



# Sustainability Planning & Oil and Gas Update

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City Council Meeting December 5, 2022

# **Municipal Operations**

**Potential Projects - 2023**

Associated Goal	Title	Description	Total Cost/Scalable
Education			
	Employee Challenges	Set up 10-12 monthly challenges such as 40-gallon challenge to educate staff; design steps; enter data, report cumulative savings (TBL) and distribute prize in addition to Kazoo pts.	\$500
	Seminars	Education: Staff/Contractors: exam prep Well Building AICP, LEED etc.	\$1,000
	Test Fees	Pay fees for staff interested in IPM, LEED, Well Building Certifications	\$3,000
	Storm water Webinar	Webinar for developers about storm water protection	
Energy: Efficiency & Renewables			
	PV Training	Launch a training program for solar technicians or EV mechanics.	3000
Sustainability, Adaptation & Mitigation			
	Extreme Heat Passes	Work on program to communicate to vulnerable population about resources for extreme weather events (heat, cold). Possible day pass as recreation centers?	200
	Set-Up Paid Internship Program to support sustainability projects		9300
Waste Diversion			
	Group Buy - Composters/Green Cones	Set up program to subsidy cost of composters for businesses and residents.	1000
Alternative Fuel/Active Transportation			
	Safe Routes to School	Construct protected bike lanes and strip areas	5,000
	Bike Share	Work with Lime or Spin to host a bike share program in C3	1000

Associated Goal	Title	Description	Total Cost/Scalable
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Water Conservation			
	Low Impact Development Pilot	LID Pilot: Include installation of permeable pavers on some of the parking lots (i.e., Buffalo Run Clubhouse and Maintenance Building, Civic Center, Childcare Center, Service Center)	
	Turf Replacement Program	Develop and administer program so homeowners and/or businesses can replace lawns with drought tolerant plantings.	5000
	Audubon Certification	Hire hourly to complete documentation for Audubon Certification for Golf Course or select park. (Supplies - plant replacements, irrigation)	\$2,000
Health & Well Building			
	Launch Anti-Idling Campaign	Pass resolution, design and install signs.	3,000
Purchasing & Funding			
		Upgrade to LED lighting for sports fields, courts and at select parks including Pioneer and Monaco Park.	5000
Biodiversity & Tree Canopy			
	Tree Canopy Survey	Conduct canopy survey (hourly assistance/software)	3,000
	Tree Planting	Partner with Arbor Day, CSU, A1 Organics to plant trees (street median, parks, Sand Creek Trail)	5,000
	Community Garden	Build community garden at Affordable Housing Unit or Apt	3,000
			\$50,000



# Commerce City Sustainability Plan

Recommendations to improve community-wide environmental health and sustainability

DRAFT

## Commerce City Targets



Energy use is reduced by 25% by 2030 and 40% by 2050.



Electrification is adopted by 15% of new buildings by 2030 and 60% by 2050.



Rooftop and Community Solar is utilized by 40% of households by 2050.



Vehicles on the road are 30% EVs by 2030 and 75% EVs by 2050.



Idling time is reduced by 78% by 2030



There is a 20% mode shift by 2030 and 50% mode shift by 2050 towards greater use of transit, bikes, walking, etc.



Waste diversion increases to 85% by 2050.



Any new oil and gas wells developed within City limits are carbon neutral.

# Lotus Updates

Sustainability Action Plan

# Policy Development Process

## **Greenhouse gas inventory**

Business-as-usual + strategy models

## **Air and water quality technical assessments**

Monitoring + pollutant inventories

Policy recommendations

## **Municipal operations sustainability evaluation**

## **Stakeholder engagement**

EPAC

Community survey

Community meeting

Civic engagement training

Community dinner conversations

Intercept interviews

# EPAC Recommendations

## Education & Outreach

Support local workforce development programs.

Develop stronger feedback and engagement mechanisms between City and community re. sustainability actions.

Develop and promote a sustainability business program.

## Energy Efficiency

Adopt and enforce most recent IECC code packages.

