



# Boulder County & Keep it Clean Partnership

## Public Education & Outreach Strategy and Recordkeeping for 2022



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### Purpose

This document supports Keep it Clean Partnership communities in meeting the public education and outreach recordkeeping and program description document requirements in the CDPS General Permit COR090000 Stormwater Discharges Associated with the Municipal Separate Storm Sewer Systems (MS4 permit).

It documents how the MS4 permit holder, Boulder County, is meeting the requirement to implement a public education program with outreach conducted by their staff and by the Keep it Clean Partnership, as well as Colorado Stormwater Council, on their behalf.

### Target Pollutants

Priority pollutants as listed in the 2021 KICP Education and Outreach Strategy.

Target Pollutant	Target Sources
E. coli	Pet waste, human waste, failing septic systems, improper RV dumping, leaking and overflowing dumpsters
Nutrients (nitrates, nitrites, and phosphate)	Landscaping practices, septic systems, soaps, detergents
Metals	Historic mining, naturally occurring conditions/geology
Sediment	Construction, landscaping, storm drain system, roadway maintenance, trails, flow modification and stream bank erosion
Pesticides/Herbicides	Landscaping practices
Hydro-Carbons	Exhaust, gas stations, fueling and equipment
Litter	Trash cans, communal trash areas
Grease	Grease spills, grease bins, dumpster storage areas



## Illicit Discharges (excerpt from the MS4 permit requirements)

Part I.E.1.a.i. Requirements: Illicit Discharges: The permittee must provide information to businesses and the general public regarding the permittee's prohibitions of and the water quality impacts associated with illicit discharges as part of the public education program. The permittee may incorporate the education and outreach to meet this requirement into the education and outreach strategies provided in accordance with Part I.E.1.a.ii. The information must include the following:

(A) The permittee must determine the targeted businesses that are likely to cause an illicit discharge or improperly dispose of waste. At a minimum, the permittee must identify at least one type of business and a list of those businesses that fit the identified type of business.

(B) The permittee must develop and implement at least one education and outreach activity to those businesses identified in Part I.E.1.a.i.(A). Educational materials and activities, individually or as a whole, must describe water quality impacts associated with illicit discharges and the improper disposal of waste, the behaviors of concern, and actions that the business can take to reduce the likelihood of illicit discharges and the improper disposal of waste.

Part I.E.1.b.i. Recordkeeping: Illicit Discharges: *A written list of the targeted business(es) that are likely to cause an illicit discharge or improperly dispose of waste and the education and outreach activity for the targeted business(es).*

Part I.E.1.c.i. Program Description Document: Illicit Discharges: *A list of citation(s) and location(s) of the written procedures used to determine the targeted business(es), the outreach activity(ies) conducted, and the outreach distribution mechanism(s).*

### *Business Illicit Discharge Outreach*

Restaurants have been determined to be a prominent source of pollution in the MS4 areas. Urban areas with restaurants that use fats, oils, and grease may have an increased risk of illicit discharge due to storing used products outdoors or failure to maintain grease interceptors as needed. Illicit discharge data and multiple years of anecdotal data from the Partners for a Clean Environment (PACE) program visits to businesses support the need for ongoing education and outreach in this sector.



