

2022-0001



Investigative Activity:	Video Analysis; Video Review
Involves:	James Williams (S), Officer Robert Huber (S),
	OOCIC (O), BCI (O)
Activity Date:	3/24/2022
Activity Location:	BCI – 4055 Highlander Parkway, Richfield, Ohio 44286
Authoring Agent:	SA Charles Moran #67

Narrative:

On March 24, 2022, Ohio Bureau of Criminal Investigation (BCI) Special Agent (SA) Chuck Moran (Moran) received an envelope from the Ohio Organized Crime Investigations Commission (OOCIC), via FedEx. The envelope contained the following items:

- Envelope containing discs consisting of work product for OOCIC case #22-00003
- Envelope labeled OOCIC Item #1 consisting of a USB thumb drive that SA Moran previously sent to OOCIC
- Envelope labeled OOCIC Item #2 consisting of a disc labeled, "2022-0001 Item 67 Preliminary Findings" previously sent to OOCIC

The work product discs contained three video presentations generated by OOCIC and the SHA256 hash values for the OOCIC video presentations, OOCIC Item #1 and OOCIC Item #2.

On January 24, 2022, SA Moran submitted a USB thumb drive to OOCIC containing a bodyworn camera (BWC) video from Canton Police Department (CPD) Officer Robert Huber. The USB thumb drive also contained selected surveillance videos from the Digital Video Recorder (DVR) that was recovered from the residence and incident scene located at 2307 10th Street SW, Canton, Ohio 44706. A few days later, SA Moran submitted a disc containing videos recovered from Marquetta Williams' cell phone.

The videos were submitted to OOCIC as part of an investigation of the incident and officerinvolved shooting that occurred on January 1, 2022, involving a male subject, James Williams, and CPD Officer Robert Huber. SA Moran requested OOCIC to add a time code effect, an audio wave form effect, crop the videos, sync the videos on one screen, create a video presentation played at full speed and create a second video presentation played at 50% speed and again at full speed.

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2022-0001 Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



On April 1, 2022, SA Moran received an electronic copy of the reports and documents generated by OOCIC for this case. SA Moran reviewed the OOCIC reports and documents and noted the following:

• OOCIC Case #22-00003 – Reports and Documents

Page 1 – OOCIC Evidence Submission Form – This listed the items that were submitted to OOCIC.

Page 2 – OOCIC Chain of Custody Report – This provided the chain of custody for the items submitted to OOCIC.

Pages 3-6 – OOCIC Forensic Video Analysis – This report was authored by OOCIC Forensic Video Analyst David Loomis. The report listed the items that were submitted and the video files that were included for each item.

Forensic Video Analyst David Loomis documented the following information about the DVR videos:

"The video files originally from the DVR at the location of the incident contained an irregular date/time stamp which prohibited precise synchronization based upon the date/time. Due to a lack of visual overlap between the various cameras, a precise synchronization could not be achieved based on visual cues. Attempting to precisely synchronize the DVR cameras with the body-worn camera also failed. As a result, the body-worn camera presentation was created separately. A video timeline presentation was created with the DVR cameras, but it was only generally synchronized based upon the irregular timestamp and limited visual overlap between cameras. The four-camera view should not be used to calculate precise timing."

The BWC video was edited to the scope requested by SA Moran. An audio waveform effect was added, a timecode effect was added and a title slate was added. A second presentation was created demonstrating the BWC video at half-speed and original speed.

The DVR videos were used to create a four-camera presentation. The video files were aspect adjusted and contrast adjusted. The videos were edited to the scope requested by SA Moran. Title slates were added.

The video file(s) from OOCIC Item #2 (video from Marquetta Williams' cell phone) occurred prior to the BWC video and were not included in the OOCIC presentations.



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2022-0001 Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

Pages 7-11 – OOCIC Forensic Video Analyst David Loomis' Curriculum Vitae – This document listed all of OOCIC Forensic Video Analyst David Loomis' employment, training and relevant experience.

ADDITIONAL FACTORS TO CONSIDER WHEN EVALUATING VIDEO EVIDENCE

Based upon SA Moran's training and experience, the following additional factors should be considered when evaluating the available video evidence:

- The speed of this incident is remarkable.
- The speed and complexity of rapidly evolving situation(s) that occur during use-of-force encounters are difficult concepts to comprehend by only watching the video.
- Video recordings are for storage and review.
- Video recordings capture light and create a digital representation of reality (twodimensional video compared to three-dimensional reality).
- Video and audio recording devices also record more information about a particular scene or incident than the person(s) involved in the incident can process during the critical incident.
- Video and audio recording devices rarely record an event from the same perspective of the officer or subjects involved.
- It captures the action but not the perception, decision-making, focus or intent of the officer.
- Video recordings often miss tactile cues or other actions of a subject.
- Video and audio recording devices record within the video and sound capabilities available, and they record objectively.
- Video and audio recordings lack the history, perspective and interest of the people involved.
- The positions, angles, obstacles, lighting and distance from the incident are also factors that need serious consideration.
- Video and audio recordings are only components of an investigation and should not be the only evidence relied upon.
- All available evidence, statements and other information must be evaluated alongside the video recordings available.

PROCESS OF VIDEO REVIEW FOR OOCIC 22-00003 FOUR CAMERA VIEW PRESENTATION

• Based upon OOCIC Forensic Video Analyst David Loomis' report documenting that the four DVR cameras could not be precisely synchronized due to the irregular date/time

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2022-0001



Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

stamp and lack of visual overlap, SA Moran considers this presentation to be for overview purposes only.

- Without the four DVR videos being precisely synchronized, the exact movements of the parties involved in the incident (in the context of how they relate or interact with each other) should not be considered absolute.
- Based upon other evidence, videos and statements, it is known that James Williams fired the semi-auto rifle numerous times during the incident and CPD Officer Robert Huber fired his semi-auto pistol numerous times during the incident.
- iNPUT ACE was used for review.
- Relevant images marked based upon best available visual cues.
- No timing estimates were derived from this presentation.
- Please note that the review of this presentation was challenging due to the lack of precise synchronization and also due to the lack of an audio component available to identify actions (that are not visually observed) by sounds.
- 22-00003 Four Camera View

iNPUT ACE – Interrogate Tab

SA Moran placed the video presentation into iNPUT ACE under the "Interrogate" tab. The video file hash was identified as f3383cbe06d702d3428acf973b4fd6e5. The video codec was h264, the pixel format was yuv420p and the pixel dimension was 4096/2160 (1.896:1). The video presentation consisted of 2,000 frames. The frame rate was 15fps (note that this is much lower that many other types of video usually at 30fps or 60fps). The video presentation was 00:03:53:86 (hh:mm:ss:ms) long.

SA Moran marked multiple images and labeled them by the frame (F) number identified by iNPUT ACE.



2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Marked Image	F78 – Four Camera View
Notes	OOCIC Forensic Video Analyst David Loomis added a disclaimer portion of
	the video presentation. The disclaimer stated, "The video files used to create
	this timeline do not allow for exact synchronization. This video should not be
	used to calculate precise timing." See the marked image below:
	See the marked mage below.
Disclaimer:	
The video files used to create this timeline do not allow for exact synchronization.	
	This video should not be used to calculate precise timing.

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2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

PROCESS OF VIDEO REVIEW FOR OOCIC 22-00003 VIDEO PRESENTATION

- Forensic Video Analyst David Loomis edited the body-worn camera (BWC) video to the scope requested by SA Moran.
- Forensic Video Analyst David Loomis added an audio waveform effect.
- Forensic Video Analyst David Loomis added a timecode effect.
- Forensic Video Analyst David Loomis added a title slate.
- Forensic Video Analyst David Loomis created a second presentation demonstrating the BWC video at half-speed and original speed.
- SA Moran used iNPUT ACE for review.
- SA Moran marked relevant images based upon best available visual and audio cues.
- Frames-per-second (fps) rate was determined to by 29.97fps.
- Timing was rounded up or down to the nearest hundredth place decimal (example 0.36666674 was rounded to 3.67 seconds).
- The time code effect was used to count frames between significant events.
- The audio wave form effect was used to identify sounds when reviewing the video presentation, especially during frame-by-frame review.

• 22-00003 Video Presentation

iNPUT ACE – Interrogate Tab

SA Moran placed the video presentation into iNPUT ACE under the "Interrogate" tab. The video file hash was identified as 0f35d51c3ee22ad6eb7a5e20cd3598da. The video codec was h264, the pixel format was yuv420p, and the pixel dimension was 2560/14404096/2160 (1.778:1). The video presentation consisted of 1500 frames. The frame rate was 29.97fps. The video presentation was 00:01:50:11 (hh:mm:ss:ms) long.

SA Moran marked multiple images and labeled them by the frame (F) number identified by iNPUT ACE. SA Moran also calculated the time between/elapsed many of the marked images. The marked images and information are:



2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Notes This was the frame when the OOCIC video presentation began with Office	•
Huber's BWC video. He was positioned near the front porch and sidewalk	on
the front side of the residence. He was facing west.	
See marked image below:	
D1/01/2022 00:06:24 BWC2:041234	



2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio





2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio





2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Marked Image	F1068 – 00-00-30-17 – Video Presentation – BWC
Time Elapsed	3.57 seconds (from previous marked image, F962 – 00-00-27-00)
Notes	This was the first frame when Officer Huber's BWC audio recording
	activated. Officer Huber was walking southeast toward the street and his
	cruiser.
	See marked image below:
MOTOROLA SOLUTIONS	01/01/2022 00:06:55 BWC2-041234
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2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Marked Image	F1214 – 00-00-35-13 – Video Presentation – BWC
Time Elapsed	4.87 seconds (from previous marked images, F1068 – 00-00-30-17)
Notes	Officer Huber continued walking southeast into the street. He turned and faced the front of the residence. He was positioned in the street near the driver's side front tire of a black SUV parked in front of the residence. See marked image below:
MOTOROLA SOLUTIONS	01/01/2022 00:06:59 BWC2-041234
	<image/>



2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio







2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio







2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio





2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio





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Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Marked Image	F2162 – 00-01-07-02 – Video Presentation - BWC
Time Elapsed	1.33 seconds (from previous marked image, F2122 – 00-01-05-22)
Notes	In this frame, a brief and bright flash (believed to be a muzzle flash from the rifle that James Williams was firing) was observed above the wood fencing surrounding the patio. Officer Huber moved north near the end of driveway on the southwest side of the residence. Between the last frame marked (F2122), there were multiple gunshots heard (likely being fired by James Williams) on the audio portion of the video. The gunshots were so loud and so rapid that the audio waveform effect was nearly a constant stream of spikes and was virtually impossible to identify each individual gunshot. See marked image below:
MOTOROLA SOLUTIONS	01/01/2022 00:07:31 BWC2-041234 00:01:07:02 29.97fps

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2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Cropped Image	F2162 – 00-01-07-02 – Video Presentation – BWC (Cropped)
Notes	In this frame, a brief and bright flash (believed to be a muzzle flash from the
	rifle that James Williams was firing) was observed above the wood fencing
	surrounding the patio.
	Officer Huber moved north near the end of driveway on the southwest side of
	the residence. Between the last frame marked (F2122), there were multiple
	gunshots heard (likely being fired by James Williams) on the audio portion of
	the video. The gunshots were so loud and so rapid that the audio waveform
	effect was nearly a constant stream of spikes and was virtually impossible to
	identify each individual gunshot.
	See cropped marked image below:



Possible muzzle flash from James Williams' rifle





Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



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2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

Cropped Image	F2169 – 00-01-07-09 – Video Presentation – BWC (Cropped)
Notes	In this frame, a brief and bright flash (believed to be a muzzle flash from the
	rifle that James Williams was firing) was observed above the wood fencing
	surrounding the patio.
	Officer Huber continued moving north near the end of driveway on the
	southwest side of the residence.
	Again, the gunshots were so loud and so rapid that the audio waveform effect
	was nearly a constant stream of spikes and was virtually impossible to
	identify each individual gunshot.
	See cropped marked image below:



Possible muzzle flash from James Williams' rifle





Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

Marked Image	F2176 – 00-01-07-16 – Video Presentation – BWC
Time Elapsed	0.23 seconds (from previous marked image, F2169 – 00-01-07-09)
Notes	In this frame, a light, opaque cloud (believed to be gunpowder from the rifle barrel that James Williams was firing) was observed above the wood fencing surrounding the patio. Officer Huber continued moving north near the end of driveway on the southwest side of the residence. Again, the gunshots were so loud and so rapid that the audio waveform effect was nearly a constant stream of spikes and was virtually impossible to identify each individual gunshot. See marked image below:
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Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

