



BRIEFING

Subject: Residential Parking Data

Presented to: Council

Date: April 8, 2024

Submitted by: Avery Vanwynsberghe, GIS
Asset Management Technician

Item #: 7.2

This Briefing is submitted for acceptance into the Corporate Record.

BACKGROUND

Reason for Report

To provide an opportunity for Council to review residential street parking gathered in 2023, and in response to the following motion from the Dec 20, 2023 meeting of the Governance and Finance Committee meeting:

FIN23-444 Motion Arising Moved by Councillor Ram

That the 2024 Operating Budget and Service Review document for Municipal Enforcement Visitor Pay Parking/Resident Parking Permits be amended as follows:

By adding a new 2024 Council Priority:

Briefing on the RPP system regarding daytime use of visitor street parking, no later than the end of Q2, 2024

Summary of Issue

The Resident Parking Permit area was implemented in July 2021 as part of a comprehensive parking management plan which included Visitor Pay Parking in the downtown core. The primary intent of the RPP system was to prevent “over spill” of visitors who may want to avoid paying for parking downtown.

All residents are eligible to apply for the free resident parking permit. The resident permits include:

- RPP-Resident Parking Permit.
- RPP-Banff Business Licence Holder
- RPP-Temp Resident Parking Permit 3 Month Max
- RPP-Temp Worker Parking Permit 6 Month Max
- RPP-Resident's Rental or Repair Shop Loaner

Licence Plate Recognition (LPR) was used to scan plates in residential areas proximate to downtown - both inside and outside the RPP area. This LPR data:

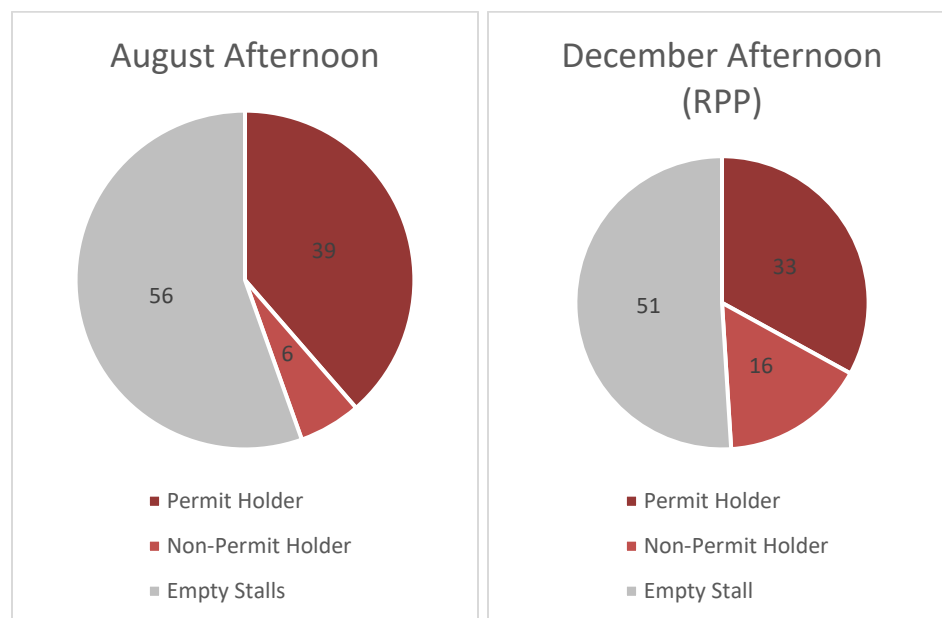
1. provides GPS coordinates to link cars to block faces;
2. can be cross-referenced with the Banff RPP permit holder database;
3. can be cross referenced against provincial data to determine vehicle origins for Alberta vehicles that are not registered on the Banff RPP system (see Legislation/Policy section below).

These scans occurred in peak times in both the summer and winter. Audit dates and times are shown below.

- August evening scan: Tuesday August the 15th and Thursday August the 17th between 6pm-7pm
- August afternoon scan: Saturday August the 5th between 1:40pm – 3pm
- December evening scan: Saturday December 23rd and 30th between 7pm – 8:30pm
- December afternoon scan: Saturday December 23rd and 30th between 3pm – 5:25pm

Results from the plate scans are provided in Attachment 1 and show detail by block face for each of the scans. Some key findings are outlined below:

- The RPP has been successful in keeping street parking stalls open for permit holders; vacant stall count increased from 60 in 2019 to 304 in 2023.
 - 244 additional empty stalls have been created in the RPP zone
 - Occupancy has dropped from 91% to 49%
- Combined composition for August and December audits in the RPP is below:
 - Permit Holder: 279 35%
 - Non- Permit Holder: 109 14%
 - Empty Stalls: 403 51%
- Reviewing the results of the occupancy and the composition results of August and December audits it is clear the RPP has worked well and allows residents to park; residents make up 72% of parked cars.
- In August, Banff resident parking permit holders made up majority of parked cars however in December there was a large increase in unpermitted parking. For example, see below composition results from the afternoon audits.