<b>Business Outreach Illicit Discharge Table for 2022 (see past reports for previous years outreach)</b>																								
<b>Target Business</b>	<b>Outreach Activity</b>	<b>Distribution</b>																						
Restaurants	Discussed and distributed restaurant stormwater best management practices using materials developed by KICP. County food inspector performed training as part of the facility inspection	<table border="0"> <tr> <td>Niwot Elementary</td> <td>8778 Morton Rd, Niwot, CO 80503</td> </tr> <tr> <td>Niwot High School</td> <td>8989 Niwot Rd, Niwot, CO 80503</td> </tr> <tr> <td>Wapos</td> <td>4929 Broadway, Boulder 80301</td> </tr> <tr> <td>Winot Coffee</td> <td>7960 Niwot Rd D14, Niwot, CO 80503</td> </tr> <tr> <td>Abo's</td> <td>7960 Niwot Rd D, B5Niwot, CO 80503</td> </tr> <tr> <td>Raza Freza</td> <td>7960 Niwot Rd D12, Niwot, CO 80503</td> </tr> <tr> <td>Fans</td> <td>7960 Niwot Rd C9, Niwot, CO 80503</td> </tr> <tr> <td>Lefty's Gadget and Pizza</td> <td>364 2nd Ave, Niwot, CO 80503</td> </tr> <tr> <td>Niwot Conoco</td> <td>7960 Niwot Rd, Niwot, CO 80503</td> </tr> <tr> <td>Old Oak Coffeehouse</td> <td>136 2nd Ave Unit B, Niwot, CO 80544</td> </tr> <tr> <td>Niwot Tavern</td> <td>7960 Niwot Rd D13, Niwot, CO 80503</td> </tr> </table>	Niwot Elementary	8778 Morton Rd, Niwot, CO 80503	Niwot High School	8989 Niwot Rd, Niwot, CO 80503	Wapos	4929 Broadway, Boulder 80301	Winot Coffee	7960 Niwot Rd D14, Niwot, CO 80503	Abo's	7960 Niwot Rd D, B5Niwot, CO 80503	Raza Freza	7960 Niwot Rd D12, Niwot, CO 80503	Fans	7960 Niwot Rd C9, Niwot, CO 80503	Lefty's Gadget and Pizza	364 2nd Ave, Niwot, CO 80503	Niwot Conoco	7960 Niwot Rd, Niwot, CO 80503	Old Oak Coffeehouse	136 2nd Ave Unit B, Niwot, CO 80544	Niwot Tavern	7960 Niwot Rd D13, Niwot, CO 80503
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General Business	<a href="#">Household Hazardous Waste Facility (HMMF)</a> supported by Boulder County, City of Boulder, City of Lafayette, City of Longmont, City of Louisville, and Town of Superior	<ul style="list-style-type: none"> <li>• Facility drop-off information on city and county websites</li> <li>• Boulder County Resource Conservation Division Facebook, Twitter, and Instagram pages</li> <li>• Press Releases advertising the facility several times</li> <li>• Removing appointment times to make more accessible to the public</li> <li>• Tabling at Community Events such as summer art markets in North Boulder</li> <li>• Open house for public on America Recycles Day on November 15, 2022</li> <li>• Community Newsletters (partner newsletters, Partners for a Clean Environment (PACE) newsletter)</li> </ul>																						



## Education and Outreach Activities

Part I.E.1.a.ii. Requirements: Education and Outreach Activities Table: Each year, the permittee must implement at least four education and outreach activities (bulleted items) and at least two must be from the Active and Interactive Outreach column. The activities can be the same from year to year or be different each year.

Part I.E.1.b.ii. Recordkeeping: Education and Outreach Activities: A written list of the targeted pollutant sources and/or pollutants, the target audience, and distribution mechanism for each activity and the following:

(A) Dates the activities were implemented, including, as applicable, dates of events and the materials that were made available.

(B) Documentation of the activities that were provided and/or made available and the dates of distribution. Signs, markers, or equivalent intended to be maintained for the permit term must be described with location information.

Part I.E.1.c.ii. Program Description Document: Education and Outreach Activities: A list of the activities from Table 1 selected for implementation for each calendar year.

### *Education and Outreach Activities Table*

Items highlighted yellow are conducted by KICP to meet the permit requirement, items highlighted green are conducted by Boulder County, and those in blue are conducted by Colorado Stormwater Council which Boulder County is a contributing member.



TABLE 1  
Education and Outreach Activities Table

Passive Outreach	Active and Interactive Outreach (pick any two bullets each year)
<ul style="list-style-type: none"> <li>• Bus shelter/bench advertisement</li> <li>• Billboard/dasher board advertisement</li> <li>• Vehicle/bus advertisement</li> <li>• Radio/television/movie theatre advertisement</li> <li>• Newspaper advertisement</li> <li>• Distribute educational materials by brochure</li> <li>• Distribute educational materials by fact sheet</li> <li>• Distribute educational material by utility bill insert – Boulder; however Boulder County residence other than those on septic receive water and sanitary services from the City of Boulder and the inserts</li> <li>• Publish article (hard copy or electronic)</li> <li>• Storm drain marking by permittee personnel that maintains 25% of permittee maintained inlets.</li> <li>• Stormwater related signage</li> <li>• Web site</li> </ul>	<ul style="list-style-type: none"> <li>• Ongoing advertisement/promotion of a stormwater hotline number or other method to report an illicit discharge</li> <li>• Ongoing advertisement/promotion on how to get more information about the stormwater program</li> <li>• Ongoing social media program KICP and County</li> <li>• Web site that is interactive or contains stormwater information that includes actions that can be taken to reduce stormwater pollution and County website</li> <li>• Newsletter (hard copy or electronic)</li> <li>• Promotion of existing local stormwater/environmental events or program that help protect water quality</li> <li>• Distribute promotional items or giveaways – Boulder County</li> <li>• Participate in or sponsor a water festival which involves populations that exist within the permit boundary</li> <li>• Participate in or sponsor a waterway cleanup and trash removal event</li> <li>• Participate in or sponsor a service project</li> <li>• Participate in or sponsor a stormwater or environmental presentation</li> <li>• Participate in or sponsor a stormwater or environmental event</li> <li>• Participate in or sponsor community project based programs that investigate watershed health and meet applicable school STEM standards.</li> <li>• Participate in or sponsor a household hazardous waste event</li> <li>• Participate in or sponsor an Adopt-a Street program</li> <li>• Participate in or sponsor an Adopt-a-Waterway program</li> <li>• Participate in or sponsor an Adopt-a-Storm Drain program</li> <li>• Provide ongoing access to motor vehicle fluids recycling program</li> <li>• Stormwater booth at a community event</li> <li>• Storm drain marking program performed by the public/community</li> <li>• Pet waste stations</li> <li>• Participate in, plan or present stormwater materials to schools</li> <li>• Stormwater demonstration projects that show control measures or other pollutant reduction methods</li> </ul>

