

**POST FALLS HIGHWAY DISTRICT  
STORM WATER MANAGEMENT PROGRAM**



**2016 ANNUAL REPORT**

Storm Water Discharges from Small Municipal Separate Storm Sewer Systems

Permit Effective Dates: January 1, 2009 - December 31, 2013  
Currently Operating Under an Administrative Extension

**Prepared by:**

**Ruen-Yeager & Associates, Inc.  
3201 N. Huetter Road, Suite 102  
Coeur d'Alene, Idaho 83814**

## A. PERMITTEE INFORMATION

**Permit Number:** IDS-028193

**Permittee:** Post Falls Highway District (PFHD)

**Mailing Address:** East 5629 Seltice Way

**City, State, and Zip Code:** Post Falls, Idaho 83854

**Phone Number:** (208) 765-3717

Have any areas been added to the MS4 due to annexation or other legal means? YES **NO**  
(If yes, include updated map.)

**B. REPORTING PERIOD:** January 1, 2016 to December 31, 2016

## C. STATUS OF STORM WATER MANAGEMENT PROGRAM

### 1. **Public Education and Outreach:**

#### a. *General summary of accomplishments to date:*

A mail out was distributed in 2016 to residents who front District rights-of-way where the MS4 is present. A revised mail out was developed in 2015 to attract new interest from the recipients. The mail out contains information about Healthy Household Habits for Clean Water and was produced specifically for the District's MS4. A total of 115 flyers were mailed. A copy of the flyer and the mailing list are attached in Appendix A.

PFHD has a partnership with the Panhandle Stormwater & Erosion Education Program (SEEP). PFHD has contributed \$1900 to SEEP to date. PFHD displays SEEP brochures at its office and the SEEP trailer is periodically located at its office to serve as advertisement for the program. SEEP field manuals are distributed with utility permits. PFHD maintenance staff members maintain SEEP certification. PFHD has 16 maintenance staff that are SEEP certified. See Appendix A for PFHD Staff Seep Certification List.

PFHD's website has posted the NPDES MS4 Permit and the Annual Reports. The website received 3,671 total hits in 2016.

PFHD joined the City of Coeur d'Alene, Lakes Highway District, and East Side Highway District in supporting "Trees for the Earth - Earth Day Celebration" on April 24, 2016. This open to the public forum provided exhibits in a fun, educational, and informational setting to educate local residents and visitors how to protect and preserve the environment 365 days per year. This included storm water demonstrations, "Get Involved Booths", crafts and egg hunts, and outreach events for adults and children. See Appendix A for event advertisement and photos of the event.

PFHD also supported the multi-jurisdictional Silverwood Science and Physics Days on May 18 & 19, 2016 at Silverwood Theme Park in Athol, Idaho. This is an event focused on middle school students and incorporates educational competitions including learning

about the aquifer, storm water to ground water connections, environmental science, engineering, and construction skills. This event included IDEQ, the City of Coeur d’Alene, Post Falls Highway District, Lakes Highway District, and East Side Highway District. See Appendix A for advertisement of this event.

The PFHD also supported the City of Coeur d’Alene’s efforts to distribute the “Storm Drain Dan” coloring book to children to foster an awareness of the connection between storm water and waters of the US.

The PFHD in cooperation with the City of Coeur d’Alene, Lakes Highway District, and East Side Highway District participated in two daylong storm water presentations on May 9 & 10, 2016 during “Idaho Water Awareness Week” to Ramsey Elementary Students at the City of Coeur d’Alene Wastewater Treatment Plant.

The PFHD in cooperation with the City of Coeur d’Alene, Lakes Highway District, and East Side Highway District participated in the “Adventure Learning Teachers’ Stormwater Workshop” for High School Teachers at the Harbor Learning Center to provide information to incorporate cleaner stormwater projects and learning opportunities into their curriculum.

PFHD, along with Lakes Highway District and East Side Highway District are actively involved in the Regional Water Quality Public Educators Work Group whose goal is to develop a community wide collaborative efforts for public education shared opportunities, access to shared resource materials, collaboration on a regional branding, and a better public education accomplishment for all agencies involved.

*b. An evaluation of compliance with the requirements of this permit, the appropriateness of identified BMPs, and progress toward achieving identified measurable goals of the SWMP:*

Prior to receiving Notice of Violation from EPA sent March 14, 2012, PFHD believed its partnership with SEEP was the most efficient and effective way of implementing a public education and outreach program. The Notice recommended “a more targeted outreach to specific audiences (e.g. residences along PFHD’s storm sewer system)”. The PFHD participated in the local storm water coalition meeting and sent engineering representatives to work on joint alternative storm water treatment demonstration project concepts. PFHD believes the “Healthy Household Habits for Clean Water” mail out completes our requirements and brings us into compliance.

*c. Results of information collected and analyzed during the previous 12-month reporting period, including storm water discharge data, surface water monitoring data, and any other information used to assess the success of the program at reducing the discharge of pollutants to the maximum extent practicable:*

Six (6) pieces of storm water related literature were distributed to the general public at the District’s office in 2011.

Fifteen (15) pieces of storm water related literature were distributed to the general public at the District’s office in 2012.

Ten (10) pieces of storm water related literature were distributed to the general public at the District’s office in 2013.

Fifteen (15) pieces of storm water related literature were distributed to the general public at the District's office in 2014.

Six (6) pieces of storm water related literature were distributed to the general public at the District's office in 2015.

Five (5) pieces of storm water related literature were distributed to the general public at the District's office in 2016.

*A summary of the number and nature of inspections and formal enforcement actions performed:*

Not applicable for this control measure.

*d. A general summary of the activities the permittee will undertake during the next reporting cycle (including an implementation schedule) for each minimum control measure:*

PFHD will do the following during the 2017 calendar year:

- Continue staff training for illicit discharge detection and reporting, and proper maintenance procedures.
- Approve Associated Highway District Standard changes to support working with partners to jointly address MS4/NPDES issues through implementation of District Standard policies.
- Mail a storm water-related flyer or provide similar information to residences along the MS4.
- Make additional contributions to SEEP if needed and continue to participate in SEEP sponsored events.
- Continue involvement in the Regional Water Quality Public Educators Work Group.
- Development of an Interpretive Sign that was co-sponsored by Post Falls Highway District, Lakes Highway District, and East Side Highway District as part of the Cleaner. Water. Faster. grant won by the University of Idaho to develop an Interpretive Trail for public education.
- Continue to participate in additional educational open houses, school presentations, and teacher presentations regarding storm water pollution prevention and other related topics with local agencies and the general public.
- Continue to distribute SEEP BMP field manuals with utility permits.
- Maintain and continue to update the display of relevant storm water literature at its office and keep track of how many of each piece of literature is distributed. Include educational information regarding illicit discharge.
- Update links to its SWMP information and other sources of storm water related information on its web site.
- Develop either a video or audio PSA for public airing.



*e. Proposed changes to the SWMP, including changes to any BMPs or any identified measurable goals for any minimum control measures since previous report or permit application:*

The SWMP was reviewed and no changes were proposed or implemented in 2016.

*f. Notice if the permittee is relying on another entity to satisfy some of the permit obligations, if applicable.*

Not applicable.

## **2. Public Involvement/Participation:**

*a. General summary of accomplishments to date:*

PFHD has not held any meetings for the specific purpose of discussing storm water management but continues to hold its regular public meetings. PFHD has attended MS4 coordination meetings for the Coeur d'Alene Urbanized Area on the following dates:

- 2/9/11
- 3/29/11
- 3/29/12

Attendees for these meeting have included representatives from Lakes Highway District, City of Coeur d'Alene, City of Post Falls, ITD, and EPA.

PFHD's website has been updated to include all relevant SWMP documents and the 2016 Annual Reports.

*b. An evaluation of compliance with the requirements of this permit, the appropriateness of identified BMPs, and progress toward achieving identified measurable goals of the SWMP:*

PFHD has provided applicable public notice requirements and web site updates to achieve compliance with permit requirement II.B.2.b.

*c. Results of information collected and analyzed during the previous 12-month reporting period, including storm water discharge data, surface water monitoring data, and any other information used to assess the success of the program at reducing the discharge of pollutants to the maximum extent practicable:*

No information collected.

*d. A summary of the number and nature of inspections and formal enforcement actions performed:*

Not applicable for this control measure.

*e. A general summary of the activities the permittee will undertake during the next reporting cycle (including an implementation schedule) for each minimum control measure:*

PFHD will do the following during the 2017 calendar year:

- Continue to attend any MS4 coordination meetings.
- Participate in the SEEP Partnership with the University of Idaho.
- Update its website with information relevant to the SWMP as it becomes available.
- Participate in and/or sponsor one multi-jurisdictional Environmental Open House, Earth Day Celebration and/or Science and Physics Fair.

*f. Proposed changes to the SWMP, including changes to any BMPs or any identified measurable goals for any minimum control measures since previous report or permit application:*

None.

*g. Notice if the permittee is relying on another entity to satisfy some of the permit obligations, if applicable.*

Not applicable.

### **3. Illicit Discharge Detection and Elimination:**

*a. General summary of accomplishments to date:*

The PFHD has completed its MS4 map. The map was updated to reflect new culverts observed along Schilling Loop during dry weather screening. It has also completed a Spill Response Plan as part of its SWMP. An EPA flier regarding illicit discharge has been made available to the public at the District office. PFHD maintenance staff attended a joint training session that included illicit discharge education with Lakes Highway District and East Side Highway District on November 29, 2016. The training session included a presentation by the District's consulting engineer, Laura Winter, regarding MS4 areas, BMPs, and Illicit Discharge Detection and Elimination. This included a question and answer session, an interactive Power Point presentation on outfall protection, maintenance, and good housekeeping, and included Rain Check Stormwater Videos.

No illicit discharge was detected. In addition, the Road Supervisor and his assistant continue to monitor the MS4 for illicit discharge during their routine maintenance rounds.

#### **2016 Dry Weather Screening Activities**

Dry weather screening was conducted by Ruen-Yeager Engineering Staff on August 29 & 30, 2016 on all the District's outfalls. We noted the following as provided in the "Preliminary Dry Weather Monitoring Report" Field Report in Appendix B:

1. Two (2) Outfalls had active flow
  - Outfall Number 4 had a flow described as less than 1 gallon per minute without any unusual deposits, vegetation, or conditions.
  - Outfall Number 8 had a flow described as 8 – 10 gallons per minute without any unusual deposits, vegetation, or conditions.

2. No samples were collected.
3. No observations of illicit discharges were noted.
4. Photos were taken of all outfalls except Outfalls Number 7, 12, 15, 18, 19, 20, 22, and 23 due to either location on private property or difficulty accessing.

It has been determined that there are no industrial facilities that discharge into the District's MS4.

No updates to the PFHD MS4 Map were performed in 2016.

- b. An evaluation of compliance with the requirements of this permit, the appropriateness of identified BMPs, and progress toward achieving identified measurable goals of the SWMP:*

PFHD believes that it is in compliance to the best of its ability. PFHD is not able to adopt an illicit discharge ordinance because it does not have authority but will work with Kootenai County, EPA, and IDEQ for correction of observed illicit discharges.

- c. Results of information collected and analyzed during the previous 12-month reporting period, including storm water discharge data, surface water monitoring data, and any other information used to assess the success of the program at reducing the discharge of pollutants to the maximum extent practicable:*

See "Preliminary Dry Weather Monitoring Report" in Appendix B.

- d. A summary of the number and nature of inspections and formal enforcement actions performed:*

Nothing to report.

- e. A general summary of the activities the permittee will undertake during the next reporting cycle (including an implementation schedule) for each minimum control measure:*

PFHD will do the following during the 2017 calendar year:

- Visually monitor the MS4 area during routine maintenance rounds.
- Screen all outfalls during July-October in accordance with the Dry Weather Screening Plan. Conduct additional screening in spring and fall during maintenance and monitoring.
- Document and report detected illicit discharges to Kootenai County, EPA and IDEQ in accordance with the Spill Response Plan.

- f. Proposed changes to the SWMP, including changes to any BMPs or any identified measurable goals for any minimum control measures since previous report or permit application:*

No changes.

- g. Notice if the permittee is relying on another entity to satisfy some of the permit obligations, if applicable.*

Not applicable.

**4. Construction Site Storm Water Runoff Control:**

*a. General summary of accomplishments to date:*

The PFHD is aware of the NPDES Construction General Permit and complies with permit requirements for its own projects. PFHD will also assist with review & monitoring of private construction projects that discharge to its MS4. PFHD continues its public education and outreach program through a partnership with SEEP in order to meet its requirements for distributing information to local construction site operators.

*b. An evaluation of compliance with the requirements of this permit, the appropriateness of identified BMPs, and progress toward achieving identified measurable goals of the SWMP:*

PFHD believes it is in compliance to the best of the District's ability. PFHD does not have ordinance authority but will notify Kootenai County and EPA if it becomes aware of potential violations of the Construction General Permit and/or the Kootenai County Site Disturbance Ordinance.

*c. Results of information collected and analyzed during the previous 12-month reporting period, including storm water discharge data, surface water monitoring data, and any other information used to assess the success of the program at reducing the discharge of pollutants to the maximum extent practicable:*

Nothing to report.

*d. A summary of the number and nature of inspections and formal enforcement actions performed:*

Nothing to report.

*e. A general summary of the activities the permittee will undertake during the next reporting cycle (including an implementation schedule) for each minimum control measure:*

PFHD will do the following during the 2017 calendar year:

- Continue to develop, discuss with the Associated Highway District supervisors and commissioners, and adopt when finalized the NPDES related standards approved for inclusion in the next Associated Highway Districts of Kootenai County Highway Standards
- Comply with CGP requirements for PFHD constructed projects.
- Review erosion control plans as part of its review process for private projects under PFHD jurisdiction.
- As part of the road inspection process for new private projects, ensure that the appropriate level of erosion control is in place during construction.

- Educate staff on construction storm water discharges and direct staff to keep an eye on construction storm water discharges from private projects during road maintenance activities and maintenance rounds.
- Document and report to EPA and Kootenai County any detected illegal construction storm water discharges.
- The District will track approach and utility permits within the MS4 and at the time of permit issuance will distribute information regarding storm water BMPs to those projects located in the MS4.

*f. Proposed changes to the SWMP, including changes to any BMPs or any identified measurable goals for any minimum control measures since previous report or permit application:*

No changes to the SWMP are anticipated.

*Notice if the permittee is relying on another entity to satisfy some of the permit obligations, if applicable.*

Not applicable.

## **5. Post-Construction Storm Water Management in New Development and Redevelopment:**

*a. General summary of accomplishments to date:*

Ordinances are already in place through Kootenai County, the City of Post Falls and the City of Coeur d'Alene that require post-construction storm water controls for significant private construction projects in PFHD's jurisdiction. PFHD design and construction practices have historically followed the principals of the ordinances. PFHD maintains all drainage facilities within its right-of-way and provides plan review of post-construction storm water designs for projects within its jurisdiction.

*b. An evaluation of compliance with the requirements of this permit, the appropriateness of identified BMPs, and progress toward achieving identified measurable goals of the SWMP:*

The PFHD developed and implemented storm water erosion control Best Management Practices in the execution of PFHD projects in the area. PFHD has made every effort to maintain compliance through the placement, planning, and maintenance of these BMPs which has resulted in no erosion, no sedimentation and no impact conditions.

*c. Results of information collected and analyzed during the previous 12-month reporting period, including storm water discharge data, surface water monitoring data, and any other information used to assess the success of the program at reducing the discharge of pollutants to the maximum extent practicable:*

Nothing to report.

*d. A summary of the number and nature of inspections and formal enforcement actions performed:*

Nothing to report.

*e. A general summary of the activities the permittee will undertake during the next reporting cycle (including an implementation schedule) for each minimum control measure:*

PFHD will do the following during the 2017 calendar year:

- Continue efforts to advocate NPDES standards to be included in the Associated Highway Districts Highway Standards.
- Continue to follow local storm water management design principles for PFHD constructed projects.
- Provide installation inspection of storm water controls for private projects within the right-of-way and those facilities off the right-of-way that discharge to the MS4.
- Continue maintaining all drainage facilities within the right-of-way.
- Monitor private storm water facilities off the right-of-way that discharge to the MS4. Notify the owner and/or appropriate regulatory entity if the facility is not being maintained or is not functioning properly.

*f. Proposed changes to the SWMP, including changes to any BMPs or any identified measurable goals for any minimum control measures since previous report or permit application:*

None.

*g. Notice if the permittee is relying on another entity to satisfy some of the permit obligations, if applicable.*

Not applicable.

## **6. Pollution Prevention and Good Housekeeping for Municipal Operations:**

*a. General summary of accomplishments to date:*

Operation and Maintenance procedures to protect storm water runoff have been formalized into a text document as part of the SWMP. PFHD maintenance staff attended a training session on February 1, 2012, December 4, 2013, December 22, 2014, December 11, 2015, and November 29, 2016. Included in Appendix C are the sign-in attendance sheets for the training and a copy of the presentation.

O&M has been improved through constant training on the Highway District's winter maintenance and snow removal policy. The District will continue to sweep the gutters in the MS4 area this winter as weather permits.

*b. An evaluation of compliance with the requirements of this permit, the appropriateness of identified BMPs, and progress toward achieving identified measurable goals of the SWMP:*

The O&M procedures have been developed and the District believes this is adequate to cover the requirement for a Stormwater Pollution Prevention Plan for its maintenance facility. The training session fulfills requirement II.B.6.b.

*c. Results of information collected and analyzed during the previous 12-month reporting period, including storm water discharge data, surface water monitoring data, and any other information used to assess the success of the program at reducing the discharge of pollutants to the maximum extent practicable:*

Nothing to report.