On street parking composition breakdown for each audit is shown in Attachment 1

- Using the results of the winter audits the unpermitted licence plates were sent be examined to discover where these vehicles are registered. The result shows most vehicles are non-Alberta, Banff, and Calgary registered. Details of this analysis are shown in attached presentation.

Response Options

As outlined above and in the attached presentation the desired outcomes of the Residential Parking Permit programme are being achieved with around 50% occupancy during peak periods and Banff residents accounting for 72% of the parked cars. No changes to the system are recommended and Governance and Finance Committee could accept this Briefing for the corporate record.

OTHER INFORMATION

Budget

Internal Resources

- Data collected and compiled by Engineering, Municipal Enforcement and Planning Departments

Communication

Banff Community Plan

- Provide a transportation system that encourages and complements pedestrian movements and cycling.
- Provide a transportation system that enhances the resident and visitor experience.

Council Strategic Priorities

- Better Banff for Residents
- Lead Climate Action
- Moving into the Future
- Foster Connections

Legislation/Policy

A new data source that was employed by administration in this project is the use of provincial license plate registry data which is accessed through a research agreement with the provincial government. This data will be used in future transportation discussions and administration can provide background on the data as needed.

ATTACHMENTS

Attachment #1 – Residential Parking Presentation

Circulation date: 3/12/2023

Submitted By: Avery Vanwynsberghe
GIS Asset Management Technician

Reviewed By: Kelly Gibson
Town Manager

Residential Parking Data

Motion

In response to motion FIN23-44 in the Service Review meeting of the G&F meeting December 20th a study of the RPP system regarding daytime use of visitor street parking was undertaken. Results of the study will be shared today.

FIN23-444

That the 2024 Operating Budget and Service Review document for Municipal Enforcement Visitor Pay Parking/Resident Parking Permits be amended as follows:

By adding a new 2024 Council Priority:

Briefing on the RPP system regarding daytime use of visitor street parking

Background

- RPP System
 - Implemented in July of 2021
 - Designated streets for residents to park to prevent spillover of visitors avoiding paid parking.
 - All residents are eligible for a resident parking permit.
 - Resident parking permits include:
 - RPP-Resident Parking Permit.
 - RPP-Banff Business Licence Holder
 - RPP-Temp Resident Parking Permit 3 Month Max
 - RPP-Temp Worker Parking Permit 6 Month Max
 - RPP-Resident's Rental or Repair Shop Loaner
 - The RPP System has created parking capacity:
 - vacant stall count increased from 60 in 2019 to 304 in 2023
 - 244 additional empty stalls created

RPP Maximum Occupancy 2019 - 2023

	Maximum* Occupancy %			Vacant stalls at Peak Time*		
	2019	2022	2023	2019	2022	2023
100 BEAVER ST	100%	48%	70%	0	26	7
100 MUSKRAT ST	91%	73%	54%	5	15	26
100 OTTER ST	88%	64%	25%	7	20	51
200 BEAVER ST	100%	51%	63%	0	18	9
200 MOOSE ST	69%	31%	67%	5	11	1
200 MUSKRAT ST	91%	83%	38%	4	8	30
200 OTTER ST	100%	100%	8%	0	0	54
300 BEAVER ST	81%	62%	42%	9	18	25
300 MARTEN ST	82%	58%	47%	11	26	16
300 MOOSE ST	100%	75%	18%	0	3	9
300 MUSKRAT ST	81%	42%	48%	6	18	14
300 OTTER ST	62%	85%	80%	5	2	2
300 SQUIRREL ST - B	100%	92%	100%	0	3	0
400 BEAVER ST	93%	41%	45%	4	34	22
400 BUFFALO ST	100%	86%	14%	0	1	6
400 CARIBOU ST	100%	55%	100%	0	9	0
400 MOOSE ST	100%	50%	23%	0	4	10
400 WOLF ST	100%	88%	41%	0	2	10
500 BUFFALO ST	100%	67%	27%	0	3	8
500 CARIBOU ST	100%	80%	46%	0	2	7
500 MOOSE ST	75%	50%	69%	4	8	4
Total				60	205	304
Average Max RPP % occupancy	91%	66%	49%			
Streets with >90% occupancy	14	2	2			

*Maximum occupancy is on the day with the highest occupancy at peak times (1:00 - 3:00pm) of the days studied.

