government Gulch - PO Box 929

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City of Coeur d'Alene  
710 E. Millan Ave.  
Coeur d'Alene, ID 83814

**Project Name: Stormwater Monitoring**

Work Order: **XSL0393**

Reported: 07-Jan-19 11:43

**Quality Control - MATRIX SPIKE DUPLICATE Data**

| Method  | Analyte        | Units | MSD Result | Spike Result | Spike Level | % Rec. | RPD | RPD Limit | Batch ID | Analyzed  | Notes |
|---|----------------|-------|------------|--------------|-------------|--------|-----|-----------|----------|-----------|-------|
| <b>Metals (Total Recoverable--reportable as Total per 40 CFR 136)</b> |                |       |            |              |             |        |     |           |          |           |       |
| EPA 200.7   | Calcium        | mg/L  | 61.9       | 60.7         | 20.0        | 98.6   | 2.1 | 20        | XB51301  | 04-Jan-19 |       |
| EPA 200.7   | Lead           | mg/L  | 0.991      | 1.01         | 1.00        | 98.6   | 1.8 | 20        | XB51301  | 04-Jan-19 |       |
| EPA 200.7   | Magnesium      | mg/L  | 36.0       | 35.6         | 20.0        | 97.5   | 1.2 | 20        | XB51301  | 04-Jan-19 |       |
| EPA 200.7   | Zinc           | mg/L  | 1.00       | 1.00         | 1.00        | 99.4   | 0.5 | 20        | XB51301  | 04-Jan-19 |       |
| <b>Classical Chemistry Parameters</b>                                 |                |       |            |              |             |        |     |           |          |           |       |
| ASTMD-5176  | Total Nitrogen | mg/L  | 6.00       | 5.89         | 5.00        | 111    | 1.9 | 20        | X901039  | 02-Jan-19 |       |
| SM 4500-P-E   | Phosphorus     | mg/L  | 0.501      | 0.501        | 0.500       | 99.3   | 0.0 | 20        | X852031  | 26-Dec-18 |       |



# Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-8246 • email moscow@anateklabs.com  
 504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

**Client:** CITY OF COEUR D'ALENE  
**Address:** 710 E MULLAN AVE  
 COEUR D'ALENE, ID 83815  
**Attn:** SVL ANALYTICAL, INC.

**Batch #:** 181220043  
**Project Name:** SVL #X8L0393

## Analytical Results Report

|                         |                     |                        |            |                           |                     |
|-------------------------|---------------------|------------------------|------------|---------------------------|---------------------|
| <b>Sample Number</b>    | 181220043-001       | <b>Sampling Date</b>   | 12/18/2018 | <b>Date/Time Received</b> | 12/20/2018 11:08 AM |
| <b>Client Sample ID</b> | STATION 1 (19TH ST) | <b>Sampling Time</b>   | 8:38 AM    | <b>Extraction Date</b>    | 12/24/2018          |
| <b>Matrix</b>           | Water               | <b>Sample Location</b> | X8L0393-01 |                           |                     |
| <b>Comments</b>         |                     |                        |            |                           |                     |

| Parameter               | Result | Units | PQL | Analysis Date        | Analyst | Method   | Qualifier |
|-------------------------|--------|-------|-----|----------------------|---------|----------|-----------|
| Aroclor 1016 (PCB-1016) | ND     | ug/L  | 0.2 | 1/10/2019 7:32:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1221 (PCB-1221) | ND     | ug/L  | 0.2 | 1/10/2019 7:32:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1232 (PCB-1232) | ND     | ug/L  | 0.2 | 1/10/2019 7:32:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1242 (PCB-1242) | ND     | ug/L  | 0.2 | 1/10/2019 7:32:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1248 (PCB-1248) | ND     | ug/L  | 0.2 | 1/10/2019 7:32:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1254 (PCB-1254) | ND     | ug/L  | 0.2 | 1/10/2019 7:32:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1260 (PCB-1260) | ND     | ug/L  | 0.2 | 1/10/2019 7:32:00 PM | MAH     | EPA 8082 |           |
| PCB (total)             | ND     | ug/L  | 0.2 | 1/10/2019 7:32:00 PM | MAH     | EPA 8082 |           |

### Surrogate Data

|                           |               |               |                         |                       |
|---------------------------|---------------|---------------|-------------------------|-----------------------|
| <b>Sample Number</b>      | 181220043-001 | <b>Method</b> | <b>Percent Recovery</b> | <b>Control Limits</b> |
| <b>Surrogate Standard</b> |               | EPA 8082      | 75.8                    | 30-130                |
| DCB                       |               |               |                         |                       |

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 COEUR D'ALENE, ID 83815  
**Attn:** SVL ANALYTICAL, INC.

