

KENMORE AUTOMATED PHOTO ENFORCEMENT

ANNUAL REPORT 2023 PROGRAM YEAR

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T ABLE OF CONTENTS

Table of Contents	i
Introduction	ii
Required Reporting	iii
Section 1: System Performance	1
1.1 Notices of Infractions and Warnings Issued	1
1.2 Program Cost and Revenue	2
1.3 Infraction Outcomes	3
Section 2: Site Performance	4
2.1 Kenmore Elementary School Zone on 73 rd Av NE	4
Overall Site Performance	4
Northbound Camera	5
Southbound Camera	6
Crash History	7
2.2 Arrowhead Elementary School Zone on Juanita Dr NE	8
Overall Site Performance	8
Northbound Camera	9
Southbound Camera	10
Crash History	11
Section 3: KAPE-Funded Programs and Projects	12
3.1 Summary of KAPE-Funded Programs and Projects	12
3.2 Description of Programs and Projects	12
Engineering Services	12
Safety Infrastructure Investment	13

INTRODUCTION

In 2014, photo enforcement was identified by the Ad Hoc Pedestrian and Bicycle Safety Task Force as critical step in preventing future fatal crashes on Kenmore streets. In 2020, Kenmore City Council included automated photo enforcement as part of the 2020 Financial Sustainability Plan in order to secure a source of revenue for future traffic safety and pavement management projects and programs. The Kenmore Automated Photo Enforcement (KAPE) Program was authorized by Kenmore City Council in March of 2022.

The Kenmore Elementary school zone on 73rd Av, and the Arrowhead Elementary school zone on Juanita Dr were selected as the first locations for school zone speed enforcement (enforcement of the 20 MPH school zone speed limit during hours when school zone flashers are active), and 61st Av and Bothell Way was selected as the first location for red light enforcement (for eastbound to northbound left-turns only).

The Kenmore Elementary school zone began enforcement with a warning period in April and May 2023, and the Arrowhead Elementary school zone began enforcement with a warning period in May and June 2023, with fines for violations occurring after the warning period was completed.

Because Bothell Way is a state route (SR 522), red light enforcement at 61st Av and Bothell Way began a permitting process with the Washington State Department of Transportation (WSDOT) in 2023, which was not completed in time for enforcement to begin in 2023.

The KAPE program is built on the foundations of being fair, equitable, transparent, and safety-driven. This is reflected in our design of photo enforcement zones which endeavor to achieve the highest compliance and achieve the lowest rate of violations (and thereby the fewest fines) possible. The KAPE program helps create a traffic environment where drivers exercise safe and attentive behavior, where low travel speeds allow for forgiving negotiation of conflicts, and where crashes, when they do occur, are unlikely to result in severe injury.

In its first year of operation, the KAPE program has demonstrated remarkable success at reducing travel speeds in school zones and achieving a remarkably low rate of violations – nearly all drivers traveling through KAPE school zones are able to voluntarily comply with the school zone speed limit, and by the end of 2023 the KAPE program showed a system-wide violation rate of only 1.7% of drivers violating the school zone speed limit by 6+ MPH.

REQUIRED REPORTING

The Revised Code of Washington (RCW) 46.63.220 authorizes the use of photo enforcement cameras and requires that the City publish an annual report which includes at minimum the following information:

- Annual crashes at each photo enforcement location
- Number of Notices of Infraction issued by each camera
- Total program costs as a percentage of revenue
- Use of program revenue which exceeds expenses

Although it is discussed in other report sections in greater detail, this information is reproduced here for ease of reference in order to support the greatest clarity and transparency possible.

Annual Crashes by Location	2023
Kenmore Elementary School Zone	1
Arrowhead Elementary School Zone	5

Annual Infractions Issued by Camera	2023
Kenmore Elementary School Zone - Northbound	1,565
Kenmore Elementary School Zone - Southbound	792
Arrowhead School Zone – Northbound	1,608
Arrowhead School Zone – Southbound	1,188

Program Year at a Glance	2023
Warnings Issued	5,053
Infractions Issued	5,153
Total Revenue	\$304,631
Program Cost	\$84,247
Program Cost as Percent of Revenue	27.7%

Expenditure of Program Revenue	Cost
Staff, Program Operation and Traffic Safety Engineering	\$92,800
Design Consultant, 68 th Av NE Channelization Project	\$700
Engineering Services, Traffic Data Collection on 68 th Av NE, NE 170 th St, and Simonds Rd NE	\$1,700
Arrowhead School Zone Flashers on NE Arrowhead Dr and on NE 153 rd Pl	\$11,000
80 th Av NE Bike Lanes from SR 522 to NE 185 th St (Phase 1)	\$6,700
NE 170 th St Channelization Changes	\$5,500
KAPE Funds Carried Forward	\$102,000