Source: Summer Transportation Overview 2023 presented to council November 27th, 2023

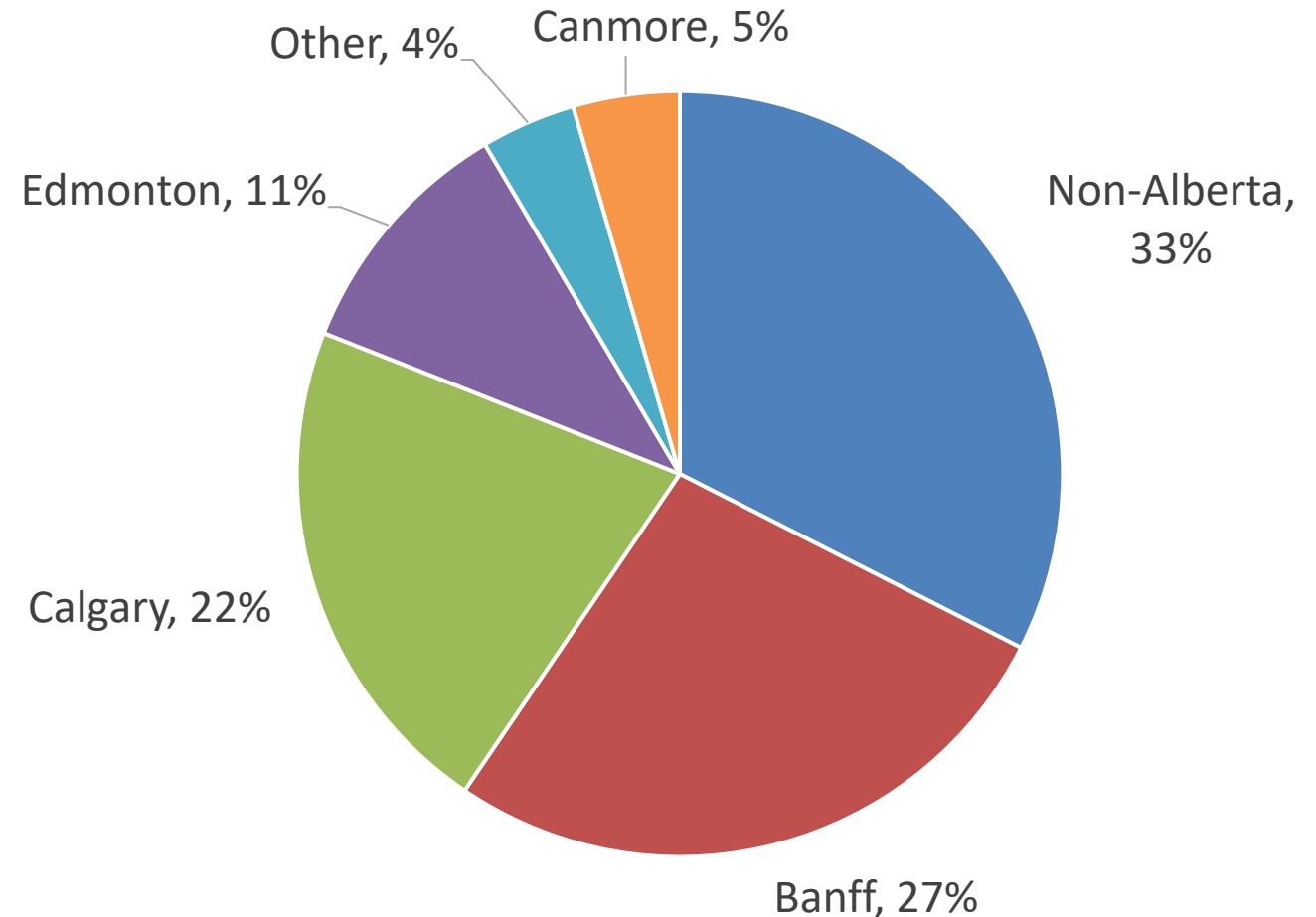
Overview

- To determine how full on-street parking stalls are and to investigate what cars are utilizing stalls, four audits were conducted. Audits were done by driving targeted streets to scan license plates found on street parked cars. Dates of these scans are shown below:
 - August 5th afternoon
 - August 15th evening
 - August 17th evening
 - December 23rd afternoon and evening
 - December 30th afternoon and evening
- Using data from the audit, occupancy and composition of the parked cars were determined. This was done by using the current list of registered Banff parking permit holders and vehicle registration information.

