

PROJECT UPDATE

Lauderdale Flood Mitigation Project

MARCH 2023

PROJECT OVERVIEW

The Lauderdale Flood Mitigation Project has been initiated to reduce the risk of flooding in the Lauderdale and area neighbourhoods.

Lauderdale is serviced with a mix of combined sanitary and storm lines, as well as separated sanitary and storm lines. In a combined system, both sanitary flows (i.e. from private service connections) and stormwater flows (i.e. from street catch basins) flow together in the same pipe. There is no stormwater management facility in the neighbourhood, and the current overland (or surface drainage system) is not sufficient. There are several areas in this neighbourhood at lower elevation where water pools, which puts the Lauderdale community at risk of flooding during intense rainfall events.

To reduce the flood risk, EPCOR will be constructing a dry pond in the Grand Trunk Off-Leash Dog Park and installing/upgrading various storm infrastructure throughout the Lauderdale neighbourhood.

Dry ponds are stormwater management facilities, which are dry the vast majority of the time. These facilities are designed to temporarily hold stormwater when the drainage system cannot handle the water volumes due to severe storm events. Events such as thunderstorms are challenging to predict because they can come with little warning. They can be very intense for a short period of time in a localized area causing flooding of roads, properties and sewer backups in basements.

During severe storm events, dry ponds act as storage facilities and help protect local homes and businesses. The stormwater will then drain from the dry ponds into the downstream drainage system when there is capacity.

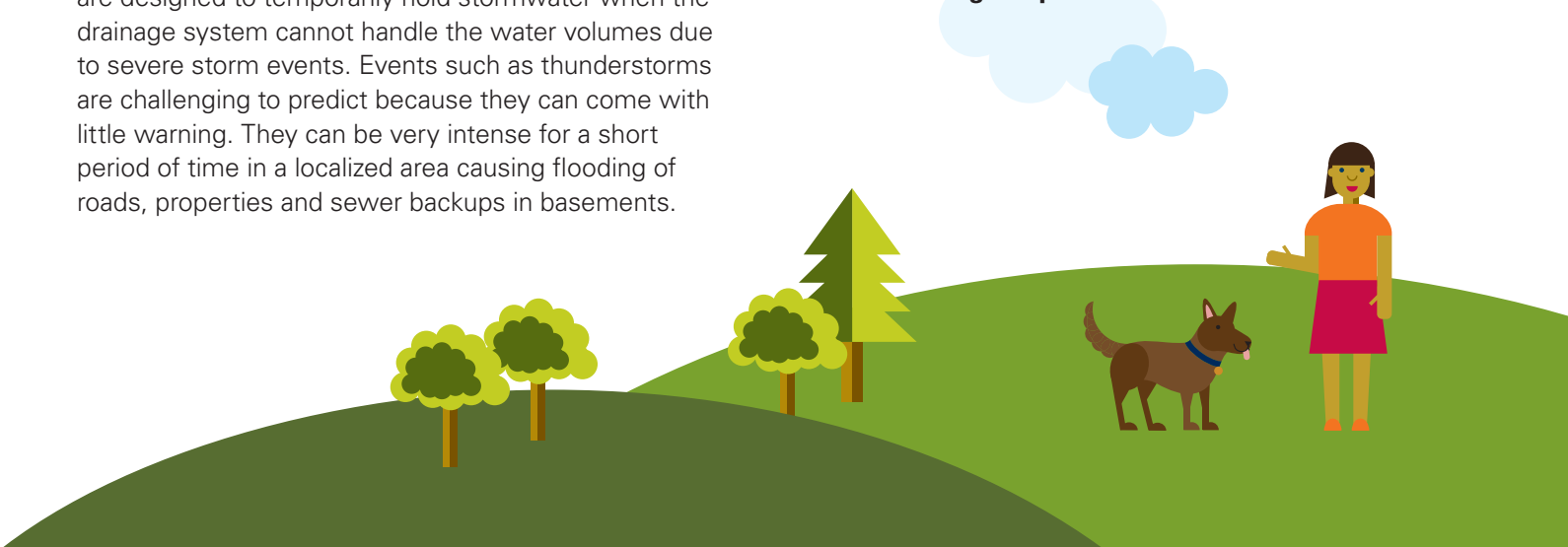
This project is currently in the preliminary design phase and is part of EPCOR's Stormwater Integrated Resource Plan (SIRP), which aims to reduce the risk of flooding in Edmonton neighbourhoods and is funded in part by the Government of Canada's Disaster Mitigation and Adaptation Fund (DMAF).