Develop codes to require energy efficient appliances and programs to assist low-income/affordable housing.

Educate and offer incentives to help businesses fuel-switch appliances.

## Renewable Energy

Develop regulations to require emissions neutral new oil & gas projects and implement reverse setbacks, including reassessment of AQ standards and monitoring and compensating impacted communities.

Support community-scale renewable energy projects and programs.

Advocate for an aggressive Clean Energy Agenda at the State level.



## Transportation

Improve pedestrian safety in target areas through wider sidewalks, better street lighting, and crossing paths at key intersections.

Develop anti-idling resolution and enforce around public schools.

Apply for Safe Routes to School Grant.

## Community Health

Conduct epidemiological study to analyze impact of pollution on community.

Waive fees to rec centers on extreme heat days.

Identify and monitor key metrics to reduce barriers to accessing healthcare.

## Funding & Purchasing

Support Climate Action Network letter.

Develop roadmap to removing and preventing pollution from industrial facilities.

Reassess AQ standards and monitoring.

Explore incentives to enable renewable energy and energy efficiency technologies.

## **Adaptation & Mitigation**

Participate in State level regulatory and legislative process for sustainability initiatives.

Declare a climate crisis to generate momentum behind sustainability and potentially open emergency funding for environmental programs.

Publicize information on recent sustainability-related State legislation.

## **Recycling & Waste Diversion**

Update waste management contract to implement policies aimed at increasing waste diversion.

Develop ordinance requiring recycling and compost in large multi-family and commercial properties.

Work with community to enable curbside composting and recycling services and support free compost facilities for low-income, DI neighborhoods

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## Water\*

Develop educational campaign on PFAS and support distribution of PFAS tests to community.

Identify threats to WQ in C3 residences and provide filtration systems to households that exceed federal standards.

Develop program to convert street yards to native plant gardens.

\*Work with SACWSD

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## Biodiversity, Tree Canopy, and Food

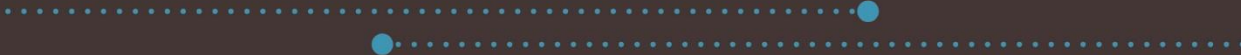
Develop landscaping standards to support nature-based pollutant capture and resilient green spaces in AQ-impacted areas.

Identify aging or diseased trees for replacement with native species.

Identify feasible locations for fruit trees and urban food production.



# LEGISLATIVE & REGIONAL LEADERSHIP



A black and white photograph of a starry night sky over a mountain range and a lake. The sky is filled with numerous stars, and the mountains in the background are silhouetted against the dark sky. The lake in the foreground is calm and reflects the light from the stars.

**Grant Opportunities: Justice 40  
and State Funding EJ  
Grant Partnerships**

# Oversight Services at Republic Services Tower Landfill

- Staff has been working with Tri-County Health Department regarding the required the Intergovernmental Agreement for the.
- Tri-County will no longer be in service after December 2022.
- The draft agreement will be between Adams County Health Department and Commerce City.
- ACHD will conduct 4 full scope site visits and 8 limited scope site visits per year



# Suncor Update





# Air Monitoring CCND

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- **Q3 – 2022 (July 1 – Sept. 30, 2022) Acute Health Risk Assessment:**
  - The data indicates that all concentrations of the compounds measured are likely to be without adverse acute health effects, even for sensitive individuals according to federal health assessment guidelines. This is true for compounds measured individually and cumulatively as a group. The latest reports are consistent with all previous quarterly reports.
  
- **Q3 2021 – Q3 2022 Chronic Risk Assessment:**
  - The data collected over the last 15 months did not indicate a potential for chronic non-cancer adverse health effects from exposure to the measured chemicals, both individually and combined, in either the CCND neighborhoods or the reference sites.

