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**Section 1: Executive Summary**









**Most Significant Impact Events**









Planned Event		
<b>Date:</b> Various	<b>Location:</b> Arena Pkwy	<b>Event Detail:</b> Vaccinations at the Family Arena. Traffic Responsive setting programmed in TCS in Scheduler for each planned event end time to allow traffic to quickly exit the Arena lot and progress to either MO 364 or I-70.
Unplanned Event		
<b>Date:</b> 4/16, MD	<b>Location:</b> I-70 EB at Route Z	<b>Event Detail:</b> <b>injury</b> Motor vehicle crash, fatal, eastbound I-70 east of Highway Z in St Charles County. All eastbound lanes are blocked. 9.7-mile queue back to Route J in Warren County. Traffic diverted to Wentzville parkway.

**Operator Summary**

April - June 2021 had a **total of 170 incidents** impacting mainlines of major arterials within St Charles County. Of these incidents, **83 occurred during the weekday commuter peak times**. The GGL operator performed signal timing adjustments to facilitate diversions and **mitigate congestion and backups for 18 of these incidents**.

**Section 2: System Status Update**

Device Type	No.		% Reliable		Trend
	Last	This	Last	This	
 Signals Communicating on TCS	348	343	98%	99%	
 CCTV's working	153	156	96%	97%	
 Bluetooth Devices Reporting	75	69	73%	68%	
 Intersections on TDMS	128	129	83%	84%	

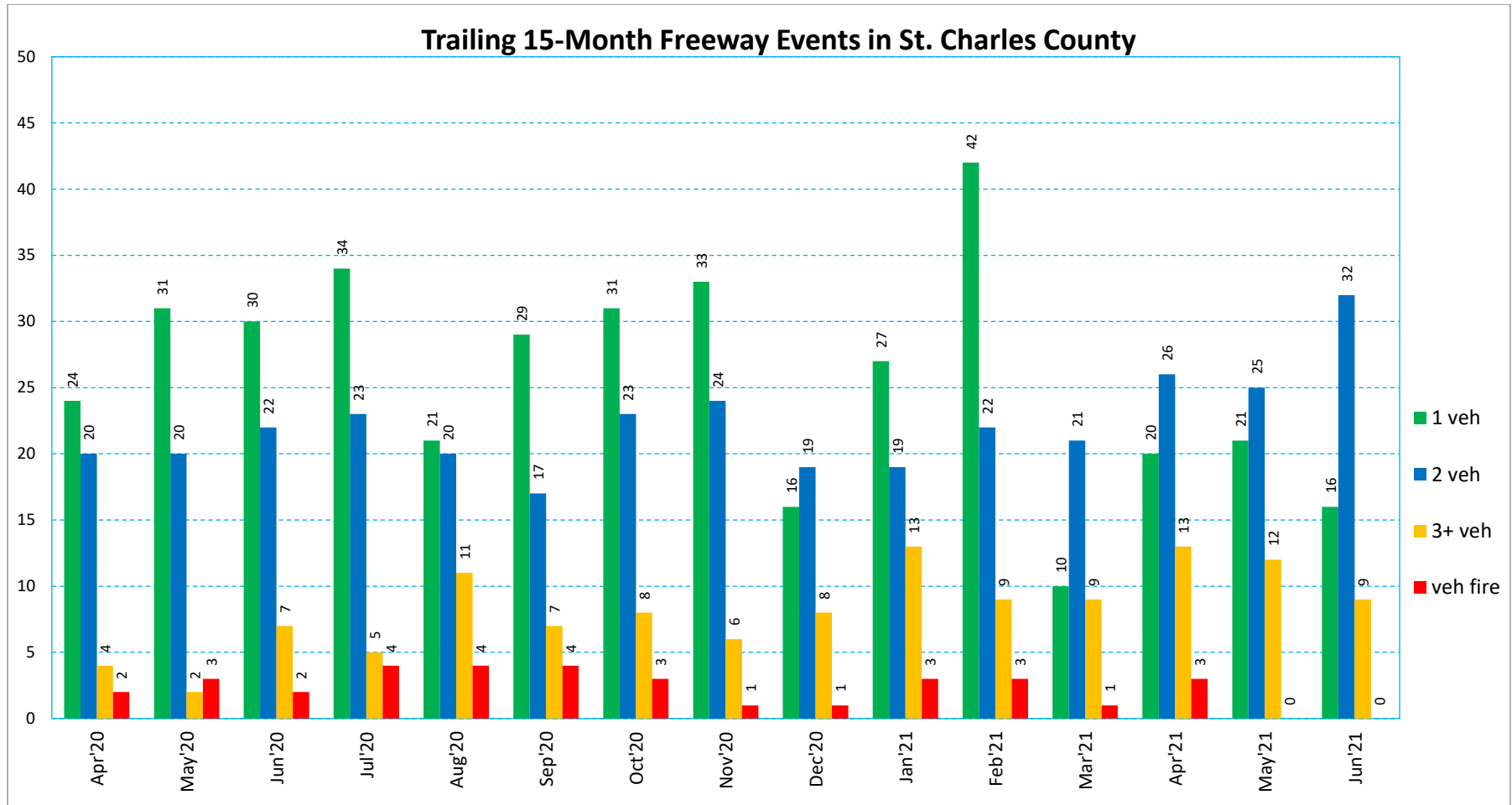
Device Type	No.		% Reliable		Trend
	Last	This	Last	This	
 Cellular & Radio Devices	48	42	95%	95%	
 DMS Boards	4	4	100%	100%	
 Traffic Count Stations	0	0	0%	0%	
 Fiber Optic Cable	63.0 mi	63.0 mi	100%	100%	