PROJECT SCHEDULE

Construction of the dry pond and storm infrastructure upgrades work is anticipated to start in 2024, after public engagement has been completed and final designs have been approved.

PROJECT UPDATES

If you would like to receive updates on the Lauderdale Flood Mitigation Project, including opportunities to provide feedback, please send your email address to EPCORdrainage@epcor.com.



DID YOU KNOW?

This is what a typical dry pond, with usable recreation space, can look like.

The dry pond was built in the park space next to Steinhauer School (10717 32A Avenue) in 2021. Originally, the space was home to three soccer fields (U7, U11, U13) and a baseball diamond that were well-utilized by the school and community.

EPCOR engaged with the community to collect information on priorities for replacement sports fields. There was no clear community preference for soccer or baseball-only options, so EPCOR proposed several soccer-baseball field combinations for the community to vote on. Ultimately, three different sized soccer fields (U7, U9 and U11) and baseball diamond were selected.



- 1 Dry ponds are stormwater management facilities that are designed to stay dry the vast majority of the time.
- 2 Many dry ponds in the City of Edmonton are built in school yards and include recreation facilities such as soccer fields and baseball diamonds.
- 3 There are 79 dry ponds in Edmonton, three of which are off-leash dog parks in the Tweddle Place, Satoo and Meyonohk neighbourhoods.
- 4 Water that is collected in a dry pond drains very quickly, often between one to three hours after a heavy rainfall.
- 5 Dry ponds only start to collect stormwater during severe rainfall events where the drainage system cannot handle water volumes.
- 6 It can take anywhere from six to eight months to build a dry pond, including restoration, depending on the size.
- 7 Dry ponds have gently sloped sides, anywhere from five to ten feet in horizontal length for every one foot of vertical drop.
- 8 Dry ponds have inlet and outlet grates for the drains and are designed to consider the safety of pets and small animals.

Once construction is complete and landscaping established, the dry pond area will return to its existing size for use as part of the fenced Grand Trunk Off-Leash Dog Park, with enhanced amenities that are based on input from the community and park users, and final decision by the City of Edmonton.

COMMUNITY ENGAGEMENT

EPCOR is committed to an engagement approach that provides project transparency, a process to manage any questions or issues, and provides meaningful communication to residents.

We recognize the importance of the Grand Trunk Off-Leash Dog Park to the Lauderdale community and dog park users, as the off-leash dog park allows owners and their dogs to spend time together and allows dogs a space for play and socialization.

It is EPCOR's responsibility to build the dry pond and maintain the underground drainage infrastructure. However, once the project is complete, the ownership and responsibility for maintenance of the dry pond surface, vegetation and amenities will rest with the City of Edmonton.

EPCOR has hosted multiple public information sessions for the Lauderdale Flood Mitigation Project where residents and dog park users learned about the project, asked questions, identified concerns and issues and provided feedback on identified design elements of the project.

During the five different events, EPCOR discussed the project with 200+ residents and dog park users. Attendees provided meaningful feedback and asked thoughtful questions about the project, what can be expected during construction, and what the dog park will look like once the project is complete.



Lauderdale Flood Mitigation Project open house on November 29, 2022 at the Lauderdale Community League.

The feedback heard to date includes questions, concerns and suggestions on the following project elements:

- Accessibility
- Amenities
- Community flooding
- Construction
- Current usage
- Dry pond design
- Existing drainage issues
- Landscaping
- Maintenance
- Safety

In November 2022, a survey was distributed to get a better understanding of how the Grand Trunk Off-Leash Dog Park is currently used, and the community's and dog park users' priorities for enhancements once the dry pond is built. The feedback will help shape the final design for the dry pond and the associated enhancement options. The enhancements are intended to not only meet the diverse needs of small and big dogs, but also add amenities for dog owners.

The results from the survey, along with feedback from other interested parties, will be provided to the City to make a decision on amenity enhancement options for the detailed design phase of the project. Proposed dry pond layout designs, including the amenity enhancement options, will be presented to the community, dog park users and interested residents for feedback as we progress through the project.