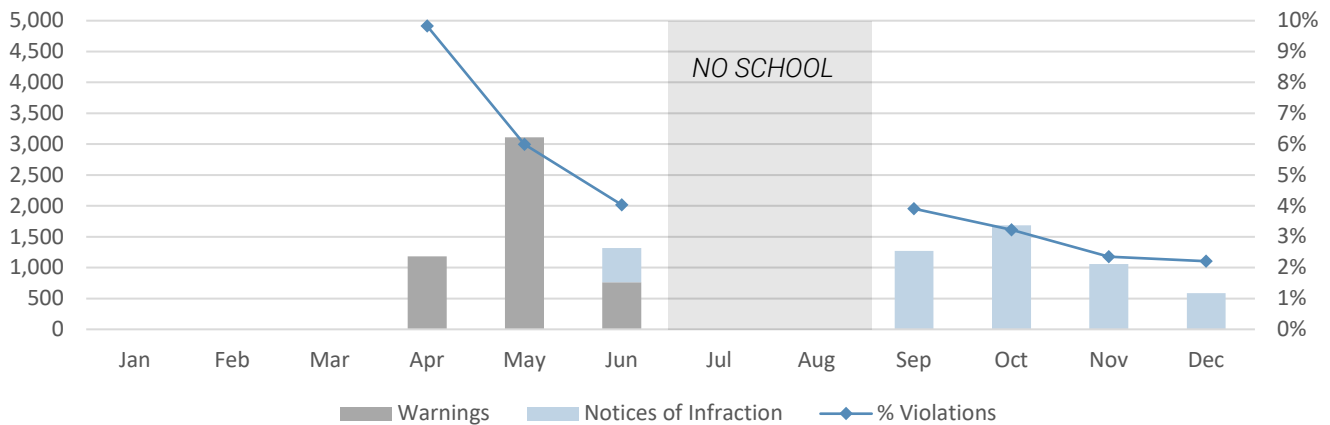
SECTION 1: SYSTEM PERFORMANCE

1.1 NOTICES OF INFRACTIONS AND WARNINGS ISSUED

Photo enforcement for the Kenmore Elementary School Zone KAPE location on 73rd Av became active in April, and warnings were issued for all of April and May. Photo enforcement for the Arrowhead Elementary School Zone KAPE location on Juanita Dr became active in May, and warnings were issued for all of May and June.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Vehicles	0	0	0	12,015	51,920	32,691	0	0	32,447	52,205	44,934	26,600	252,812
Warnings	0	0	0	1,181	3,109	763	0	0	0	0	0	0	5,053
School Zone Speeding	0	0	0	1,081	2,856	713	0	0	0	0	0	0	4,650
Severe School Zone Speeding	0	0	0	100	253	50	0	0	0	0	0	0	403
Notices of Infraction	0	0	0	0	0	556	0	0	1,270	1,683	1,057	587	5,153
School Zone Speeding	0	0	0	0	0	512	0	0	1,171	1,562	981	544	4,770
Severe School Zone Speeding	0	0	0	0	0	44	0	0	99	121	76	43	383
Total Violations	0	0	0	1,181	3,109	1,319	0	0	1,270	1,683	1,057	587	10,206
School Zone Speeding	0	0	0	1,081	2,856	1,225	0	0	1,171	1,562	981	544	9,420
Severe School Zone Speeding	0	0	0	100	253	94	0	0	99	121	76	43	786
% Violations				9.8%	6.0%	4.0%			3.9%	3.2%	2.4%	2.2%	4.0%

KAPE Program Violations
Program Year 2023



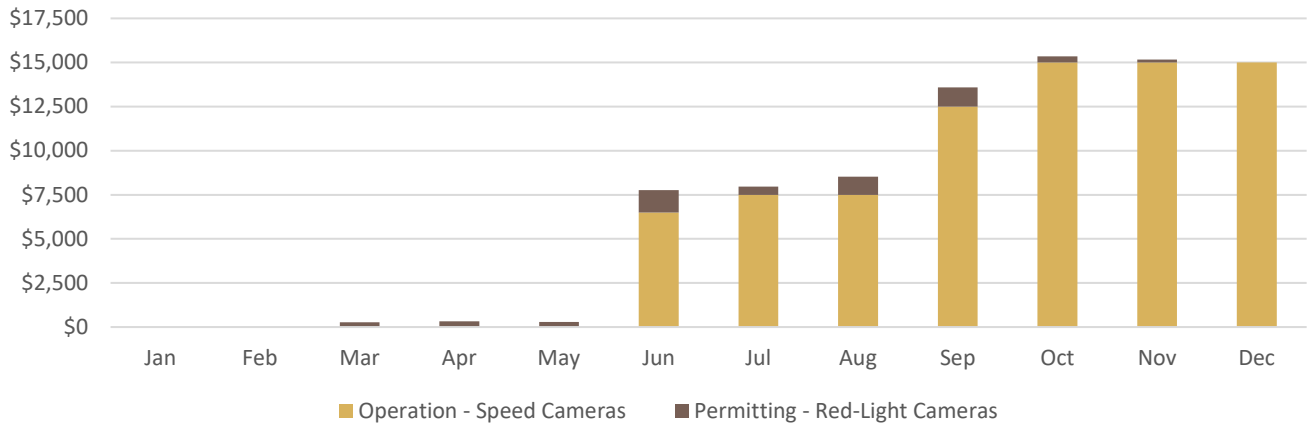
1.2 PROGRAM COST AND REVENUE

The City's revenue is the sum of net remittance to the City after court fees. Court fees for an infraction vary depending on factors such as whether the infraction was contested or whether additional services or processing was required by the court for other reasons. Over a large number of infractions, court fees average roughly \$11 per infraction issued.