F2176 – 00-01-07-16 – Video Presentation – BWC (Cropped)
In this frame, a light, opaque cloud (believed to be gunpowder from the rifle
barrel that James Williams was firing) was observed above the wood fencing
surrounding the patio.
Officer Huber continued moving north near the end of driveway on the
southwest side of the residence.
Again, the gunshots were so loud and so rapid that the audio waveform effect
was nearly a constant stream of spikes and was virtually impossible to
identify each individual gunshot.
See cropped marked image below:



Light-colored cloud, possible gunpowder, from James Williams' rifle





2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Marked Image	F2183 – 00-01-07-23 – Video Presentation – BWC
Time Elapsed	0.23 seconds (from previous marked image, F2176 – 00-01-07-16)
Notes	In this frame, a light, opaque cloud and a possible muzzle flash (believed to be gunpowder from the rifle barrel that James Williams was firing) was observed above the wood fencing surrounding the patio. Officer Huber continued moving north near the driveway and sidewalk on the southwest side of the residence. Again, the gunshots were so loud and so rapid that the audio waveform effect was nearly a constant stream of spikes and was virtually impossible to identify each individual gunshot. See marked image below:
MOTOROLA SOLUTIONS	01/01/2022 00:07:32 BWC2-041234





2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio





Light-colored cloud, possible gunpowder, and possible muzzle flash from James Williams' rifle





Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Marked Image	F2188 – 00-01-07-28 – Video Presentation – BWC
Time Elapsed	0.17 seconds (from previous marked image, F2183 – 00-01-07-23)
Notes	In this frame, a brief and bright flash (believed to be a muzzle flash from the rifle that James Williams was firing) was observed above the wood fencing surrounding the patio. Officer Huber continued moving north near the driveway and sidewalk on the southwest side of the residence. Again, the gunshots were so loud and so rapid that the audio waveform effect was nearly a constant stream of spikes and was virtually impossible to identify each individual gunshot. See marked image below:
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Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

Cropped Image	F2188 – 00-01-07-28 – Video Presentation – BWC (Cropped)
Notes	In this frame, a brief and bright flash (believed to be a muzzle flash from the rifle that James Williams was firing) was observed above the wood fencing surrounding the patio. Officer Huber continued moving north near the driveway and sidewalk on the southwest side of the residence. Again, the gunshots were so loud and so rapid that the audio waveform effect was nearly a constant stream of spikes and was virtually impossible to identify each individual gunshot.
	See cropped marked image below:



Possible muzzle flash from James Williams' rifle





Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Marked Image	F2195 – 00-01-08-05 – Video Presentation – BWC
Time Elapsed	0.23 seconds (from previous marked image, F2188 – 00-01-07-28)
Notes	In this frame, a brief and bright flash (believed to be a muzzle flash from the rifle that James Williams was firing) was observed above the wood fencing surrounding the patio. Officer Huber continued moving north near the driveway and sidewalk on the southwest side of the residence. Again, the gunshots were so loud and so rapid that the audio waveform effect was nearly a constant stream of spikes and was virtually impossible to identify each individual gunshot. See marked image below:
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2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



F2195 – 00-01-08-05 – Video Presentation – BWC (Cropped)
In this frame, a brief and bright flash (believed to be a muzzle flash from the
rifle that James Williams was firing) was observed above the wood fencing
surrounding the patio.
Officer Huber continued moving north near the driveway and sidewalk on the
southwest side of the residence.
Again, the gunshots were so loud and so rapid that the audio waveform effect
was nearly a constant stream of spikes and was virtually impossible to
identify each individual gunshot.
See cropped marked image below:



Possible muzzle flash from James Williams' rifle





Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



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Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

Cropped Image	F2202 – 00-01-08-12 – Video Presentation – BWC (Cropped)
Notes	In this frame, a brief and bright flash (believed to be a muzzle flash from the rifle that James Williams was firing) was observed above the wood fencing surrounding the patio. Officer Huber continued moving north near the driveway and sidewalk on the southwest side of the residence. Again, the gunshots were so loud and so rapid that the audio waveform effect was nearly a constant stream of spikes and was virtually impossible to identify each individual gunshot. See cropped marked image below:



Possible muzzle flash from James Williams' rifle



2022-0001





Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

Marked Image	F2218 – 00-01-08-28 – Video Presentation – BWC
Time Elapsed	0.53 seconds (from previous marked image, F2202 – 00-01-08-12)
Notes	It is likely that James Williams fired a shot at approximately F2210, but Officer Huber moved his arms downward, while holding his pistol, and his left arm blocked the view of the top of the fence where the light clouds and bright flashes were previously observed. This is also due to the constant pace of the gunshots (between .20 and .25 second apart) and the audio waveform effect still had the constant stream of spikes due to the volume of the gunshots. In this frame, a light, opaque cloud (believed to be gunpowder and from the rifle barrel that James Williams was firing) was observed above the wood fencing surrounding the patio. Officer Huber continued moving north in the driveway on the southwest side of the residence. Again, the gunshots were so loud and so rapid that the audio waveform effect was nearly a constant stream of spikes and was virtually impossible to identify each individual gunshot. See marked image below:
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2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Cropped Image	F2218 – 00-01-08-28 – Video Presentation – BWC (Cropped)
Notes	It is likely that James Williams fired a shot at approximately F2210, but
	Officer Huber moved his arms downward, while holding his pistol, and his
	left arm blocked the view of the top of the fence where the light clouds and
	bright flashes were previously observed. This is also due to the constant pace
	of the gunshots (between .20 and .25 second apart) and the audio waveform
	effect still had the constant stream of spikes due to the volume of the
	gunshots.
	In this frame, a light, opaque cloud (believed to be gunpowder from the rifle
	barrel that James Williams was firing) was observed above the wood fencing
	surrounding the patio.
	Officer Huber continued moving north in the driveway on the southwest side
	of the residence.
	Again, the gunshots were so loud and so rapid that the audio waveform effect
	was nearly a constant stream of spikes and was virtually impossible to
	identify each individual gunshot.
	See cropped marked image below:



Light-colored cloud, possible gunpowder, from James Williams' rifle





Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Marked Image	F2231 – 00-01-09-11 – Video Presentation – BWC
Time Elapsed	0.43 seconds (from previous marked image, F2218 – 00-01-08-28)
Notes	It is likely that James Williams fired a shot at approximately F2225, but
	Officer Huber moved his arms upward, while holding his pistol, and his left
	arm blocked the view of the top of the fence where the light clouds and bright
	flashes were previously observed. This is also due to the constant pace of the
	gunshots (between .20 and .25 second apart) and the audio waveform effect
	still had the constant stream of spikes due to the volume of the gunshots.
	In this frame, a brief and bright flash (believed to be a muzzle flash from the
	rifle that James Williams was firing) was observed above the wood fencing
	surrounding the patio.
	Officer Huber continued moving north in the driveway and approached the rear of a motorcycle parked in the driveway.
	Again, the gunshots were so loud and so rapid that the audio waveform effect
	was nearly a constant stream of spikes and was virtually impossible to
	identify each individual gunshot.
	See marked image below:
MOTOROLA SOLUTIONS	01/01/2022 00:07:33 BWC2-041234



00:01:09:11 **29.97fps**



2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio





2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio





2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio





Possible muzzle flash from James Williams' rifle



2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Marked Image	F2247 – 00-01-09-27 – Video Presentation – BWC
Time Elapsed	0.30 seconds (from previous marked image, F2238 – 00-01-09-18)
Notes	In this frame, a light, opaque cloud and a possible muzzle flash (believed to be gunpowder from the rifle barrel that James Williams was firing) was observed above the wood fencing surrounding the patio. Officer Huber continued moving north slightly in the driveway and was near the rear of a motorcycle parked in the driveway. He held his pistol out in front of him in the direction of the fence and James Williams. Again, the gunshots were so loud and so rapid that the audio waveform effect was nearly a constant stream of spikes and was virtually impossible to identify each individual gunshot. See marked image below:
MOTOROLA SOLUTIONS	01/01/2022 00:07:34 BWC2-041234 BWC2-041234 DO:01:09:27 29.97fps

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2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio





Light-colored cloud, possible gunpowder, from James Williams' rifle





Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Marked Image	F2255 – 00-01-10-05 – Video Presentation – BWC
Time Elapsed	0.27 seconds (from previous marked image, F2247 – 00-01-09-27)
Notes	In this frame, a light, opaque cloud (believed to be gunpowder from the rifle barrel that James Williams was firing) was observed above the wood fencing surrounding the patio. Officer Huber stopped moving forward and moved slightly to his right. He was near the rear of a motorcycle parked in the driveway. He held his pistol out in front of him in the direction of the fence and James Williams. Again, the gunshots were so loud and so rapid that the audio waveform effect was nearly a constant stream of spikes and was virtually impossible to identify each individual gunshot. See marked image below:
	0/10/12022 00:07:31 BVC2-04123 DVC2-04123 DVC2-04123 DVC2-04124



2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio





Light-colored cloud, possible gunpowder, from James Williams' rifle



2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Marked Image	F2263 – 00-01-10-13 – Video Presentation – BWC
Time Elapsed	0.27 seconds (from previous marked image, F2255 – 00-01-10-05)
Notes	In this frame, a brief and bright flash of light (believed to be a muzzle flash
	from the rifle that James Williams was firing) was observed above the wood
	fencing surrounding the patio.
	Officer Huber stopped moving forward and moved slightly to his right. He
	was near the rear of a motorcycle parked in the driveway. He held his pistol
	out in front of him in the direction of the fence and James Williams.
	Again, the gunshots were so loud and so rapid that the audio waveform effect
	was nearly a constant stream of spikes and was virtually impossible to identify each individual gunshot.
	See marked image below:
MOTOROLA SOLUTIONS	01/01/2022 00:07:34 BWC2-041234
	<image/> <image/> <section-header></section-header>



2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Cropped Image	F2263 – 00-01-10-13 – Video Presentation – BWC (Cropped)
Notes	In this frame, a brief and bright flash of light (believed to be a muzzle flash
	from the rifle that James Williams was firing) was observed above the wood
	fencing surrounding the patio.
	Officer Huber stopped moving forward and moved slightly to his right. He
	was near the rear of a motorcycle parked in the driveway. He held his pistol
	out in front of him in the direction of the fence and James Williams.
	Again, the gunshots were so loud and so rapid that the audio waveform effect
	was nearly a constant stream of spikes and was virtually impossible to
	identify each individual gunshot.
	See cropped marked image below:



Possible muzzle flash from James Williams' rifle



2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio





00:01:10:19 **29.97fps**



2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

Cropped Image	F2269 – 00-01-10-19 – Video Presentation – BWC (Cropped)
Notes	Officer Huber fired the (approximately) first (1) shot from his pistol in the
	direction of the fence and James Williams. A light, opaque cloud (believed to
	be gunpowder) was observed near the end of Officer Huber's pistol barrel.
	Again, the gunshots were so loud and so rapid that the audio waveform effect
	was nearly a constant stream of spikes and was virtually impossible to
	identify each individual gunshot.
	See cropped marked image below:



Light-colored cloud, possible gunpowder, from Officer Huber's pistol





Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio







Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

Cropped Image	F2270 – 00-01-10-20 – Video Presentation – BWC (Cropped)
Notes	In this frame, a light, opaque cloud and a possible muzzle flash (believed to
	be gunpowder from the rifle barrel that James Williams was firing) was
	observed above the wood fencing surrounding the patio. This is also due to
	the constant pace of the gunshots (between .20 and .25 second apart) and the
	audio waveform effect still had the constant stream of spikes due to the
	volume of the gunshots.
	Officer Huber stood near the rear of the motorcycle parked in the driveway
	and held his pistol out in front of him and in the direction of the fence and
	James Williams.
	Again, the gunshots were so loud and so rapid that the audio waveform effect
	was nearly a constant stream of spikes and was virtually impossible to
	identify each individual gunshot.
	See cropped marked image below:
AN IN A REAL	



Light-colored cloud, possible gunpowder, from James Williams' rifle



2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



00:01:10:29 **29.97fps**

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2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Cropped Image	F2279 – 00-01-10-29 – Video Presentation – BWC (Cropped)
Notes	Officer Huber fired the (approximately) second (2) shot from his pistol in the
	direction of the fence and James Williams. A light, opaque cloud (believed to
	be gunpowder) was observed near the end of Officer Huber's pistol barrel.
	It is possible that James Williams made a movement(s) (unknown exact
	movement), due to some changes/lighting observed behind the fence slats
	(especially two slats to the right of bright colored hole/circle on fence). It is
	unknown exactly, but possible, that James Williams fired a shot in F2278 due
	to the constant pace of the gunshots (between .20 and .30 second apart), and
	the audio waveform effect still had the constant stream of spikes due to the
	volume of the gunshots.
	Again, the gunshots were so loud and so rapid that the audio waveform effect
	was nearly a constant stream of spikes and was virtually impossible to
	identify each individual gunshot.
	See cropped marked image below:



Light-colored cloud, possible gunpowder, from Officer Huber's pistol



2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Marked Image	F2288 – 00-01-11-08 – Video Presentation – BWC		
Time Elapsed	0.30 seconds (from previous marked image, F2279 – 00-01-10-29)		
Notes	Officer Huber fired the (approximately) third (3) shot from his pistol in the direction of the fence and James Williams. A light, opaque cloud (believed to be gunpowder) was observed near the end of Officer Huber's pistol barrel. The lighting and changes near the fence slats were not clear enough to determine what James Williams was doing at this moment. The audio waveform effect was able to show a slight spike, likely recording the gunshot fired by Officer Huber. See marked image below:		
MOTOROLA SOLUTIONS	01/01/2022 00:07:35 BWC2-041234		





2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Marked Image	F2297 – 00-01-11-17 – Video Presentation – BWC		
Time Elapsed	0.30 seconds (from previous marked image, F2288 – 00-01-11-08)		
Notes	Officer Huber fired the (approximately) fourth (4) shot from his pistol in the direction of the fence and James Williams. A light, opaque cloud (believed to be gunpowder) was observed near the end of Officer Huber's pistol barrel. The lighting and changes near the fence slats were not clear enough to determine what James Williams was doing at this moment. The audio waveform effect was able to show a slight spike, likely recording the gunshot fired by Officer Huber. See marked image below:		
MOTOROLA SOLUTIONS	01/01/2022 00:07:36 BWC2-041234		







Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



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Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



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Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

Marked Image	F2323 – 00-01-12-13 – Video Presentation – BWC		
Time Elapsed	0.27 seconds (from previous marked image, F2315 – 00-01-12-05)		
Notes	Officer Huber fired the (approximately) seventh (7) shot from his pistol in the direction of the fence and James Williams. A light, opaque cloud (believed to be gunpowder) was observed near the end of Officer Huber's pistol barrel. He moved slightly backwards. The lighting and changes near the fence slats were not clear enough to determine what James Williams was doing at this moment. The audio waveform effect was able to show a slight spike, likely recording the gunshot fired by Officer Huber. See marked image below:		
MOTOROLA SOLUTIONS	01/01/2022 00:07:36 BWC2-041234		

00:01:12:13 **29.97fps**





Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio



Marked Image	F2332 – 00-01-12-22 – Video Presentation – BWC		
Time Elapsed	0.30 seconds (from previous marked image, F2323 – 00-01-12-13)		
	0.33 seconds (including this frame)		
Notes	Officer Huber fired the (approximately) eighth (8) and final shot from his pistol in the direction of the fence and James Williams. A light, opaque cloud (believed to be gunpowder) was observed near the end of Officer Huber's pistol barrel. He moved slightly backwards. The lighting and changes near the fence slats were not clear enough to determine what James Williams was doing at this moment. The audio waveform effect was able to show a slight spike, likely recording the gunshot fired by Officer Huber. See marked image below:		
MOTOROLA SOLUTIONS	01/01/2022 00:07:37 BWC2-041234		



00:01:12:22 29.97fps

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2022-0001

Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

Frame	F2384 – 00-01-14-14 – Video Presentation – BWC
Notes	Officer Huber radioed, "Shots fired!" as he continued moving backwards. No marked image was created for this frame, due to no noticeable and significant visual changes.

Frame	F2471 – 00-01-17-11 – Video Presentation – BWC
Notes	Officer Huber yelled, "Police! Get down now!" He stopped moving and was positioned near the southwest corner of the residence. Officer Paris' cruiser headlights were observed illuminating the driveway on the left side of the video screen. No marked image was created for this frame, due to no noticeable and significant visual changes.

Frame	F2554 – 00-01-20-04 – Video Presentation – BWC		
Notes	Officer Huber repeated, "Police! Get down now!" He stopped moving and		
	was positioned near the southwest corner of the residence. Officer Paris'		
	cruiser headlights and emergency lights were observed illuminating the		
	driveway on the left side of the video screen. No marked image was created		
	for this frame, due to no noticeable and significant visual changes.		

Frame	F2686 – 00-01-24-16 – Video Presentation – BWC	
Notes	Officer Huber turned and ran to the rear of his cruiser in the street. He	
	radioed, "Shots fired." No marked image was created for this frame, due to no	
	noticeable and significant visual changes.	

Frame	F3216 – 00-01-42-07 – Video Presentation – BWC	
Notes	A voice, believed to be Officer Paris, said, "Huber, where's he at man?"	
	Officer Huber used the flashlight on his pistol to illuminate the patio area on	
	the west side of the residence and stated, "He was right there. See the	
	gunoh fuck. Yeah, we're good." Officer Huber was breathing heavily and	
	rapidly.	

Frame	F3300 – 00-01-45-01 – Video Presentation – BWC	
Notes	This was the last frame of the video presentation. Officer Huber was	
	positioned near the rear bumper of his cruiser and asked Officer Paris to	
	provide him with cover for a moment.	





2022-0001 Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

• Both Video Presentations – 22-00003 Four Camera View and 22-00003 Video Presentation

iNPUT ACE – Workflow Tab

SA Moran selected the iNPUT ACE "Workflow" tab. SA Moran selected "Advanced" output and in the "FORMAT" pane. SA Moran then selected "BMP" (Bitmap) under IMAGE. BMP was chosen as the output due to it being lossless. All of the marked images were selected and connected to the "Output to BMP" node and the workflow was executed.

SA Moran connected selected marked images from the "22-00003 Video Presentation" that showed movements, actions and possible gunshots and connected them to "CROP" filter nodes. SA Moran used the "CROP" filter nodes to highlight areas of interest in each selected marked image. The following marked images were connected to "CROP" filter nodes:

innage. In	
F2162	
F2169	
F2176	
F2183	
F2188	
F2195	
F2202	
F2218	
F2231	
F2238	
F2247	
F2255	
F2263	
F2269	
F2270	
F2279	
	1

SA Moran selected "Advanced" output and in the "FORMAT" pane. SA Moran then selected "BMP" (Bitmap) under IMAGE. BMP was chosen as the output due to it being lossless. All of the selected marked images connected to "CROP" filter nodes were selected and connected to the "Output to BMP" node and the workflow was executed.

These cropped images and descriptions were included above directly after the full marked image.





2022-0001 Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

TIMING AND ACTION SUMMARY FOR OOCIC 22-00003 VIDEO PRESENTATION

SA Moran created a spreadsheet with multiple tabs calculating time between several moments during the event.

- The total time from the start of the BWC video presentation to the eighth and final shot fired by Officer Huber is approximately 72.77 seconds long.

- F152 - 00:00:00:00 through F2332 - 00:01:12:22

- About 2183 frames x 1/30 (0.03333333) = 72.76665939

- The total time from the start of the BWC video presentation to the first gunshot captured on the audio recording (likely fired by James Williams) is approximately 62.13 seconds long.

- F152 - 00:00:00:00 through F2103- 00:01:02:03

- About 1864 frames x 1/30 (0.03333333) = 62.13332712

- The total time when the BWC video captured the first gunshot on the audio recording (likely fired by James Williams) to the first gunshot visually observed (likely fired by James Williams) on the video recording as Officer Huber rounded the southwest corner of the residence is approximately 5.00 seconds long.

- F2013 - 00:01:02:03 through F2162 - 00:01:07:02 - About 150 frames x 1/30 (0.03333333) = 4.9999995

- The total time when the BWC video captured the first gunshot on the audio recording (likely fired by James Williams) to the first gunshot visually observed being fired by Officer Huber is approximately 8.57 second long.

- F2013 – 00:01:02:03 through F2269 – 00:01:10:19 - About 257 frames x 1/30 (0.03333333) = 8.56666581

- The total time when the BWC video visually captured the first gunshot visually observed (likely fired by James Williams) to the first gunshot visually observed being fired by Officer Huber is approximately 3.60 seconds long.

- F2162 - 00:01:07:02 through F2269 - 00:01:10:19 - About 108 frames x 1/30 (0.03333333) = 3.59999964

- The total time when the BWC video visually captured the first gunshot visually observed being fired by Officer Huber, including a possible gunshot fired by James Williams and Officer





2022-0001 Officer-Involved Critical Incident - 2307 10th Street SW, Canton, Ohio

Huber's three through eight gunshots which were visually observed and captured on audio, through the eighth and final gunshot fired by Officer Huber is approximately 2.13 seconds.

- F2269 - 00:01:10:19 through F2332 - 00:01:12:22

- About 64 frames x 1/30 (0.03333333) = 2.13333312

- The total time when the BWC video visually captured eight or nine gunshots visually observed likely being fired by James Williams (prior to Officer Huber's first gunshot) through Officer Huber's eighth gunshot visually observed and captured on audio is approximately 3.83 seconds.

- F2218 – 00:01:08:28 through F2331 – 00:01:12:22

- About 115 frames x 1/30 (0.03333333) = 3.83333295

• 22-00003 Video Presentation – Speed Views

This video presentation played the same video as presented in "21-00141 Presentation," but at 50% speed and then it repeated at full speed. It captured the same events as the "21-00141 Presentation" and was created for demonstrative purposes.

Reference Items:

The OOCIC work product discs and OOCIC Item #1 were submitted to the BCI case file as part of reference item N. The iNPUT ACE project file, derivatives (marked images and cropped images), workflow notes and the frame and timing spreadsheet were placed on a disc and were submitted to the BCI case file as part of reference item N.

Attachments:

The derivatives (marked images and cropped images), workflow notes and the frame and timing spreadsheet were uploaded to the BCI Matrix case file and were attached to this report for reference. The frame and timing spreadsheet tabs were converted to PDF and were uploaded to the BCI Matrix case file and were also attached to this report.



Ohio Organized Crime Investigations Commission

Evidence Submission Form



Submission Date	Priority Code	Due Date	
01/24/2022			
OOCIC Case Number	Shelf Location		
22-00003			
(OOCIC Evidence Tech will complete this section)			
Refer to OCI	C Submission Number f	or Inquires	

Submitting Agency (or OOCIC	Task Force Number)	Case Investigator Name:	Submitting Investigator:	
BCI Richfield		S/A Charles Moran	S/A Charles Moran	
County:		Agency Case Number:	Court Date:	
Summit		2022-00001		
Telephone Number:	Cell Phone Number	FAX Number:		
234-400-3618	330-807-7261	866-218-0993		
Mailing Address:		E-Mail Address:		
4055 Highlander Pkwy		charles.moran@ohioattorneygeneral.gov		
Richfield, OH 44286				

Submitted Items: (OOCIC Evidence Tech will complete this section)

Item #	Description	Make	Model	Lot Number
1	Flash Drive/Jump Drive/Thumb Drive Black and silver thumb			
	drive			
2	Video CD CD labeled "2022-0001 - Item 67 Preliminary			
	Findings -1 Vide File			
W.P. 1.1	DVD - Data 3 DVDs.			

Requested Services: (Check all that apply)

1.0		-							
Г	Video	Video	Digital	Audio	Audio	Audio	Video	Audio	Video
	Analysis	Duplication	Photographs	Analvsis	Duplication	Reconst./Repair	Reconst./Repair	Redaction	Redaction
11									

Subject Information: (Complete as much as possible)

Subject Name:	Custody Status:	Sex	Sex: Race:		DOB:
Williams, James	NC	Mal	е	African American	
Offense:	Date of Offense:		Location : (City, County)		
Officer Involved Shooting	01/01/2022	Canton, Stark County			

Additional information: (Data from Time Date Generator / Type of System / Court Date / Special Instructions. etc.) See memorandum for further details and analysis request details. Items 1 and 2 listed above were placed on a 4GB USB thumbdrive for submission.