Following a review of all stages for input, the City of Edmonton will make the final decisions related to dog park amenity enhancements.

GRAND TRUNK OFF-LEASH DOG PARK AMENITIES SURVEY RESULTS

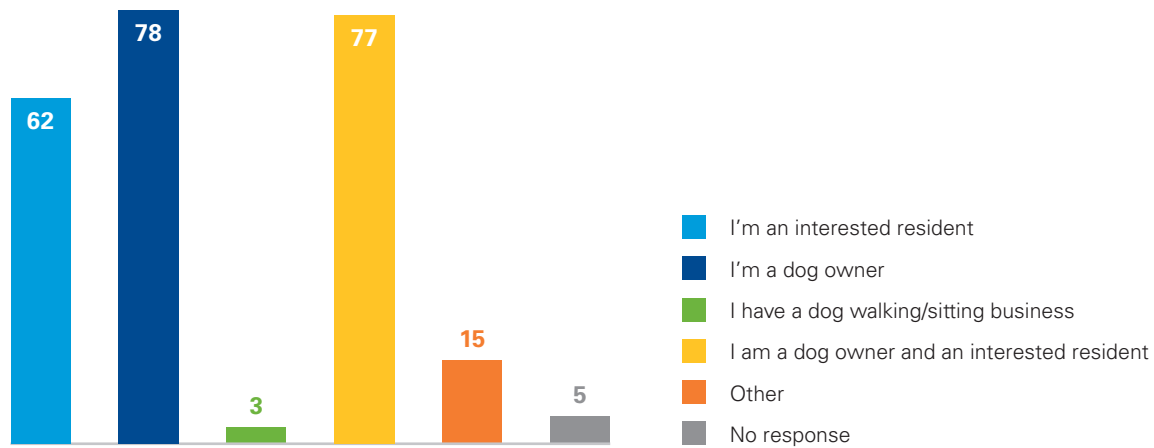
As part of the Lauderdale Flood Mitigation Project, a large portion of the green space in the Grand Trunk Off-Leash Dog Park will be impacted. In November 2022, EPCOR distributed a survey to get a better understanding of how the dog park is currently used, and the community's and dog park users' priorities for enhancements once the dry pond is built.

Thank you to all who participated! We received 143 responses. Your feedback will help shape the final design for the dry pond and the associated enhancement options.

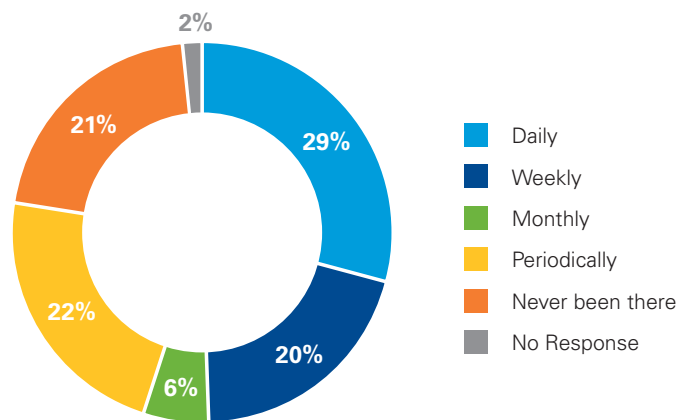
Please see the results of the survey below and on the following pages.

1. Which of the following best describes you? Please select all that apply.

Please note, the numbers shown represent the actual number of respondents.