# Air Exceedances

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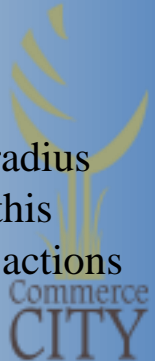
**Event Date:** 11/11/2022

**Event Title:** Plant 3 Main Plant Flare Exceedance

Impacted Media (air, water, or soil): Air Operating Unit: Plant 3 Main Plant Flare

**Event Summary:** During normal operation, Plant 3 began rapidly losing instrument air pressure. Soon after the air pressure had started to fall, operations personnel safely shutdown the unit by shutting down the heaters. When Plant 3 lost instrument air, the valve that adds supplemental natural gas to the flare (and thereby controls the flare's combustion zone net heating value (NHV)), was not able to open and caused the flare net heating value to decrease. Operations personnel opened the bypass around the valve that would not open and began to rebuild pressure to put the unit into circulation to restart the unit once it was stable. This event began on 11/11/2022 at 5:15 a.m. and ended on 11/11/2022 at 5:30 a.m. when instrument air was returned to operational status and supplemental fuel was added into the flare. The specific permit terms or conditions exceeded for this event include: Permit Term or Condition Reported Value Combustion zone net heating value (NHV) shall not be less than 270 Btu/scf (15-minute block average) 146 Btu/scf (15-minute block average)

The Commerce City North Denver Air Monitoring network of sensors within a three-mile radius of the refinery did not detect any levels above the acute health reference guidelines during this event. Suncor is investigating this event to determine root cause and appropriate corrective actions