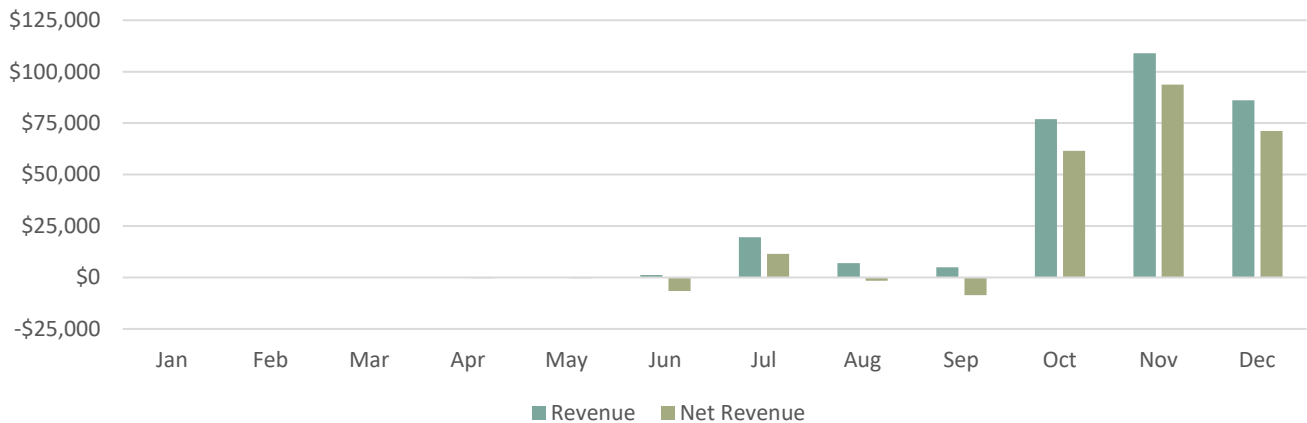
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Operation - Speed Cameras						\$6,500	\$7,500	\$7,500	\$12,500	\$15,000	\$15,000	\$15,000	\$79,000
Permitting - Red-Light Cameras			\$268	\$329	\$289	\$1,255	\$472	\$1,028	\$1,082	\$350	\$174		\$5,247
Total Program Cost			\$268	\$329	\$289	\$7,755	\$7,972	\$8,528	\$13,582	\$15,350	\$15,174	\$15,000	\$84,247

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Revenue						\$1,200	\$19,500	\$6,950	\$4,950	\$76,930	\$108,983	\$86,118	\$304,631
Net Revenue			-\$268	-\$329	-\$289	-\$6,555	\$11,528	-\$1,578	-\$8,632	\$61,580	\$93,809	\$71,118	\$220,384

KAPE Program Cost
Program Year 2023



KAPE Revenue
Program Year 2023



1.3 INFRACTION OUTCOMES

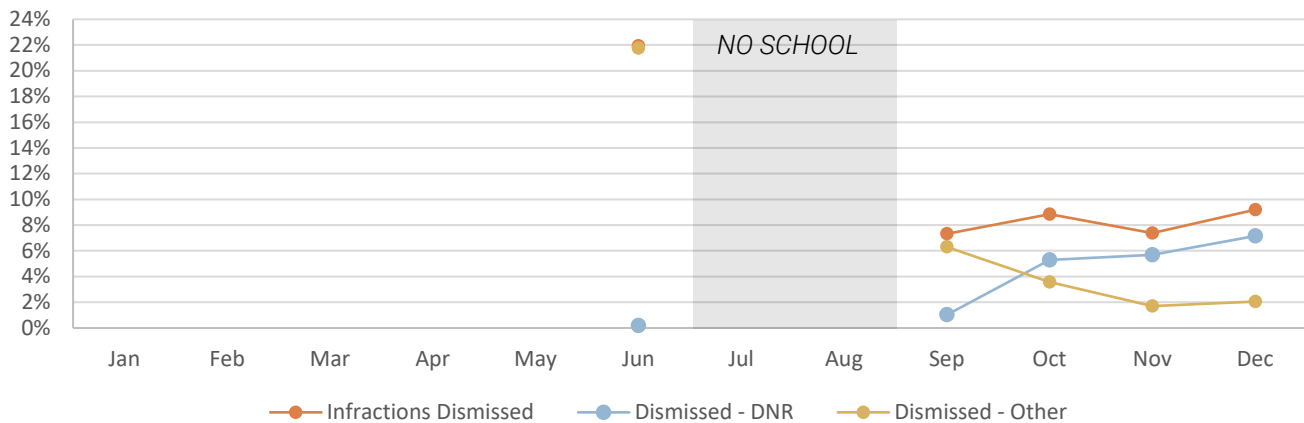
Vehicle owners who receive a Notice of Infraction may complete an Affidavit of Nonresponsibility attesting that they were not the driver of the vehicle at the time the violation occurred. Completing this affidavit results in automatic dismissal of the infraction with Declaration of Nonresponsibility (DNR) as the cause for dismissal. Infractions may also be dismissed for other causes, including financial hardship. There is no time limitation on when an infraction can be dismissed; longstanding unpaid fines can still be dismissed at any time.