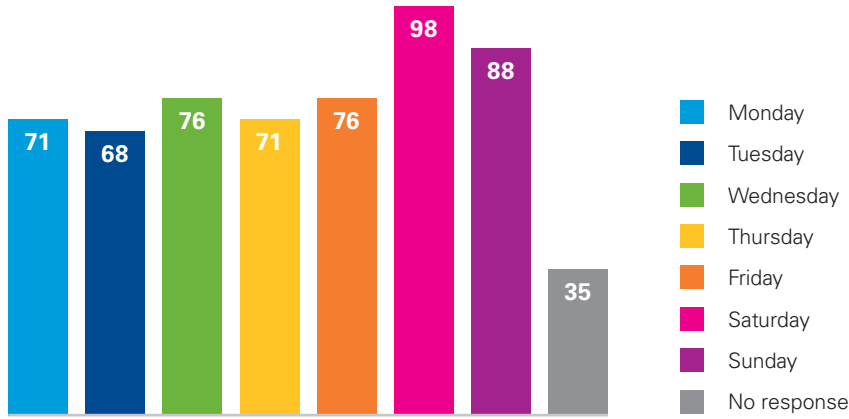


2. How often do you visit the Grand Trunk Off-Leash Dog Park?



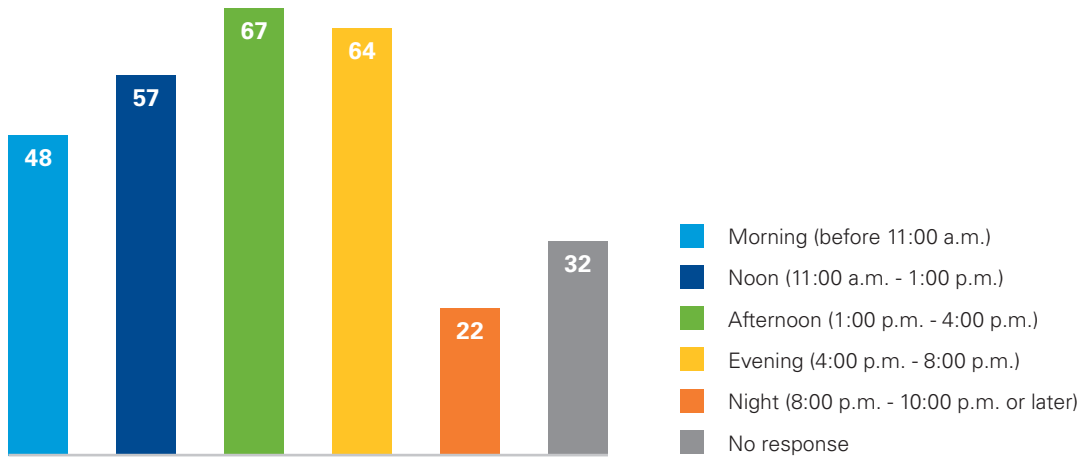
3. What days do you, or would you, visit? Please select all that apply.

Please note, the numbers shown represent the actual number of respondents.



4. What times of day do you, or would you visit? Please select all that apply.

Please note, the numbers shown represent the actual number of respondents.