Submitted By:

S/A Charles Moran

Evidence Tech:

Nissa Low



Ohio Organized Crime Investigations Commission

P.O. Box 968 Grove City, OH 43123 Telephone: (614) 277-1000 Facsimile: (614) 277-1010

Chain of Custody Report

Lab Case		22-00003		
Department Name:		BCI Richfield		
Incluent IV	unider	2022-00001		
Item # 1		Description : Flash	n Drive/Jump Drive/Thumb Drive	Black and silver thumb drive
Date	Time	Custody Of	Location / Person	Transaction By
01/24/2022	12:57	Clerical/Evidence	Nissa Low	Nissa Low
01/24/2022	13:15	Evidence Storage	Shelf A1	Nissa Low
01/25/2022	9:03	Clerical/Evidence	Cindy McCreary	Nissa Low
01/25/2022	9:04	Analyst	David F. Loomis	Nissa Low
03/23/2022	13:49	Clerical/Evidence	Nissa Low	Nissa Low
03/23/2022	13:49	Evidence Disposal	Returned to Department	Nissa Low
Item #2			o CD CD labeled "2022-0001 - Iter	m 67 Preliminary Findings -1 Vide
		File		
Date	Time	Custody Of	Location / Person	Transaction By
01/31/2022	13:35	Clerical/Evidence	Matt S. Hilbert	Nissa Low
01/31/2022	13:36	Evidence Storage	Shelf D29	Nissa Low
02/02/2022	8:47	Clerical/Evidence	Nissa Low	Nissa Low
02/02/2022	11:04	Evidence Storage	Shelf A1	Nissa Low
02/07/2022	12:05	Clerical/Evidence	Nissa Low	Nissa Low
02/07/2022	12:06	Analyst	David F. Loomis	Nissa Low
03/23/2022	13:48	Clerical/Evidence	Nissa Low	Nissa Low
03/23/2022	13:48	Evidence Disposal	Returned to Department	Nissa Low
Item # W.P	. 1.1	Description : DVD) - Data 3 DVDs.	
Date	Time	Custody Of	Location / Person	Transaction By
03/23/2022	13:45	Analyst	David F. Loomis	Nissa Low
02/02/0000	13:48	Clerical/Evidence	Nissa Low	Nissa Low
03/23/2022	12.40	Citrical Evidence	111564 2011	111804 2011



Ohio Organized Crime Investigations Commission Forensic Video Analysis

Written March 31st, 2022

To:	BCI Richfield S/A Charles Moran 4055 Highlander Pkwy Richfield, OH 44286	OCIC Case Number:	22-00003
		Agency Case Number:	2022-00001
Type of Offense: Location of Offense:	Officer Involved Shooting Canton, Stark County		

On January 24th, 2022, Special Agent Charles Moran of BCI submitted on flash drive for the purpose of forensic video analysis. Special Agent Moran requested video presentations be created from video files contained on the flash drive. The item submitted will be referred to as ITEM ONE. The process, as it pertains to this case, is as follows:

- Inspect items to ascertain that no physical damage exists
- Generate and save a working copy of the contents of submitted items
- Convert proprietary video files to a universal format for processing
- Utilize software to create video presentations as requested
- Produce a data DVD of video presentations

On January 25th, 2022, ITEM ONE was checked out of the evidence room by Senior Analyst David Loomis.

ITEM ONE was an unknown brand 4GB flash drive with no label. ITEM ONE was inspected for damage and no damage was found. The contents of ITEM ONE were copied and verified via SHA256 hash using Quick Hash 3.0.4.

ITEM ONE contained one .mp4 video file with a display resolution of 1920 pixels by 1080 pixels using the h264 video codec, with audio at a 48000 hertz sample rate, 46 kilobits per second data rate, stereo, using the mp4a audio codec:

 $00_0003975141_96_17_8f_0e-0003957780_0003972473_0003972522_video0.mp4$

ITEM ONE also contained seventeen proprietary .avi video files with a display resolution of 960 pixels by 1080 pixels using the HEVC video codec:

2307 10th St SW DVR\CH1\Open Video (AVI)\CH1_2022-01-01_124101_2022-01-01_125507_ID09460.AVI

2307 10th St SW DVR\CH1\Open Video (AVI)\CH1_2022-01-01_125510_2022-01-01_125704_ID09461.AVI



Written March 31st, 2022

2307 10th St SW DVR\CH1\Open Video (AVI)\CH1_2022-01-01_125707_2022-01-01_125734_ID09462.AVI

2307 10th St SW DVR\CH1\Open Video (AVI)\CH1_2022-01-01_125737_2022-01-01_130525_ID09463.AVI

2307 10th St SW DVR\CH1\Open Video (AVI)\CH1_2022-01-01_130525_2022-01-01_134631_ID09479.AVI

2307 10th St SW DVR\CH2\Open Video (AVI)\CH2_2022-01-01_125646_2022-01-01_125725_ID09449.AVI

2307 10th St SW DVR\CH2\Open Video (AVI)\CH2_2022-01-01_125728_2022-01-01_130252_ID09450.AVI

2307 10th St SW DVR\CH2\Open Video (AVI)\CH2_2022-01-01_130252_2022-01-01_134358_ID09486.AVI

10th St SW DVR\CH3\Open Video (AVI)\CH3_2022-01-01_123107_2022-01-01_125837_ID09466.AVI

2307 10th St SW DVR\CH3\Open Video (AVI)\CH3_2022-01-01_125840_2022-01-01_130128_ID09467.AVI

2307 10th St SW DVR\CH3\Open Video (AVI)\CH3_2022-01-01_130128_2022-01-01_134231_ID09468.AVI

2307 10th St SW DVR\CH4\Open Video (AVI)\CH4_2022-01-01_123804_2022-01-01_124922_ID09421.AVI

2307 10th St SW DVR\CH4\Open Video (AVI)\CH4_2022-01-01_124925_2022-01-01_125352_ID09422.AVI

2307 10th St SW DVR\CH4\Open Video (AVI)\CH4_2022-01-01_125355_2022-01-01_125443_ID09423.AVI

2307 10th St SW DVR\CH4\Open Video (AVI)\CH4_2022-01-01_125446_2022-01-01_125634_ID09424.AVI

2307 10th St SW DVR\CH4\Open Video (AVI)\CH4_2022-01-01_125637_2022-01-01_125707_ID09425.AVI

2307 10th St SW DVR\CH4\Open Video (AVI)\CH4_2022-01-01_125710_2022-01-01_130204_ID09426.AVI



Written March 31st, 2022

On February 2nd, 2022, Special Agent Moran submitted an additional DVD for this case. The item submitted will be referred to as ITEM TWO.

On February 7th, 2022, ITEM TWO was checked out of the evidence room by Senior Analyst Loomis.

ITEM TWO was a Verbatim CD-R labeled:

" 2022-0001 – Item 67

Preliminary findings

-1 video file"

The contents of ITEM TWO were copied and verified via SHA256 hash using Quick Hash 3.0.4.

ITEM TWO contained one .mp4 video file with a display resolution of 1080 pixels by 1920 pixels using the h264 video codec, with audio at a 48000 hertz sample rate, 256 kilobits per second data rate, stereo, using the mp4a audio codec:

-3361408574055414289.mp4

The proprietary .avi video files from ITEM ONE were converted to universal .mp4 video files for processing using the iNput Ace forensic video analysis and conversion software.

The video files from ITEM ONE and ITEM TWO were brought into the Adobe Premiere CC 2022 video analysis software for review and the creation of a synchronized video timeline.

The video files originally from the DVR at the location of the incident contained an irregular date/time stamp which prohibited precise synchronization based upon the date/time. Due to a lack of visual overlap between the various cameras, a precise synchronization could not be achieved based on visual cues. Attempting to precisely synchronize the DVR cameras with the body-worn camera also failed. As a result, the body-worn camera presentation was created separately. A video timeline presentation was created with the DVR cameras, but it was only generally synchronized based upon the irregular timestamp and limited visual overlap between cameras. The four-camera view should not be used to calculate precise timing.

The body-worn camera view

(00_0003975141_96_17_8f_0e0003957780_0003972473_0003972522_video0.mp4) was brought into the Adobe After Effects CC 2022 video analysis and compositing software for the creation of the video presentations. The video was edited to the scope of the event requested by Special Agent Moran. An audio waveform effect was added. A timecode effect was added. A second presentation was created demonstrating the video at half-speed and original speed. Title slates were added and the video presentations were rendered out as universal .mp4 video files for demonstrative purposes.


Written March 31st, 2022

The DVR video timeline was brought into the Adobe After Effects for the creation of the four-camera view presentation. The video files were aspect adjusted and contrast adjusted. The video was edited to the scope of the event requested by Special Agent Moran. Title slates were added and the four-camera presentation was rendered out as a universal .mp4 video file for demonstrative purposes.

The video file from ITEM TWO contained video that occurred prior to the event requested by Special Agent Moran and prior to the body-worn camera video and was not included in any of the presentations.

The three video presentations were placed onto a data DVD. A total of three copies of the DVD were created.

On March 23rd, 2022, the three DVDs were returned to the evidence room for shipping, along with ITEM ONE and ITEM TWO.

Loomen

David F. Loomis Senior Forensic Analyst 614-277-1000 David.Loomis@OhioAGO.gov

Nat Hiller

Matt S. Hilbert Supervisor Approval

DAVID F. LOOMIS – CURRICULUM VITAE

The Ohio Organized Crime Investigations Commission P.O. Box 968, Grove City, Ohio 43123 (614) 277-1000 / (614) 277-1010 fax / David.Loomis@OhioAttorneyGeneral.gov

Professional Experience

Senior Forensic Audio/Video Analyst

The Ohio Organized Crime Investigations Commission Office of the Ohio Attorney General

- Provides general supervision of the OOCIC Audio/Video laboratory
- Implements policy and procedures •
- Reviews case files and lab testing practices
- Responsible for reviewing and approving lab reports
- Provides recommendations on training and equipment •
- Assists in the hiring process of new Analysts
- Performs all other duties of Forensic Audio/Video Analyst (as listed below) •

Forensic Audio/Video Analyst

The Ohio Organized Crime Investigations Commission Office of the Ohio Attorney General

- Performs forensic analysis of audio, video, photographic, and other evidence, whether analog or digital in nature, for investigation and court presentation
- Attends training, workshops, and seminars to maintain current working knowledge of trends and • developments in the Forensic Audio/Video field
- Conducts testing and preparation of audio, video, and photographic evidence •
- Clarification of evidentiary audio and video recordings
- Clarification of digital images
- Performs audio and video transcoding ۰
- Forensic 2D and 3D animation •
- Extraction of video from Digital Video Recorders •
- Carves video data from various digital sources •
- Duplication and digitization of audio and video recordings
- Repairs damaged audio and video tapes for evidentiary purposes
- Makes presentations to task force investigators and law enforcement agencies •

Graphic Artist

Educational Outfitters

- Created various designs for email marketing campaigns, customer logos, t-shirts, store signage, and • fliers
- Prepared media for use in email marketing campaigns, various printing and production processes
- Responsible for installation and maintenance of design software packages
- Designed and digitized artwork for embroidery

Freelance Photographer / Videographer

• Family and portrait photography

Self-Employed

Sept 2003 – April 2010 Denver, CO and Pittsburgh, PA

August 2014 – March 2019 Columbus, Ohio

March 2019 - Present

Columbus, Ohio

April 2010 - June 2014

Pittsburgh, Pennsylvania

- Digital photo editing and digital photo restoration
- Video recording, editing, and DVD presentations

Forensic Animation Intern

Knott Laboratory

- Assisted a team of animators and engineers to create accident reconstruction animations for legal proceedings
- 3D modeling, animation, compositing, and video editing
- Use of photogrammetry and camera matching to reconstruct scenes
- 3D cut-away views of mechanical processes

Lead Network Transport Planner

Qwest Communications International, Inc.

- Quarterly planning of nationwide wavelength services network (10 gigabit and 2.5 gigabit line system)
- Optimized the network plan using various equipment vendor and third-party software tools
- Calculated budgetary requirements for entire planned wavelength services network over various time periods
- Conducted studies of new nationwide network architectures, impacts of large customer deals, and potential fiber optic routes
- Utilized knowledge of various equipment interfaces (Nortel Preside / Ciena Wavewatcher) along with internal databases and the Microsoft Office suite to constantly improve processes, monitor planning progress, and analyze trends
- Tested and evaluated various vendor-specific and third party planning software
- Supported deployment planning of network transport technologies

Senior Network Transport Planner

Qwest Communications international, Inc.