### Vehicle/Bus Advertisement

Distribution Mechanism	Target Pollutant	Target Source	Target Audience	Date(s)
RTD Bus Interior Cards	Bacteria, Nutrients, Trash	Pet Waste, Fertilizers/Pesticides, Trash Cans/Urban Wildlife	Residents	8/8/2022-12/31/2022

Dog waste contains harmful bacteria, parasites, and excess nutrients

Los desechos de los perros contienen bacterias dañinas, parásitos y un exceso de nutrientes

Put it in the trash or it ends up in our streams

Tíralo a la basura o terminará en nuestros arroyos



This is how pollutants from our home get into our waterways.  
Así es como los contaminantes de nuestro hogar ingresan a nuestras vías fluviales.

KeepItCleanPartnership.org



Fertilizers and pesticides contain harmful nutrients and chemicals

Los fertilizantes y pesticidas contienen nutrientes y productos químicos nocivos

Apply sparingly to keep them out of our streams

Aplicar con moderación para mantenerlos fuera de nuestros arroyos



This is how pollutants from our home get into our waterways.  
Así es como los contaminantes de nuestro hogar ingresan a nuestras vías fluviales.

KeepItCleanPartnership.org



Uncovered trash bins attract wildlife

Los contenedores de basura sin tapa atraen la vida silvestre

Secure trash bins to keep trash and animal waste out of streams

Sujete firmemente los contenedores para mantener la basura y los desechos de los animales fuera de los arroyos



This is how pollutants from our home get into our waterways.  
Así es como los contaminantes de nuestro hogar ingresan a nuestras vías fluviales.

KeepItCleanPartnership.org

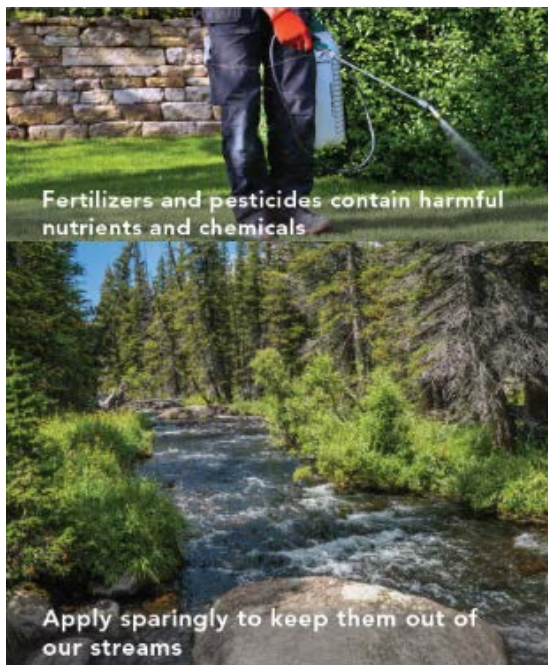


### Radio Advertisement

The Colorado Stormwater Council coordinates a radio campaign that includes the following stations that serve the KICP partner communities: KUNC Front Range & Denver Metro Area 91.5, KUNC Boulder 102.7, and KJAC Front Range & Denver Metro Area 105.5. The entire campaign included 20 spots/week (average) from May to November, with a total of 1,560,000 impressions in the Denver/Boulder Market.

### Newspaper Advertisement

Distribution Mechanism	Target Pollutant	Target Source	Target Audience	Date(s)
<a href="#">Colorado Gardener Magazine</a>	Nutrients	Fertilizer, Lawn Waste	Boulder County Residents	May 2022
Boulder Weekly Best of Boulder	N/A	N/A	Boulder County Residents	4/28/2022



### Protect the Boulder St. Vrain Watershed

Pollutants from your home can end up in the creek. Learn more at [KeepItCleanPartnership.org](http://KeepItCleanPartnership.org).





*Stormwater booth at a community event; Distribute educational materials by brochure; Distribute promotional items or giveaways*

Educational brochures on a variety of topics are printed and made available to the public. The brochures can be seen on the Keep it Clean Partnership website: [www.KeepItCleanPartnership.org](http://www.KeepItCleanPartnership.org).