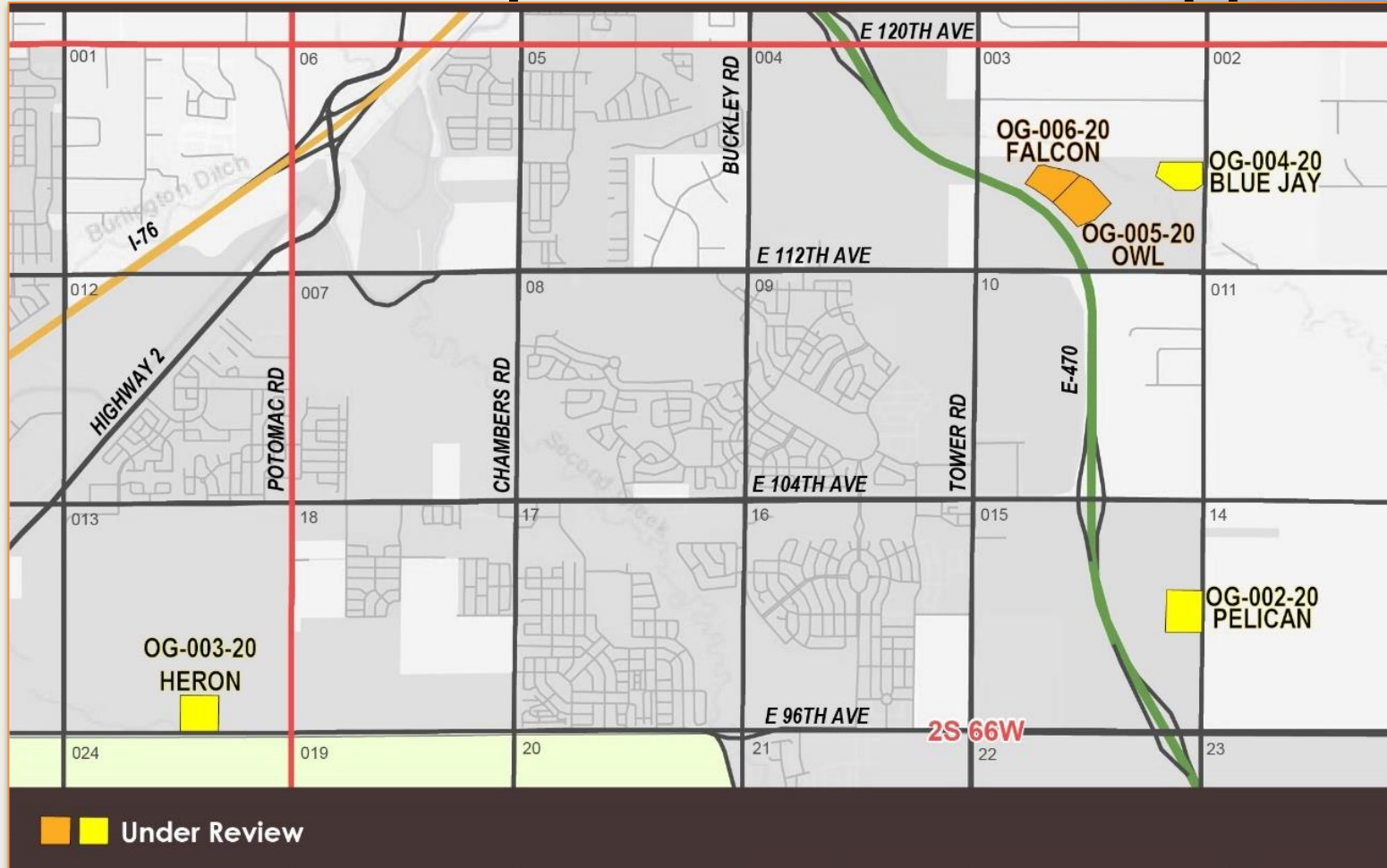
# Oil and Gas Update



# Blue Jay and Pelican – ONLY ACTIVE SITES

## Inactive

No updates to COGCC applications



# Oil & Gas Permits

## Active Permits

Site Name	Case Number	Operator	Council Action Required	Well Count
Pelican	OG-002-22	Extraction Oil and Gas	Conditional Use Permit	28
Blue Jay	OG-004-22	Extraction Oil and Gas	Rezoning	18

## State Spacing – No change

Docket No.	Operator	Location	Date	Status
18030 0262	Petro Operating	Sections 10 & 11, T2S R67W	4/16/2018	Approved
18040 0300	Extraction Oil and Gas	Sections 21, 22 & 23, T2S R66W	4/16/2018	Approved
18040 0284	Extraction Oil and Gas	Sections W 26, 27 & 28, T2S R66W	4/16/2018	Approved
18070 0524	Great Western Operating	Sections 32 & 33, T1S R66W	4/16/2018	Approved
19030 0473	Extraction Oil and Gas	Sections 3, 4 & 5, T2S R66W	2/25/2019	Pending
19030 0476	Extraction Oil and Gas	Sections 9 & 10, T2S R66W	2/25/2019	Pending
190300230	Extraction Oil and Gas	Sections 15 & 16, T2S R66W	2/25/2019	COGCC Consent Agenda
		Sections S½ 22, 27 & 34, T1S R66W		Consent Agenda

# No Status Changes

Docket No	Operator	Location (Sections)	Intervention Date	Status
180300233	Extraction Oil and Gas	Sections 27 & 34, T1S R66W, Section 3, T2S, R66W	4/16/2018	Withdrawn
180400303	Extraction Oil and Gas	Sections 1 & N ½12, T2S R67W	4/16/2018	Withdrawn
180400304	Extraction Oil and Gas	Sections S ½12 & 13, T2S R67W	4/16/2018	Withdrawn
180600377	Extraction Oil and Gas	Sections 8 & 9, T2S R66W	4/16/2018	Withdrawn
180600433	Extraction Oil and Gas	Sections 11 & 14, T2S R66W	5/25/2018	Withdrawn
180600434	Extraction Oil and Gas	Sections 10 & 15, T2S R66W	5/25/2018	Withdrawn
180600437	Extraction Oil and Gas	Sections 4, 5 & 6, T2S R66W	5/25/2018	Withdrawn
180700555	Great Western Operating	Sections 12 & 13, T2S R67W	7/16/2018	Withdrawn
190600410	Great Western Operating	Sections 1 & 2, T2S R67W	5/17/2019	Withdrawn
190300230	Extraction Oil and Gas	Sections 11 & 12, T2S R66W	2/25/2019	Withdrawn
		Sections 13 & 14, T2S R66W		Withdrawn
190300474	Extraction Oil and Gas	Sections 7 & 8, T2S R66W	2/25/2019	Withdrawn





# Thank You

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