All Infractions	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total					
Infractions Issued						556			1,270	1,683	1,057	587	5,153					
Infractions Dismissed						122	21.9%		93	7.3%	149	8.9%	78	7.4%	54	9.2%	496	9.6%
Dismissed - DNR						1	0.2%		13	1.0%	89	5.3%	60	5.7%	42	7.2%	205	4.0%
Dismissed - Other						121	21.8%		80	6.3%	60	3.6%	18	1.7%	12	2.0%	291	5.6%

School Zone Speeding	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total					
Infractions Issued						512			1,171	1,562	981	544	4,770					
Infractions Dismissed						122	23.8%		79	6.7%	127	8.1%	67	6.8%	45	8.3%	440	9.2%
Dismissed - DNR						1	0.2%		9	0.8%	79	5.1%	53	5.4%	34	6.3%	176	3.7%
Dismissed - Other						121	23.6%		70	6.0%	48	3.1%	14	1.4%	11	2.0%	264	5.5%

Severe School Zone Speeding	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total					
Infractions Issued						44			99	121	76	43		383				
Infractions Dismissed						0	0.0%		14	1.2%	22	1.4%	11	1.1%	9	1.7%	56	1.2%
Dismissed - DNR						0	0.0%		4	0.3%	10	0.6%	7	0.7%	8	1.5%	29	0.6%
Dismissed - Other						0	0.0%		10	0.9%	12	0.8%	4	0.4%	1	0.2%	27	0.6%

KAPE Infraction Outcomes
Program Year 2023



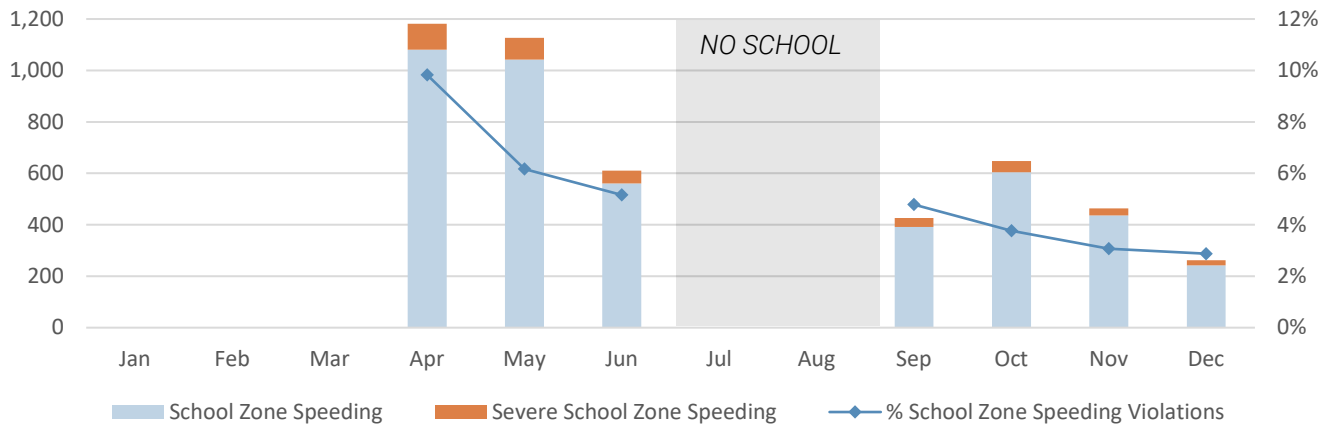
SECTION 2: SITE PERFORMANCE

2.1 KENMORE ELEMENTARY SCHOOL ZONE ON 73RD AV NE

Overall Site Performance

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Vehicles	0	0	0	12015	18267	11834	0	0	8925	17215	15100	9110	92,466
Warnings	0	0	0	1,181	1,127	54	0	0	0	0	0	0	2,362
School Zone Speeding	0	0	0	1,081	1,042	49	0	0	0	0	0	0	2,172
Severe School Zone Speeding	0	0	0	100	85	5	0	0	0	0	0	0	190
Notices of Infraction	0	0	0	0	0	556	0	0	427	648	464	262	2,357
School Zone Speeding	0	0	0	0	0	512	0	0	392	604	436	242	2,186
Severe School Zone Speeding	0	0	0	0	0	44	0	0	35	44	28	20	171
Total Violations	0	0	0	1,181	1,127	610	0	0	427	648	464	262	4,719
School Zone Speeding	0	0	0	1081	1042	561	0	0	392	604	436	242	4,358
Severe School Zone Speeding	0	0	0	100	85	49	0	0	35	44	28	20	361
% Violations				9.8%	6.2%	5.2%			4.8%	3.8%	3.1%	2.9%	5.1%