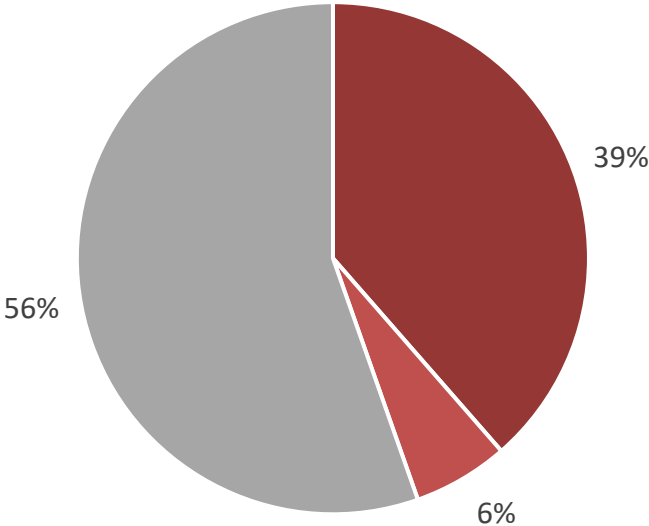
Unpermitted Vehicle Breakdown

- Not all non-Banff registered vehicles should be considered visitors.
- Unpermitted vehicles could be residents without a permit; they stay parked outside of the RPP area and don't drive in town much or are living here temporary who are unaware of the permits available for temporary residents

Non-permit holders parked in and outside of the RPP were registered in the following locations:



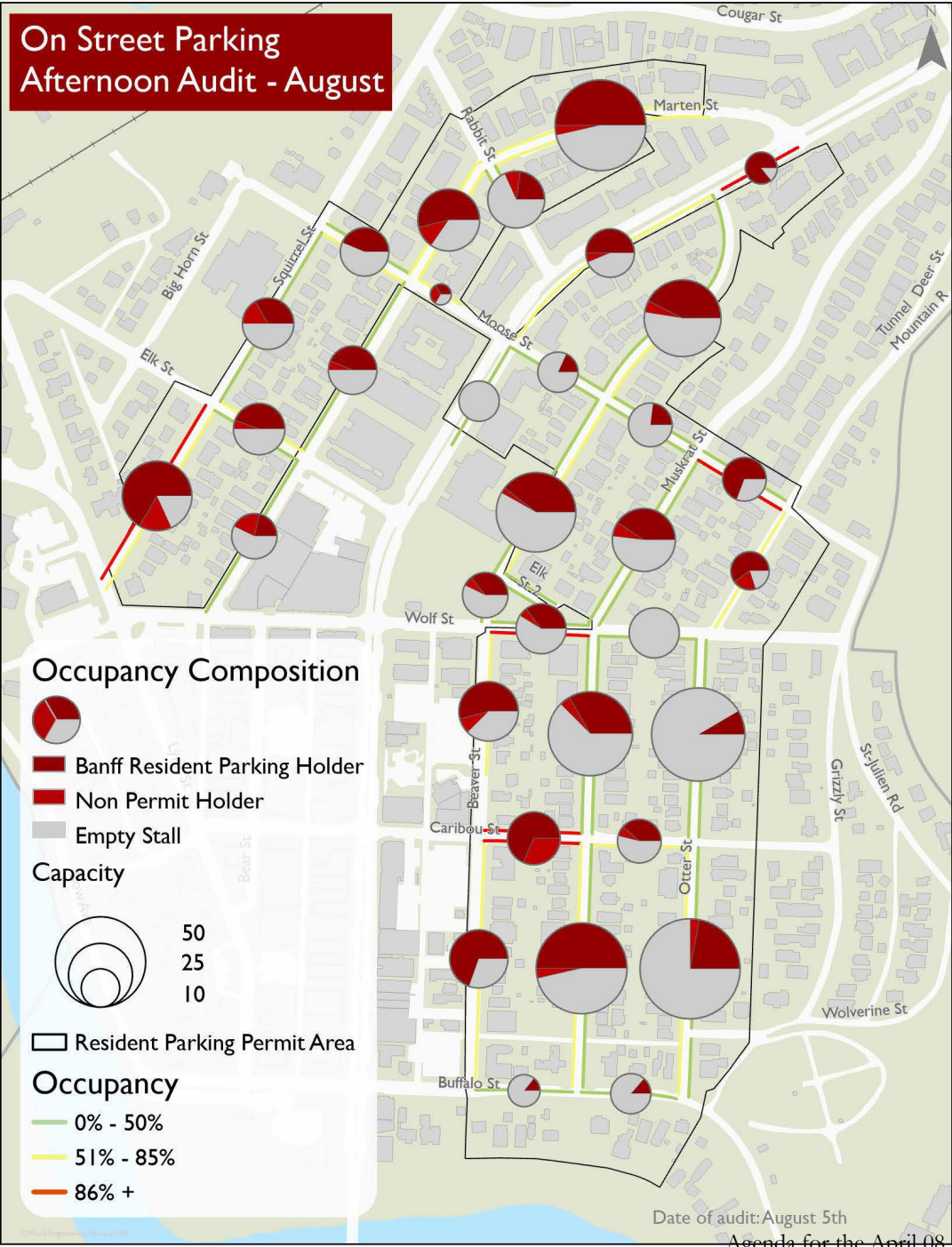
August Afternoon

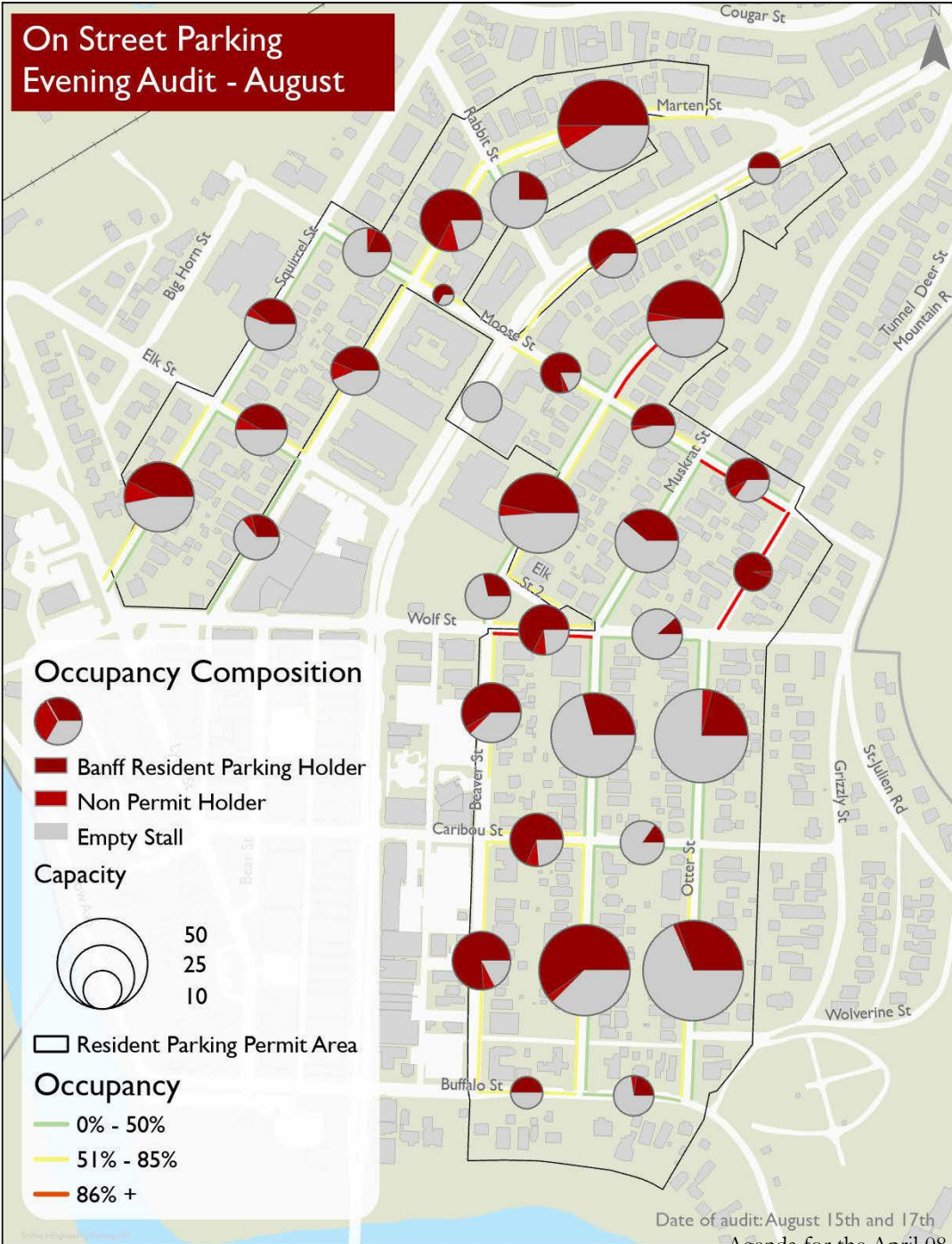


■ Permit Holder ■ Non - Permit Holder ■ Empty Stall

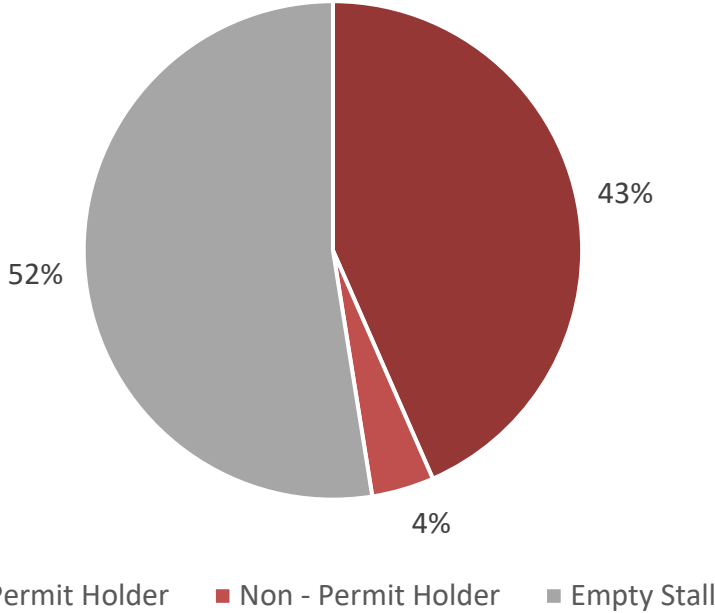
Total number of Spaces: 789
Number of Permit Holders: 304.5
Number of Non- Permit Holders: 46
Number of Empty Stalls: 438.5