- Assisted with development of and updates to quarterly SONET network plans
- Actively supported planning efforts concerning new, changes to, and life cycle management / retirement of currently deployed network transport technologies
- Supported deployment planning of newly installed network assets
- Involved with scenario analysis concerning plan assumption changes / timing
- Utilized knowledge of Visual Basic for Excel to streamline current network data extraction from several weeks by many planners to minutes by a solo planner
- Awarded Letter of Recognition from VP for outstanding work in streamlining operations

Space Communications Systems Controller	June 1995 – June 1999
United States Air Force	Schriever AFB, Colorado
22d Space Operations Squadron	
50 th Space Communications Squadron	

- Responsible for operating and troubleshooting communication and computer resources valued at over \$440 million to support the Air Force Satellite Control Network (AFSCN)
- Directed and implemented fault isolation, testing, troubleshooting, and analysis of transmission links, including T1 through T3, to ensure proper operations
- Provided worldwide connectivity across seven Department of Defense space programs, NASA, and NOAA
- Maintained a 99% efficiency rating on over 4,000 satellite communications mission supports, directly contributing to work center's 93.3% success rate on satellite mission contacts

June 1999 – Nov 2000 Denver, Colorado

July 2003 – Sept 2003 Denver, Colorado

Nov 2000 – Nov 2001

Denver, Colorado

- Handpicked to assist contractors with implementation and test procedures on a \$7 million project to link new satellite operations center with resources located at Schriever Air Force Base
- Awarded Senior Airman Below the Zone (promoted to E-4 six months early)
- Awarded the National Defense Service Medal and Air Force Good Conduct Medal
- Decorated Awarded the Air Force Achievement Medal for Meritorious Service

Education

 Bachelor of Arts Media Arts and Animation Instruction in animation, video production, editing, and compositediting 3.9 GPA Alpha Beta Kappa National Honor Society Portfolio Voted "Best Book" by AiC instructors at graduation 	The Art Institute of Colorado Denver, Colorado ting, and audio production and
Journeyman Communications, Computer Systems Operations • Honor Graduate (98% average)	USAF Technical Training School Biloxi, Mississippi
Undergraduate Studies Fine Art, Liberal Arts, Mathematics	Ohio University Athens, Ohio
Certifications	
LEVA Certified Forensic Video Technician	June 2016 - Present
Training	
 LEVA Level 1 – Forensic Video Analysis and the Law (40 Hours) Principles of CCTV Systems Non-Linear Editing Data Authentication and Integrity Video Compression Scientific Method Video and the Law Infrared Light 	April 2015
 Issues of Bias in Forensic Science (8 Hours) Defining Bias as it Applies to Scientific Fields Overview of Decision Making and How We Think Discussion of Methods to Counter-act Bias 	May 2015
 Introduction to Forensic Audio Analysis (24 Hours) Science and Physics of Sound Fundamentals of Recording and Playback Devices Audio Processing Techniques 	September 2015

Critical ListeningBest PracticesHands-on Audio Clarification	
 LEVA Level 2 – Processing Digital Multimedia Evidence (40 How Compression Theory Digital Video Acquisition Screen Capture Utilities Video File Formats and Video Containers Integrating Hashing into Workflow Technical Report Writing Legal Aspects of Digital Multimedia Evidence TCP/IP Networking Analytical Report Writing 	rs) June 2016
 NW3C CI 100 – Identifying and Seizing Electronic Evidence (2.5 Identifying sources of electronic evidence Preserving electronic evidence for analysis Best practices for seizure of electronic evidence 	Hours) July 2016
 NW3C CS 100 Introduction to Computer Networks (2.75 House Networking overview OSI Model TCP/IP 	s) August 2016
 NW3C CI 102 – How Computers Work and Store Data (3 Hours Hardware and storage configurations Number systems (Decimal, Hexadecimal, Binary) Partitioning drives Identifying volumes File systems 	July 2018
 U.S. Department of Homeland Security - Cyber Security Investiga Overview of cybersecurity incident response and forensic Digital forensic concepts, forensic media preparation Digital evidence collection Triage process and analysis Suspicious trace analysis Data carving 	
 LEVA Level 3 – Video Contrast and Comparison (40 Hours) Philosophy and principles of video contrast and comparis Scientific method Class Characteristics vs Individual Characteristics Effects of lighting, aspect ratio, resolution, and compress Analytical report writing Types of bias in forensic video analysis and how to reduce 	on on video analysis

LEVA Courtroom Testimony for Expert Witnesses (24 Hours)

- Trial procedure
- Report writing techniques
- Effects of bias
- Moot court

 State of Ohio vs Thaddeus Bumgardner Common Pleas Court of Meigs County Expert Witness Qualification Testified concerning forensic audio analysis of evidence in a felonious a 	June 29th, 2016 14 CR 117 ssault trial
 State of Ohio vs Tony Cohen Common Pleas Court of Summit County Expert Witness Qualification Testified concerning forensic video analysis of evidence in an aggravated 	December 1st, 2017 2016-11-3966 d robbery trial
 State of Ohio vs Mark Mabry Common Pleas Court of Richland County Expert Witness Qualification Testified concerning deleted file recovery and forensic video analysis of assault trial 	October 16 th , 2018 2018-CR-0255R evidence in an aggravated
 State of Ohio vs Warriayre Armond Roundtree Franklin County Common Pleas Court Expert Witness Qualification Testified concerning forensic video analysis of evidence in an aggravate 	December 11 th , 2019 18-CR-01669 d murder trial

Professional Memberships

Law Enforcement and Emergency Services Video Association	August 2014 – Present
High Technology Crime Investigation Association	August 2018 - Present

May 2019

OOCIC 22-00003 Video Presentation

Marked Images Frame and Time Calculations

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00:00:12:02	00:00:26:00	00:00:57:27								
00:00:12:03	00:00:26:01	00:00:57:28								
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00:00:12:18		00:00:58:14								
00:00:12:13		00:00:58:15								
50.00.12.20	00.00.20.10	TOTAL								
00:00:12:21	00.00.26.19	FRAMES								
00:00:12:21		381								
00:00:12:23		0.03333333								
00:00:12:24		TIME								
00:00:12:25		12.6999987			 					
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	ALL FRAMES TOTAL
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	0.0333333
	MARKED IMAGES (TO OFFICER HUBER'S EIGHTH AND
	FINAL SHOT)
	72.76665939
	72.77 seconds

Canton PD OIS 1/1/2022

OOCIC 22-00003 Video Presentation

FRAME #										
F152	F570	F962	F1068	F1214	F1526	F1907	F2013			
TIMECODE										
00:00:00:00	00:00:13:28	00:00:27:00	00:00:30:17	00:00:35:13	00:00:45:25	00:00:58:16	00:01:02:03	1st sho	ot fired by s	ubject
	00 00 40 00	00 00 07 04		00 00 05 44	00 00 45 00	00 00 50 47	TOTAL			
00:00:00:01	00:00:13:29	00:00:27:01		00:00:35:14	00:00:45:26	00:00:58:17	FRAMES			
		00:00:27:02	00:00:30:19		00:00:45:27	00:00:58:18	1			
		00:00:27:03		00:00:35:16		00:00:58:19				
00:00:00:04		00:00:27:04	00:00:30:21		00:00:45:29		TIME			
		00:00:27:05	00:00:30:22		00:00:46:00		0.03333333			
00:00:00:06		00:00:27:06		00:00:35:19	00:00:46:01	00:00:58:22	0.03			
	00:00:14:05			00:00:35:20						
		00:00:27:08		00:00:35:21		00:00:58:24				
		00:00:27:09		00:00:35:22						
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				00:00:35:24	00:00:46:06					
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						00:00:58:29				
00:00:00:14	00:00:14:12	00:00:27:14	00:00:31:01		00:00:46:09	00:00:59:00				
00:00:00:15	00:00:14:13	00:00:27:15	00:00:31:02	00:00:35:28	00:00:46:10					
00:00:00:16	00:00:14:14	00:00:27:16	00:00:31:03	00:00:35:29	00:00:46:11	00:00:59:02				
00:00:00:17	00:00:14:15	00:00:27:17	00:00:31:04	00:00:36:00	00:00:46:12	00:00:59:03				
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00:00:01:03	00:00:15:01	00:00:28:03	00:00:31:20	00:00:36:16	00:00:46:28	00:00:59:19				
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Canton PD OIS 1/1/2022

OOCIC 22-00003 Video Presentation

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00:00:01:14	00:00:15:12	00:00:28:14	00:00:32:01	00:00:36:27	00:00:47:09	00:01:00:00		
00:00:01:15	00:00:15:13	00:00:28:15	00:00:32:02	00:00:36:28	00:00:47:10	00:01:00:01		
00:00:01:16	00:00:15:14	00:00:28:16	00:00:32:03	00:00:36:29	00:00:47:11	00:01:00:02		
00:00:01:17	00:00:15:15	00:00:28:17	00:00:32:04	00:00:37:00	00:00:47:12	00:01:00:03		
00:00:01:18	00:00:15:16	00:00:28:18	00:00:32:05	00:00:37:01	00:00:47:13	00:01:00:04		
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00:00:02:19		00:00:29:19			00:00:48:14			
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00:00:02:29	00:00:16:27	00:00:29:29	00:00:33:16	00:00:38:12	00:00:48:24	00:01:01:15		

Canton PD OIS 1/1/2022

OOCIC 22-00003 Video Presentation

Cunton PD (515 1/1/202	22		Sturt of D	WC 10 131 5	not by Subj		
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00:00:03:01	00:00:16:29	00:00:30:01	00:00:33:18	00:00:38:14	00:00:48:26	00:01:01:17		
00:00:03:02	00:00:17:00	00:00:30:02	00:00:33:19	00:00:38:15	00:00:48:27	00:01:01:18		
00:00:03:03	00:00:17:01	00:00:30:03	00:00:33:20	00:00:38:16	00:00:48:28	00:01:01:19		
00:00:03:04	00:00:17:02	00:00:30:04	00:00:33:21	00:00:38:17	00:00:48:29	00:01:01:20		
00:00:03:05	00:00:17:03	00:00:30:05	00:00:33:22	00:00:38:18	00:00:49:00	00:01:01:21		
00:00:03:06	00:00:17:04	00:00:30:06	00:00:33:23	00:00:38:19	00:00:49:01	00:01:01:22		
00:00:03:07	00:00:17:05	00:00:30:07	00:00:33:24	00:00:38:20	00:00:49:02	00:01:01:23		
00:00:03:08	00:00:17:06	00:00:30:08	00:00:33:25	00:00:38:21	00:00:49:03	00:01:01:24		
00:00:03:09	00:00:17:07	00:00:30:09	00:00:33:26	00:00:38:22	00:00:49:04	00:01:01:25		
00:00:03:10	00:00:17:08	00:00:30:10	00:00:33:27	00:00:38:23	00:00:49:05	00:01:01:26		
00:00:03:11	00:00:17:09	00:00:30:11	00:00:33:28	00:00:38:24	00:00:49:06	00:01:01:27		
00:00:03:12	00:00:17:10	00:00:30:12	00:00:33:29	00:00:38:25	00:00:49:07	00:01:01:28		
00:00:03:13	00:00:17:11	00:00:30:13	00:00:34:00	00:00:38:26	00:00:49:08	00:01:01:29		
00:00:03:14	00:00:17:12	00:00:30:14	00:00:34:01	00:00:38:27	00:00:49:09	00:01:02:00		
00:00:03:15	00:00:17:13	00:00:30:15	00:00:34:02	00:00:38:28	00:00:49:10	00:01:02:01		
00:00:03:16	00:00:17:14	00:00:30:16	00:00:34:03	00:00:38:29	00:00:49:11	00:01:02:02		
		TOTAL				TOTAL		
00:00:03:17	00:00:17:15	FRAMES	00:00:34:04	00:00:39:00	00:00:49:12	FRAMES		
00:00:03:18	00:00:17:16	107	00:00:34:05	00:00:39:01	00:00:49:13	107		
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00:00:03:21	00:00:17:19	3.56666631	00:00:34:08	00:00:39:04	00:00:49:16	3.56666631		
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00:00:03:23	00:00:17:21		00:00:34:10	00:00:39:06	00:00:49:18			
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Canton PD OIS 1/1/2022

OOCIC 22-00003 Video Presentation

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00:00:04:28			00:00:40:11				
00:00:04:29		TIME		00:00:50:24			
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00:00:05:01		4.87		00:00:50:26			
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00:00:05:24				00:00:51:19			
				00:00:51:20			
00:00:05:26			00:00:41:09				
00:00:05:27				00:00:51:22			
00:00:05:28				00:00:51:23			
00:00:05:29				00:00:51:24			
00:00:06:00			00:00:41:13				
00:00:06:01	00:00:19:29		00:00:41:14	00:00:51:26			

