

COMMITTEE OF THE WHOLE

**Program Update:
Unmanned Aircraft System**

Public Safety Committee of the Whole
February 18, 2020



UAS PROJECT TIMELINE

2018

- Parks ordinance updates
- UAS policy drafted

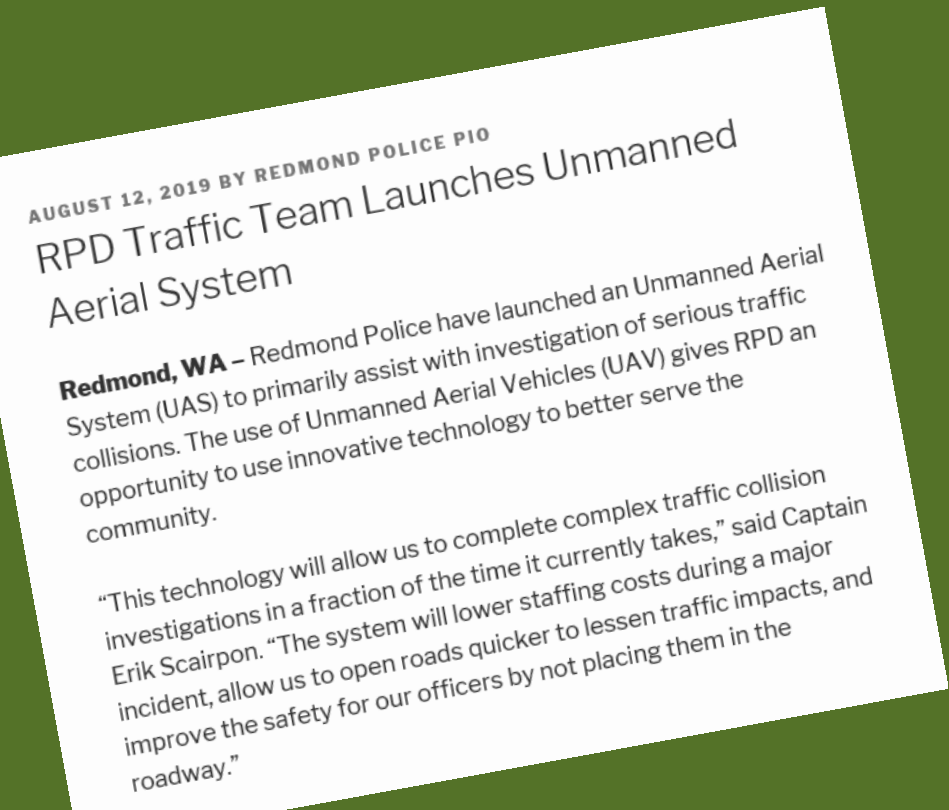
2019

- Equipment obtained
- FAA pilot certification
- Legal review
- Program Launched August '19



PUBLIC & COUNCIL INVOLVEMENT

- Public Safety Committee of the Whole presentation – *June 18, 2019*
- Council Study Session presentation – *July 23, 2019*
- Public Messaging Campaign – *August 12, 2019*



PURPOSE

- The UAV provides an aerial visual perspective to be used primarily to supplement traffic collision investigations involving serious or fatal injuries.
- The UAV provides:
 - Safer work environment.
 - More detailed representation of the scene.
 - Efficiency: Allows roadways to open sooner.
- Additional public safety benefits include searching for lost or missing persons, natural disasters, and other emergent life threatening public safety needs. **Authorization by the police chief or designee is required for these applications.**



COST & TIME SAVING ANALYSIS

- Mapping a collision scene with the UAS will take an hour on average.
- Compare to 3-4 hours with older technology
- December 28, 2018: Car vs. Pedestrian Fatality
 - RPD overtime Traffic officers on scene 3 hours
 - Overtime cost using total station: \$1,267.74 & roadway closed 4.5 hours
 - Cost using UAS: \$422.58 & roadway closed 2.25 hours
 - Cost & Time Savings: \$845.16 and two hours of roadway closure



PRIVACY CONCERNS

- RPD protects rights and privacy
- Pilots take reasonable precautions to avoid capturing images in areas where there is an expectation of privacy.
- We obtain search warrants when the UAS could collect evidence of criminal wrongdoing.
- UAV pilots adhere to FAA guidelines.



UAS PILOT AUTHORIZATION

- RPD's chief pilot is responsible for overall direction and performance of UAS.
- Authorized pilots:
 - Licensed by the FAA and operate under applicable law.
 - Must complete training in the operation, applicable laws, policies, and procedures.
 - Only authorized pilots shall be permitted to operate the UAS



DOCUMENTATION & RETENTION

- UAS pilots documents all deployments in narratives.
- UAS pilots maintain and update a flight log detailing date, time, duration, and reason for flights.
- All images, video, and data obtained through UAS deployment will be used, retained, and disseminated in accordance with department policy, state law, and the public records act.