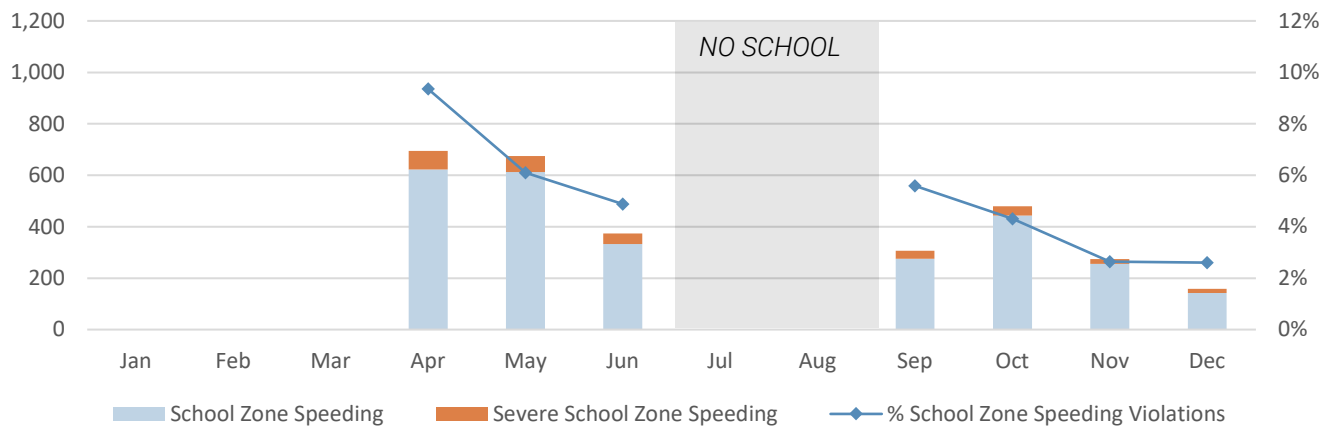
Kenmore Elementary School Zone Speeding Violations
Program Year 2023



Northbound Camera

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Vehicles	0	0	0	7430	11058	7660	0	0	5475	11131	10358	6070	59,182
Warnings	0	0	0	695	675	26	0	0	0	0	0	0	1,396
School Zone Speeding	0	0	0	623	612	21	0	0	0	0	0	0	1,256
Severe School Zone Speeding	0	0	0	72	63	5	0	0	0	0	0	0	140
Notices of Infraction	0	0	0	0	0	348	0	0	306	479	274	158	1,565
School Zone Speeding	0	0	0	0	0	312	0	0	275	443	256	142	1,428
Severe School Zone Speeding	0	0	0	0	0	36	0	0	31	36	18	16	137
Total Violations	0	0	0	695	675	374	0	0	306	479	274	158	2,961
Speeding	0	0	0	0	0	0	0	0	0	0	0	0	0
School Zone Speeding	0	0	0	623	612	333	0	0	275	443	256	142	2,684
Severe School Zone Speeding	0	0	0	72	63	41	0	0	31	36	18	16	277
% Violations				9.4%	6.1%	4.9%			5.6%	4.3%	2.6%	2.6%	5.0%

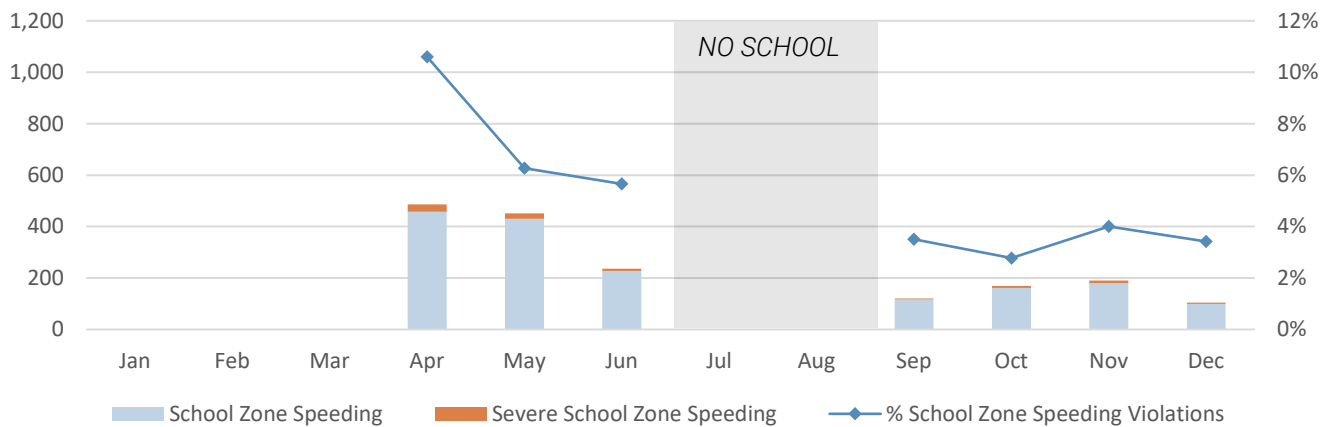
Kenmore Elementary School Zone Speeding Violations (Northbound)
Program Year 2023