OOCIC 22-00003 Video Presentation

Canton PD OIS 1/1/2022	Start of BWC to 1st Shot by Subject	
00:00:06:02 00:00:20:00	00:00:41:15 00:00:51:27	
00:00:06:03 00:00:20:01	00:00:41:16 00:00:51:28	
00:00:06:04 00:00:20:02	00:00:41:17 00:00:51:29	
00:00:06:05 00:00:20:03	00:00:41:18 00:00:52:00	
00:00:06:06 00:00:20:04	00:00:41:19 00:00:52:01	
00:00:06:07 00:00:20:05	00:00:41:20 00:00:52:02	
00:00:06:08 00:00:20:06	00:00:41:21 00:00:52:03	
00:00:06:09 00:00:20:07	00:00:41:22 00:00:52:04	
00:00:06:10 00:00:20:08	00:00:41:23 00:00:52:05	
00:00:06:11 00:00:20:09	00:00:41:24 00:00:52:06	
00:00:06:12 00:00:20:10	00:00:41:25 00:00:52:07	
00:00:06:13 00:00:20:11	00:00:41:26 00:00:52:08	
00:00:06:14 00:00:20:12	00:00:41:27 00:00:52:09	
00:00:06:15 00:00:20:13	00:00:41:28 00:00:52:10	
00:00:06:16 00:00:20:14	00:00:41:29 00:00:52:11	
00:00:06:17 00:00:20:15	00:00:42:00 00:00:52:12	
00:00:06:18 00:00:20:16	00:00:42:01 00:00:52:13	
00:00:06:19 00:00:20:17	00:00:42:02 00:00:52:14	
00:00:06:20 00:00:20:18	00:00:42:03 00:00:52:15	
00:00:06:21 00:00:20:19	00:00:42:04 00:00:52:16	
00:00:06:22 00:00:20:20	00:00:42:05 00:00:52:17	
00:00:06:23 00:00:20:21	00:00:42:06 00:00:52:18	
00:00:06:24 00:00:20:22	00:00:42:07 00:00:52:19	
00:00:06:25 00:00:20:23	00:00:42:08 00:00:52:20	
00:00:06:26 00:00:20:24	00:00:42:09 00:00:52:21	
00:00:06:27 00:00:20:25	00:00:42:10 00:00:52:22	
00:00:06:28 00:00:20:26	00:00:42:11 00:00:52:23	
00:00:06:29 00:00:20:27	00:00:42:12 00:00:52:24	
00:00:07:00 00:00:20:28	00:00:42:13 00:00:52:25	
00:00:07:01 00:00:20:29	00:00:42:14 00:00:52:26	
00:00:07:02 00:00:21:00	00:00:42:15 00:00:52:27	
00:00:07:03 00:00:21:01	00:00:42:16 00:00:52:28	
00:00:07:04 00:00:21:02	00:00:42:17 00:00:52:29	
00:00:07:05 00:00:21:03	00:00:42:18 00:00:53:00	
00:00:07:06 00:00:21:04	00:00:42:19 00:00:53:01	
00:00:07:07 00:00:21:05	00:00:42:20 00:00:53:02	
00:00:07:08 00:00:21:06	00:00:42:21 00:00:53:03	
00:00:07:09 00:00:21:07	00:00:42:22 00:00:53:04	
00:00:07:10 00:00:21:08	00:00:42:23 00:00:53:05	
00:00:07:11 00:00:21:09	00:00:42:24 00:00:53:06	
00:00:07:12 00:00:21:10	00:00:42:25 00:00:53:07	
00:00:07:13 00:00:21:11	00:00:42:26 00:00:53:08	
00:00:07:14 00:00:21:12	00:00:42:27 00:00:53:09	
00:00:07:15 00:00:21:13	00:00:42:28 00:00:53:10	
00:00:07:16 00:00:21:14	00:00:42:29 00:00:53:11	
00:00:07:17 00:00:21:15	00:00:43:00 00:00:53:12	
00:00:07:18 00:00:21:16	00:00:43:01 00:00:53:13	

OOCIC 22-00003 Video Presentation

Canton PD OIS 1/1/2022	Start of BWC to 1st Shot by Subject	00
00:00:07:19 00:00:21:17	00:00:43:02 00:00:53:14	
00:00:07:20 00:00:21:18	00:00:43:03 00:00:53:15	
00:00:07:21 00:00:21:19	00:00:43:04 00:00:53:16	
00:00:07:22 00:00:21:20	00:00:43:05 00:00:53:17	
00:00:07:23 00:00:21:21	00:00:43:06 00:00:53:18	
00:00:07:24 00:00:21:22	00:00:43:07 00:00:53:19	
00:00:07:25 00:00:21:23	00:00:43:08 00:00:53:20	
00:00:07:26 00:00:21:24	00:00:43:09 00:00:53:21	
00:00:07:27 00:00:21:25	00:00:43:10 00:00:53:22	
00:00:07:28 00:00:21:26	00:00:43:11 00:00:53:23	
00:00:07:29 00:00:21:27	00:00:43:12 00:00:53:24	
00:00:08:00 00:00:21:28	00:00:43:13 00:00:53:25	
00:00:08:01 00:00:21:29	00:00:43:14 00:00:53:26	
00:00:08:02 00:00:22:00	00:00:43:15 00:00:53:27	
00:00:08:03 00:00:22:01	00:00:43:16 00:00:53:28	
00:00:08:04 00:00:22:02	00:00:43:17 00:00:53:29	
00:00:08:05 00:00:22:03	00:00:43:18 00:00:54:00	
00:00:08:06 00:00:22:04	00:00:43:19 00:00:54:01	
00:00:08:07 00:00:22:05	00:00:43:20 00:00:54:02	
00:00:08:08 00:00:22:06	00:00:43:21 00:00:54:03	
00:00:08:09 00:00:22:07	00:00:43:22 00:00:54:04	
00:00:08:10 00:00:22:08	00:00:43:23 00:00:54:05	
00:00:08:11 00:00:22:09	00:00:43:24 00:00:54:06	
00:00:08:12 00:00:22:10	00:00:43:25 00:00:54:07	
00:00:08:13 00:00:22:11	00:00:43:26 00:00:54:08	
00:00:08:14 00:00:22:12	00:00:43:27 00:00:54:09	
00:00:08:15 00:00:22:13	00:00:43:28 00:00:54:10	
00:00:08:16 00:00:22:14	00:00:43:29 00:00:54:11	
00:00:08:17 00:00:22:15	00:00:44:00 00:00:54:12	
00:00:08:18 00:00:22:16	00:00:44:01 00:00:54:13	
00:00:08:19 00:00:22:17	00:00:44:02 00:00:54:14	
00:00:08:20 00:00:22:18	00:00:44:03 00:00:54:15	
00:00:08:21 00:00:22:19	00:00:44:04 00:00:54:16	
00:00:08:22 00:00:22:20	00:00:44:05 00:00:54:17	
00:00:08:23 00:00:22:21	00:00:44:06 00:00:54:18	
00:00:08:24 00:00:22:22	00:00:44:07 00:00:54:19	
00:00:08:25 00:00:22:23	00:00:44:08 00:00:54:20	
00:00:08:26 00:00:22:24	00:00:44:09 00:00:54:21	
00:00:08:27 00:00:22:25	00:00:44:10 00:00:54:22	
00:00:08:28 00:00:22:26	00:00:44:11 00:00:54:23	
00:00:08:29 00:00:22:27	00:00:44:12 00:00:54:24	
00:00:09:00 00:00:22:28	00:00:44:13 00:00:54:25	
00:00:09:01 00:00:22:29	00:00:44:14 00:00:54:26	
00:00:09:02 00:00:23:00	00:00:44:15 00:00:54:27	
00:00:09:03 00:00:23:01	00:00:44:16 00:00:54:28	
00:00:09:04 00:00:23:02	00:00:44:17 00:00:54:29	
00:00:09:05 00:00:23:03	00:00:44:18 00:00:55:00	

OOCIC 22-00003 Video Presentation

Canton PD OIS 1/1/2022		WC to 1st Shot by	,
00:00:09:06 00:00:23:04		00:00:55:01	
00:00:09:07 00:00:23:05		00:00:55:02	
00:00:09:08 00:00:23:06		00:00:55:03	
00:00:09:09 00:00:23:07		00:00:55:04	
00:00:09:10 00:00:23:08		00:00:55:05	
00:00:09:11 00:00:23:09		00:00:55:06	
00:00:09:12 00:00:23:10	00:00:44:25	00:00:55:07	
00:00:09:13 00:00:23:11		00:00:55:08	
00:00:09:14 00:00:23:12	00:00:44:27	00:00:55:09	
00:00:09:15 00:00:23:13	00:00:44:28	00:00:55:10	
00:00:09:16 00:00:23:14	00:00:44:29	00:00:55:11	
00:00:09:17 00:00:23:15	00:00:45:00	00:00:55:12	
00:00:09:18 00:00:23:16	00:00:45:01	00:00:55:13	
00:00:09:19 00:00:23:17	00:00:45:02	00:00:55:14	
00:00:09:20 00:00:23:18	00:00:45:03	00:00:55:15	
00:00:09:21 00:00:23:19	00:00:45:04	00:00:55:16	
00:00:09:22 00:00:23:20	00:00:45:05	00:00:55:17	
00:00:09:23 00:00:23:21	00:00:45:06	00:00:55:18	
00:00:09:24 00:00:23:22	00:00:45:07	00:00:55:19	
00:00:09:25 00:00:23:23	00:00:45:08	00:00:55:20	
00:00:09:26 00:00:23:24	00:00:45:09	00:00:55:21	
00:00:09:27 00:00:23:25	00:00:45:10	00:00:55:22	
00:00:09:28 00:00:23:26	00:00:45:11	00:00:55:23	
00:00:09:29 00:00:23:27	00:00:45:12	00:00:55:24	
00:00:10:00 00:00:23:28	00:00:45:13	00:00:55:25	
00:00:10:01 00:00:23:29	00:00:45:14	00:00:55:26	
00:00:10:02 00:00:24:00	00:00:45:15	00:00:55:27	
00:00:10:03 00:00:24:01	00:00:45:16	00:00:55:28	
00:00:10:04 00:00:24:02	00:00:45:17	00:00:55:29	
00:00:10:05 00:00:24:03	00:00:45:18	00:00:56:00	
00:00:10:06 00:00:24:04	00:00:45:19	00:00:56:01	
00:00:10:07 00:00:24:05	00:00:45:20	00:00:56:02	
00:00:10:08 00:00:24:06	00:00:45:21	00:00:56:03	
00:00:10:09 00:00:24:07	00:00:45:22	00:00:56:04	
00:00:10:10 00:00:24:08	00:00:45:23	00:00:56:05	
00:00:10:11 00:00:24:09	00:00:45:24	00:00:56:06	
	TOTAL		
00:00:10:12 00:00:24:10	FRAMES	00:00:56:07	
00:00:10:13 00:00:24:11	312	00:00:56:08	
00:00:10:14 00:00:24:12	0.03333333	00:00:56:09	
00:00:10:15 00:00:24:13	TIME	00:00:56:10	
00:00:10:16 00:00:24:14	10.399999	00:00:56:11	
00:00:10:17 00:00:24:15	10.40	00:00:56:12	
00:00:10:18 00:00:24:16		00:00:56:13	
00:00:10:19 00:00:24:17		00:00:56:14	
00:00:10:20 00:00:24:18		00:00:56:15	
00:00:10:21 00:00:24:19		00:00:56:16	

BCI Case # 2022-0001 *Canton PD OIS 1/1/2022*

OOCIC 22-00003 Video Presentation

	515 1/ 1/ 2022		···· / ··· / ···	
00:00:10:22	00:00:24:20	00:00:56:17		
00:00:10:23	00:00:24:21	00:00:56:18		
00:00:10:24	00:00:24:22	00:00:56:19		
00:00:10:25	00:00:24:23	00:00:56:20		
00:00:10:26	00:00:24:24	00:00:56:21		
00:00:10:27	00:00:24:25	00:00:56:22		
00:00:10:28	00:00:24:26	00:00:56:23		
00:00:10:29	00:00:24:27	00:00:56:24		
00:00:11:00		00:00:56:25		
00:00:11:01		00:00:56:26		
00:00:11:02		00:00:56:27		
00:00:11:03		00:00:56:28		
00:00:11:04		00:00:56:29		
00:00:11:05		00:00:57:00		
00:00:11:06		00:00:57:01		
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00:00:11:26	00:00:25:24	00:00:57:21		
	00:00:25:25	00:00:57:22		
00:00:11:28		00:00:57:23		
00:00:11:29		00:00:57:24		
00:00:12:00	00:00:25:28	00:00:57:25		
00:00:12:01	00:00:25:29	00:00:57:26		
00:00:12:02	00:00:26:00	00:00:57:27		
00:00:12:03	00:00:26:01	00:00:57:28		
00:00:12:04	00:00:26:02	00:00:57:29		
00:00:12:05	00:00:26:03	00:00:58:00		
00:00:12:06	00:00:26:04	00:00:58:01		
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00:00:12:08	00:00:26:06	00:00:58:03		