*d. A summary of the number and nature of inspections and formal enforcement actions performed:*

Nothing to report.

*e. A general summary of the activities the permittee will undertake during the next reporting cycle (including an implementation schedule) for each minimum control measure:*

PFHD will do the following during the 2017 calendar year:

- Conduct another training session for PFHD employees in 2017 on good housekeeping, bmps, and illicit discharge detection.
- Send additional staff members to SEEP certification classes.

*f. Proposed changes to the SWMP, including changes to any BMPs or any identified measurable goals for any minimum control measures since previous report or permit application:*

None.

*g. Notice if the permittee is relying on another entity to satisfy some of the permit obligations, if applicable.*

Not applicable.

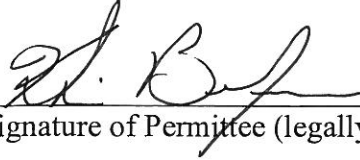
#### **D. REQUIRED DOCUMENTS AND REPORTS**

1. Storm Water Management Plan is posted on the website.
2. MS4 Map is posted on the website.
3. Public Education & Outreach Documents are attached in Appendix A.
4. 2016 Dry Weather Screening Report is attached in Appendix B.
5. Record of attendance and copy of presentation for PFHD Staff Training is included in Appendix C.

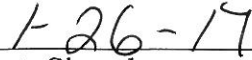
#### **E. CERTIFICATION**

“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 gathered and evaluated 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.”



Signature of Permittee (legally responsible person)



Date Signed

*Kelvin Brownsberger, Road Supervisor*  
Name & Title (printed)



## **Appendix A**



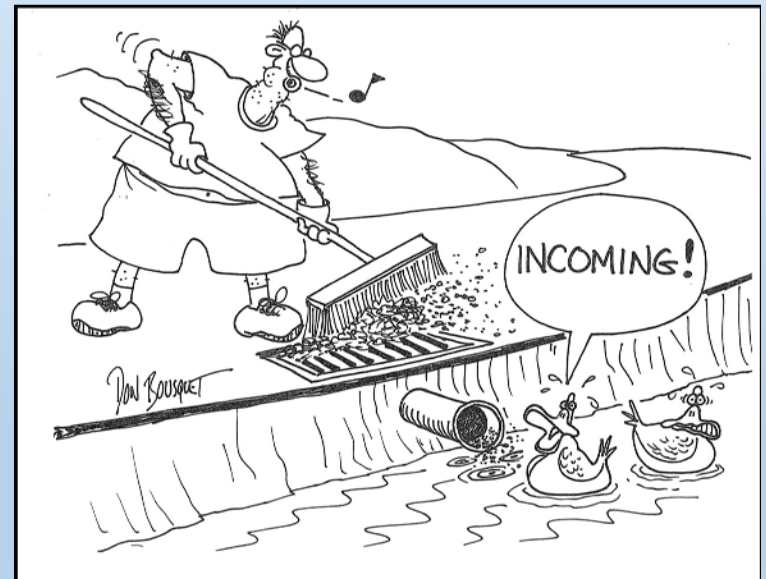
Post Falls Highway District  
5629 E. Seltice Way  
Post Falls, Idaho 83854

## *Did you know?*

The United States Environmental Protection Agency regulates the Post Falls Highway District's stormwater discharges through a permit.

The permit requires the District to inform the public about stormwater pollution and how to prevent it.

The Permit also requires the District to monitor discharges from roadside ditches and storm drains.



For more information, visit [www.postfallshd.com](http://www.postfallshd.com)

## HOW CAN YOU HELP PREVENT STORMWATER POLLUTION?

As stormwater flows over driveways, lawns, and roadways, it picks up debris, chemicals, dirt, and other pollutants. Polluted runoff is the nation's greatest threat to clean water.



***STORMWATER  
FROM YOUR AREA  
FLOWS INTO THE  
SPOKANE RIVER  
UNTREATED.***

By practicing healthy household habits, homeowners can keep common pollutants like pesticides, pet waste, grass clippings, and automotive fluids off the ground and out of stormwater.



## HEALTHY HOUSEHOLD HABITS FOR CLEAN WATER

### Vehicle and Garage

- Use a commercial car wash or wash your car on your lawn to minimize the amount of dirty, soapy water flowing into the river.
- Check your car, boat, and lawn equipment for leaks and spills. Clean up spilled fluids with an absorbent material like kitty litter or sand, and don't rinse the spills into a storm drain.
- Recycle used oil and other automotive fluids. Don't dump these chemicals down the storm drain or dispose of them in your trash. Visit [kcgov.us/departments/solid waste](http://kcgov.us/departments/solid%20waste) or call 208-446-1430 for disposal information.



### Lawn and Garden

- Use pesticides and fertilizers sparingly. Avoid application before rain.
- Sweep up yard debris, rather than hosing down areas.
- Don't overwater your lawn.

### Home Improvement

- Sweep up and properly dispose of construction debris such as concrete and mortar.
- Use hazardous substances like paints, solvents, and cautiously. Clean up spills immediately, and dispose of the waste safely.
- Clean paint brushes in a sink, not outdoors.



### Pet Care

- When walking your pet, remember to pick up the waste and dispose of it properly.

HUMPHREY, JEFFERY C  
3839 E 17<sup>TH</sup> AVENUE  
SPOKANE, WA 99223

SCHAEFER, RICHARD JAMES  
311 S LOWER CRYSTAL BAY RD  
POST FALLS ID 83854

SUSAN LONGDEN SURVIVORS  
TRUST  
361 S LOWER CRYSTAL BAY RD  
POST FALLS, ID 83854

CARLSON, NATALIE L  
459 S LOWER CRYSTAL BAY RD  
POST FALLS ID 83854

CAYKO, ROD  
475 S LOWER CRYSTAL BAY RD  
POST FALLS, ID 83854

HOAG, CHARLES  
527 S LOWER CRYSTAL BAY RD  
POST FALLS ID 83854

MCKITTRICK, WALLIS  
500 S LOWER CRYSTAL BAY RD  
POST FALLS, ID 83854

JAMES C GEORGE AND VALERIE J  
GEORGE  
11309 W CRYSTAL BAY RD  
POST FALLS ID 83854

LITSCHESKI, MICHAEL  
11351 W CRYSTAL BAY RD  
POST FALLS ID 83854

PALMER, ANN M  
11381 W CRYSTAL BAY RD  
POST FALLS ID 83854

BOURASSA, CRAIG A  
11417 W CRYSTAL BAY RD  
POST FALLS ID 83854

SPRUTE, GAYLE M  
246 S LOWER CRYSTAL BAY RD  
POST FALLS ID 83854

CMF 323 NORTH OAK FAMILY  
PTSHP  
547 S LOWER CRYSTAL BAY RD  
POST FALLS, ID 83854

WILKINSON, KENNETH A  
3680 W SELTICE WAY # B  
POST FALLS, ID 83854

DETAR, THOMAS  
3135 S SCHILLING LOOP  
POST FALLS ID 83854

DETAR, THOMAS  
994 S PENNY LN  
POST FALLS, ID 83854

BASSLER, RAYMOND  
1031 S PENNY LN  
POST FALLS ID 83854

PROCK, ARTHUR  
1079 S PENNY LN  
POST FALLS ID 83854

HANKES, MATTHEW BEIER  
4273 S SCHILLING LOOP  
POST FALLS ID 83854

EVANS, STEPHEN  
943 S PENNY LN  
POST FALLS ID 83854

SNIDER, LYLE  
962 S PENNY LN  
POST FALLS ID 83854

COLLINS, TRACY  
887 S PENNY LN  
POST FALLS ID 83854

WHEELER DENNIS E  
4289 S SCHILLING LOOP  
POST FALLS ID 83854

SULLIVAN ERRIN M  
4375 S SCHILLING LOOP  
POST FALLS ID 83854

KLEMO, KEITH  
927 S PENNY LN  
POST FALLS ID 83854

STEINER MICHAEL D  
847 S PENNY LN  
POST FALLS ID 83854

MAYO, R  
825 S PENNY LN  
POST FALLS ID 83854

BRONSTEIN, CHERIE  
4419 S SCHILLING LOOP  
POST FALLS ID 83854

COHEN, CODY  
787 S PENNY LN  
POST FALLS ID 83854

MATTHEW AND ANDREA SMITH  
LIVING TRUST  
2346 S COMET TRL  
POST FALLS ID 83854

TOWNE, ROBIN  
767 S PENNY LN  
POST FALLS ID 83854

SLCK COMMERCIAL PROPERTIES  
LLC  
737 S PENNY LN  
POST FALLS ID 83854

WALSH, JASON D  
2322 S COMET TRL  
POST FALLS ID 83854

GRANT, PAMELA  
691 S PENNY LN  
POST FALLS ID 83854

RICHARDS, DONALD E  
2253 S COMET TRL  
POST FALLS ID 83854

READ, LEONARD W  
525 S PENNY LN  
POST FALLS ID 83854

PAULITZ, GREGORY  
547 S PENNY LN  
POST FALLS ID 83854

HAWLEY, STACY L  
567 S PENNY LN  
POST FALLS ID 83854

MONTY R AND DEANNA L MURPHY  
655 S PENNY LN  
POST FALLS ID 83854

GOECKNER, CHRIS  
808 S PENNY LN  
POST FALLS ID 83854

CONRAD, GEORGE  
752 S PENNY LN  
POST FALLS ID 83854

DALE THOMAS AND GAIL M  
WORDEN LIVING TRUST  
706 S PENNY LN  
POST FALLS ID 83854

MUSCH, BRAD  
678 S PENNY LN  
POST FALLS ID 83854

LEWIS, JAMES  
652 S PENNY LN  
POST FALLS, ID 83854

HUNDRUP, JARED C  
622 S PENNY LN  
POST FALLS, ID 83854

IRELAT LLC  
608 S PENNY LN  
POST FALLS ID 83854

COLEMAN, PENELOPE  
594 S PENNY LN  
POST FALLS ID 83854

QUINCY, GARY J  
572 S PENNY LN  
POST FALLS ID 83854

LYBARGER, JUANITA  
562 S PENNY LN  
POST FALLS ID 83854

STAPLETON, RICHARD E  
14332 W RIVERVIEW DR  
POST FALLS ID 83854

JACOBS, CYNTHIA  
14104 W RIVERVIEW DR  
POST FALLS ID 83854

HINTHORNE, DEBORAH L  
12465 W RIO VISTA PL  
POST FALLS ID 83854

KARWOSKI, TIMOTHY  
12456 W RIO VISTA PL  
POST FALLS ID 83854

ROBERT AND GALENDA FRANKLIN  
LIVING TRUST  
12413 W RIO VISTA PL  
POST FALLS ID 83854

GALE, KEVIN L  
12383 W RIO VISTA PL  
POST FALLS ID 83854

GRACE INVESTMENTS LLC  
12355 W RIO VISTA PL  
POST FALLS, ID 83854

ELTON AND PATRICIA WEEKS  
LIVING TRUST  
14195 W RIVERVIEW DR  
POST FALLS ID 83854

RINKAVAGE, THOMAS  
14155 W RIVERVIEW DR  
POST FALLS, ID 83854

LEBO, MICHAELE  
PO BOX 2494  
POST FALLS, ID 83877

HYATT, REX A  
1099 S SPOKANE ST  
POST FALLS ID 83854

BROWNLEE, VICKIE  
1063 S SPOKANE ST  
POST FALLS ID 83854

ELLISON, WILLIAM J  
11992 W SPAN WAY  
POST FALLS ID 83854

JOHNSON, RICHARD  
PO BOX 2288  
POST FALLS, ID 83877

BOOKAMER, KENNETH  
12524 W HUGHES LN  
POST FALLS ID 83854

GINGRICH, HEATHER L  
12174 W HUGHES LN  
POST FALLS, ID 83854

BARNETT, JEFFREY  
12173 W HUGHES LN  
POST FALLS ID 83854

SEVERANCE, MARK  
12190 W PARKVIEW DR  
POST FALLS ID 83854

GETCHIUS, THOMAS H  
12191 W PARKVIEW DR  
POST FALLS ID 83854

HUNTER, RONALD  
12190 W PARK LN  
POST FALLS ID 83854

DENNIS 2004 TRUST  
740 S SPOKANE ST  
POST FALLS, ID 83854

DILLON, MARGIE L  
12189 W PARK LN  
POST FALLS ID 83854

HOFFMAN, ROBERT C  
12259 W SPAN WAY  
POST FALLS ID 83854

WILHELM FAMILY TRUST  
12021 W RIVERVIEW DR  
POST FALLS ID 83854

FISHER, JAMES  
11947 W RIVERVIEW DR  
POST FALLS ID 83854

METCALF, KEITH A  
11917 W RIVERVIEW DR  
POST FALLS, ID 83854

DECKER FAMILY TRUST  
PO BOX 2127  
SPOKANE, WA 99210

ROCCA, JAMES  
11843 W RIVERVIEW DR  
POST FALLS ID 83854

STIGER, ROBERT  
11831 W RIVERVIEW DR  
POST FALLS ID 83854

FOWLER, CECIL  
PO BOX 2127  
POST FALLS, ID 83877

NELSON, EARL  
11755 W RIVERVIEW DR  
POST FALLS, ID 83854

RIVERVIEW GROUP LLC  
11745 W RIVERVIEW DR  
POST FALLS, ID 83854

FOWLER, GARRY  
11717 W RIVERVIEW DR  
POST FALLS ID 83854

HILL, DEBBIE S  
11663 W RIVERVIEW DR  
POST FALLS, ID 83854

JARA, FRANCISCO  
11637 W RIVERVIEW DR  
POST FALLS, ID 83854

PHILMAR CORPORATION  
11607 W RIVERVIEW DR  
POST FALLS ID 83854

GROLLMUS, JOHN  
11593 W RIVERVIEW DR  
POST FALLS ID 83854

SAMMY AND RAMONA STEPHENS  
LIVING TRUST  
11573 N RIVERVIEW DR  
POST FALLS ID 83854

WILLAMETTE VALLEY REAL  
PROPERTY LLC  
11555 W RIVERVIEW DR  
POST FALLS, ID 83854

PAULL, SHARON  
11523 W RIVERVIEW DR  
POST FALLS, ID 83854

BINGHAM, DWIGHT  
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POST FALLS ID 83854

WALTER AND GRACE SINGER  
TRUST  
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POST FALLS ID 83854

WILLIAMS, MICHAEL PAUL  
11437 W RIVERVIEW DR  
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ROSTIE, CHRISTOPHER  
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MELTON, JUDSON  
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POST FALLS ID 83854

TEFFT, LURENE M  
11309 W RIVERVIEW DR  
POST FALLS ID 83854

MATTIODA, SUZANNE  
PO BOX 361  
POST FALLS, ID 83877

VAN DYKE, STEVEN E  
11251 W RIVERVIEW DR  
POST FALLS, ID 83854  
PO BOX 315  
ROSALIA, WA 99170

RON AND KATHY ANDERSON  
FAMILY TRUST  
11189 W RIVERVIEW DR  
POST FALLS ID 83854

SILBERBERGER, CHARLES  
11171 W RIVERVIEW DR  
POST FALLS ID 83854

MAYFIELD, KENNETH G  
11151 W RIVERVIEW DR  
POST FALLS ID 83854

NECHANICKY, ROBERT  
11113 W RIVERVIEW DR  
POST FALLS ID 83854

HARMON FAMILY TRUST  
11075 W RIVERVIEW DR  
POST FALLS ID 83854

ZHONG, RUINIAN  
PO BOX 3115  
POST FALLS, ID 83877

BARTON, TIMOTHY W  
11013 W RIVERVIEW DR  
POST FALLS ID 83854

PATTERSON, JEAN  
10967 W RIVERVIEW DR  
POST FALLS, ID 83854

PETER AND VALERIE STOHL  
10982 W RIVERVIEW DR  
POST FALLS ID 83854

SCOGGIN, JEFF D  
11024 W RIVERVIEW DR  
POST FALLS ID 83854

BOWEN, AIMEE  
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POST FALLS ID 83854

CUSACK, RUTH A  
11102 W RIVERVIEW DR  
POST FALLS, ID 83854

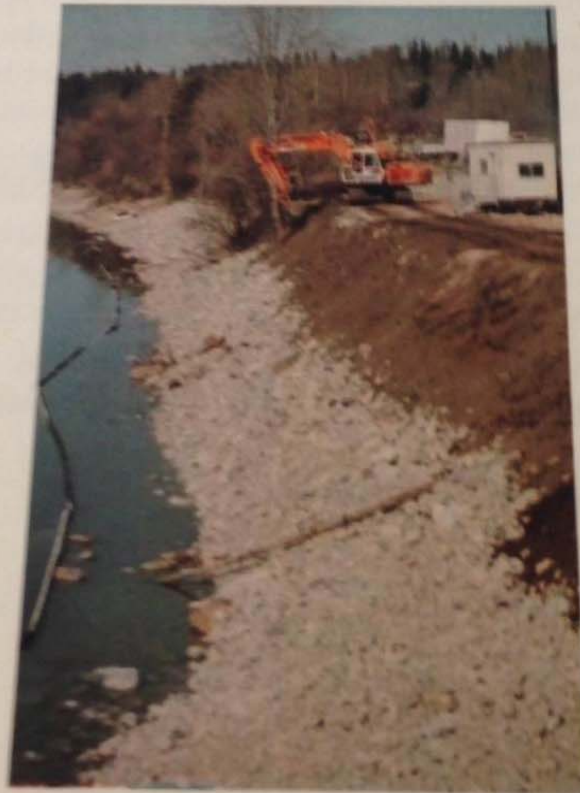
LEWIS, J  
11124 W RIVERVIEW DR  
POST FALLS ID 83854