Event	Date	Target Pollutant	Target Source	Target Audience	Location	Contacts
Explorando Senderos	7/28/2022	Nutrients, Bacteria, Trash	Fertilizer, Dog Waste, Lawn Waste, Households	Residents	Junkyard Social Club	70
<b>Materials Made Available</b>						
Water Protection Guide (English, Spanish), Pet Waste Brochure (English, Spanish), Lawn and Garden Brochure (English, Spanish), KICP Activity Guide sheets						

[Boulder County]

Event	Date	Target Pollutant	Target Source	Target Audience	Location	Contacts
Lefthand Watershed Days Celebration	8/27/2022	Nutrients, Bacteria, Trash	Fertilizer, Dog Waste, Lawn Waste, Households	Residents	Allenspark, CO	20
<b>Materials Made Available</b>						
Water Protection Guide (English, Spanish), Pet Waste Brochure (English, Spanish), Lawn and Garden Brochure (English, Spanish), stickers, temporary tattoos, KICP Activity Guides						

*Distribute educational material by utility bill insert performed by City of Boulder included in urbanized area of Boulder County serviced by City Utilities*

Distribution Mechanism	Target Pollutant	Target Source	Target Audience	Date(s)
City of Boulder Utility Bill Inserts	Nutrients	Pesticides, Fertilizers	Residents	June
City of Boulder Utility Bill Inserts	Bacteria	Pet Waste	Dog Owners	July



City of Boulder Utility Bill Inserts	Auto fluids	Vehicles	Residents	September
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Uncovered trash bins attract wildlife. Secure trash bins to keep trash and animal waste out of our streams.

Animal waste can cause algal blooms, robbing the organisms in our waterways from the oxygen they need to survive.

Pet waste contains harmful bacteria and parasites. The 26,000 dogs in Boulder create 19,500 lbs. of waste every single day!

**What are you sending into our streams?**



Storm drains lead to creeks without treatment. Pick up pet waste and secure trash bins to prevent stormwater pollution and protect waterways.

Learn how you can protect waterways from home at [KeepItCleanPartnership.org](http://KeepItCleanPartnership.org).



Chemicals applied to lawns reach local waterways through the stormwater system.

**Adjust sprinklers**

Excess water runs off lawns carrying nutrients, chemicals, and other pollutants into storm drains.

**Reduce fertilizer use**

Nutrients from fertilizer cause excessive algae growth, robbing the organisms that live in our waterways from the oxygen they need to survive.

**Clean up yard waste**

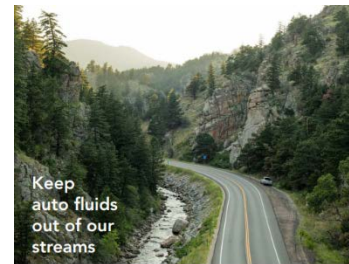
Sweep up grass clippings and compost yard waste to return nutrients to your lawn and garden.



Learn how you can protect waterways from home at [KeepItCleanPartnership.org](http://KeepItCleanPartnership.org).



Stormwater Quality Group  
4049 N. 75th Street  
Boulder, CO 80501  
303-916-5563



Keep auto fluids out of our streams

Auto fluids are toxic to aquatic life and the wildlife that drink from our streams.

- Check your parking spot and driveway for evidence of leaks from your car.
- Repair any car leaks promptly.
- Store chemicals and cleaners in a covered area.

**Properly dispose of expired or unwanted auto products:**

- Antifreeze
- Batteries
- Car cleaners
- Gasoline and diesel fuels
- Oil and oil filters
- Polish and wax
- Solvents and degreasers



Boulder residents can drop off materials for free at the Hazardous Materials Management Facility  
[boco.org/hmmf](http://boco.org/hmmf)  
1901 63rd St, Boulder, CO

Scan to learn more



Learn how you can protect waterways from home at [KeepItCleanPartnership.org](http://KeepItCleanPartnership.org).



Stormwater Quality Group  
4049 N. 75th Street  
Boulder, CO 80501  
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### Stormwater related signage

“Keep it Clean ‘cause we’re all downstream” signs are posted to mark the locations of streams.