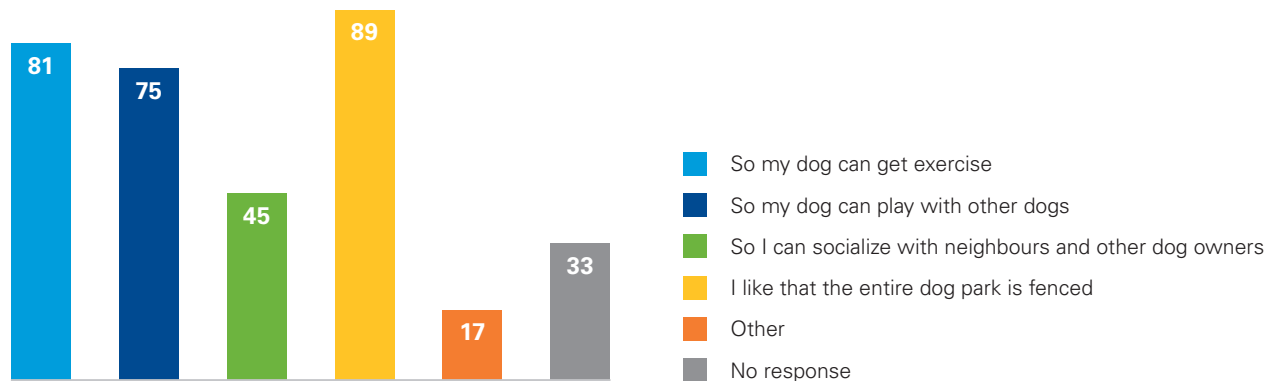


5. Do you use the larger main dog park area, the small/shy dog area, or both?



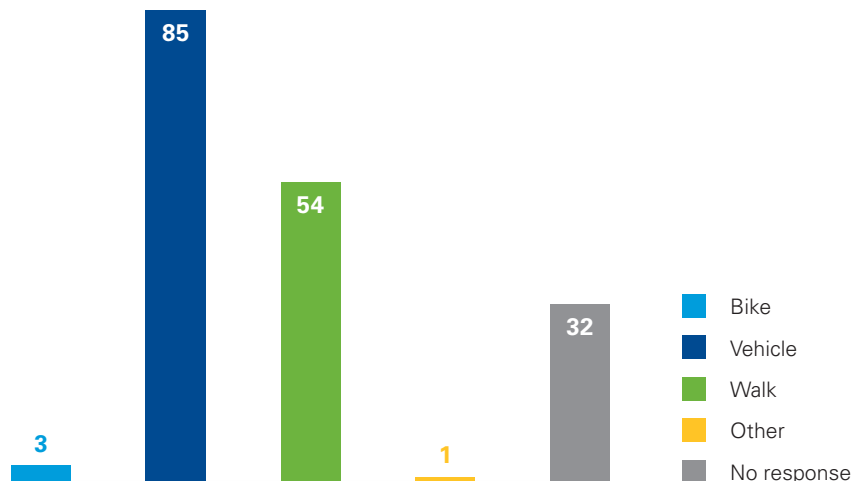
6. Why do you visit the Grand Trunk Off-Leash Dog Park? Please select all that apply.

Please note, the numbers shown represent the actual number of respondents.



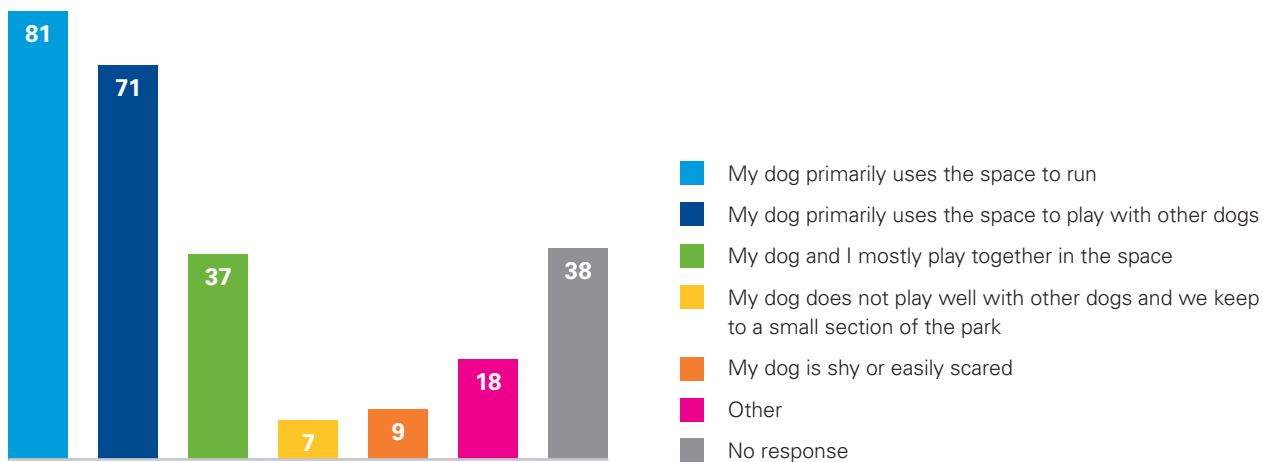
7. Which modes of transportation do you use to visit the Grand Trunk Off-Leash Dog Park? Please select all that apply.

Please note, the numbers shown represent the actual number of respondents.



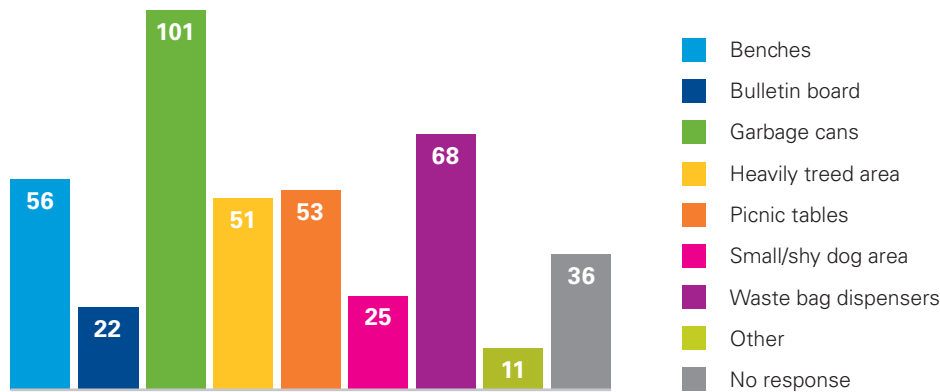
8. Please help us understand how your dog typically uses the off-leash area. Please select all that apply.