Southbound Camera

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Vehicles	0	0	0	4585	7209	4174	0	0	3450	6084	4742	3040	33,284
Warnings	0	0	0	486	452	28	0	0	0	0	0	0	966
School Zone Speeding	0	0	0	458	430	28	0	0	0	0	0	0	916
Severe School Zone Speeding	0	0	0	28	22	0	0	0	0	0	0	0	50
Notices of Infraction	0	0	0	0	0	208	0	0	121	169	190	104	792
School Zone Speeding	0	0	0	0	0	200	0	0	117	161	180	100	758
Severe School Zone Speeding	0	0	0	0	0	8	0	0	4	8	10	4	34
Total Violations	0	0	0	486	452	236	0	0	121	169	190	104	1,758
Speeding	0	0	0	0	0	0	0	0	0	0	0	0	0
School Zone Speeding	0	0	0	458	430	228	0	0	117	161	180	100	1,674
Severe School Zone Speeding	0	0	0	28	22	8	0	0	4	8	10	4	84
% Violations				10.6%	6.3%	5.7%			3.5%	2.8%	4.0%	3.4%	5.3%

Kenmore Elementary School Zone Speeding Violations (Southbound) Program Year 2023



Crash History

Crash Summary

Crashes in enforcement area	1
Crashes while school zone is active	1
Crashes involving cyclists or pedestrians	0
Crashes resulting in injury	0

Detailed Crash History

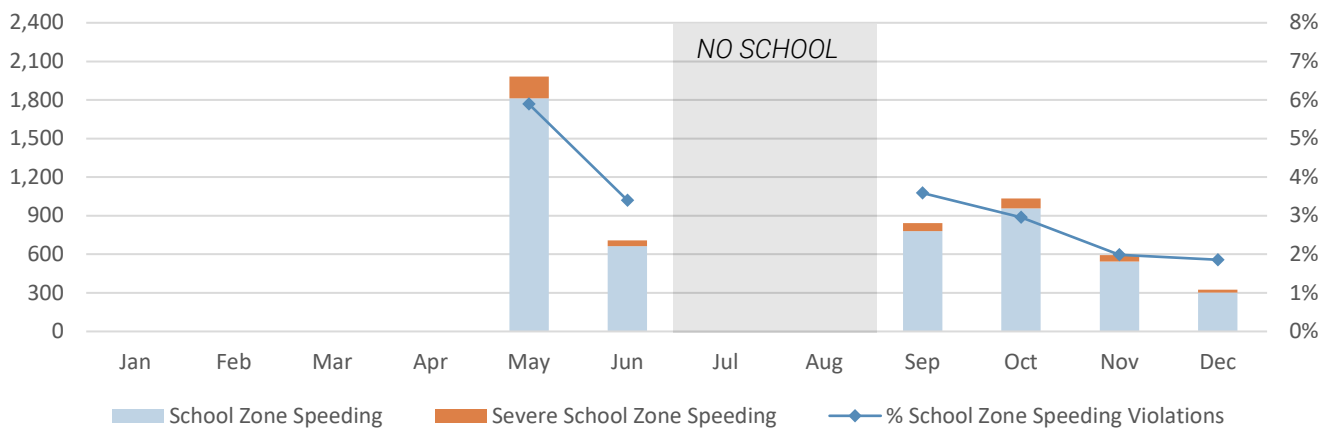
Date & Time	SZ Active	Bike/Ped Involved	Injury Severity	Crash Description
09/14/2023 Thu 4:55 PM	Yes	No	No Injury	Southbound driver on 73 rd Av turning left onto 192 nd St fails to yield to northbound driver. Eastbound stopped vehicle on 192 nd St is also damaged in the collision.

2.2 ARROWHEAD ELEMENTARY SCHOOL ZONE ON JUANITA DR NE

Overall Site Performance

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Vehicles	0	0	0	0	33653	20857	0	0	23522	34990	29834	17490	160,346
Warnings	0	0	0	0	1,982	709	0	0	0	0	0	0	2,691
School Zone Speeding	0	0	0	0	1,814	664	0	0	0	0	0	0	2,478
Severe School Zone Speeding	0	0	0	0	168	45	0	0	0	0	0	0	213
Notices of Infraction	0	0	0	0	0	0	0	0	843	1,035	593	325	2,796
School Zone Speeding	0	0	0	0	0	0	0	0	779	958	545	302	2,584
Severe School Zone Speeding	0	0	0	0	0	0	0	0	64	77	48	23	212
Total Violations	0	0	0	0	1,982	709	0	0	843	1,035	593	325	5,487
School Zone Speeding	0	0	0	0	1814	664	0	0	779	958	545	302	5,062
Severe School Zone Speeding	0	0	0	0	168	45	0	0	64	77	48	23	425
% Violations					5.9%	3.4%			3.6%	3.0%	2.0%	1.9%	3.4%