Municipality	Avg Annual Daily Traffic Estimates as of November 1, 2022 per Boulder County Traffic Counts Map
<b>Boulder (City)</b>	
Boulder Creek – 28th St./US 36 (2 signs, 1 facing each direction)	40,000
Four Mile Creek – At 47 <sup>th</sup> Street	47,000
Skunk Creek – Aurora and 32 <sup>nd</sup> (2 signs, 1 facing each direction)	No traffic data available
Goose Creek – 9 <sup>th</sup> Street and Balsam (2 signs, 1 facing each direction)	No traffic data available
Wonderland Creek – Broadway and Sumac (1 sign facing north)	No traffic data available
Fourmile Creek – Broadway and Rosewood (2 signs, 1 facing each direction)	No traffic data available
Dry Creek – 63 <sup>rd</sup> and IBM Drive (2 signs, 1 facing each direction)	3,970
South Boulder Creek – Baseline and Gapter Road (2 signs, 1 facing each direction)	75/148 bikes
Bluebell Canyon Creek – 20 <sup>th</sup> and Columbine (1 sign facing north)	No traffic data available
Gregory Canyon Creek – Flagstaff and Gregory Lane (2 signs, 1 facing each direction)	3280/59 bikes
Sunshine Canyon Creek – Canyon and Pearl Street (2 signs, 1 facing each direction)	10,000
Elmer’s Twomile Creek – Valmont and 28 <sup>th</sup> Street (1 sign facing west)	No traffic data available
Barker Reservoir – West end of the reservoir in Nederland	3,400
<b>Boulder County</b>	
Dry Creek No. 2 – Sawtooth Lane and Niwot Road (at Niwot Road underpass)	3660/98 bikes
Lefthand Creek – Lefthand Canyon Drive and Old Stage Road (at the Buckingham Picnic Area)	1,320
Lefthand Creek – Lefthand Creek at James Creek Confluence	1,300
<b>Louisville</b>	
Coal Creek – Dillon Road and Coal Creek	No traffic data available



Coal Creek – on bike trail where Coal Creek crosses Hwy. 42	68 bikes
<b>Longmont</b>	
St. Vrain – Main Street and St. Vrain	28,000
St. Vrain – Hover Street and St. Vrain	No traffic data available
Lefthand Creek – Main Street and St. Vrain	28,000
Lefthand Creek – Pike Road and St. Vrain	8,900/59 bikes
Dry Creek #1 – Airport Road and Dry Creek	No traffic data available
Dry Creek #1 – Grandview Meadows Drive and Dry Creek	No traffic data available
<b>Superior</b>	
Rock Creek – McCaslin Boulevard and Rock Creek (1 sign facing south)	No traffic data available

### *Pet Waste Signage*

Two pet waste signs are located along the road from 9595 Nelson Rd that runs from the Fairgrounds to the Humane Society for a reminder to the volunteer dog walkers to pick up pet waste. There are also several Parks and Open Space areas with Pet Waste Stations.

### *Website; Web site that is interactive or contains stormwater information that includes actions that can be taken to reduce stormwater pollution*

The Keep it Clean Partnership manages a website with stormwater information that includes actions that can be taken to reduce stormwater pollution: [www.keepitcleanpartnership.org](http://www.keepitcleanpartnership.org).

<b>Distribution Mechanism</b>	<b>Target Pollutant</b>	<b>Target Source</b>	<b>Target Audience</b>	<b>Date(s)</b>
WordPress Website	Nutrients, Bacteria, Trash	Fertilizer, Dog Waste, Lawn Waste, Households	Adults, Families & Students	All Year

### *Ongoing advertisement/promotion of a stormwater hotline number or other method to report an illicit discharge*

The Keep it Clean Partnership website includes a Report Pollution page. The page has information on what type of illicit discharges to report and a form to submit pollution that sends information to stormwater staff in each KICP community: <https://www.keepitcleanpartnership.org/report/>.

### *Ongoing advertisement/promotion on how to get more information about the stormwater program*

The Keep it Clean Partnership publishes social media advertisements through the Boulder County Climate Facebook and Instagram pages that direct people to the KICP website for more information about stormwater.



Ad	Dates Run	Reach	Link Clicks	Post Reactions	Post Shares	Post Saves	Post Comments
English New KICP Website	March 2-March 31	16,844	311	138	12	3	2
English Report Pollution	June 1-July 2	14,289	356	33	7	3	2
Spanish New KICP Website	November 15-December 31	9,856	554	5	0	1	0
English Deicer Use	November 28-December 31	16,464	418	29	4	1	8
Spanish Deicer Use	December 14-December 30	14,396	304	8	0	0	1

*Ongoing social media program (many members of KICP participated in the campaign)*

Partner	Platform	Date	KICP Message	Stats
<a href="#">Boulder County Climate</a>	Facebook	3/4/2022	New KICP Website	
<a href="#">Boulder County Climate</a>	Facebook	4/22/2022	Keep Watershed Clean	1 like, 1 share
<a href="#">Boulder County Climate</a>	Instagram	4/22/2022	Keep Watershed Clean	27 likes
<a href="#">Boulder County Climate</a>	Facebook	9/30/2022	KICP in the Community	1 like
<a href="#">Boulder County Climate</a>	Facebook	9/13/2022	Water 22 Art Contest	1 like
<a href="#">Boulder County Government</a>	Facebook	4/22/2022	Keep Watershed Clean	5 likes

*Newsletter (hard copy or electronic)*

The Keep it Clean Partnership sends electronic newsletters every other month.