- 6 road segments have 86% + occupancy



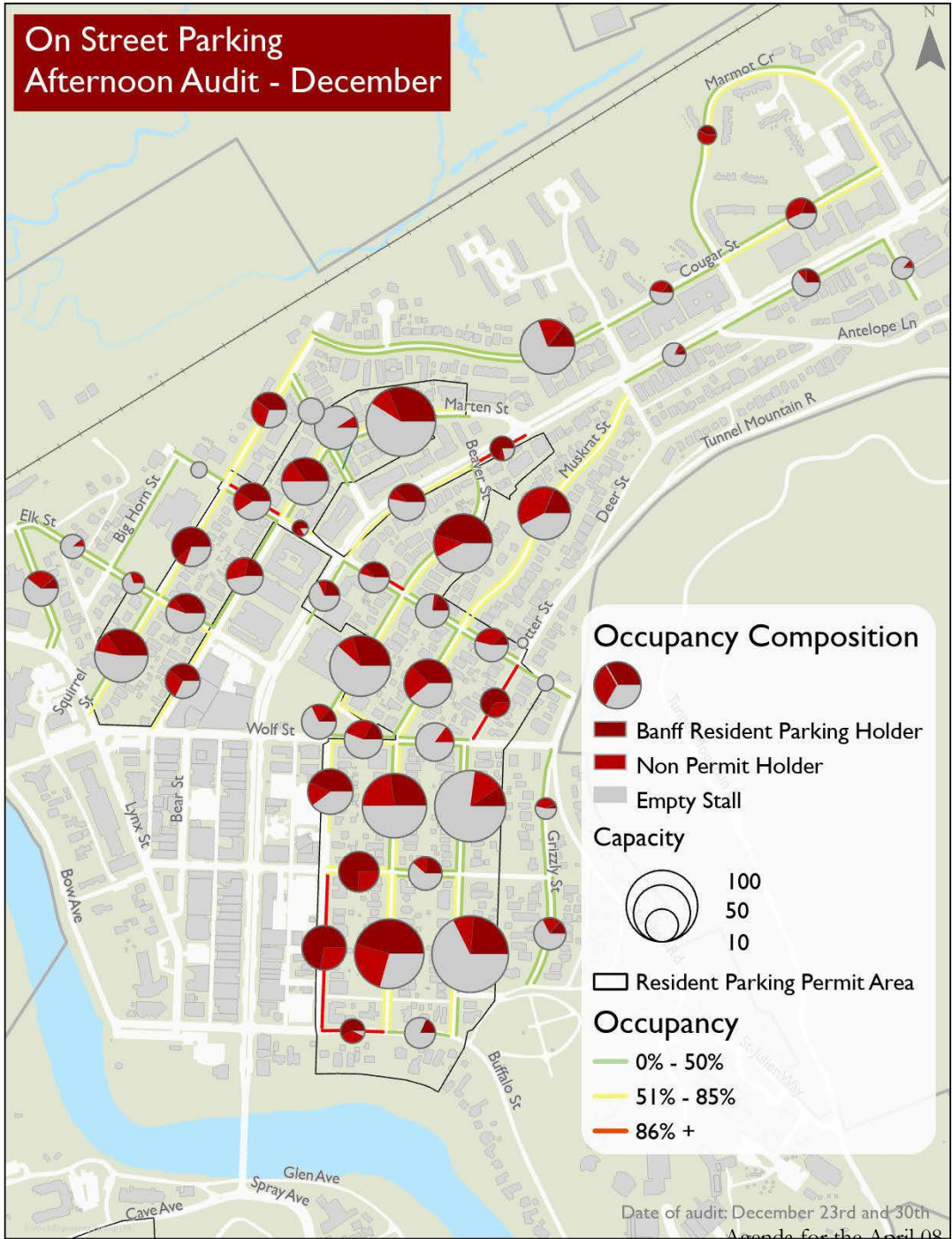


August Evening

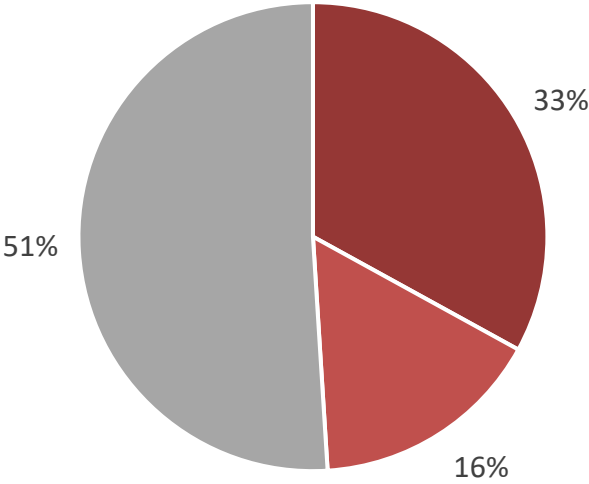


Total number of Spaces: 789
Number of Permit Holders: 341
Number of Non- Permit Holders: 35
Number of Empty Stalls: 413.5

- 4 road segments have 86% + occupancy