LYON, JERRY C  
11142 W RIVERVIEW DR  
POST FALLS ID 83854





**North Idaho  
Stormwater  
Erosion &  
Sediment Control  
Field Guide**



**[www.PanhandleSEEP.org](http://www.PanhandleSEEP.org)**



POST FALLS HIGHWAY DISTRICT

5629 E SELTICE WAY, POST FALLS ID  
208-765-3717

| Last Name    | First Name | Expires    | Dates of Last Certifications |
|--------------|------------|------------|------------------------------|
| Crumb        | Brian      | 12/31/2017 | 2007, 2010, 2014             |
| Paulson      | Brian      | 12/31/2019 | 2013, 2016                   |
| Peterson     | Dan        | 12/31/2018 | March 2015; May 2011         |
| Verian       | Dave       | 12/31/2017 | 2014                         |
| Mael         | Ed         | 12/31/2017 | 2012, 2014                   |
| Prestegaard  | Eric       | 12/31/2017 | 2008, 2014                   |
| Wines        | James      | 12/31/2018 | March 2015; 2007, 2010       |
| Lupton       | Joshua     | 12/31/2019 | 2013, 2016                   |
| Brownsberger | Kelly      | 12/31/2019 | 2016                         |
| Howell       | Larry      | 12/31/2019 | 2013, 2016                   |
| Likes        | Les        | 12/31/2019 | 2016                         |
| Roberts      | Mark       | 12/31/2018 | March 2015; May 2012         |
| Monette      | Mike       | 12/31/2019 | 2007, 2012, 2016             |
| Neal         | Randy      | 12/31/2019 | Apr, 2008; 2016              |
| Shaffer      | Steve      | 12/31/2018 | March 2015; May 2011         |
| Mitley       | Travis     | 12/31/2018 | March 2015; 2007, 2012       |

# TREES

## For the Earth!

Earth Day Celebration 2016

Flash Mob Yoga @ 1:45

Birds of Prey Demonstration  
12:30 & 2:30

Fun Run @ 1:30

Live Music

Arts and Crafts

Educational Booths

Poetry Reading

The Traveling T

**FREE**  
**FUN FOR**  
**ALL AGES!**

**SUNDAY, APRIL 24<sup>TH</sup> · NOON-3PM**

Coeur D'Alene Public Library  
702 E. Front Avenue · Downtown

For more info, find us on  Facebook



Earth Day – April 24, 2016







[Rides & Attractions](#) [Park Info](#) [Admission](#) [Groups](#) [Contests & Fun](#)

[Events & Deals](#) [Lodging](#)

[May](#) [June](#) [July](#) [September](#) [October](#) [Special Deals](#)



### May Events & Deals

MOTHER'S DAY WEEKEND

SILVERWOOD ANNIVERSARY

GARFIELD SPECIAL

PHYS & SCI DAYS

AMERICAN HEROES



**Advance Reservation Required**

### Physics & Science Days

**May 18 & 19, 2016** - During Silverwood's annual Physics and Science Days, we turn our theme park into one of the world's most unique classrooms.

We've created an event where students can test the principles of physics and science for themselves using rides, games, and other attractions. They'll participate in educational competitions like the Amazing Egg Drop or the Coaster Building Contest, watch science-themed Discovery Channel movies, learn about the Aquifer at the DEQ Educational booth or at the new KSPS Public Television booth, and a whole lot more.

Each participating class receives a curriculum to use that includes instructions for contests and an engineering and construction skills test. Trophies and ribbons are awarded to the top 3 schools. The best overall school will win \$100 in cash. Book your trip now and give your students a day they'll never forget. Call (208) 683-3400 Ext. 3 for more information or to book your school group today. Open 10am to 5pm on Physics and Science Days.



Share



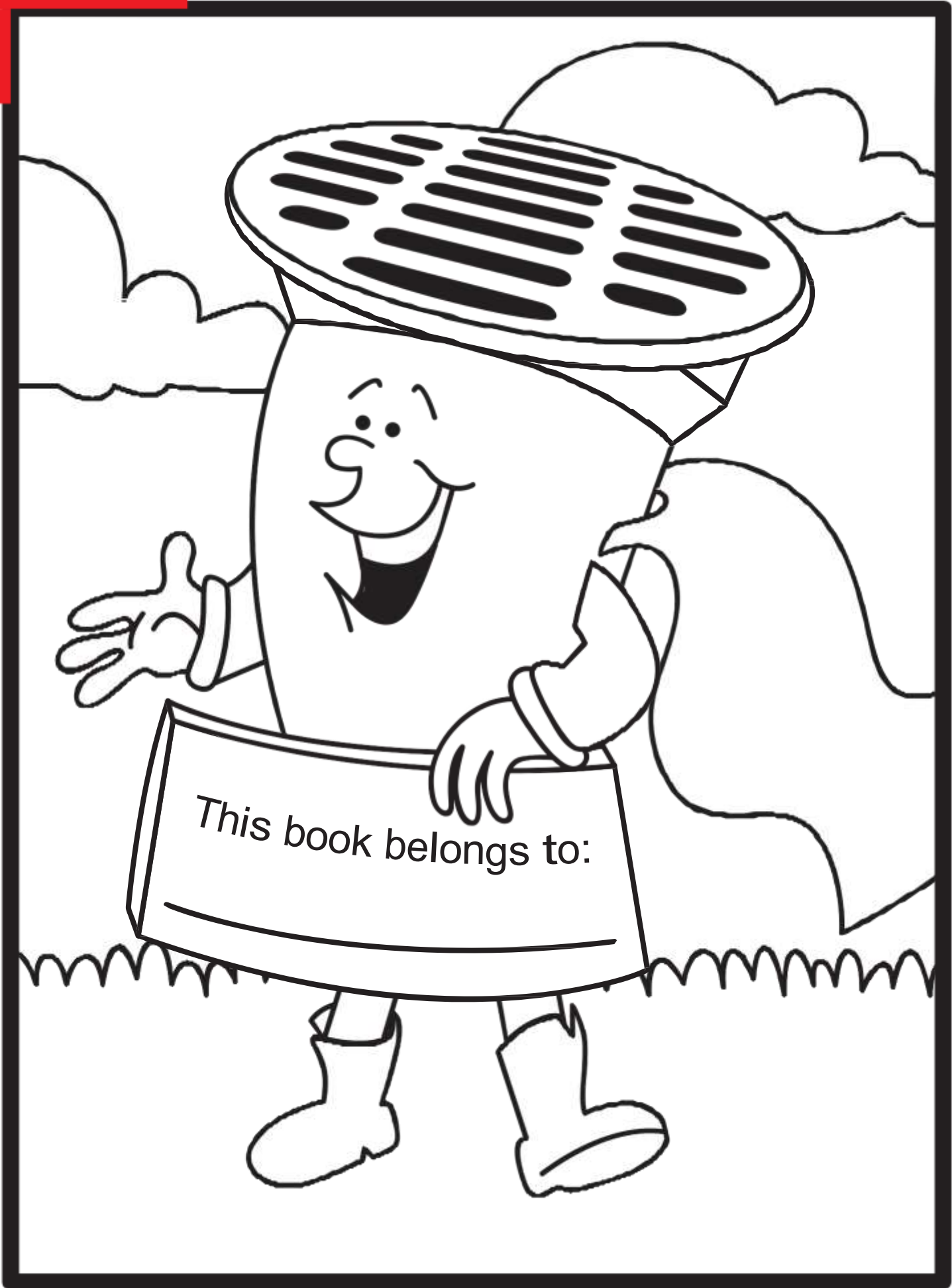
[SITEMAP](#) [FAQ](#) [PRIVACY](#) [CONTACT](#) [JOBS](#)

Hwy 95 North Idaho | (208) 683-3400 | [info@silverwoodthemepark.com](mailto:info@silverwoodthemepark.com)  
Copyright © 2007-2017 by Silverwood & Boulder Beach. All rights reserved.  
GARFIELD: © PAWS. All Rights Reserved...

# STORM DRAIN DAN



Adventures in Water Pollution Prevention!



This book belongs to:  
\_\_\_\_\_





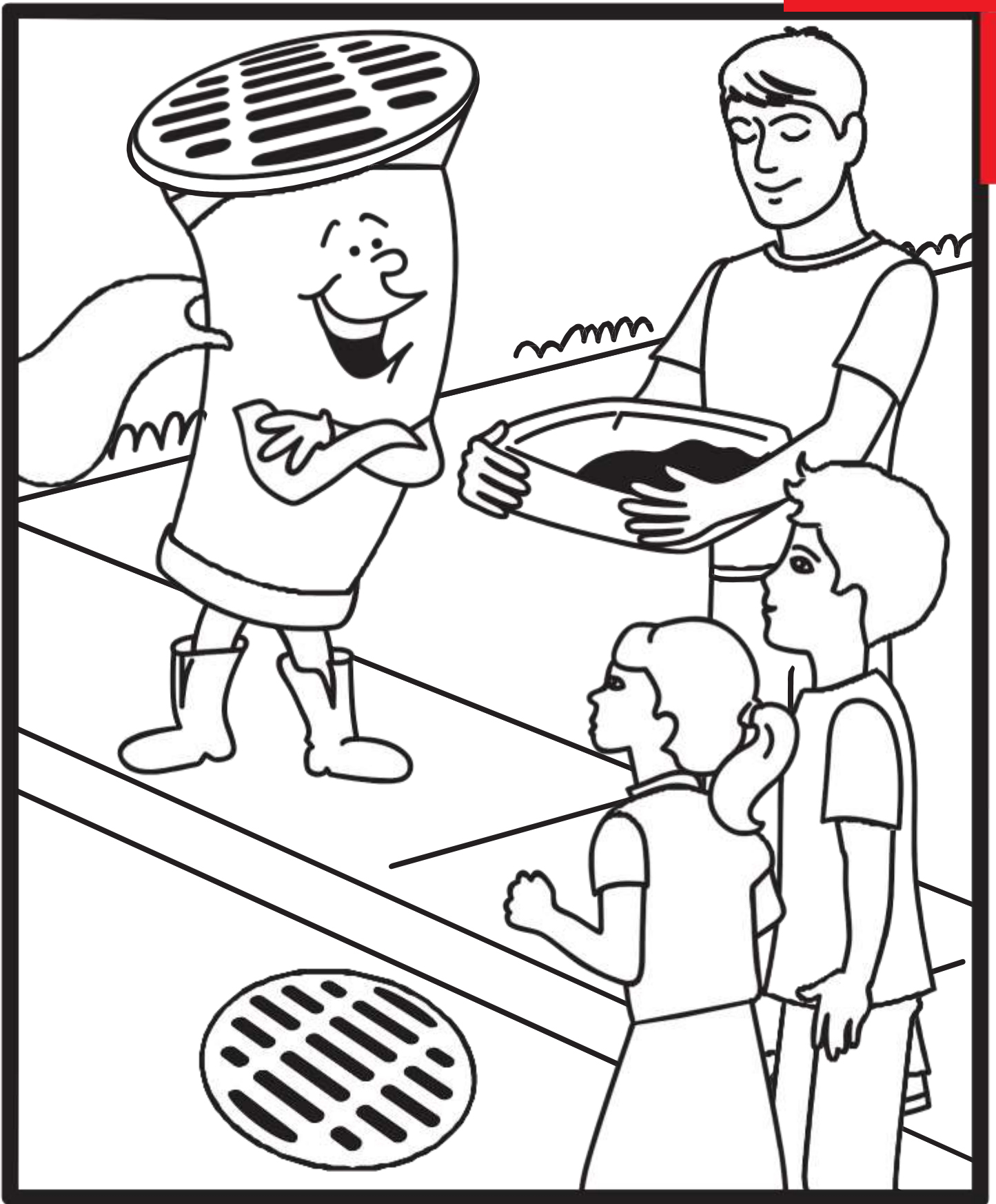
As Storm Drain Dan flies over a neighborhood, he spots a man changing the oil in his car.

“Boy, I sure hope he knows what to do with the used oil!” says Dan.



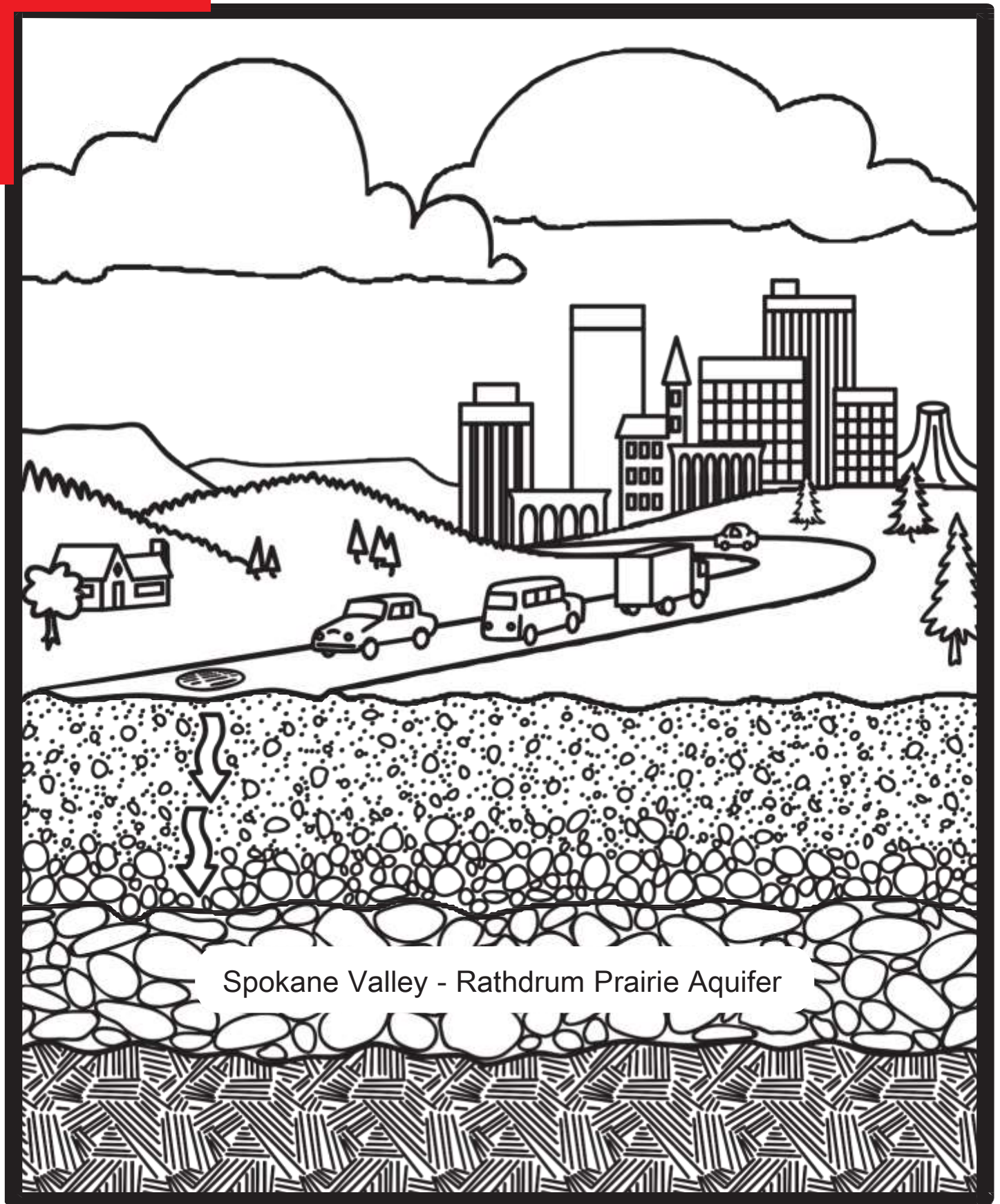


Cruising in for a landing, Storm Drain Dan says,  
“Excuse me, Sir. Please don’t pour that used oil into the storm drain.”



“Hi, Jody and Johnny!” says Dan.

“I was just going to tell your Dad about recycling that motor oil. Do either of you know what happens when things like used oil are dumped into a storm drain?”