Date	Newsletter Topic	Target Pollutant/Source	Newsletter Audience
2/1/2022	<a href="#">New KICP Website</a>	N/A	32
4/1/2022	<a href="#">Celebrate Water This Earth Month</a>	Nutrients / Household hazardous waste, Households	68
6/1/2022	<a href="#">Report Water Pollution</a>	Nutrients, Sediment, Auto Fluids / Households, Construction	69
8/1/2022	<a href="#">Recreate Safely</a>	Bacteria, Nutrients / Human Waste, Pet Waste	69
10/7/2022	<a href="#">Fall Lawn Care &amp; Leaf Removal</a>	Nutrients / Lawn Waste, Pesticides, Fertilizers	69
12/1/2022	<a href="#">Shovel Snow, Use De-icers Sparingly</a>	Salts, Nutrients / Deicers	69



The Keep it Clean Partnership also provides seasonal and topical stormwater messages to be shared in community newsletters. Some of these messages were shared directly by Boulder County and others by other KICP members.

Partner	Newsletter	Date	KICP Message
Boulder Climate Initiatives	<a href="#">Boulder Climate Initiatives October 6, 2022</a>	10/6/2022	Fall Leaves
Boulder County Climate	OSCAR Newsletter   February 10, 2022	2/10/2022	New KICP Website
Boulder News	<a href="#">Boulder News October 5, 2022</a>	10/5/2022	Fall Leaves
Longmont	<a href="#">Longmont City Line June 2022</a>	6/1/2022	Water Conservation
Longmont	<a href="#">Longmont Recreation Brochure</a>	Summer 2022	Lawn and Garden Care
Superior	<a href="#">Superior Sentinel March 2022</a>	3/1/2022	Learn Stormwater Basics
Superior	<a href="#">Superior Sentinel May 2022</a>	5/1/2022	Spring Lawn Care
Superior	<a href="#">Superior Sustainability   May 2022</a>	5/19/2022	General mention
Superior	<a href="#">Superior Sentinel   November 2022</a>	11/1/2022	Fall Leaves
Superior	<a href="#">Superior Sentinel   December 2022</a>	12/1/2022	Winter Shoveling and Deicer Use

*Promotion of existing local stormwater/environmental events or program that help protect water quality*

Local events that help protect water quality are promoted on the Keep it Clean Partnership website [see Website section] and in Keep it Clean Partnership newsletters [see Newsletter section].

*Participate in or sponsor a stormwater or environmental presentation and event*

Event	Date	Location	Contacts	Materials Made Available
Explorando Senderos	7/28/2022	Junkyard Social Club	70	Water Protection Guide (English, Spanish), Pet Waste Brochure (English, Spanish), Lawn and Garden Brochure (English, Spanish), KICP Activity Guide sheets



[Boulder County]

Event	Date	Location	Contacts	Materials Made Available
Lefthand Watershed Days	8/27/2022	Allenspark, CO	20	Water Protection Guide (English, Spanish), Pet Waste Brochure (English, Spanish), Lawn and Garden Brochure (English, Spanish), stickers, temporary tattoos, KICP Activity Guides
IECA, Mountain States Chapter Annual Conference	11/15/23	Centennial, CO	~65-80 people attended the conference	Provided opening presentation (~ 1 hr) on <i>Stormwater Lessons Learned from the Marshall Fire</i> . A pdf of the power point was available on IECA website and upon request

[Students may include unincorporated Boulder County]

Event	Date	Location	Contacts	Materials Made Available
Presentation to Fairview HS AP Environmental Science Class	9/22/2022	Virtual	23	N/A

*Participate in or sponsor a household hazardous waste event; Provide ongoing access to motor vehicle fluids recycling program*

The [Household Hazardous Waste Facility \(HMMF\)](#) is supported by Boulder County, City of Boulder, City of Lafayette, City of Longmont, City of Louisville, and the Town of Superior. The HMMF accepts hazardous waste from residents and businesses including motor vehicle fluids (Antifreeze, Auto body filler, Brake fluid, Diesel fuel, Gasoline, Oil – used or unused, Power steering fluid, Radiator flushes, Transmission fluid).

*Participate in, plan or present stormwater materials to schools*

Due to the COVID-19 pandemic, school program providers have needed to adapt their programs. Program formats include in person outdoors, live virtual presentations, and pre-recorded presentations. Eco-Cycle's programs were either done in person outside, live virtually with an educator, or teachers reported the date on which they watched the pre-recorded program with their class.