Arrowhead Elementary School Zone Speeding Violations Program Year 2023

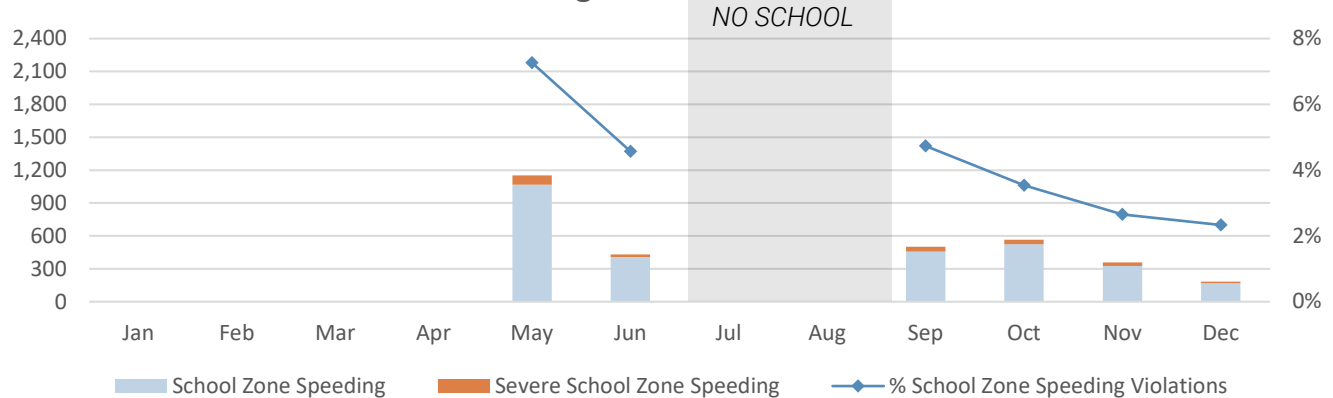


Northbound Camera

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Vehicles	0	0	0	0	15868	9421	0	0	10556	16003	13506	7891	73,245
Warnings	0	0	0	0	1,153	431	0	0	0	0	0	0	1,584
School Zone Speeding	0	0	0	0	1,067	407	0	0	0	0	0	0	1,474
Severe School Zone Speeding	0	0	0	0	86	24	0	0	0	0	0	0	110
Notices of Infraction	0	0	0	0	0	0	0	0	500	566	358	184	1,608
School Zone Speeding	0	0	0	0	0	0	0	0	457	526	327	168	1,478
Severe School Zone Speeding	0	0	0	0	0	0	0	0	43	40	31	16	130
Total Violations	0	0	0	0	1,153	431	0	0	500	566	358	184	3,192
Speeding	0	0	0	0	0	0	0	0	0	0	0	0	0
School Zone Speeding	0	0	0	0	1067	407	0	0	457	526	327	168	2,952
Severe School Zone Speeding	0	0	0	0	86	24	0	0	43	40	31	16	240
% Violations					7.3%	4.6%			4.7%	3.5%	2.7%	2.3%	4.4%

Arrowhead Elementary School Zone Speeding Violations (Northbound)

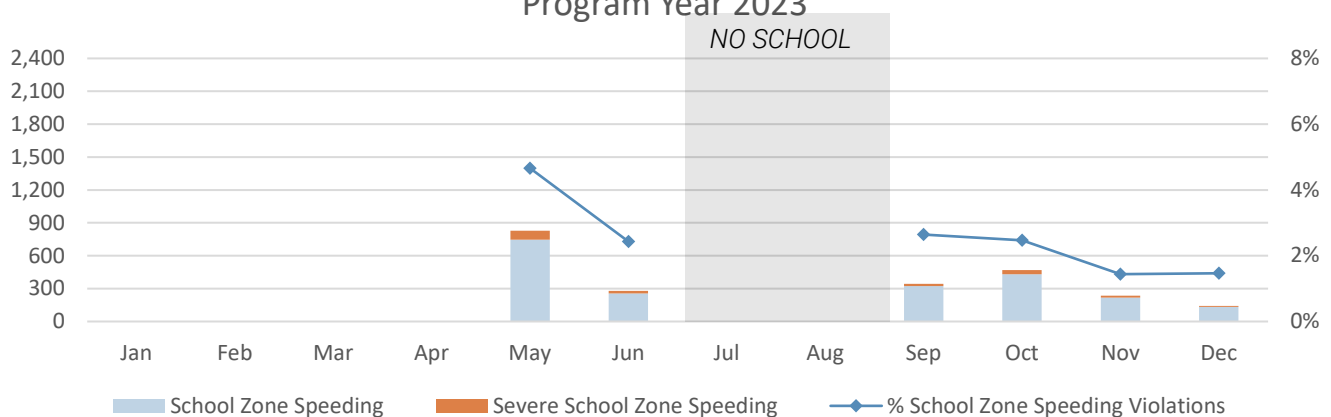
Program Year 2023



Southbound Camera

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Vehicles	0	0	0	0	17785	11436	0	0	12966	18987	16328	9599	87,101
Warnings	0	0	0	0	829	278	0	0	0	0	0	0	1,107
School Zone Speeding	0	0	0	0	747	257	0	0	0	0	0	0	1,004
Severe School Zone Speeding	0	0	0	0	82	21	0	0	0	0	0	0	103
Notices of Infraction	0	0	0	0	0	0	0	0	343	469	235	141	1,188
School Zone Speeding	0	0	0	0	0	0	0	0	322	432	218	134	1,106
Severe School Zone Speeding	0	0	0	0	0	0	0	0	21	37	17	7	82
Total Violations	0	0	0	0	829	278	0	0	343	469	235	141	2,295
Speeding	0	0	0	0	0	0	0	0	0	0	0	0	0
School Zone Speeding	0	0	0	0	747	257	0	0	322	432	218	134	2,110
Severe School Zone Speeding	0	0	0	0	82	21	0	0	21	37	17	7	185
% Violations					4.7%	2.4%			2.6%	2.5%	1.4%	1.5%	2.6%