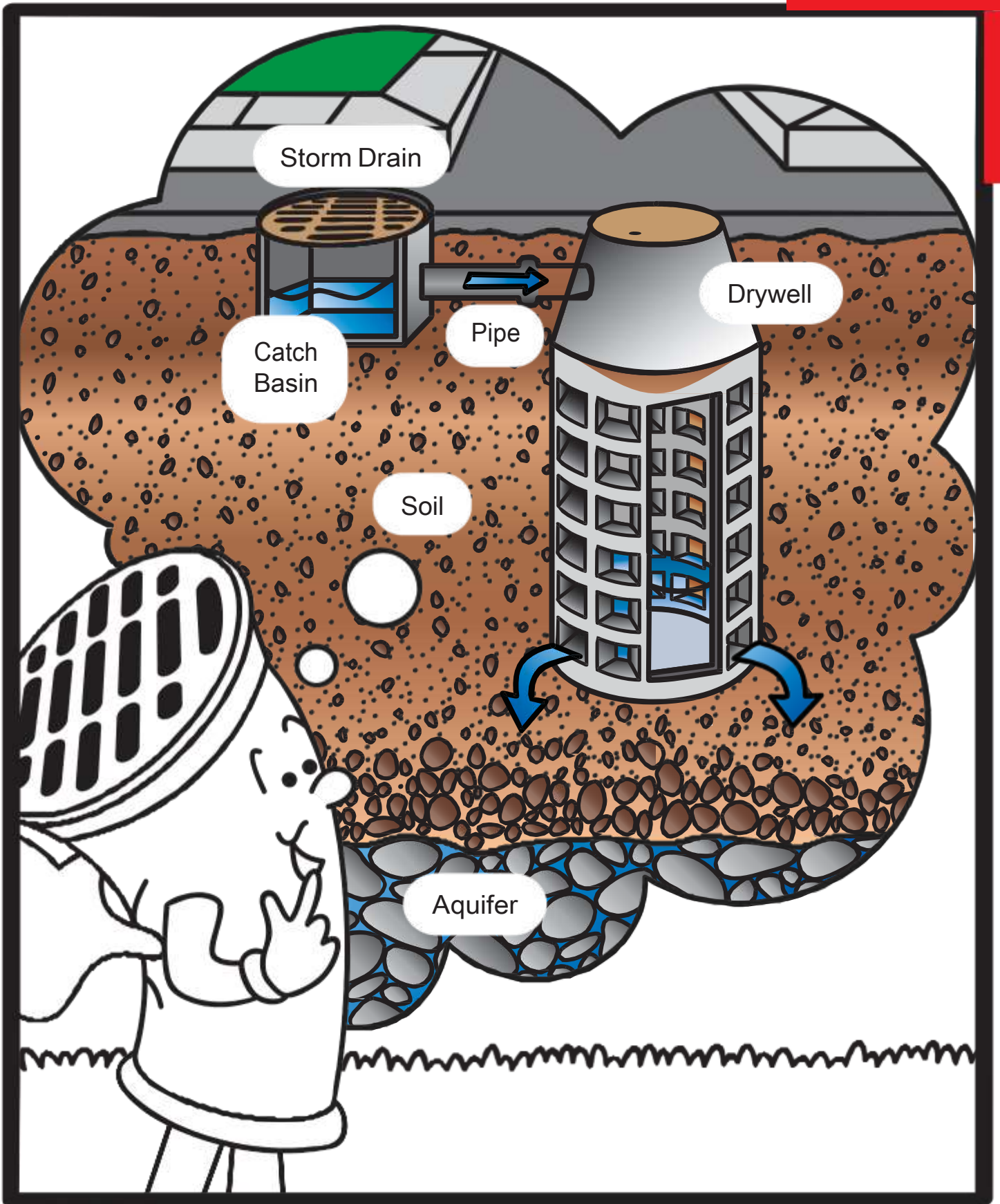


Spokane Valley - Rathdrum Prairie Aquifer

“Sure,” says Jody.

“Most storm drains infiltrate stormwater right into the ground to recharge the aquifer, and some drain right to our lakes and rivers.”

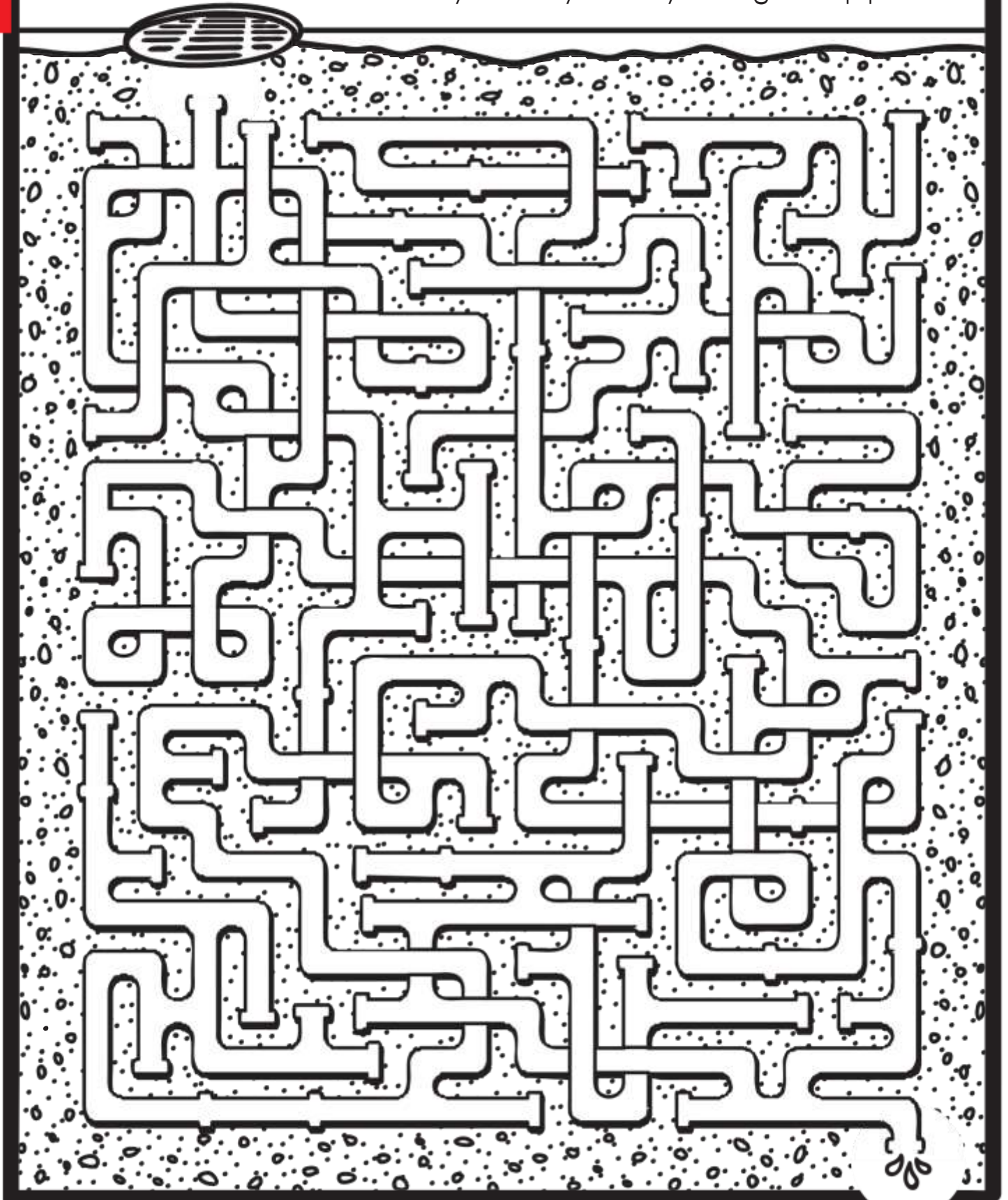




“Jody, you are absolutely right,” says Storm Drain Dan.

“This storm drain definitely isn’t connected to the sewer. Instead, the stormwater travels through pipes, drywells, and the soil before reaching the aquifer or a waterbody.”

Storm Drain Dan's  
A-maze-ing Stormwater Maze  
Can you find your way through the pipes?





“The pollution can infiltrate along with the stormwater to the aquifer and contaminate our drinking water,” Dan continues.

“Did you know it only takes 4 quarts of motor oil to pollute 1 MILLION gallons of water?”



# Storm Drains are for Rainwater Only - Pure and Simple.

Hidden in the puzzle below are words having to do with water or common types of water pollution, including motor oil. Remember to look up, down, across, backwards, and diagonally!

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H | S | A | R | T | S | I | B | I | M | S | E | U | P | J |
| T | S | T | O | R | M | W | A | T | E | R | L | A | E | V |
| M | U | N | O | I | T | U | L | L | O | P | P | V | T | T |
| E | Z | E | E | R | F | I | T | N | A | U | M | L | W | C |
| H | T | U | W | E | M | O | T | O | R | O | I | L | A | F |
| Y | H | N | F | U | O | D | N | E | P | L | S | E | S | F |
| R | E | Z | I | L | I | T | R | E | F | G | P | W | T | O |
| C | A | R | W | A | S | H | W | A | T | E | R | Y | E | N |
| S | E | C | Y | P | P | A | Q | U | I | F | E | R | C | U |
|   | T | Q | N | V | A | G | R | U | N | F | D | Q | R |   |



## WORD LIST

Storm Drain

Drywell

Aquifer

Stormwater

Runoff

Pollution

Motor Oil

Antifreeze

Car Wash Water

Trash

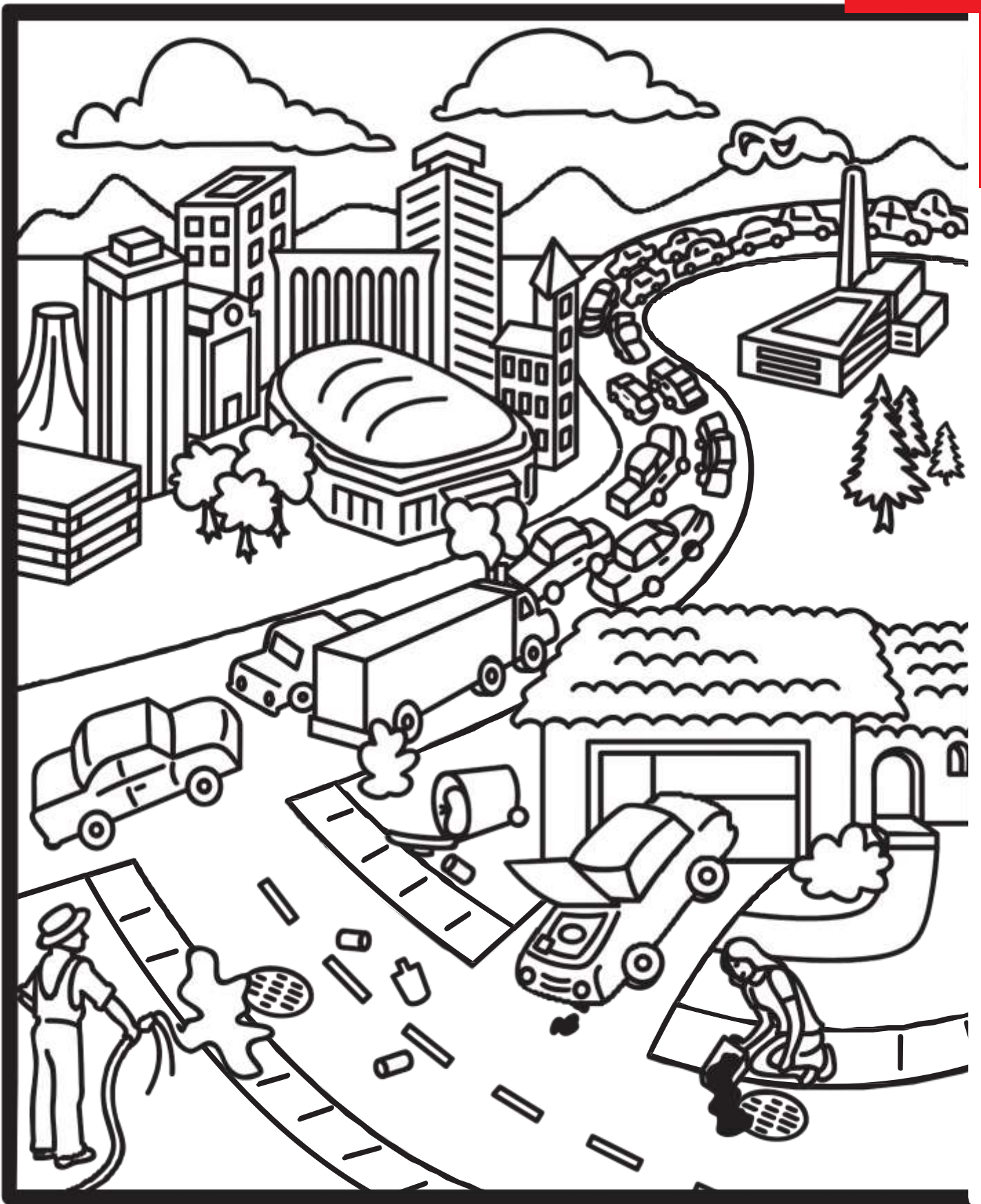
Pet Waste

Paint

Fertilizer

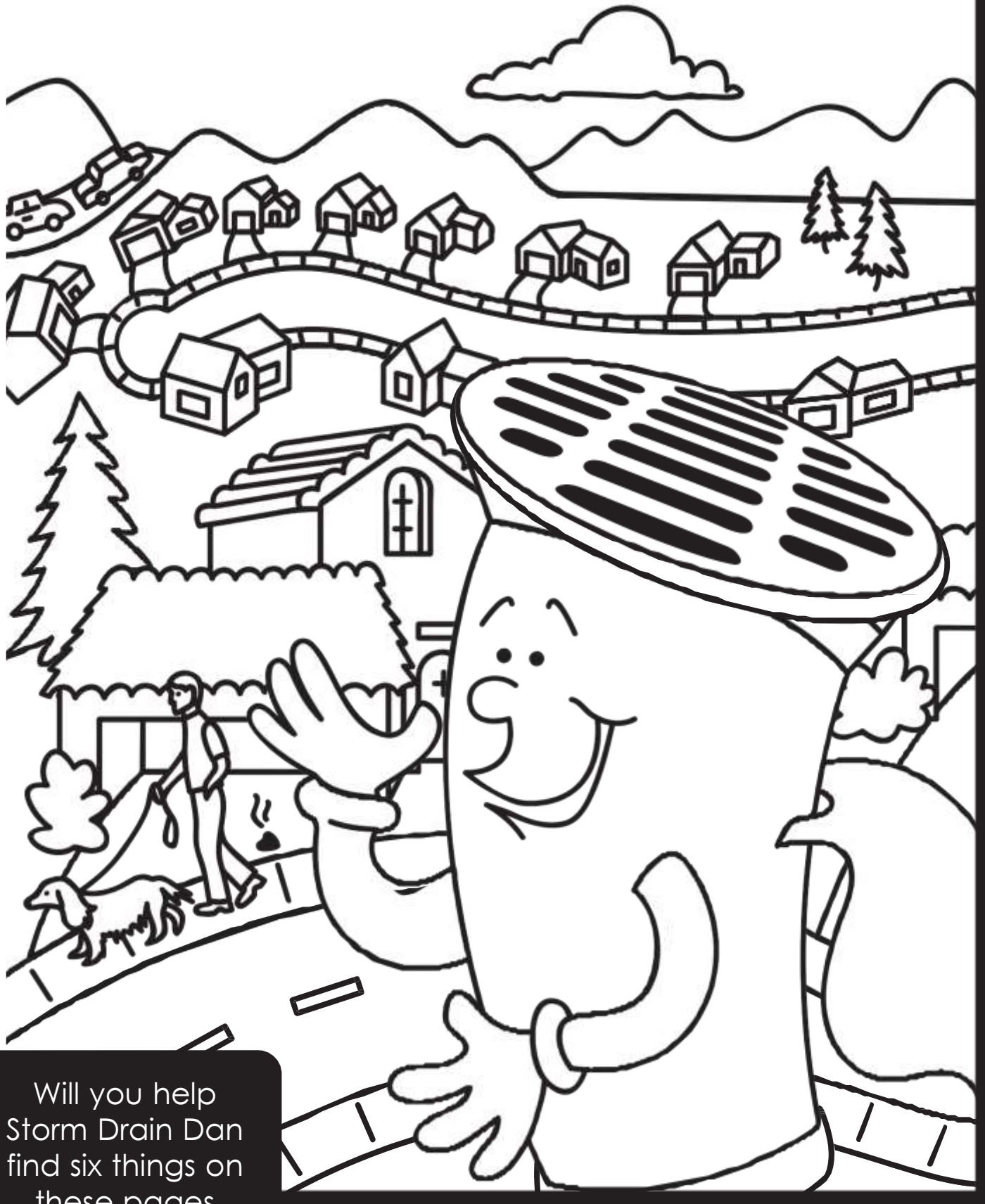
Pure

Simple



“It’s very important that we remember to keep our city clean!” Johnny says.





Will you help Storm Drain Dan find six things on these pages that can pollute water or air?

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_



“Now I know that recycling our used motor oil, antifreeze, and other chemicals will help keep them from polluting the environment and our aquifer,” says Dad.



“Hey, kids, let’s take the used oil to the auto parts store to be recycled!”