## Eco-Cycle

Eco-Cycle						
Partner	Date	School	Grade	# of Contacts	# of Classes	Format
Boulder	3/9/2022	Mesa Elementary	5th	44	2	In-person
Boulder	4/13/2022	Douglass Elementary	4th	24	1	In-person
Boulder	4/27/2022	Bear Creek Elementary	4th	54	2	In-person
Boulder	9/13/2022	Foothill Elementary	3rd	3	69	In-person
Boulder	10/18/2022	Heatherwood Elementary	K-2nd	2	30	In-person
Boulder	10/27/2022	Crest View Elementary	5th	3	81	In-person
Boulder	2/28, 3/1, 3/3/2022	Crest View Elementary	5th	90	3	In-person
Boulder County	2/11/2022	Lyons Elementary	3rd	48	2	In-person
Boulder County	4/1/2022	Hygiene Elementary	4th	40	2	In-person
Boulder County	5/3/2022	Boulder Universal	2nd	15	1	Pre-recorded
Boulder County	5/3/2022	Boulder Universal	2nd	15	1	Live-virtual
Boulder County	10/10/2022	Jamestown Elementary	3rd-5th	1	11	In-person
Boulder County	10/10/2022	Jamestown Elementary	K-2nd	1	8	In-person
Lafayette	2/8/2022	Sanchez Elementary	2nd	17	1	Live-virtual
Lafayette	3/15/2022	Pioneer Elementary	2nd	76	4	In-person
Lafayette	9/22/2022	Lafayette Elementary	3rd	3	81	In-person
Lafayette	10/14/2022	Ryan Elementary	2nd	3	63	In-person
Lafayette	2/1/2022, 2/3/2022	Sanchez Elementary	2nd	24	2	Live-virtual
Longmont	2/23/2022	Central Elementary	3rd	48	2	In-person
Longmont	3/11/2022	Columbine Elementary	3rd	34	2	In-person
Longmont	4/1/2022	Burlington Elementary	3rd	63	3	In-person
Longmont	4/4/2022	Sanborn Elementary	3rd	46	2	In-person
Longmont	4/25/2022	Fall River Elementary	3rd	69	3	In-person
Longmont	10/11/2022	Eagle Crest Elementary	4th-5th	1	25	In-person
Longmont	10/12/2022	Burlington Elementary	2nd	2	48	In-person
Louisville	4/5/2022	Monarch PK-8	7th	130	5	In-person
Louisville	9/20/2022	Louisville Elementary	3rd	3	84	In-person



Superior	5/5, 5/9/2022	Superior Elementary	4th	69	3	In-person
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### Thorne Nature Experience

Thorne Nature Experience						
Partner	Date	School	Grade	# of Contacts	# of Classes	Format
Boulder	4/14/2022	Crest View Elementary	2	63	4	In-person
Boulder	4/26/2022	Crest View Elementary	2	21	1	In-person
Boulder	5/3/2022	Eisenhower Elementary	2	52	3	In-person
Boulder	9/13/2022	Horizons Elementary	2	60	2	In-person
Boulder	9/15/2022	Crest View Elementary	2	66	3	In-person
Boulder	9/20/2022	Horizons Elementary	2	19	1	In-person
Boulder	10/4/2022	High Peaks Elementary	2	41	2	In-person
Boulder	10/11/2022	Flatirons Elementary	2	25	1	In-person
Boulder	10/13/2022	Eisenhower Elementary	2	58	3	In-person
Boulder County	4/19/2022	Nederland Elem	2	32	2	In-person
Boulder County	9/20/2022	Lyons Elementary	2	42	2	In-person
Boulder County	10/11/2022	Nederland Elem	2	23	1	In-person
Lafayette	4/15/2022	Lafayette Elementary	2	52	3	In-person
Lafayette	4/29/2022	Lafayette Elementary	2	26	1	In-person
Lafayette	5/6/2022	Sanchez Elementary	2	51	3	In-person
Lafayette	10/6/2022	Sanchez Elementary	2	50	2	In-person
Longmont	4/19/2022	Eagle Crest Elementary	2	44	2	In-person
Longmont	4/21/2022	Eagle Crest Elementary	2	24	1	In-person
Longmont	5/10/2022	Central Elementary	2	46	2	In-person
Longmont	5/12/2022	Legacy Elementary	2	68	3	In-person
Longmont	5/17/2022	Fall River Elementary	2	66	3	In-person
Longmont	5/19/2022	Columbine Elementary	2	40	2	In-person
Longmont	9/8/2022	Niwot Elementary	2	66	3	In-person