Arrowhead Elementary School Zone Speeding Violations (Southbound) Program Year 2023



Crash History

Crash Summary

Crashes in enforcement area	5
Crashes while school zone is active	2
Crashes involving cyclists or pedestrians	1
Crashes resulting in injury	3

Detailed Crash History

Date & Time	SZ Active	Bike/Ped Involved	Injury Severity	Crash Description
08/01/2023 Tue 12:19 PM	No	Yes	Possible Minor Injury	Northbound driver on Juanita Dr turning right onto 153 rd Pl fails to yield to cyclist; driver turns in front of cyclist and cyclist strikes side of car. Cyclist suffers minor injuries from road rash.
09/27/2023 Wed 01:50 PM	Yes	No	No Injury	Northbound impaired driver on Juanita Dr rear-ends vehicle stopped at signal, causing it to collide with additional stopped vehicle.
09/27/2023 Wed 02:04 PM	Yes	No	Possible Injury	Northbound driver on Juanita Dr stopped at signal lets foot slip off brake, rearending another vehicle stopped at signal. Driver of struck vehicle suffers possible hand injury.
09/30/2023 Sat 12:54 AM	No	No	No Injury	Northbound distracted driver on Juanita Dr turning left onto Arrowhead Dr, fails to yield to southbound driver on Juanita Dr and is struck on passenger side.
10/27/2023 Fri 02:40 PM	No	No	Possible Minor Injury	Northbound driver on Juanita Dr fails to control speed and strikes vehicle stopped at signal.

SECTION 3: KAPE-FUNDED PROGRAMS AND PROJECTS

3.1 SUMMARY OF KAPE-FUNDED PROGRAMS AND PROJECTS

Programs / Project Name	2023 Expenditure
Engineering Services	
City Staff – Program Operation and Traffic Safety Engineering	\$92,800
Consultant – 68 th Av Channelization Design	\$700
Consultant – 68 th Av, 170 th St, Simonds Rd Data Collection	\$1,700
Safety Infrastructure Investment	
Arrowhead Elem. School Zone Flashers east and west of Juanita Dr	\$11,000
80 th Av Bike Lanes from SR 522 to 185 th St (Phase 1)	\$6,700
170 th St Channelization Changes	\$5,500
KAPE Funds Carry Forward	\$102,000

3.2 DESCRIPTION OF PROGRAMS AND PROJECTS

Engineering Services

City Staff – Program Operation and Traffic Safety Engineering

Staff resources dedicated to the operation of the KAPE program and traffic safety engineering. KAPE program operation by City Staff includes, but is not limited to: KAPE program evaluation, KAPE documentation and reporting, communication with Council and residents regarding the KAPE program, and contractor coordination regarding KAPE program operation and expansion. Traffic safety engineering by City Staff includes, but is not limited to: in-house traffic data collection and studies, project identification and scoping, evaluation of completed projects, project and program management for traffic safety improvements, in-house project design, and contractor and consultant coordination related to traffic safety programs and projects.

Consultant – 68th Av Channelization Design

Partial funding of consultant services for the design of 68th Av Channelization revisions from 175th St to 181st St. These channelization revisions include converting the northbound curb lane between 175th St 181st St to a “Buses and Right-Turns Only Lane”, installation of a left-turn pocket for the northbound approach of 68th Av and 181st St, replacing the left-turn trap lane.

Consultant – 68th Av, 170th St, Simonds Rd Data Collection

Partial funding for speed, volume, and vehicle classification data collection on 68th Av, 170th St, and Simonds Rd. This data collection supports analysis of roadway operations and safety as well as for required reporting to the Federal Highway Administration (FHWA) Highway Performance Management System (HPMS).

Safety Infrastructure Investment

Arrowhead Elem. School Zone Flashers east and west of Juanita Dr

Installation of school zone flashers on approaches to the Arrowhead Elementary school zone on Juanita Dr. These additional school zone flashers provide improved indication to drivers entering traffic within the Arrowhead Elementary school zone so school zone flashers (front or rear flashers) are visible to all vehicles entering the school zone, from any driveway or side street.

80th Av Bike Lanes from SR 522 to 185th St (Phase 1)

Signing and pavement markings to convert street parking on 80th Av to bicycle lanes. This is Phase 1 of a project on 80th Av from Bothell Way to 185th St to install high-quality bicycle and pedestrian facilities and manage traffic speeds in order to improve safety, comfort, and accessibility for multimodal road users. Phase 1 is a low-cost project to repurpose existing paved shoulders from street parking to bicycle lanes using only signing and pavement marking revisions, also improving sightlines for drivers entering 80th Av from side streets. Phase 2 is planned for 2026 and will include construction of hardscape features such as sidewalk, new curbs, and RRFB crossings.

170th St Channelization Changes

Signing and pavement marking changes to convert street parking into an extended right-turn lane. Removal of street parking here will improve sight lines for traffic entering onto 170th St from driveways on the north side of the road. The extended right turn lane is a temporary measure, and a future project will include signal changes that allow for the extended right turn lane to be converted into a bicycle lane.