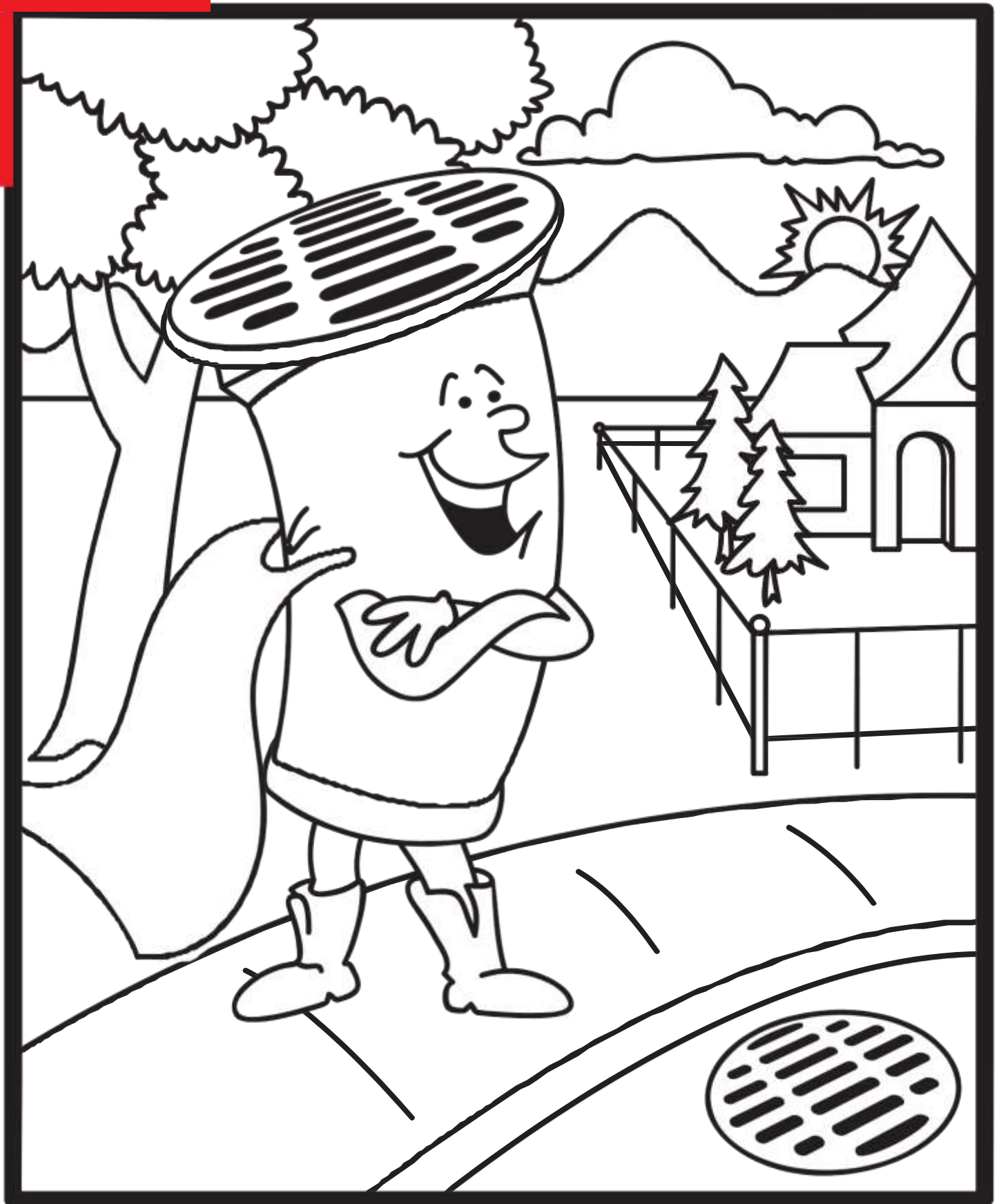
“After that, I’ll treat you both to some ice cream. Storm Drain Dan is right, we can make a difference just by changing simple behaviors at our own home.”





"Thanks for the ice cream, Dad!" says Jody.

"Storm Drain Dan is the protector of our storm drain system, and he sure is great."

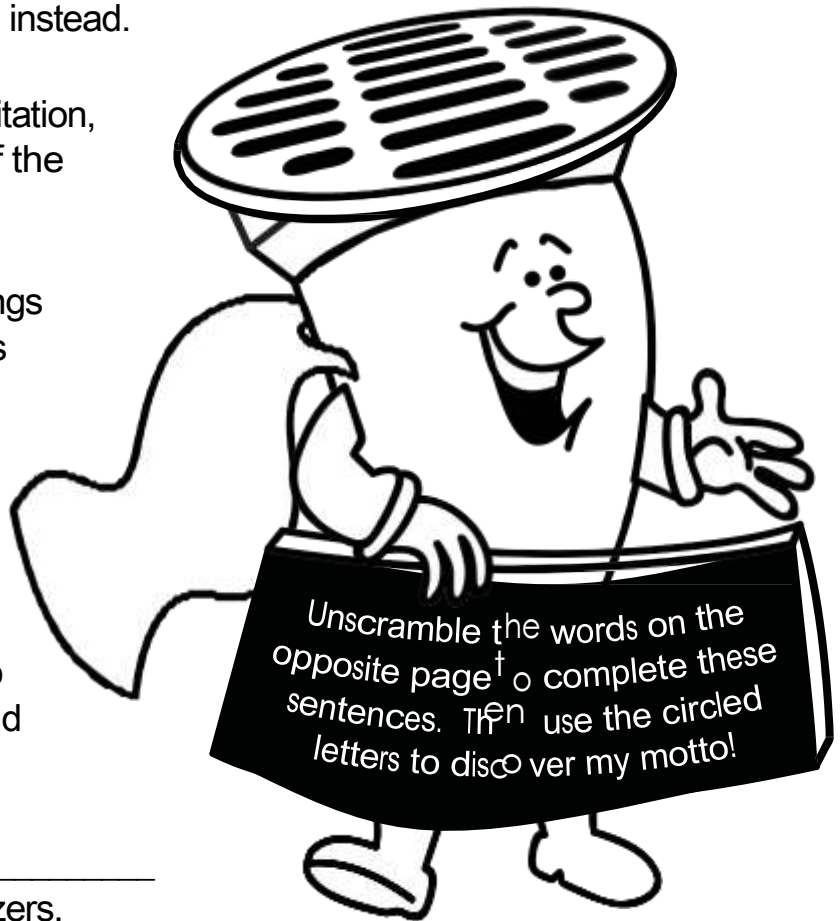


“Even one person can make a difference,” says Storm Drain Dan.  
“Remember, every living thing needs clean water. So, let’s all work together  
to keep the environment clean, especially stormwater, the aquifer and our  
lakes and rivers !

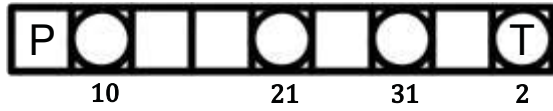
## Storm Drain Dan's

# WORD JUMBLE

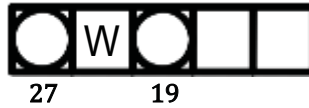
1. A substance that contaminates water is called a \_\_\_\_\_.
2. Instead of hosing down the driveway when it gets dirty, we should \_\_\_\_\_ instead.
3. Evaporation, condensation, precipitation, runoff, and infiltration are all parts of the water \_\_\_\_\_.
4. It's important to \_\_\_\_\_ things like motor oil, paint, and car batteries rather than throwing them away.
5. A natural fertilizer made up of decaying leaves, grass, and food scraps is called \_\_\_\_\_.
6. Stormwater that does not soak into the ground, but instead flows over land and roads is called \_\_\_\_\_.
7. Leaving grass clippings on the \_\_\_\_\_ reduces the need for chemical fertilizers.
8. An underground layer of rock, sand, or gravel that holds water.
9. Only rain should go down the storm \_\_\_\_\_.
10. Rainwater, snowmelt, or runoff from sprinklers that flows to a storm drain system.
11. "Even one person can make a \_\_\_\_\_."
12. Water that falls from the sky to the earth is called \_\_\_\_\_.
13. Drinking water is pumped up from our aquifer through one of these.



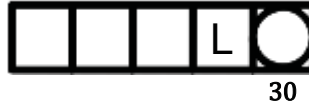
1. ANUTTLLLOP



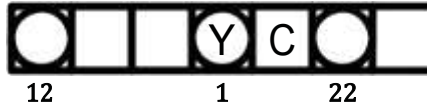
2. EPSEW



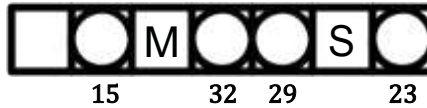
3. LCEYC



4. CCELERY



5. MTCOOSP



6. NFFUOR



7. WNLA



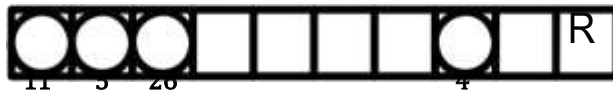
8. QFIUARE



9. INRAD



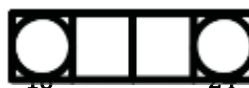
10. TOSRWTREMA



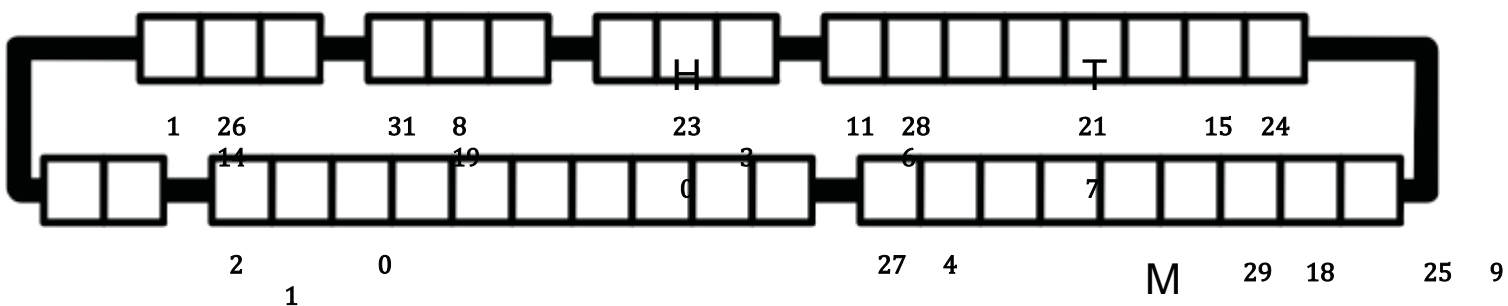
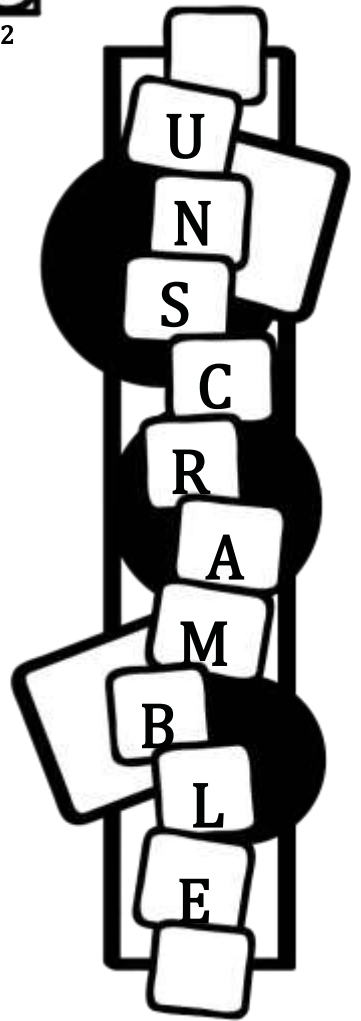
11. DEFEENRFIC



12. ARNI



13. LELW





“Storm Drain Dan, I know how I can make a difference!” says Johnny.  
“I’m going to stencil this storm drain to remind our neighbors that anything dumped in the street can end up polluting the aquifer.”



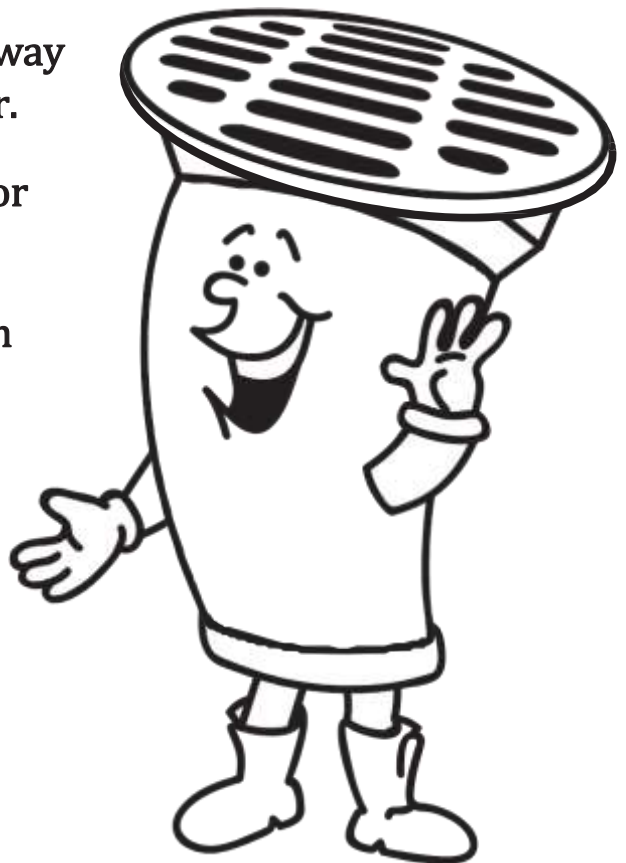
# Think You Can't Make a Difference Like Johnny? You Can!

## Just Take the Storm Drain Dan Clean Water Pledge.



Check at least one of the boxes that you will pledge to do in the next month that will help protect the environment and aquifer. When you've decided, sign and date the pledge at the bottom.

- I will not litter. I will put paper cups, cans, bottles, food wrappers, papers and all other trash into garbage cans or recycling bins.
- I will always carry a bag to clean up my dog's waste when I take him/her for walks at the park or around the neighborhood.
- When I help wash the family car at home, I will make sure the soapy water flows to my yard and not down the driveway into the street.
- I will pick up any grass clippings or leaves that fall into the street when I'm helping with yard work.
- I will use a broom to clean my driveway instead of hosing it down with water.
- I will use a refillable bottle or cup for my drinks whenever I can.
- I will turn off the faucet while I'm brushing my teeth.
- I will remember that only rain should go down storm drains.



\_\_\_\_\_  
My Signature

\_\_\_\_\_  
Date



Storm Drain Dan is a concrete storm drain pipe who magically came to life one day. He wants to help everyone in Spokane County understand how important it is to keep our storm drains, aquifer, and environment clean.

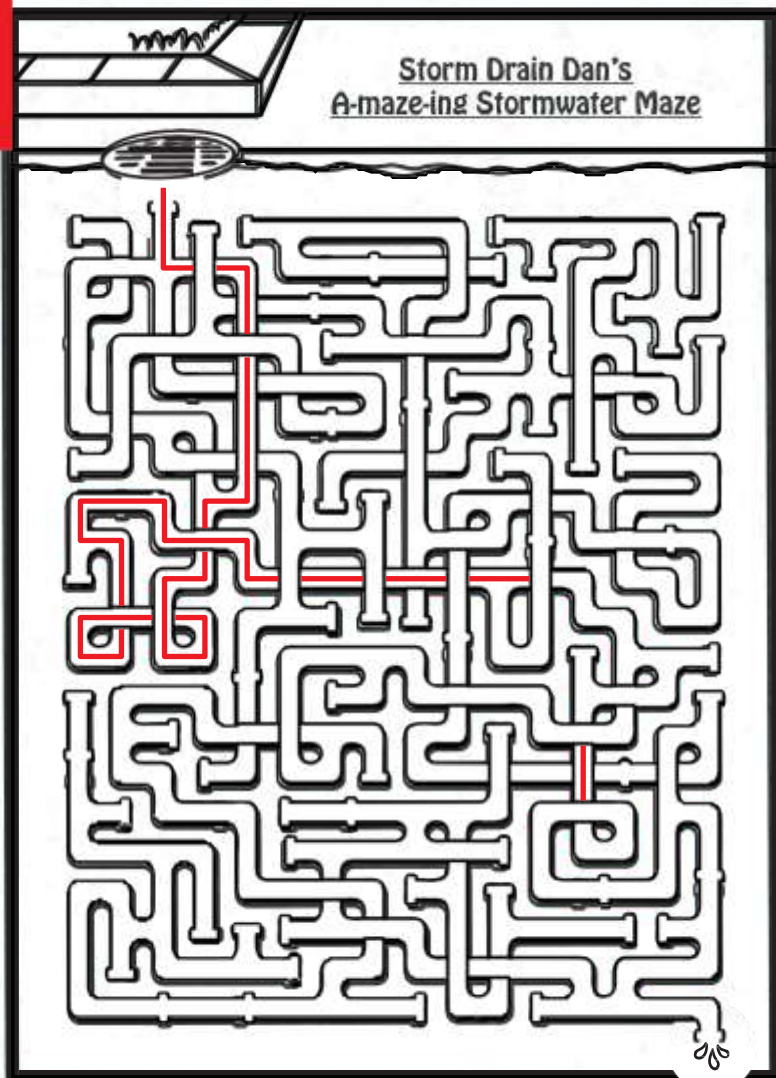
As Storm Drain Dan flies overhead, his telescopic vision (binoculars) allows him to keep an eye on the things you and I do every day. He looks for people who dump trash or oil into the street, don't clean up after their pets, don't use fertilizer or weed killers the proper way, and lots more!

Please help Storm Drain Dan plug up polluters by doing your part to keep trash and chemicals out of streets and storm drains.

Remember, Storm Drain Dan says...

“You are the solution to stormwater pollution!”

# Answer Key:



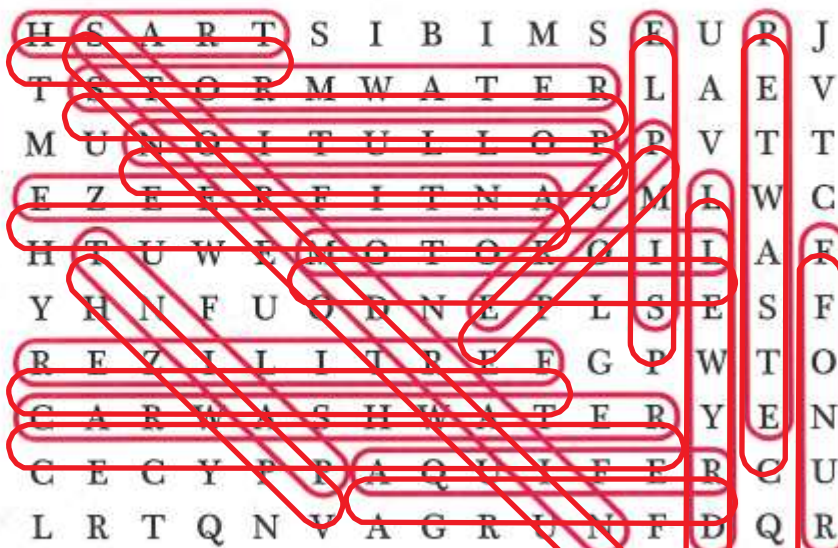
## Word Jumble

1. A substance that contaminates water is called a **pollutant**.
2. Instead of hosing down the driveway when it gets dirty, we should **sweep** instead.
3. Evaporation, condensation, precipitation, runoff, and infiltration are all parts of the water **cycle**.
4. It's important to **recycle** things like motor oil, paint, and car batteries rather than throwing them away.
5. A natural fertilizer made up of decaying leaves, grass, and food scraps is called **compost**.
6. Stormwater that does not soak into the ground, but instead flows over land and roads is called **runoff**.
7. Leaving grass clippings on the **lawn** reduces the need for chemical fertilizers.
8. An underground layer of rock, sand, or gravel that holds water. **Aquifer**
9. Only rain should go down the storm **drain**.
10. Rainwater, snowmelt, or runoff from sprinklers that flows to a storm drain system. **Stormwater**
11. "Even one person can make a **difference**."
12. Water that falls to the earth is called **rain**.
13. Drinking water is pumped up from our aquifer through one of these. **Well**

## Storm Drain Dan's Motto

YOU ARE THE SOLUTION  
TO STORMWATER POLLUTION!