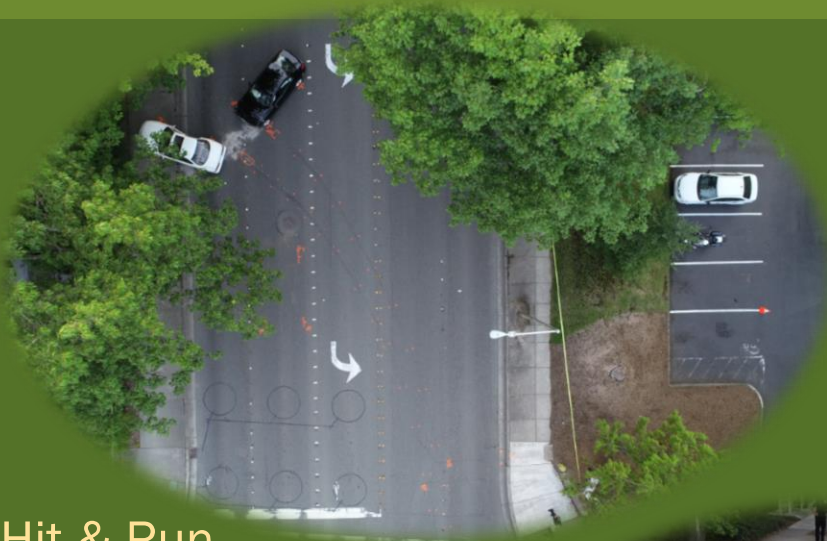
CASE 19-004581 / AUGUST 05, 2019

Total Road Closure:
6 Minutes

83 Photos



CASE 19-004812/AUGUST 15, 2019



Criminal Hit & Run

Road closed 4 hours

15 minute flight time

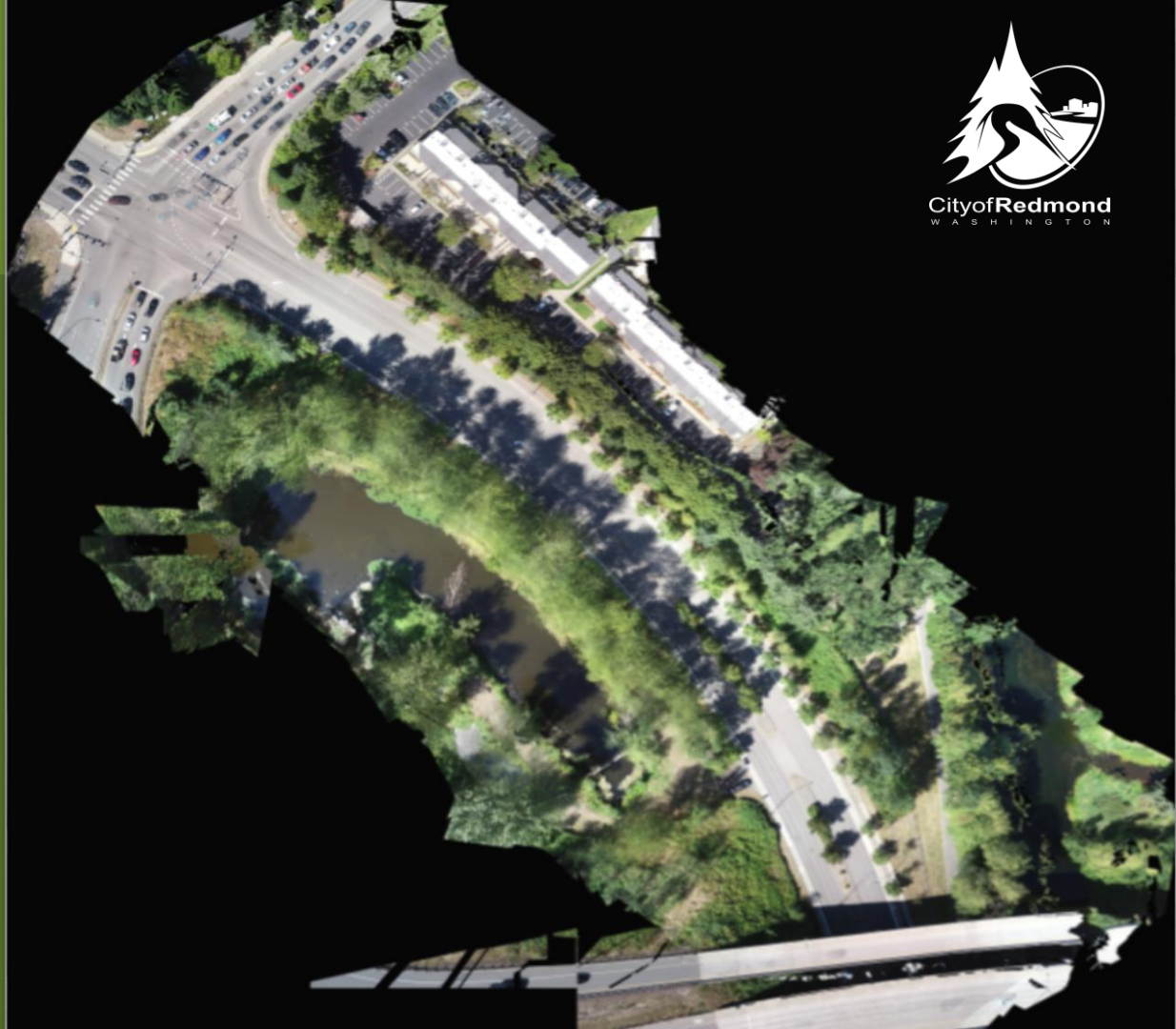
184 Photographs



CASE
19-004409
JULY 29, 2019

Flight Time:
15 Minutes

281 Photographs



ASSIST TO REDMOND FIRE



Education Hill
House Fire

Flight Time:
20 Minutes



CASE 19-004812/AUGUST 15, 2019



Car vs. House DUI
Investigation

Flight Time:
15 minutes



CityofRedmond
WASHINGTON

CASE 19-006870 11/21/19



THANK YOU

Questions?

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