Please note, the numbers shown represent the actual number of respondents.



9. What existing amenities do you and your dog typically use at the Grand Trunk Off-Leash Dog Park. Please select all that apply.

Please note, the numbers shown represent the actual number of respondents.



10. What do you like about the Grand Trunk Off-Leash Dog Park?

The top 8 recurring themes, based on the number of comments received, were:

- Fully fenced
- Size
- Convenient
- Good for all dogs
- Easily accessible
- Safe
- Trees
- Sense of community

11. What do you dislike about the Grand Trunk Off-Leash Dog Park?

The top 5 recurring themes, based on the number of comments received, were:

- Lack of amenities (ie. water, trees, washrooms, lighting, shelter from rain/wind, etc.)
- Safety concerns (ie. coyotes, encampments, aggressive dogs, etc.)
- Poor maintenance
- Irresponsible owners
- Traffic congestion

12. What other dog parks do you enjoy, and why?



The top 5 locations, based on the comments received, were:

- Buena Vista/Laurier
- Deermound
- Hermitage
- Manning
- Terwillegar

13. Are there any other comments you would like to share with us about the Grand Trunk Off-Leash Dog Park?

The top 5 recurring themes, based on the comments received, were:



Important to residents and dog park users



Maintain usable park space



Improve safety



Maintain year-round access

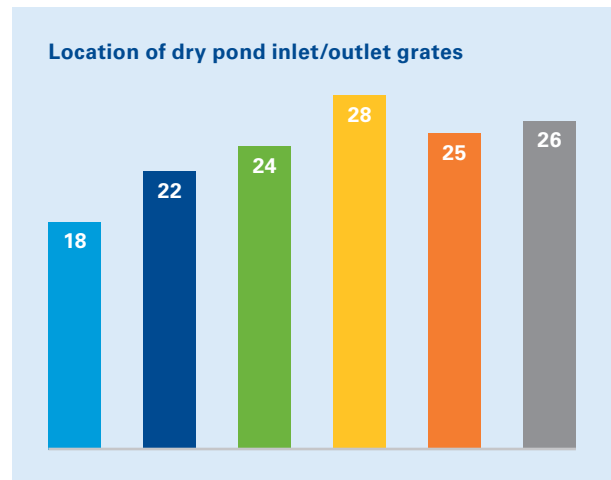
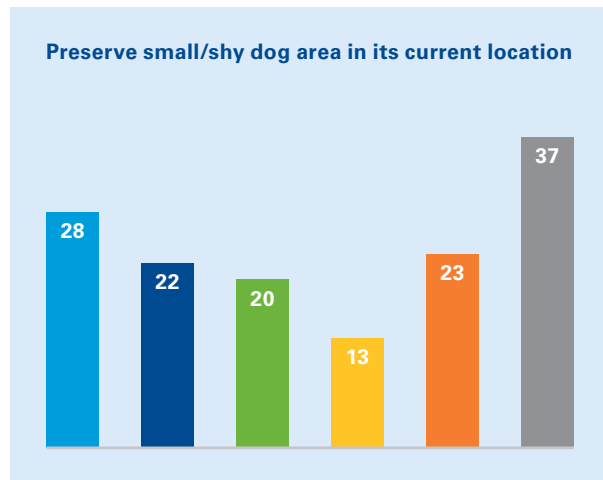
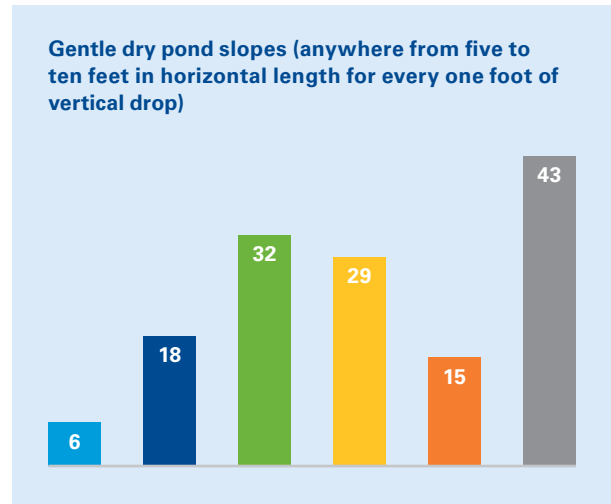
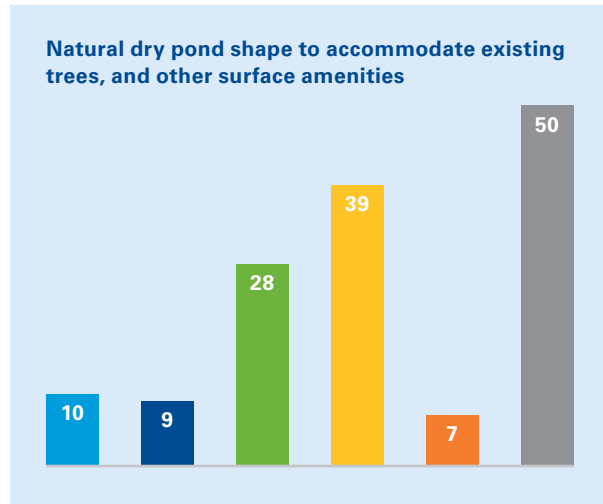