## Storm Drain Dan's Word Search

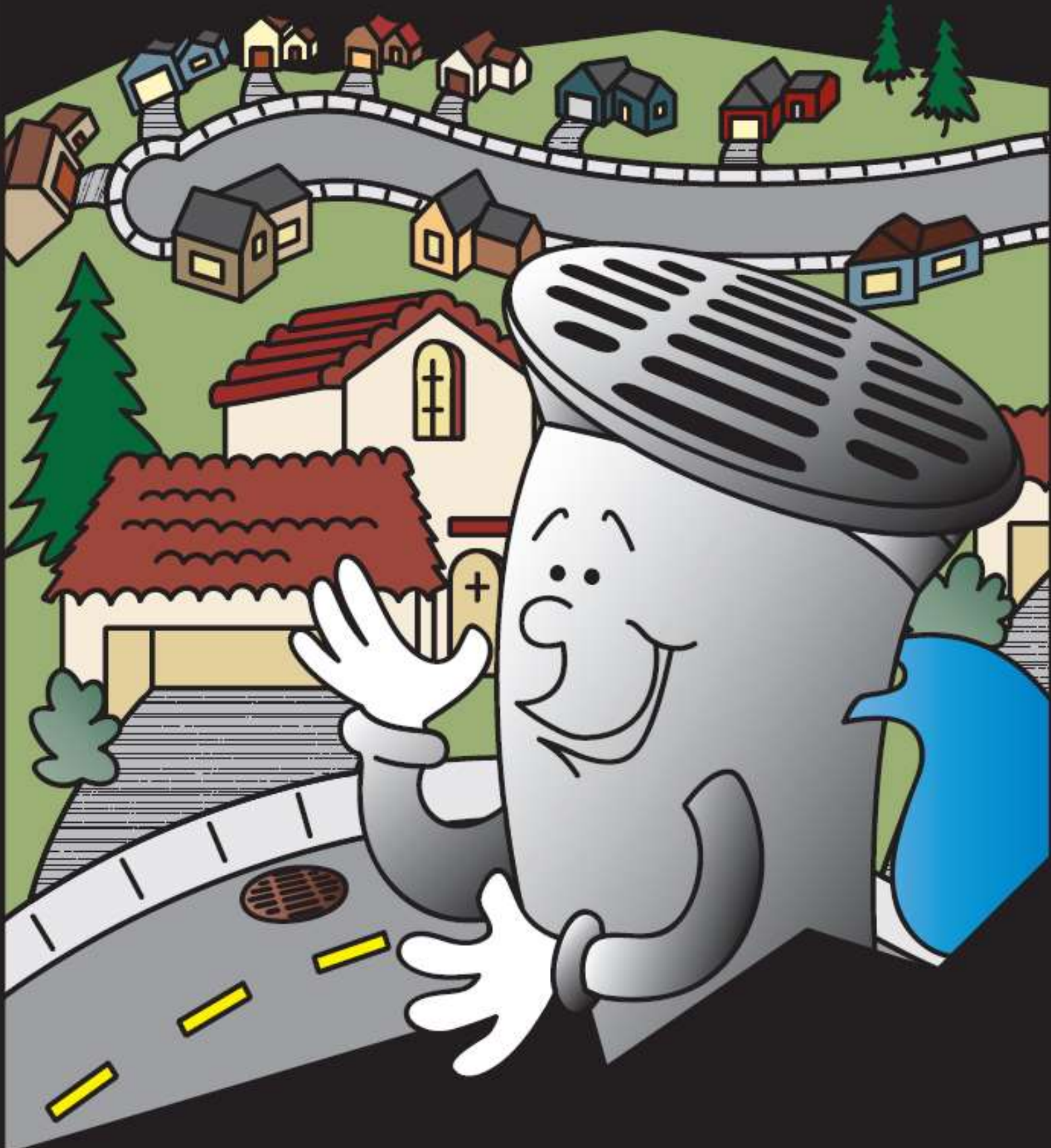


## Find the Pollution

1. Man washing the sidewalk instead of sweeping it;
2. Lady dumping container of liquid into the storm drain;
3. Car leaking oil or antifreeze into the street;
4. Garbage in the street;
5. Garbage can tipped over with garbage spilling out (garbage should be tied up in a bag!);
6. Factory smokestack polluting the air;
7. Too much traffic/car exhaust; and
8. Man not carrying a pooper-scooper to pick up after his dog.



Visit our website for more information! [www.cdavid.org](http://www.cdavid.org)  
To report someone dumping trash or chemicals into a storm drain,  
street, or swale, contact the City of Coeur d'Alene at:  
769-2300 or City Hotline 676-7405.



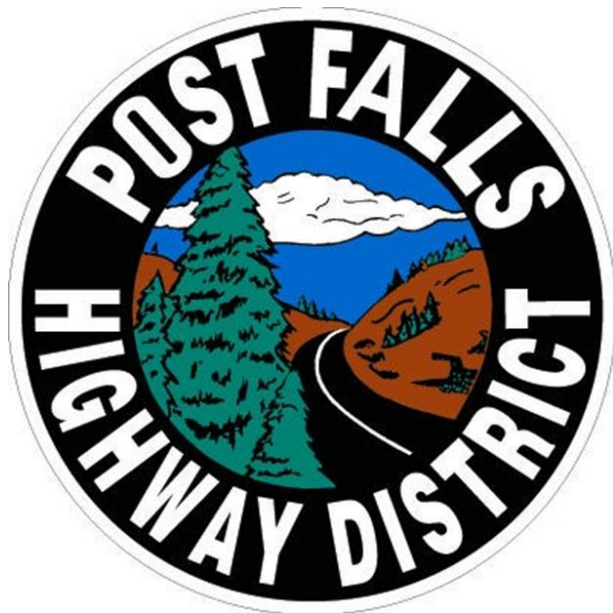


# STORMWATER MANAGEMENT





Laura Winter, P.E.,CFM



Kim Harrington, Assistant  
Project Manager





# ***Stormwater Management***







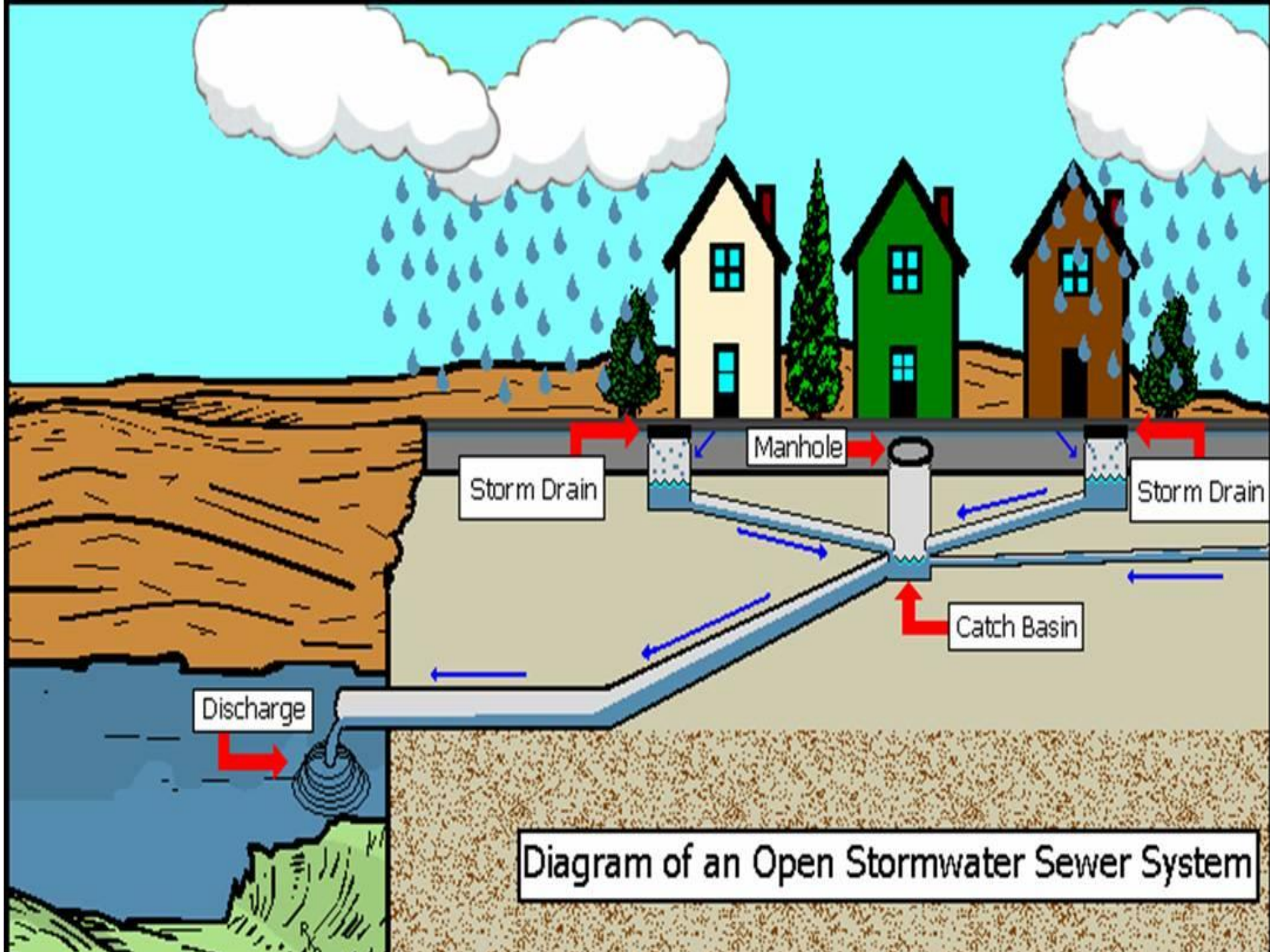


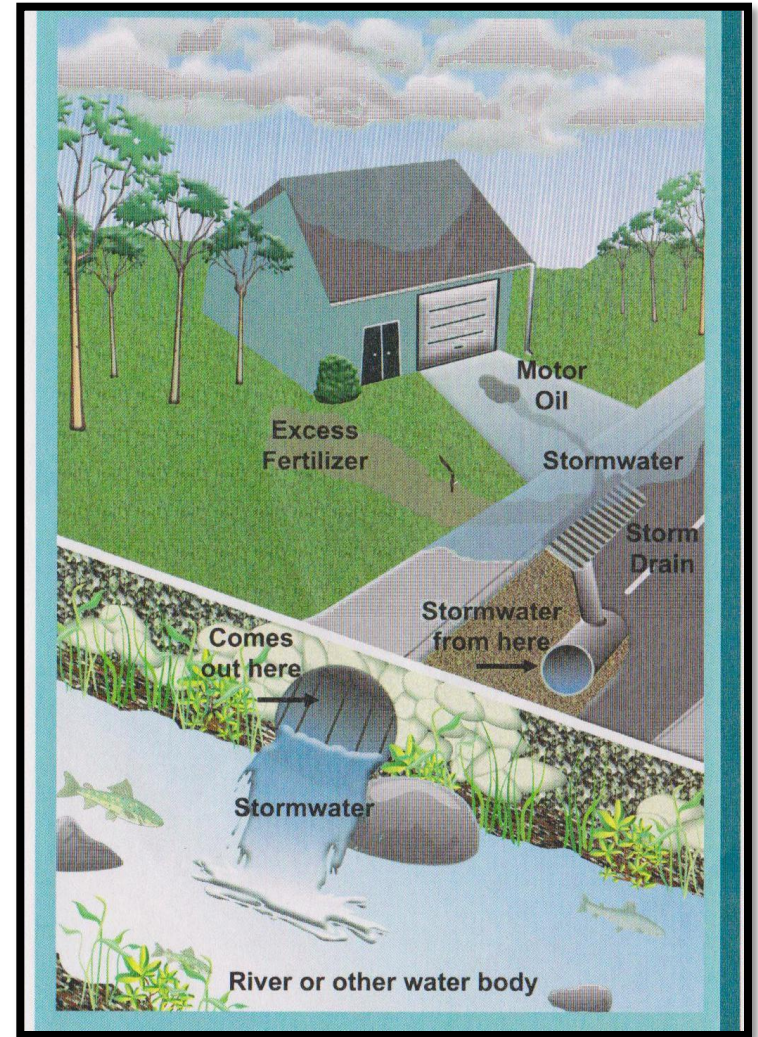
Diagram of an Open Stormwater Sewer System





# What is Stormwater?

Water from rain or snow melt that runs off land and hard surfaces (streets, parking lots, roofs) that can pick up pollutants and discharges to our lakes, streams and rivers.



# Stormwater Regulatory Overview

- City stormwater discharges regulated by:
  - Clean Water Act (NPDES Permit)
  - Idaho Groundwater Rule
  - Underground Injection Control Program
- City received initial NPDES Permit effective 1/1/09
  - Traditionally focused on management practices to meet narrative limits
- Moving forward, stormwater potentially regulated more like wastewater

# Coeur d'Alene Stormwater System

- There are over 2700 catchbasins and 1134 storm manholes in the city of Coeur d'Alene  
Most are cleaned yearly
- There are 12 hard pipe outfalls that allow stormwater to flow into the lake and river
- There are 150+ miles of hard-piped system that reduce flooding potential
- Miles of grassy swales that reduce flooding potential and improve water quality



# Is Our Stormwater Runoff Treated?

When stormwater enters most pipe systems it flows directly to our lake and river **UNTREATED**

*Why don't we treat the stormwater runoff?*

- Our wastewater treatment plant does not have the capacity to handle the volume
- Cost prohibitive

United States Environmental Protection Agency  
Region 10  
1200 Sixth Avenue, Suite 900  
Seattle, Washington 98101

Permit for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems

**Authorization to Discharge Under the  
National Pollutant Discharge Elimination System**

In compliance with the provisions of the Clean Water Act, 33 U.S.C. §1251 *et seq.*, as amended by the Water Quality Act of 1987, P.L. 100-4, the "Act", the

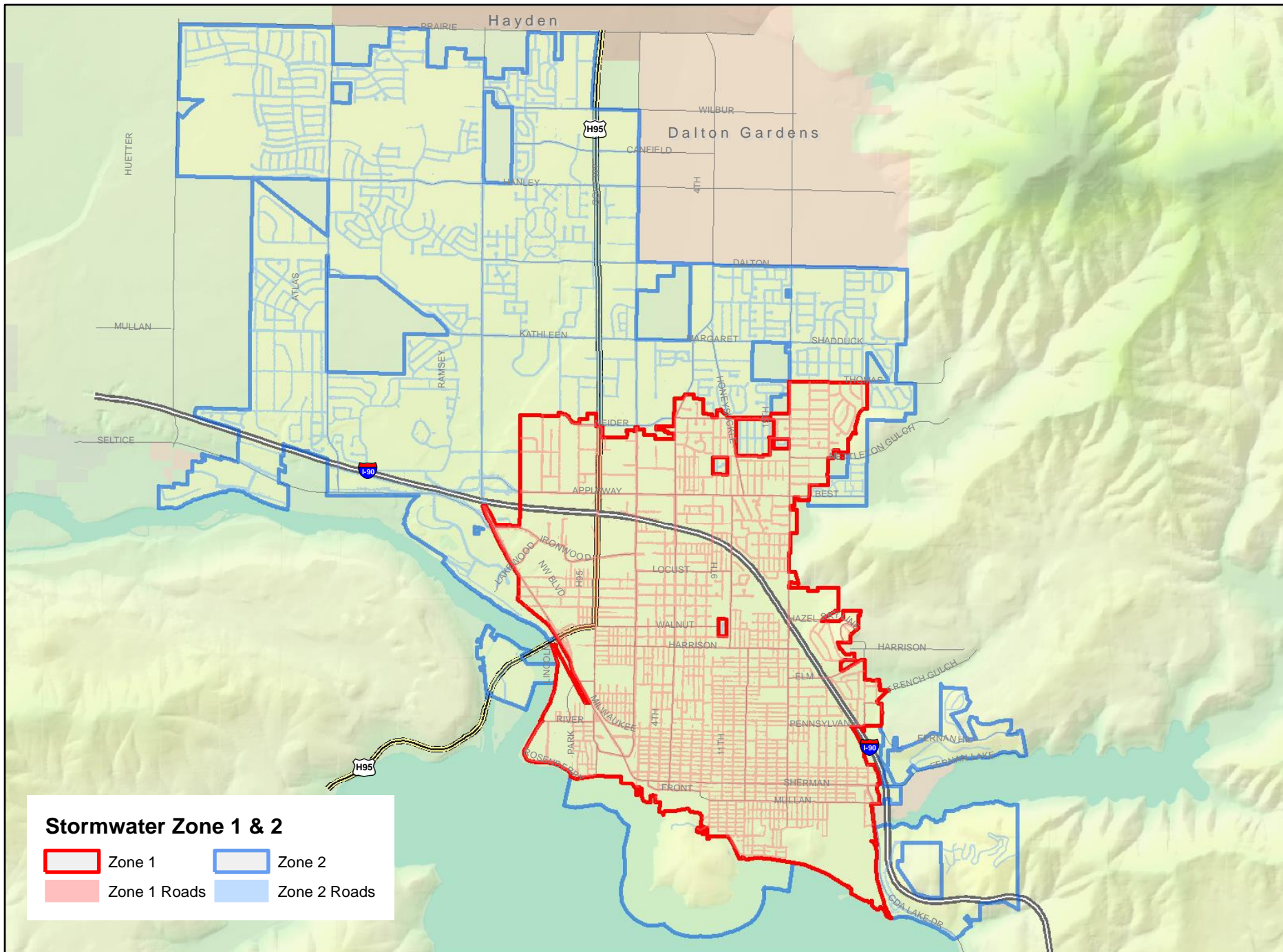
**City of Coeur d'Alene  
(hereinafter the "permittee")**

is authorized to discharge from all municipal separate storm sewer system (MS4) outfalls existing as of the effective date of this permit to receiving waters which include the Spokane River, Lake Coeur d'Alene, and other associated waters of the United States within the Coeur d'Alene Urbanized Area, in accordance with the conditions and requirements set forth herein.