BCI Case # 2022-0001 *Canton PD OIS 1/1/2022*

OOCIC 22-00003 Video Presentation

cunton i b	515 1/1/202	-2	Start of B	VVC 10 131 5			
00:00:12:09	00:00:26:07			00:00:58:04			
00:00:12:10	00:00:26:08			00:00:58:05			
00:00:12:11	00:00:26:09			00:00:58:06			
00:00:12:12	00:00:26:10			00:00:58:07			
00:00:12:13	00:00:26:11			00:00:58:08			
00:00:12:14	00:00:26:12			00:00:58:09			
00:00:12:15	00:00:26:13			00:00:58:10			
00:00:12:16	00:00:26:14			00:00:58:11			
00:00:12:17	00:00:26:15			00:00:58:12			
00:00:12:18	00:00:26:16			00:00:58:13			
00:00:12:19	00:00:26:17			00:00:58:14			
00:00:12:20	00:00:26:18			00:00:58:15			
				TOTAL			
00:00:12:21	00:00:26:19			FRAMES			
00:00:12:22	00:00:26:20			381			
00:00:12:23	00:00:26:21			0.03333333			
00:00:12:24	00:00:26:22			TIME			
00:00:12:25				12.6999987			
00:00:12:26	00:00:26:24			12.70			
00:00:12:27	00:00:26:25						
00:00:12:28	00:00:26:26						
00:00:12:29	00:00:26:27						
00:00:13:00	00:00:26:28						
00:00:13:01							
00:00:13:02	TOTAL FRAMES						
00:00:13:03	392						
00:00:13:04	0.03333333						
00:00:13:05	TIME						
00:00:13:06	13.0666654						
00:00:13:07	13.07						
00:00:13:08							
00:00:13:09							
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00:00:13:25							
00:00:13:26							
00:00:13:27							
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418							
0.03333333							
TIME							
13.9333319							
13.93							
				ALL	FRAMES TO	TAL	
					1864		
					0.03333333	3	
			TOTAL T	ME FROM	START OF B	WC TO 1ST	SHOT BY
					SUBJECT		
				e	52.1333271	2	
	 			6	2.13 second	ds	

Canton PD OIS 1/1/2022

OOCIC 22-00003 Video Presentation

FRAME #	FRAME #	FRAME #								
F2013	F2122 TIMECODE	F2162 TIMECODE								
		1		let chet by	ubiost obc		NC video oc	officer rou	ndad carpa	-
00:01:02:03	00:01:05:22	00:01:07:02 TOTAL	-	LST SHOT DY S	Subject ODS	erved on BV	we video as	oncer rou	nded corne	I
	00:01:05:23	FRAMES								
00:01:02:05	00:01:05:24	1								
00:01:02:06	00:01:05:25	0.03333333								
00:01:02:07	00:01:05:26	TIME								
00:01:02:08	00:01:05:27	0.03333333								
00:01:02:09	00:01:05:28	0.03								
00:01:02:10	00:01:05:29									
00:01:02:11	00:01:06:00									
00:01:02:12	00:01:06:01									
00:01:02:13	00:01:06:02									
	00:01:06:03									
00:01:02:15	00:01:06:04									
	00:01:06:05									
00:01:02:17	00:01:06:06									
	00:01:06:07									
00:01:02:19	00:01:06:08									
00:01:02:20	00:01:06:09									
00:01:02:21	00:01:06:10									
00:01:02:22	00:01:06:11									
00:01:02:23	00:01:06:12									
00:01:02:24	00:01:06:13									
00:01:02:25	00:01:06:14									
00:01:02:26	00:01:06:15									
	00:01:06:16									
00:01:02:28	00:01:06:17									
00:01:02:29	00:01:06:18									
00:01:03:00	00:01:06:19									
00:01:03:01	00:01:06:20									
00:01:03:02	00:01:06:21									
00:01:03:03	00:01:06:22									
00:01:03:04	00:01:06:23									
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00:01:03:06	00:01:06:25									
00:01:03:07	00:01:06:26									
00:01:03:08	00:01:06:27									
00:01:03:09	00:01:06:28									
00:01:03:10	00:01:06:29									
00:01:03:11	00:01:07:00									
00:01:03:12	00:01:07:01									
	TOTAL									
00:01:03:13	FRAMES									
00:01:03:14	40									

OOCIC 22-00003 Video Presentation 1st Shot Fired (Heard) by Subject to 1st Shot Observed on BWC

	515 1/ 1/ 202		- (/ -			
00:01:03:15	0.03333333					
00:01:03:16	TIME					
00:01:03:17	1.3333332					
00:01:03:18	1.33					
00:01:03:19						
00:01:03:20						
00:01:03:21						
00:01:03:22						
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00:01:04:17						
00:01:04:18						
00:01:04:19						
00:01:04:20						
00:01:04:21						
00:01:04:22						
00:01:04:23						
00:01:04:24						
00:01:04:25						
00:01:04:26						
00:01:04:27						
00:01:04:28						
00:01:04:29						
00:01:05:00						
00:01:05:01		 				

00:01:05:02 00:01:05:03 00:01:05:04 00:01:05:05 00:01:05:06 00:01:05:07 00:01:05:08 00:01:05:09 00:01:05:10 00:01:05:11 00:01:05:12 00:01:05:13 00:01:05:14 00:01:05:15 00:01:05:16 00:01:05:17 00:01:05:18 00:01:05:19 00:01:05:20 00:01:05:21 TOTAL FRAMES 109 0.03333333 TIME 3.63333297 3.63 ALL FRAMES TOTAL 150 0.03333333 TOTAL TIME FROM 1ST SHOT FIRED BY SUBJECT (HEARD) TO 1ST SHOT OBSERVED ON BWC VIDEO AS OFFICER ROUNDED CORNER OF RESIDENCE 4.9999995 5.00 seconds

Canton PD OIS 1/1/2022

OOCIC 22-00003 Video Presentation

1st Shot Fired (heard) by Subject to 1st Shot Fired by Officer

FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	
F2013	F2122	F2162	F2169	F2176	F2183	F2188	F2195	F2202	F2218	F2231	F2238	F2247	F2255	F2263	F2269	
TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	
00:01:02:03	00:01:05:22	00:01:07:02	00:01:07:09	00:01:07:16	00:01:07:23	00:01:07:28	00:01:08:05	00:01:08:12	00:01:08:28	00:01:09:11	00:01:09:18	00:01:09:27	00:01:10:05	00:01:10:13	00:01:10:19	
00:01:02:04	00:01:05:23	00:01:07:03	00:01:07:10	00:01:07:17	00:01:07:24	00:01:07:29	00:01:08:06	00:01:08:13	00:01:08:29	00:01:09:12	00:01:09:19	00:01:09:28	00:01:10:06	00:01:10:14	TOTAL FRAMES	
00:01:02:05	00:01:05:24	00:01:07:04	00:01:07:11	00:01:07:18	00:01:07:25	00:01:08:00	00:01:08:07	00:01:08:14	00:01:09:00	00:01:09:13	00:01:09:20	00:01:09:29	00:01:10:07	00:01:10:15	1	
00:01:02:06	00:01:05:25	00:01:07:05	00:01:07:12	00:01:07:19	00:01:07:26	00:01:08:01	00:01:08:08	00:01:08:15	00:01:09:01	00:01:09:14	00:01:09:21	00:01:10:00	00:01:10:08	00:01:10:16	0.03333333	
00:01:02:07	00:01:05:26	00:01:07:06	00:01:07:13	00:01:07:20	00:01:07:27	00:01:08:02	00:01:08:09	00:01:08:16	00:01:09:02	00:01:09:15	00:01:09:22	00:01:10:01	00:01:10:09	00:01:10:17	TIME	
00:01:02:08	00:01:05:27	00:01:07:07	00:01:07:14	00:01:07:21	TOTAL FRAMES	00:01:08:03	00:01:08:10	00:01:08:17	00:01:09:03	00:01:09:16	00:01:09:23	00:01:10:02	00:01:10:10		0.03	
00.01.02.00	00.01.05.20	00.01.07.00	00.01.07.15	00.01.07.22	F	00.01.08.04	00.01.00.11	00.01.00.10	00.01.00.04	00.01.00.17	00.01.00.24	00.01.10.02	00.01.10.11	TOTAL FRAMES	0.02	
00:01:02:09	00:01:05:28	00:01:07:08 TOTAL	TOTAL	TOTAL	5	TOTAL	TOTAL	00:01:08:18	00:01:09:04	TOTAL	00:01:09:24	00:01:10:03	00:01:10:11	FRAIVIES	0.03	
00:01:02:10	00:01:05:29	FRAMES	FRAMES	FRAMES	0.03333333	FRAMES	FRAMES	00:01:08:19	00:01:09:05	FRAMES	00:01:09:25	00:01:10:04	00:01:10:12	6		
00:01:02:11	00:01:06:00	7	7	7	TIME	7	7	00:01:08:20	00:01:09:06	7	00:01:09:26	TOTAL FRAMES	TOTAL FRAMES	0.03333333		
00:01:02:12	00:01:06:01	0.03333333	0.03333333	0.03333333	0.16666665	0.03333333	0.03333333	00:01:08:21	00:01:09:07	0.03333333	TOTAL FRAMES	8	8	TIME		
00:01:02:13	00:01:06:02	TIME	TIME	TIME	0.17	TIME	TIME	00:01:08:22	00:01:09:08	TIME	9	0.03333333	0.03333333	0.19999998		
00:01:02:14	00:01:06:03	0.23333331	0.23333331	0.23333331		0.23333331	0.23333331	00:01:08:23	00:01:09:09	0.23333331	0.03333333	TIME	TIME	0.20		
00:01:02:15	00:01:06:04	0.23	0.23	0.23		0.23	0.23	00:01:08:24	00:01:09:10	0.23	TIME	0.26666664	0.26666664			
00:01:02:16	00:01:06:05							00:01:08:25	TOTAL FRAMES		0.29999997	0.27	0.27			
00:01:02:17	00:01:06:06							00:01:08:26	13		0.30					
00:01:02:18	00:01:06:07								0.03333333							
00:01:02:19	00:01:06:08							TOTAL FRAMES	TIME							
00:01:02:20	00:01:06:09							16	0.43333329							
00:01:02:21	00:01:06:10							0.03333333	0.43							
00:01:02:22	00:01:06:11							TIME								
00:01:02:23	00:01:06:12							0.53333328								
00:01:02:24	00:01:06:13							0.53								
00:01:02:25	00:01:06:14															
00:01:02:26	00:01:06:15															
00:01:02:27	00:01:06:16															
00:01:02:28	00:01:06:17															

BCI Case	#	2022-0001	
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Canton PD OIS 1/1/2022

OOCIC 22-00003 Video Presentation 1st Shot Fired (heard) by Subject to 1st Shot Fired by Officer

00:01:02:29 00:01:06:18						
00:01:03:00 00:01:06:19						
00:01:03:01 00:01:06:20						
00:01:03:02 00:01:06:21						
00:01:03:03 00:01:06:22						
00:01:03:04 00:01:06:23						
00:01:03:05 00:01:06:24						
00:01:03:06 00:01:06:25						
00:01:03:07 00:01:06:26						
00:01:03:08 00:01:06:27						
00:01:03:09 00:01:06:28						
00:01:03:10 00:01:06:29						
00:01:03:11 00:01:07:00						
00:01:03:12 00:01:07:01						
TOTAL						
00:01:03:13 FRAMES						
00:01:03:14 40						
00:01:03:15 0.03333333						
00:01:03:16 TIME						
00:01:03:17 1.3333332						
00:01:03:18 1.33						
00:01:03:19						
00:01:03:20						
00:01:03:21						
00:01:03:22						
00:01:03:23						
00:01:03:24						
00:01:03:25						
00:01:03:26						
00:01:03:27						
00:01:03:28						
00:01:03:29						
00:01:04:00						
00:01:04:01						
			L			

Canton PD OIS 1/1/2022

OOCIC 22-00003 Video Presentation 1st Shot Fired (heard) by Subject to 1st Shot Fired by Officer

00:01:04:02				
00:01:04:03				
00:01:04:04				
00:01:04:05				
00:01:04:06				
00:01:04:07				
00:01:04:08				
00:01:04:09				
00:01:04:10				
00:01:04:11				
00:01:04:12				
00:01:04:13				
00:01:04:14				
00:01:04:15				
00:01:04:16				
00:01:04:17				
00:01:04:18				
00:01:04:19				
00:01:04:20				
00:01:04:21				
00:01:04:22				
00:01:04:23				
00:01:04:24				
00:01:04:25				
00:01:04:26				
00:01:04:27				
00:01:04:28				
00:01:04:29				
00:01:05:00				
00:01:05:01				
00:01:05:02				
00:01:05:03				
00:01:05:04				
00:01:05:05				

Canton PD OIS 1/1/2022

OOCIC 22-00003 Video Presentation 1st Shot Fired (heard) by Subject to 1st Shot Fired by Officer

00:01:05:06							
00:01:05:07							
00:01:05:08							
00:01:05:09							
00:01:05:10							
00:01:05:11							
00:01:05:12							L
00:01:05:13							L
00:01:05:14							
00:01:05:15							
00:01:05:16							
00:01:05:17							
00:01:05:18							
00:01:05:19							
00:01:05:20							
00:01:05:21							ļ
TOTAL FRAMES							
109							
0.03333333							
ТІМЕ							
3.63333297							
3.63							
				ALL F	RAMES TO	ΓAL	
					257		
			0.0333333				
			TOTAL TIME FROM 1ST SHOT FIRED BY SUBJECT				
			(HEARD) TO 1ST SHOT FIRED BY OFFICER				
			8.56666581				
				8.	57 seconds	;	