**Batch #:** 181220043  
**Project Name:** SVL #X8L0393

## Analytical Results Report

|                         |                       |                        |            |                           |                     |
|-------------------------|-----------------------|------------------------|------------|---------------------------|---------------------|
| <b>Sample Number</b>    | 181220043-002         | <b>Sampling Date</b>   | 12/18/2018 | <b>Date/Time Received</b> | 12/20/2018 11:06 AM |
| <b>Client Sample ID</b> | STATION 2 (BELLERIVE) | <b>Sampling Time</b>   | 8:03 AM    | <b>Extraction Date</b>    | 12/24/2018          |
| <b>Matrix</b>           | Water                 | <b>Sample Location</b> | X8L0393-02 |                           |                     |
| <b>Comments</b>         |                       |                        |            |                           |                     |

| Parameter               | Result | Units | PQL | Analysis Date        | Analyst | Method   | Qualifier |
|-------------------------|--------|-------|-----|----------------------|---------|----------|-----------|
| Aroclor 1016 (PCB-1016) | ND     | ug/L  | 0.2 | 1/10/2019 7:51:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1221 (PCB-1221) | ND     | ug/L  | 0.2 | 1/10/2019 7:51:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1232 (PCB-1232) | ND     | ug/L  | 0.2 | 1/10/2019 7:51:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1242 (PCB-1242) | ND     | ug/L  | 0.2 | 1/10/2019 7:51:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1248 (PCB-1248) | ND     | ug/L  | 0.2 | 1/10/2019 7:51:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1254 (PCB-1254) | ND     | ug/L  | 0.2 | 1/10/2019 7:51:00 PM | MAH     | EPA 8082 |           |
| Aroclor 1260 (PCB-1260) | ND     | ug/L  | 0.2 | 1/10/2019 7:51:00 PM | MAH     | EPA 8082 |           |
| PCB (total)             | ND     | ug/L  | 0.2 | 1/10/2019 7:51:00 PM | MAH     | EPA 8082 |           |

## Surrogate Data

|                           |               |               |                         |                       |
|---------------------------|---------------|---------------|-------------------------|-----------------------|
| <b>Sample Number</b>      | 181220043-002 | <b>Method</b> | <b>Percent Recovery</b> | <b>Control Limits</b> |
| <b>Surrogate Standard</b> |               | EPA 8082      | 81.0                    | 30-130                |
| DCB                       |               |               |                         |                       |

Authorized Signature

  
 Todd Taruscio, Lab Manager

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**Attn:** SVL ANALYTICAL, INC.

**Batch #:** 181220043  
**Project Name:** SVL #X8L0393

## Analytical Results Report Quality Control Data

### Lab Control Sample

| Parameter   | LCS Result | Units | LCS Spike | %Rec | AR %Rec | Prep Date  | Analysis Date |
|-------------|------------|-------|-----------|------|---------|------------|---------------|
| PCB (total) | 9.29       | ug/L  | 10        | 92.9 | 30-130  | 12/24/2018 | 1/10/2019     |

### Lab Control Sample Duplicate

| Parameter   | LCSD Result | Units | LCSD Spike | %Rec  | %RPD | AR %RPD | Prep Date  | Analysis Date |
|-------------|-------------|-------|------------|-------|------|---------|------------|---------------|
| PCB (total) | 10.3        | ug/L  | 10         | 103.0 | 10.3 | 0-50    | 12/24/2018 | 1/10/2019     |

### Method Blank

| Parameter               | Result | Units | PQL | Prep Date  | Analysis Date |
|-------------------------|--------|-------|-----|------------|---------------|
| Aroclor 1016 (PCB-1016) | ND     | ug/L  | 0.2 | 12/24/2018 | 1/10/2019     |
| Aroclor 1221 (PCB-1221) | ND     | ug/L  | 0.2 | 12/24/2018 | 1/10/2019     |
| Aroclor 1232 (PCB-1232) | ND     | ug/L  | 0.2 | 12/24/2018 | 1/10/2019     |
| Aroclor 1242 (PCB-1242) | ND     | ug/L  | 0.2 | 12/24/2018 | 1/10/2019     |
| Aroclor 1248 (PCB-1248) | ND     | ug/L  | 0.2 | 12/24/2018 | 1/10/2019     |
| Aroclor 1254 (PCB-1254) | ND     | ug/L  | 0.2 | 12/24/2018 | 1/10/2019     |
| Aroclor 1260 (PCB-1260) | ND     | ug/L  | 0.2 | 12/24/2018 | 1/10/2019     |
| PCB (total)             | ND     | ug/L  | 0.2 | 12/24/2018 | 1/10/2019     |