This permit shall become effective January 1, 2009.

# 6 Minimum Control Measures

1. Public Education and Outreach
2. Public Involvement / Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Stormwater Runoff Control
5. Post-Construction Stormwater Management in New Development and Redevelopment
6. Pollution Prevention and Good Housekeeping for Municipal Operations



**Stormwater Zone 1 & 2**

|   |  |
|---|--|
|  Zone 1       |  Zone 2       |
|  Zone 1 Roads |  Zone 2 Roads |



# Catch Basin

*Entrance to our storm system that can keep out large debris and has a reservoir for collecting surface drainage.*





# Outfalls

















Is that a storm  
water outfall  
behind me?





























# Swales\*

Swales are designed to manage water runoff, filter pollutants and increase runoff infiltration.



\*Our Preferred Method to Manage Stormwater













# Pollutants

- Oil and Grease
- Pesticides
- Fertilizers
- Metals
- Soaps
- Paint
- Bacteria
- Plastics and Trash
- Cigarette Butts
- Organic Matter















2yd

**WM**  
WASTE MANAGEMENT  
765 4968  
wm.com

**DANGER**  
DO NOT PARK IN  
FRONT OF THIS  
CONTAINER

**DO NOT PARK**  
NO HAZARDOUS  
WASTES ACCEPTED  
**CAUTION CAUTION**



2yd

**WM**  
WASTE MANAGEMENT  
765-4968

CAUTION

CAUTION











# Storm Drain Stenciling Program



**NO DUMPING**  
  
**FLOWS TO LAKE**



# Post Construction Stormwater Management in New Development and Redevelopment







Over 2500  
catch basins







# Leaf Pick-up

Approximately  
1,400 Tons  
per Year





# 19<sup>th</sup> & Young Street





# Monitoring Includes

- Lead
- Zinc
- Phosphorus
- Hardness
- Total Suspended Solids
- Nitrogen
- PCB's

# Inspection of Construction Sites for Erosion, Sediment & Waste Control





# Construction Waste Control





# Inspection & Enforcement

- The City maintains the right to inspect any site of construction activity that has been issued a permit or is required to have a permit issued.
- Sites shall be required to undergo and pass a city inspection upon completion of installation of temporary erosion / sediment and or construction waste controls, and upon completion of final grading and / or the permanent drainage and erosion control facilities.

# Cleaning and Video

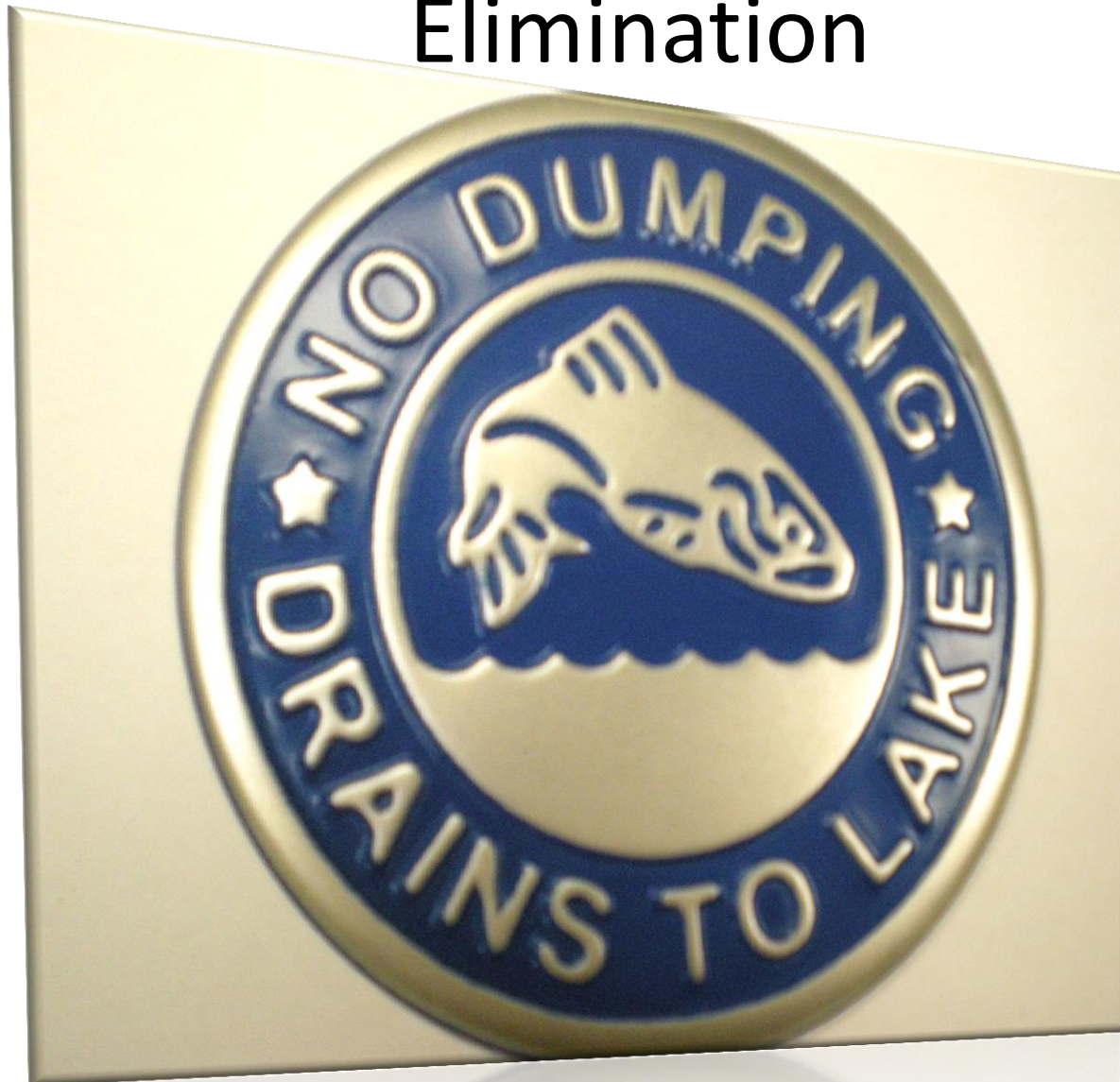


# Dry Weather Field Screening





# Illicit Discharge Detection and Elimination















Spokane  
County  
BioDiesel



# Some E.P.A. Acceptable Non-Stormwater Discharges

- Water Line Flushing
- Landscape Irrigation
- Non-commercial Car Washing
- Footing Drains
- Emergency Fire Fighting Activities
- Dechlorinated Pool Discharges
- Air Conditioning Condensation
- Foundation Drains
- Discharges From Potable Water Source
- Rising Groundwater
- Diverted Stream Flows

# Pollution Prevention and Good Housekeeping for Municipal Operations





# Simple Solutions

1. Pick up pet waste
2. Don't Litter
3. Use car wash facilities or wash on lawns
4. Walk, bike or carpool
5. Plant native plants
6. Report Polluters



# Don't Litter

Litter will go down the storm drain into the Lake.

Don't leave leaky chemicals outside.

Don't pour anything down the storm drain.





# Use Car Wash Facilities or Wash on Your Lawn



# Walk, Bike or Carpool





# Plant Native Plants and Keep Stormwater On-site





# Report Pollution



# Information Resources

- DEQ BMP Catalog:  
[http://www.deq.idaho.gov/water/data\\_reports/storm\\_water/catalog/bmps.cfm](http://www.deq.idaho.gov/water/data_reports/storm_water/catalog/bmps.cfm)
- City of Coeur d' Alene:  
[www.cdavid.org](http://www.cdavid.org)
- Environmental Protection Agency:  
<http://www.epa.gov/npdes/stormwater>

## Appendix B





**RUEN-YEAGER & ASSOCIATES, INC.**  
ENGINEERS ♦ PLANNERS ♦ SURVEYORS

November 15, 2015

Kelly Brownsberger  
Road Supervisor  
Post Falls Highway District  
5629 E. Seltice Way  
Post Falls, Idaho 83854

**Re: Dry Weather Monitoring Report - Post Falls Highway District NPDES MS4  
Project No.: 090104**

Dear Kelly:

RYA has performed dry weather monitoring for 28 outfalls in Post Falls Highway District jurisdiction on August 29<sup>th</sup> and 30<sup>th</sup>. There were two outfalls with flows that appeared to be groundwater.

1. 2 Outfalls had active flow
  - Outfall Number 4 had a flow described as <1 gallons per minute without any unusual deposits, vegetation, or conditions.
  - Outfall Number 8 had a flow described as 8 - 10 gallons per minute without any unusual deposits, vegetation, or conditions.
2. No samples were collected.
3. No observations of illicit discharges were noted.
4. Photos were taken of all outfalls except Outfalls Number 7, 12, 15, 18, 19, 20, 22, and 23 due to either location of private property or difficulty accessing.

The above information together with the Field Report Outfall Observation sheets and photos taken of the outfalls will be compiled with the other required information for inclusion in the 2016 Annual Report.

Sincerely,  
**RUEN-YEAGER & ASSOCIATES, INC.**

*Laura Winter, P.E.*

Laura Winter, P.E.

|   |  |
|---|--|
|    |    |
| <p>Outfall #1</p>   | <p>Outfall #2</p>  |
|   |   |
| <p>Outfall #3</p>   | <p>Outfall #4</p>  |
|  |  |
| <p>Outfall #5</p>   | <p>Outfall #6</p>  |
|  |  |
| <p>Outfall #7</p>   | <p>Outfall #8</p>  |







|   |  |
|---|--|
|    |    |
| Outfall #9  | Outfall #10  |
|   | No photo taken of Outfall #12 - on private property.                                 |
| Outfall #11   | Outfall #12  |
|  |  |
| Outfall #13   | Outfall #14  |
| No photo taken of Outfall #15 - on private property.                                |  |
| Outfall #15   | Outfall #16  |






Dry Weather Monitoring Report

November 15, 2016

Page 4

|   |  |
|---|--|
|    |    |
| Outfall #17   | Outfall #18  |
| No Photo taken of Outfall #19.  | No Photo taken of Outfall #20.   |
| Outfall #19   | Outfall #20  |
|  | No Photo taken of Outfall #22.   |
| Outfall #21   | Outfall #22  |
| No Photo taken of Outfall # 23.   |  |
| Outfall #23   | Outfall #24  |

|   |   |
|---|---|
|  |   |
| <p>Outfall #25</p>  | <p>Outfall #26</p>  |
| <p>No Photo taken of Outfall # 27.</p>  |  |
| <p>Outfall #27</p>  | <p>Outfall #28</p>  |

## **Dry Weather Screening Report**

Post Falls Highway District MS4 Outfalls

EPA NPDES Permit No. IDS-028193

**Name:**     **Laura Winter**    

**Date:**     **8/29/2016 & 8/30/2016**    

**Temperature (°F) & Weather:**     **95 Sunny & 87 Cloudy**    

**Date of Last Rainfall:**     **8/10/16 – trace & 8/11/2016 - 0.16”**    

### **Instructions:**

1. Ensure that it has not rained within 72 hours.
2. Fill out the top portion of this page.
3. Bring the Dry Weather Screening Report along with a copy of the MS4 map and a GPS device in case outfall locations are not obvious and need to be located by latitude and longitude.
4. Visit each outfall location shown on the map and make an entry on the Outfall Observations Page of the Dry Weather Screening Report.
  - a. If an outfall is not accessible (some may be under water), the outfall should be checked at the first point of accessibility upstream of the outfall location. Note this location in the notes section of the report.
  - b. Take a digital photo of the outfall at the location of screening and log the photo number.
  - c. If there is flow present at the outfall, estimate the flow rate and record it on the entry.
  - d. If there is flow present, note any unusual odor, color, oil sheen, turbidity or floatables in the discharge. If there is none, write “none”.
  - e. If there are any unusual deposits (i.e. oily or sediment) or vegetation conditions (i.e. inhibited growth), note it on the entry.
  - f. If flow is present, make an attempt to trace it upstream to determine its source. Take one of the following actions:
    - If the discharge does not exhibit any unusual characteristics and appears to be from groundwater or another allowable non-storm water discharge, note this in the notes section of the report and take no further action.
    - If unusual odor, color, oil sheen, turbidity, floatables or deposits are present or if there is any other reason that testing is warranted, contact Accurate Testing Laboratories at (208) 762-8378 and arrange for a sample kit to test for conductivity, pH, ammonia, chlorine, nitrate and phosphorus. Coordinate with the District Engineer to review the test results and determine if further investigation is needed.
5. Use the notes section to record specific observations and details for any flow observed.
6. Attach any test results and follow up reports to the Dry Weather Screening Report.
7. Dry Weather Screening Reports will be filed with the Annual Report and posted on the District’s web site along with the digital photos of the outfalls.



### Outfall Observations

| MAP NO. | PHOTO NO. | EST. FLOW IN GAL/MIN | ODOR, COLOR, OIL SHEEN, TURBIDITY, OR FLOATABLES IN DISCHARGE? (Y/N) | UNUSUAL DEPOSITS OR VEGETATION CONDITIONS? (Y/N) |
|---------|-----------|----------------------|--|--|
| 1       | 8         | None                 |  |  |
| 2       | 7         | None                 |  |  |
| 3       | 6         | None                 |  |  |
| 4       | 5         | < 1                  | N  | N  |
| 5       | 4         | None                 |  |  |
| 6       | 1 & 2     | None                 |  |  |
| 7       | 9         | None                 |  |  |
| 8       | 10        | 8-10                 | N  | N  |
| 9       | 11        | None                 |  |  |
| 10      | 12 & 13   | None                 |  |  |
| 11      | 14        | None                 |  |  |
| 12      | No Photo  | None                 |  |  |
| 13      | 15        | None                 |  |  |
| 14      | 16        | None                 |  |  |
| 15      | No Photo  | None                 |  |  |
| 16      | 17        | None                 |  |  |
| 17      | 18        | None                 |  |  |
| 18      | 19        | None                 |  |  |
| 19      | No Photo  | None                 |  |  |
| 20      | No Photo  | None                 |  |  |
| 21      | 20        | None                 |  |  |
| 22      | No Photo  | None                 |  |  |
| 23      | No Photo  | None                 |  |  |
| 24      | 22        | None                 |  |  |
| 25      | 21        | None                 |  |  |
| 26      | 23        | None                 |  |  |
| 27      | No Photo  | None                 |  |  |
| 28      | 3         | None                 |  |  |

**Notes (by Outfall #):**

4. Small flow present at less than 1 gpm, water is clean with no water and appears to be groundwater.
6. Bottom of inlet pipe submerged and slightly discolored from backwater. Photo taken of inlet.
8. Three pipes outlet in same location (see picture) – large 54” with 8-10 gpm flow, water is clear with no odor and appears to be natural stream flow.
12. No photo taken, outlet on private property.
13. Culvert inlet almost completely buried.
14. Outlet submerged in the river, inlet was dry.
15. No photo taken, outlet on private property.
16. Outlet has pooled water below, but no current flow.
19. No photo taken, outlet on private property.
20. No photo taken, outlet on private property.
21. Outlet is deep in the draw, no flow.
22. No photo taken, vegetated ditch line, no flow.
23. No photo taken, vegetated ditch line, no flow.

## Appendix C



# RAINcheck

STORMWATER POLLUTION PREVENTION FOR MS4s

Acknowledgment  
of Training

(This top section should be filled in by the trainer)

Signature(s) below are acknowledgment that on (date) 11/29/16,  
these individuals participated in a training session at the:

Location Name: Lakes Highway District

Address: 11341 N Rainsey Rd Hayden ID 83835

Given by: (trainer's name) Laura Winter PE

(title) MS4 Engineer

This training session presented information on stormwater pollution prevention for MS4s.  
During this session, the individuals listed below viewed the training video:

## RAINcheck: STORMWATER POLLUTION PREVENTION FOR MS4s

The participants' signatures below affirm they were given adequate time to ask questions about  
their particular job activities and how they could best conduct these activities.