Canton PD OIS 1/1/2022

OOCIC 22-00003 Video Presentation

1st Subject Shot Observed by BWC to 1st Shot by Officer

FRAME #		FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #		FRAME #				
FRAIVIE #	FRAME # F2169	F2176	F2183	F2188	F2195	F2202	F2218	F2231	F2238	F2247	F2255	FRAME #	F2269				
_		-				-	-	_									
TIMECODE			TIMECODE			TIMECODE											
00:01:07:02	00:01:07:09	00:01:07:16	00:01:07:23	00:01:07:28	00:01:08:05	00:01:08:12	00:01:08:28	00:01:09:11	00:01:09:18	00:01:09:27	00:01:10:05	00:01:10:13					
00.01.02.03	00.01.07.10	00.01.07.17	00:01:07:24	00.01.02.20	00.01.08.06	00.01.08.13	00.01.08.20	00.01.00.12	00.01.00.10	00.01.00.28	00.01.10.06	00.01.10.14	TOTAL FRAMES				
			00:01:07:25										1				
			00:01:07:26										_				
00:01:07:06	00:01:07:13	00:01:07:20	00:01:07:27 TOTAL	00:01:08:02	00:01:08:09	00:01:08:16	00:01:09:02	00:01:09:15	00:01:09:22	00:01:10:01	00:01:10:09	00:01:10:17	TIME				
00.01.02.02	00:01:07:14	00.01.02.51		00.01.08.03	00.01.08.10	00:01:08:17	00.01.00.03	00.01.00.16	00.01.00.23	00.01.10.05	00.01.10.10	00.01.10.18	0.03				
	00102107121	00101107122		00102100100	00101100110	00101100117	00.02.00.00	00.01.00.120	00102100120	00101120102	00101120120	TOTAL	0.00				
00:01:07:08	00:01:07:15	00:01:07:22	5	00:01:08:04	00:01:08:11	00:01:08:18	00:01:09:04	00:01:09:17	00:01:09:24	00:01:10:03	00:01:10:11	FRAMES	0.03				
TOTAL	TOTAL	TOTAL		TOTAL	TOTAL			TOTAL									
FRAMES	FRAMES	FRAMES	0.03333333	FRAMES	FRAMES	00:01:08:19	00:01:09:05	FRAMES	00:01:09:25		00:01:10:12	6					
										TOTAL	TOTAL						
7	7	7	TIME	7	7	00:01:08:20	00:01:09:06	7	00:01:09:26	FRAMES	FRAMES	0.03333333					
0 03333333	0 03333333	0 03333333	0.16666665	0 03333333	0 03333333	00.01.08.21	00.01.00.07	0 03333333	TOTAL FRAMES	8	8	TIME					
TIME	TIME	TIME	0.10000003	TIME	TIME	00:01:08:22		TIME	9	-	0.03333333						
	0.233333331		0.17			00:01:08:23			-	TIME	TIME	0.1000000					
0.23535353	0.23333333	0.23333331		0.23333331	0.23333333	00:01:08:24		0.23333331	TIME		0.266666664	0.20					
0.23	0.25	0.25		0.23	0.23	00.01.08.24	TOTAL	0.25	TIVIL	0.20000004	0.20000004						
						00:01:08:25	FRAMES		0.29999997	0.27	0.27						
						00:01:08:26	13		0.30								
						00:01:08:27	0.033333333										
						TOTAL	0.00000000										
						FRAMES	TIME										
						16	0.43333329							ALL	FRAMES TO	TAL	
						0.03333333	0.43							108			
						TIME								0.03333333			
														TOTAL TIME FROM WHEN 1ST SHOT FIRED BY SUBJ			Y SUBJECT
						0.53333328								OBSERVED ON BWC TO 1ST SHOT BY OFFI			
						0.53									3.59999964	Ļ	
															3.60 second	s	
			-	1										5.00 Seconds			

Canton PD OIS 1/1/2022

OOCIC 22-00003 Video Presentation

All Officer Shots and 1 Subject Shot Fired

FRAME #													
F2269	F2270	F2279	F2288	F2297	F2306	F2315	F2323	F2332					
TIMECODE													
00:01:10:19	00:01:10:20	00:01:10:29	00:01:11:08	00:01:11:17	00:01:11:26	00:01:12:05	00:01:12:13	00:01:12:22					
TOTAL								TOTAL					
FRAMES	00:01:10:21	00:01:11:00	00:01:11:09	00:01:11:18	00:01:11:27	00:01:12:06	00:01:12:14	FRAMES					
1	00:01:10:22	00:01:11:01	00:01:11:10	00:01:11:19	00:01:11:28	00:01:12:07	00:01:12:15	1					
0.03333333	00:01:10:23	00:01:11:02	00:01:11:11	00:01:11:20	00:01:11:29	00:01:12:08	00:01:12:16	0.03333333					
TIME	00:01:10:24	00:01:11:03	00:01:11:12	00:01:11:21	00:01:12:00	00:01:12:09	00:01:12:17	TIME					
0.03	00:01:10:25	00:01:11:04	00:01:11:13	00:01:11:22	00:01:12:01	00:01:12:10	00:01:12:18	0.03333333					
0.03	00:01:10:26	00:01:11:05	00:01:11:14	00:01:11:23	00:01:12:02	00:01:12:11	00:01:12:19	0.03					
	00:01:10:27	00:01:11:06	00:01:11:15	00:01:11:24	00:01:12:03	00:01:12:12	00:01:12:20						
						TOTAL							
			00:01:11:16			FRAMES	00:01:12:21						
	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL		TOTAL						
	FRAMES	FRAMES	FRAMES	FRAMES	FRAMES	8	FRAMES						
	9	9	9	9	9	0.03333333	9						
	0.03333333	0.03333333	0.03333333	0.03333333	0.03333333	TIME	0.03333333						
	TIME	TIME	TIME	TIME	TIME	0.26666664	TIME						
	0.29999997	0.29999997	0.29999997	0.29999997	0.29999997	0.27	0.29999997						
	0.30	0.30	0.30	0.30	0.30		0.30						
										ALL	FRAMES TOTAL		
									64				
									0.03333333				
									TOTAL TIME FOR 8 SHOTS FIRED BY OFFICER AND 1				
									(F2270) SHOT FIRED BY SUBJECT				
									2.13333312				
									 2.13 seconds				

Canton PD OIS 1/1/2022

OOCIC 22-00003 Video Presentation

8-9 Shots by Subject and 8 Shots by Officer

FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	FRAME #	
F2218	F2231	F2238	F2247	F2255	F2263	F2269	F2270	F2279	F2288	F2297	F2306	F2315	F2323	F2332	
TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	TIMECODE	
00:01:08:28	00:01:09:11	00:01:09:18	00:01:09:27	00:01:10:05	00:01:10:13	00:01:10:19	00:01:10:20	00:01:10:29	00:01:11:08	00:01:11:17	00:01:11:26	00:01:12:05	00:01:12:13	00:01:12:22	
														TOTAL	
00:01:08:29	00:01:09:12	00:01:09:19	00:01:09:28	00:01:10:06	00:01:10:14	TOTAL FRAMES	00:01:10:21	00:01:11:00	00:01:11:09	00:01:11:18	00:01:11:27	00:01:12:06	00:01:12:14	FRAMES	
00:01:09:00	00:01:09:13	00:01:09:20	00:01:09:29	00:01:10:07	00:01:10:15	1	00:01:10:22	00:01:11:01	00:01:11:10	00:01:11:19	00:01:11:28	00:01:12:07	00:01:12:15	1	
00:01:09:01	00:01:09:14	00:01:09:21	00:01:10:00	00:01:10:08	00:01:10:16	0.03333333	00:01:10:23	00:01:11:02	00:01:11:11	00:01:11:20	00:01:11:29	00:01:12:08	00:01:12:16	0.03333333	
00:01:09:02	00:01:09:15	00:01:09:22	00:01:10:01	00:01:10:09	00:01:10:17	TIME	00:01:10:24	00:01:11:03	00:01:11:12	00:01:11:21	00:01:12:00	00:01:12:09	00:01:12:17	TIME	
00:01:09:03	00:01:09:16	00:01:09:23	00:01:10:02	00:01:10:10	00:01:10:18	0.03	00:01:10:25	00:01:11:04	00:01:11:13	00:01:11:22	00:01:12:01	00:01:12:10	00:01:12:18	0.03333333	
00:01:09:04	00:01:09:17	00:01:09:24	00:01:10:03	00:01:10:11	TOTAL FRAMES	0.03	00:01:10:26	00:01:11:05	00:01:11:14	00:01:11:23	00:01:12:02	00:01:12:11	00:01:12:19	0.03	
00:01:09:05	TOTAL FRAMES	00:01:09:25	00:01:10:04	00:01:10:12	6		00:01:10:27	00:01:11:06	00:01:11:15	00:01:11:24	00:01:12:03	00:01:12:12 TOTAL	00:01:12:20		
00:01:09:06	7	00:01:09:26	TOTAL FRAMES	TOTAL FRAMES	0.03333333				00:01:11:16		00:01:12:04	FRAMES	00:01:12:21		
00:01:09:07	0.03333333	TOTAL FRAMES	8	8	TIME		TOTAL FRAMES	TOTAL FRAMES	TOTAL FRAMES	TOTAL FRAMES	TOTAL FRAMES	8	TOTAL FRAMES		
00:01:09:08	TIME	9	0.03333333	0.03333333	0.19999998		9	9	9	9	9	0.03333333	9		
00:01:09:09	0.23333331	0.03333333	TIME	TIME	0.20		0.03333333	0.03333333	0.03333333	0.03333333	0.03333333	TIME	0.03333333		
00:01:09:10	0.23	TIME	0.26666664	0.26666664			TIME	TIME	TIME	TIME	TIME	0.26666664	TIME		
TOTAL FRAMES		0.29999997	0.27	0.27			0.29999997	0.29999997	0.29999997	0.29999997	0.29999997	0.27	0.29999997		
13		0.30					0.30	0.30	0.30	0.30	0.30		0.30		
0.03333333															
TIME															
0.43333329															115
						Ļ	↓	↓ ·			↓	Ļ	Ļ	↓	0.03333333
	Subject gunshot,							Officer 2nd							
Subject gunshot,						Subject gunshot,		gunshot							
approx. 1.73 seconds prior to	seconds prior to officer 1st	approx. 1.07 seconds prior to	approx. 0.77 seconds prior to	approx. 0.50 seconds prior to	approx. 0.23 seconds prior to	approx. 0.03 seconds prior to	Officer 1st	(subject possibly	Officer 3rd	Officer 4th	Officer 5th	Officer 6th	Officer 7th	Officer 8th	
officer 1st	gunshot (subject	officer 1st	officer 1st	officer 1st	officer 1st	officer 1st	gunshot	fired	gunshot	gunshot	gunshot	gunshot	gunshot	gunshot	
gunshot	possibly fired shot near F2225)	gunshot	gunshot	gunshot	gunshot	gunshot		gunshot at F2278)							3.83333295



00:00:00:00 **29.97fps**



00:00:13:28 **29.97fps**



01/01/2022 00:06:51 BWC2-041234



00:00:27:00 **29.97fps**


00:00:30:17 **29.97fps**



00:00:35:13 **29.97fps**



00:00:45:25 **29.97fps**



00:00:58:16 **29.97fps**



MWM Mummumm

00:01:02:03 **29.97fps**

-NYNNAAMUMMANAAMUMAMANAAMUMAAMAAMAAMAAMAA



00:01:05:22 **29.97fps**

งปฏ[ุ]สป_{ุล}สนุกษณฑรป_{ุล}สนุกษณฑฐมนตรีการสุดสุดสาวทางปลุกครามสาวทางปลุ่งในสาวทางปลาสาวทางปลากกรรมสาวทางปลากกรรมระบบ



01/01/2022 00:07:31 BWC2-041234



00:01:07:02 **29.97fps**



01/01/2022 00:07:31 BWC2-041234



00:01:07:09 **29.97fps**

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01/01/2022 00:07:32 BWC2-041234



00:01:07:16 **29.97fps**

01/01/2022 00:07:32 BWC2-041234



00:01:07:23 **29.97fps**



BWC2-041234 01/01/2022 00:07:32



00:01:07:28 29.97fps



00:01:08:05 **29.97fps**

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Disclaimer: The video files used to create this timeline do not allow for exact synchronization. This video should not be used to calculate precise timing.

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