**GGL Device Efforts**

- GGL Fiber repaired at TR Hughes and I-70 CCTV – mouse had chew various sections of cable and damaged multiple fiber tubes. Signals on TR Hughes Blvd, O’Fallon Streets Building back online on GGL network.
- Tower Cameras replaced at Bethman Tower; new cameras integrated into TransSuite.
- Re-programed and connected repaired BlueTOAD at I-70 EB & Zumbahl, collecting travel time data again.
- Integrated Flock Safety’s Wing application into County and Wentzville Axis PTZ cameras.

**Managed Incidents**

- 4/15/21, MD: I-70 EB before Route Z – fatal incident resulting in closure of I-70 at Wentzville Parkway. Queue est. 9.7 miles. AMI signal plans implemented on Wentzville Parkway from I-70 around to US 61 for diversion, as well as at Route Z & Interstate Dr signal. Timing plans remained in place for approximately 3 hours while the incident was investigated until freeway re-opened.
- 4/27, MD: I-70 EB at Route T/W – multi vehicle accident blocking both lanes for a short duration, right lane closed to remove debris and scene moved to shoulder for 1.5 hours. AMI timings plans implemented at I-70 WBOR at T/W, and I-70 at Wentzville Pkwy Interchange to facilitate traffic flow of diverting EB traffic from I-70 back on at Wentzville Pkwy. Queue est. 5.6 miles. Timing plans in place for full duration of incident.
- 5/3/21, MD: MO 364 WB past Harvester Rd – multi-vehicle accident blocking multiple lanes, with temporary closure while scene was moved to shoulder. Queue est. 1.4 miles. AMI signal timing plans implemented on MO 364 NOR and SOR from Harvester to Jungermann Rd to mitigate backups from traffic diverting to the outer road. Event active nearly roughly 1 hour. Timing plans remained in place for 40 minutes until the backups cleared.
- 6/23/21, AM: I-70 EB before Zumbahl Rd – vehicle accident with fatality, with freeway and outer road closure. Queue est. 3 miles. AMI signal plans for AM EB division implemented on Cave Springs Rd from Mexico across I-70 to West Clay, and downstream signal timing plans at Zumbahl Rd Interchange and outer roads adjusted for traffic diverting around incident. Timing plans in place for 5 hours as incident required investigation, heavy tow, and debris removal prior to clearing.



**Events**

- Various vaccination events hosted at Family Arena. Activated DMS and coordinated staging of CMS and traffic control with County Highway and MoDOT. Monitored traffic and adjusted signal timing as needed to mitigate backups into and out of lot.

**Observation/ Monitoring/ Other Traffic Assistance**

- Checked and updated programming and network addressing of various ITS devices in Lake St. Louis, bringing multiple devices online for remote monitoring and management.
- Performed observations and developed updated Saturday timing plan for Mexico Rd at Muegge in response to complaints received by MoDOT and City of St. Peters.
- Coordinated with MoDOT to adjust signal timing and detection settings at Route Z & Interstate Dr intersection to improve operations during the PM peak, where conditions are often oversaturated. Monitored after implementation to verify improvements.
- Provided St. Charles network settings for upcoming camera installs and integrated recently added cameras into TransSuite.