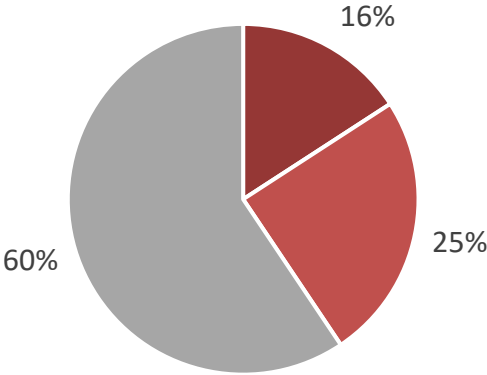
December Afternoon in RPP



Permit Holder ■ Non - Permit Holder ■ Empty Stall

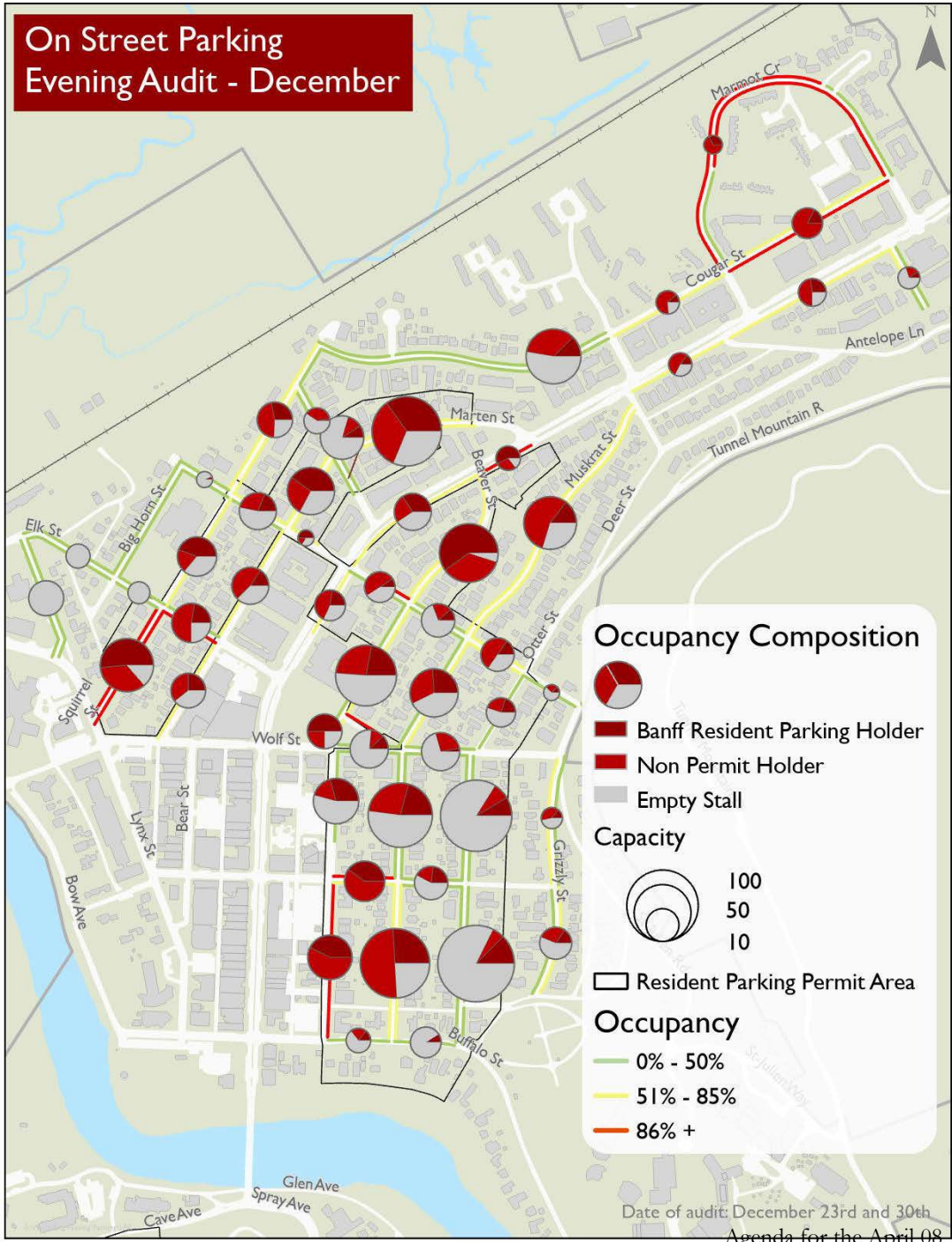
Total number of Spaces: 789
Number of Permit Holders: 262.5
Number of Non- Permit Holders: 128.5
Number of Empty Stalls: 405