Longmont	9/13/2022	Indian Peaks Elementary	2	34	2	In-person
Longmont	9/29/2022	Longmont Estates Elementary	2	40	2	In-person
Longmont	10/4/2022	Sanborn Elementary	2	37	2	In-person
Longmont	10/13/2022	Hygiene Elementary	2	59	3	In-person
Longmont	10/18/2022	Alpine Elementary	2	58	3	In-person
Longmont	10/20/2022	Burlington Elementary	2	46	2	In-person
Longmont	10/25/2022	Blue Mountain	2	76	4	In-person
Louisville	4/5/2022	Coal Creek Elementary	2	51	3	In-person
Superior	4/12/2022	Eldorado K-8	2	52	3	In-person
Superior	9/27/2022	Superior Elementary	2	51	2	In-person
Superior	9/29/2022	Superior Elementary	2	25	1	In-person

## Nutrients

Part I.E.1.a.iii.: Nutrients: As part of their public education program, the permittee must specifically address the reduction of water quality impacts associated with nitrogen and phosphorus in discharges from the MS4. Permittees can meet the requirements of this section through contribution to a collaborative program to evaluate, identify, target, and provide outreach that addresses sources state-wide or within the specific region or watershed that includes the receiving waters impacted by the MS4 permittee’s discharge.

(A) The permittee must determine the targeted sources (e.g., residential, industrial, agricultural, or commercial) that are contributing to, or have the potential to contribute, nutrients to the waters receiving the discharge authorized under the MS4 permit.

(B) The permittee must prioritize which targeted sources are likely to obtain a reduction in nutrient discharges through education. The permittee must distribute educational materials or equivalent outreach to the prioritized targeted sources. Educational materials or equivalent outreach, individually or as a whole, must describe stormwater quality impacts associated with nitrogen and phosphorus in stormwater runoff and illicit discharges, the behaviors of concern, and actions that the target source can take to reduce nutrients. The permittee may incorporate the education and outreach to meet this requirement into the education and outreach strategies provided in accordance with Part I.E.1.a.ii.

Part I.E.1.b.iii. Nutrients: A written list of the targeted sources that are contributing to, or have the potential to contribute nutrients to stormwater and the education and outreach activity for the targeted sources.



<b>Part I.E.1.c.iii Nutrients Table (as of December 31, 2022)</b>				
<b>Target Pollutant / Source</b>	<b>Target Audiences</b>	<b>Activity</b>	<b>Distribution Mechanism</b>	<b>Dates</b>
Sewage, Graywater, Pet Waste	Fairgrounds Campground Users	Postcard/Handout	Campgrounds host provides to campers	All year
Pet Waste	Dog Owners	Pet Waste Signage	Boulder County Fairgrounds and various Parks and Open Space	All year
Pet Waste	Residents	Vehicle/bus advertisement – Bacteria Focused	Busses	August-December
Fertilizer, Pet Waste	Property owners; Pet owners	Newspaper/Magazine Advertisement - Nutrient Focused	Newspaper Advertisement	April and May
Fertilizer, Lawn Waste, Pet Waste	Website Users	Webpages – Nutrient Focused	KICP Website	All year
Fertilizer, Lawn Waste, Pet Waste	Subscribers, General Population	Newsletter and Newsletter Messages - Nutrient Info Included	Email Newsletter	Throughout the year
Fertilizer, Lawn Waste, Pet Waste	K-5 Students	Presentation to Schools- Nutrient Info Included	Educational Activities with Nutrient Messages	Throughout the year
Fertilizer, Pet Waste	Residents	Utility Bill Inserts - Nutrient Info Included	Utility Bill Inserts	June, July
Sediment/nutrients from construction	Construction	Informational materials, contact information	KICP website and during MS4 inspections	All year

Part I.E.1.c.iii. Nutrients: A list of citation(s) and location(s) of the written procedures used to determine factors considered and the targeted sources, the prioritized targeted sources, the outreach activities conducted, and the outreach distribution mechanisms.

<b>Part I.E.1.c.iii Nutrient Citation Table (as of December 31, 2022)</b>	
<b>Citation Name</b>	<b>Citation Location</b>
CDPHE Reg. 85	<a href="https://www.colorado.gov/pacific/sites/default/files/WQ_nonpoint_source-Regulation-85.pdf">https://www.colorado.gov/pacific/sites/default/files/WQ_nonpoint_source-Regulation-85.pdf</a>
EPA Nutrient Fact Sheet	<a href="https://www.epa.gov/sites/production/files/2018-06/documents/epa-nutrient-ig1_v6t_2.pdf">https://www.epa.gov/sites/production/files/2018-06/documents/epa-nutrient-ig1_v6t_2.pdf</a>



KICP Education & Outreach Strategy	<a href="https://www.keepitcleanpartnership.org/wp-content/uploads/2021/03/KICP-Education-and-Outreach-Strategy_Final_3_8_2021.pdf">https://www.keepitcleanpartnership.org/wp-content/uploads/2021/03/KICP-Education-and-Outreach-Strategy_Final_3_8_2021.pdf</a>
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