Parking concerns

14. Dry Pond Design. Please indicate the importance of each of the dry pond design considerations below.

Please note, the numbers shown represent the actual number of respondents.

■ Not Important
 ■ Slightly Important
 ■ Important
 ■ Very Important
 ■ No Opinion
 ■ No Response



Respondents were also asked if they had any additional comments about the dry pond design considerations listed above.

The top 5 recurring themes, based on the comments received, were:



Safe accessibility



Low maintenance vegetation



Maintain usable park space



Visible sightlines



Natural look

15. Amenities and Landscaping. Please rank the following potential amenity enhancement options in order of preference by writing a different number beside each option (1 = most important).

The amenity and landscaping enhancement options, ranked in order of preference, were:



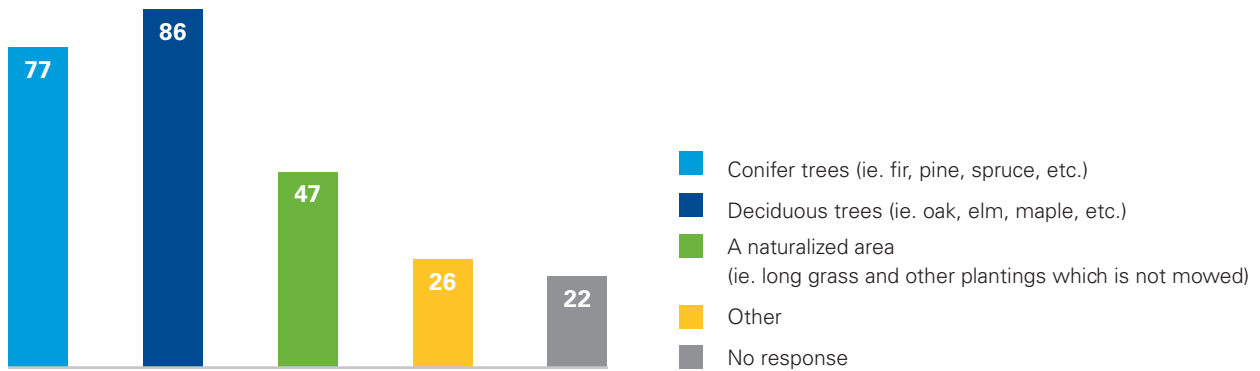
Respondents were also asked to provide additional suggestions for enhanced amenities.