December Afternoon
(Streets outside RPP)

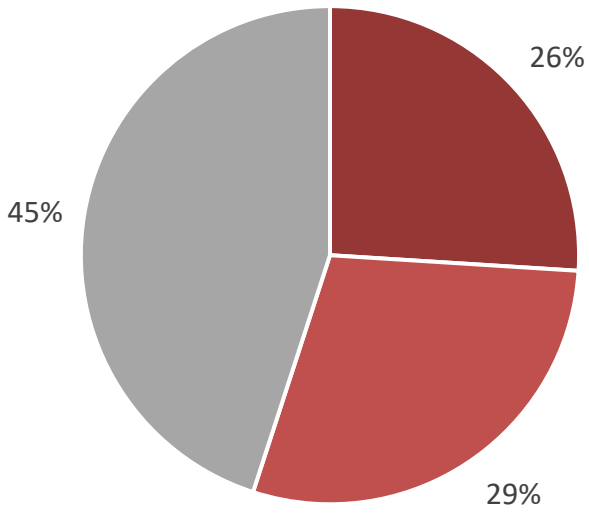


Total number of Spaces: 485
Number of Permit Holders: 78.5
Number of Non- Permit Holders: 122.5
Number of Empty Stalls: 292

- 6 road segments have 86% + occupancy. All 6 are inside the RPP area.



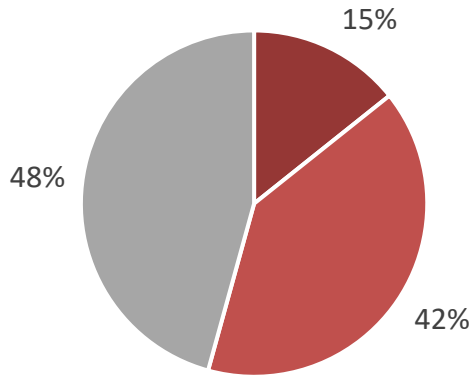
December Evening in RPP



■ Permit Holder ■ Non - Permit Holder ■ Empty Stall

Total number of Spaces: 789
Number of Permit Holders: 208
Number of Non- Permit Holders: 225
Number of Empty Stalls: 356.5

December Evening (Streets Outside RPP)



Total number of Spaces: 485
Number of Permit Holders: 71.5
Number of Non- Permit Holders: 203.5
Number of Empty Stalls: 231

- 11 road segments have 86% + occupancy.
8 of which are in the RPP area.

Summary

- The RPP area is working as designed with keeping space available for residents and deterring visitors from avoiding paid parking.
- RPP has had the effect of freeing up 244 stalls
- RPP has proven effective at:
 - Helping to prevent spillover into streets adjacent to the RPP area.
 - Relocating non-RPP permit holders (e.g. visitors) to other stalls