Please read the above paragraph before signing below.

PRINT NAME HERE

Highway District  
SIGNATURE HERE

Steve Williams

LHD

Paul Cooper

LHD

Rik Van Gelder

LHD

Dylan Jensen

LHD

Weldon Shannon

LHD

Aaron C Syth

LHD

MARK SHAW

LHD

Todd Zimmermann

LHD

Brian Shannon

LHD

# RAINcheck

STORMWATER POLLUTION PREVENTION FOR MS4s

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of Training

(This top section should be filled in by the trainer)

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these individuals participated in a training session at the:

Location Name: Lakes Highway District

Address: 11341 N. Ramsey Rd Hayden ID 83835

Given by: (trainer's name) Laura Winter, PE

(title) MS4 Engineer

This training session presented information on stormwater pollution prevention for MS4s.  
During this session, the individuals listed below viewed the training video:

## RAINcheck: STORMWATER POLLUTION PREVENTION FOR MS4s

The participants' signatures below affirm they were given adequate time to ask questions about  
their particular job activities and how they could best conduct these activities.

Please read the above paragraph before signing below.

PRINT NAME HERE

Highway District  
SIGNATURE HERE

Kevin Renner

ESH D

CHAD THOMSON

ESH D

Bonny Flagg

LHD ☺

Ted Baldwin

LHD

DAVID CARPENTER

LHD

MARV EGER

LHD

RANDY NEAL

PFHD

Ron Hauck

PFHD

DAN Peterson

PFHD

Larry Howell

PFHD

MIKE Mowette

PFHD

Ed Mael

PFHD

[Signature]

[Signature]



# RAINcheck

STORMWATER POLLUTION PREVENTION FOR MS4s

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their particular job activities and how they could best conduct these activities.

Please read the above paragraph before signing below.

PRINT NAME HERE

Highway District  
SIGNATURE HERE

Lakes

M. Ke Horton

PAT ANNOTTI

Van L. Van Zee

John PANKRAIZ

Tim DAY

Bill McCorkle

Mark Roberts

Brian Crumb

DAVE YERIAN

Jim Wines

Kari M. Ily

Eric Prestgaard

Leslie Likes

LAKES

ESH D

ESH D

ESH D

PFHD

PFHD

PFHD

PFHD

PFHD

PFHD

PFHD

PFHD



# RAINcheck

STORMWATER POLLUTION PREVENTION FOR MS4s

Acknowledgment  
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Address: 11341 N. Ramsey Road, Hayden ID 83835

Given by: (trainer's name) Laura Winter, PE

(title) MS4 Engineer

This training session presented information on stormwater pollution prevention for MS4s.  
During this session, the individuals listed below viewed the training video:

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The participants' signatures below affirm they were given adequate time to ask questions about  
their particular job activities and how they could best conduct these activities.

Please read the above paragraph before signing below.

PRINT NAME HERE

Kelly Brownsberger

John Amund

LOREN HORNINK

MIKE Gaboury

Jeremy HORN

ANDY PARRIS

Brian Paulson

Steve Shaffer

Tom Christensen

WIL BENING

PETER WESKE

SHANE COOK

Scott Gladish

Highway District  
SIGNATURE HERE

PEHD

Eastside Hwy.

Eastside Hwy Dist.

ESH D

ESH D

ESH D

PEHD

PEHD

ESH D

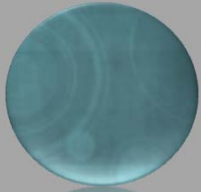
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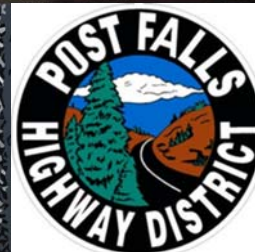
ESH D

2016 MS4 Permit  
*Annual Training*



**STORMWATER  
POLLUTION  
PREVENTION**

**MS4**



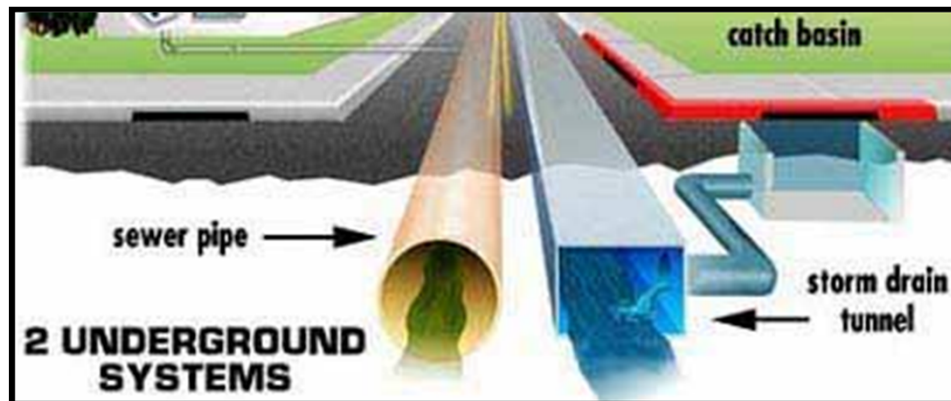


# What is an MS4?

*A municipal separate storm sewer system (MS4) is:*

- A conveyance or system of conveyances...  
owned by a State, city, town, or other public entity, ...  
which discharges to waters of the U.S., and is:
- designed or used for collecting or conveying storm water
  - not a combined sewer; and
  - not part of a Publicly Owned Treatment Works (POTW).

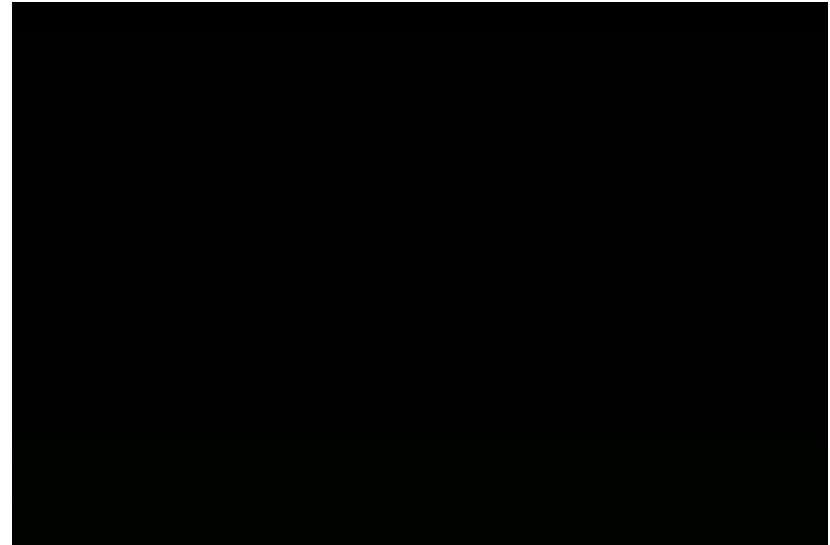
[See: 40 CFR 122.26(b)(4), (b)(7),(b)(8) and (b)(16)]





# Why are we here?

- An MS4 Permit allows Highway Districts to discharge stormwater to waters of the US .... *with conditions*
- It's required by the District's MS4 permit:
- *"...the permittee must develop and conduct appropriate training for municipal personnel related to optimum maintenance practices for the protection of water quality. This training must be conducted at least once annually..."*



# Good Housekeeping & Spill Prevention

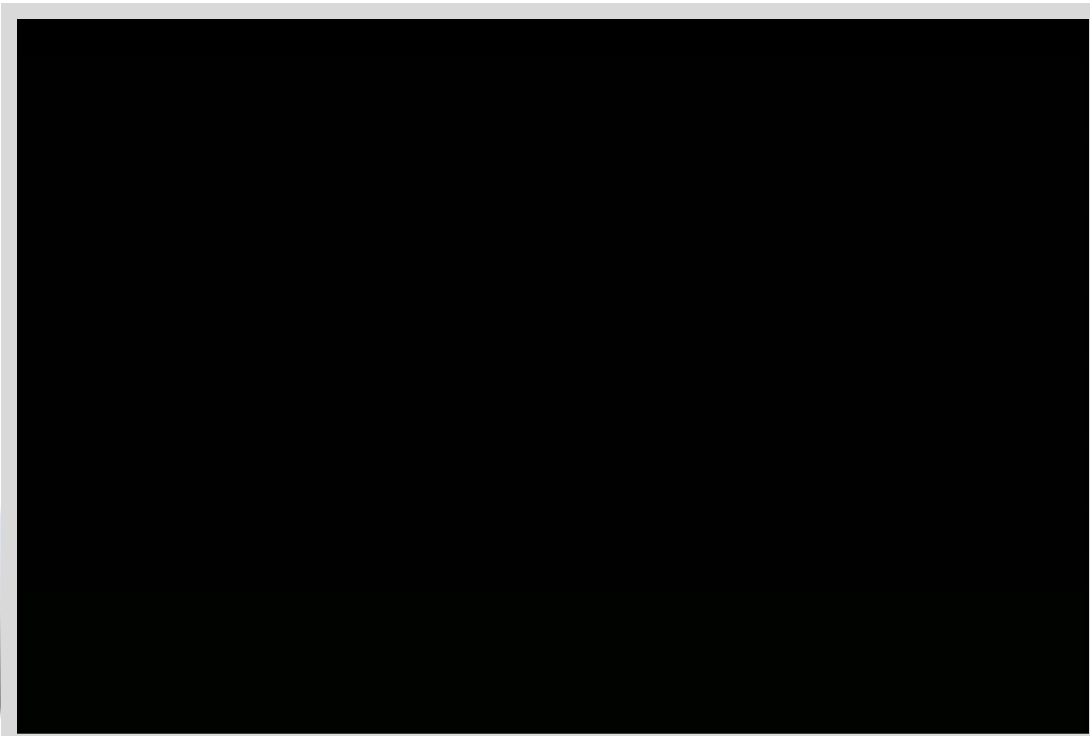
BMP



Best Management Practice

# Good Housekeeping

BMP



Best Management Practice



# Spill Control & Response

BMP



Best Management Practice

# Spill Control & Response

**BMP**

Best Management Practice

# Vehicle Fueling

BMP



Best Management Practice



# Vehicle Fueling

**BMP**

Best Management Practice

# Vehicle & Equipment Maintenance

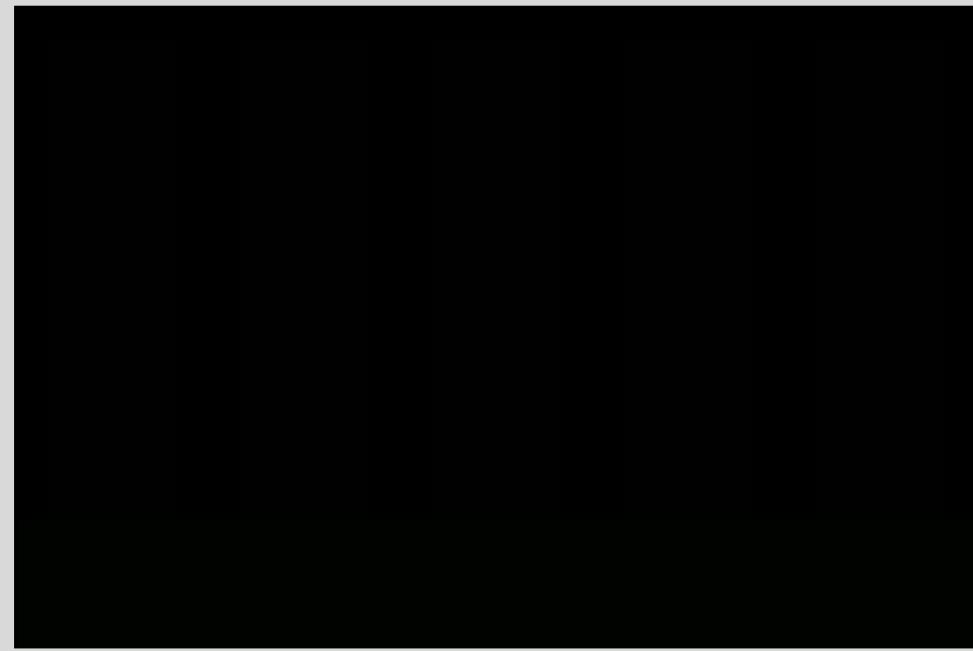
BMP



Best Management Practice

# Vehicle & Equipment Maintenance

BMP



Best Management Practice



# Vehicle & Equipment Washing

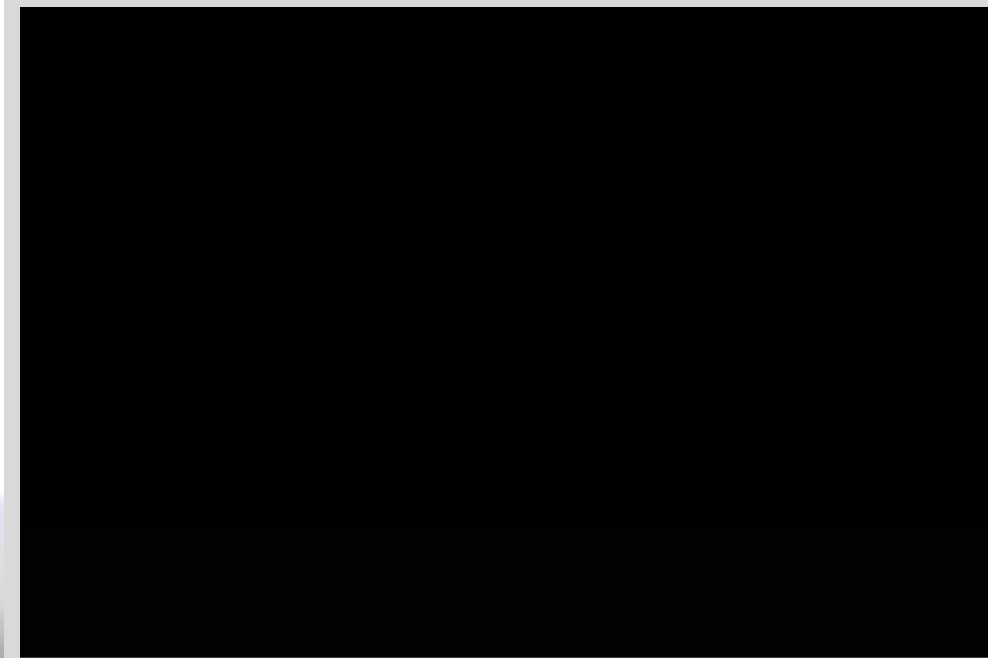
BMP



Best Management Practice

# Vehicle & Equipment Washing

BMP



Best Management Practice

# Materials Management

BMP



Best Management Practice



# Materials Management

**BMP**



Best Management Practice

# Waste Management

BMP



Best Management Practice

# Waste Management

**BMP**

Best Management Practice



# Municipal Facility Maintenance

BMP



Best Management Practice

# Municipal Facility Maintenance



**BMP**



Best Management Practice

# Parking Lots & Street Cleaning

BMP

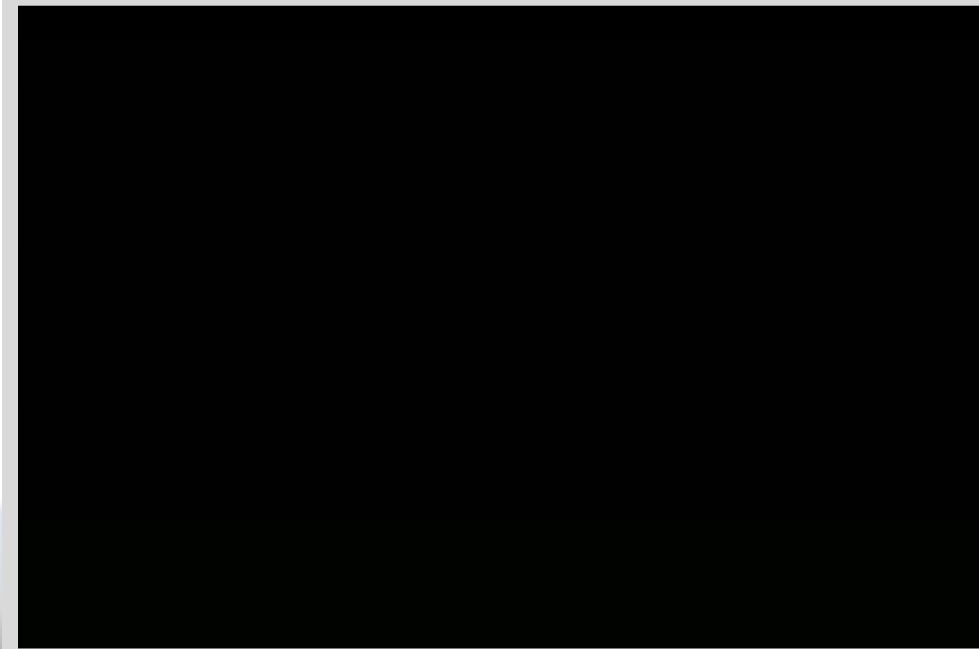


Best Management Practice



# Parking Lots & Street Cleaning

**BMP**



Best Management Practice

# Storm Drain System Cleaning

BMP



Best Management Practice

# Storm Drain System Cleaning

BMP

Best Management Practice



# Working Over or Near Surface Waters

BMP



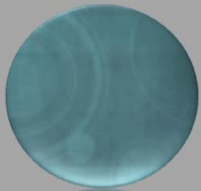
Best Management Practice

# Working Over or Near Surface Waters

**BMP**

Best Management Practice

end of slideshow



# STORMWATER POLLUTION PREVENTION

# MS4

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