The top 5 additional amenity suggestions, based on the comments received, were:

- ✓ Water supply
- ✓ Lighting
- ✓ Washrooms
- ✓ Shelter
- ✓ Improved and consistent maintenance

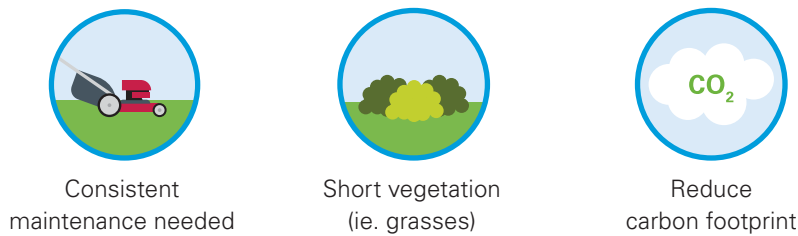
16. What kind of landscaping enhancements (or required replacement from construction) would you prefer to see? Please select all that apply.

Please note, the numbers shown represent the actual number of respondents.

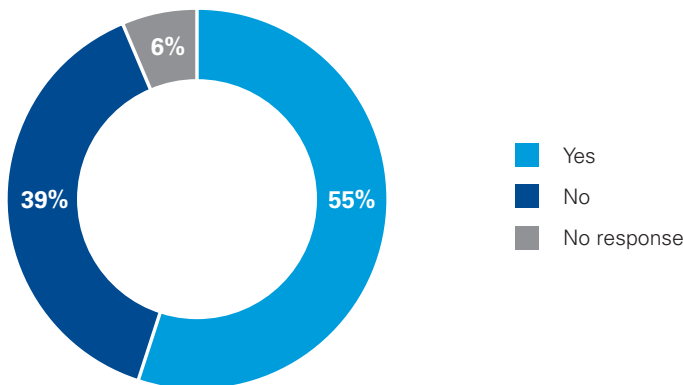


Respondents were asked to provide additional comments about the landscaping enhancement/replacement options listed above.

The top 3 recurring themes, based on the comments received, were:

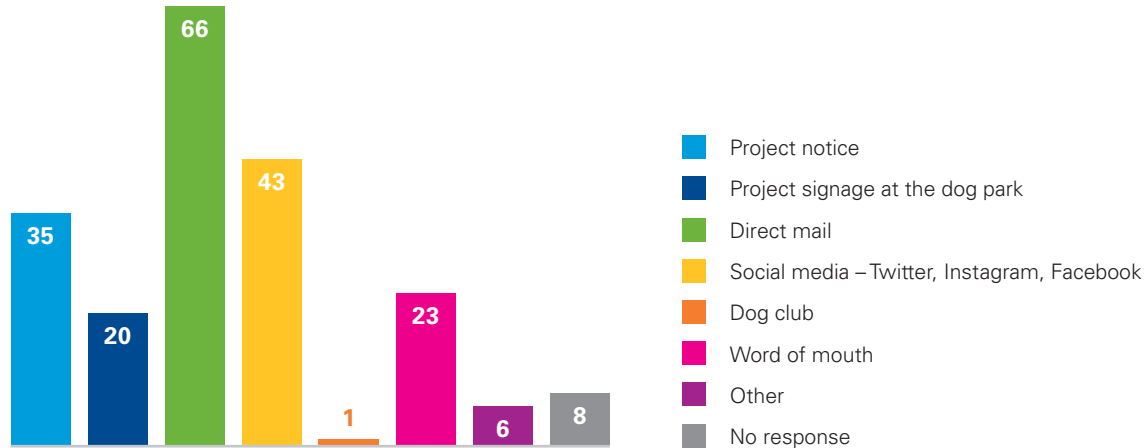


17. Are you a resident of Lauderdale?



18. How did you find out about this survey?

Please note, the numbers shown represent the actual number of respondents.



19. Do you have any other comments?

The top 4 recurring themes, based on the comments received, were:



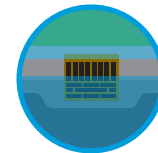
Maintain usable park space



Consistent maintenance needed



Maintain year-round access



Flood protection needed

NOTE: Based on the information gathered in this survey and other engagement opportunities, proposed dry pond layout designs, including the selected amenity enhancement options, will be presented to the community, dog park users and interested residents. This will provide opportunity for feedback as we progress through the project.

MORE INFORMATION

EPCOR Drainage Services

Phone: (780) 509-8080

E-mail: EPCORdrainage@epcor.com

This project is funded in part by the Government of Canada.