

**CHICAGO - DELIVERING ZERO EMISSIONS COMMUNITIES (DZEC)  
TRUCK COUNTING PROJECT**

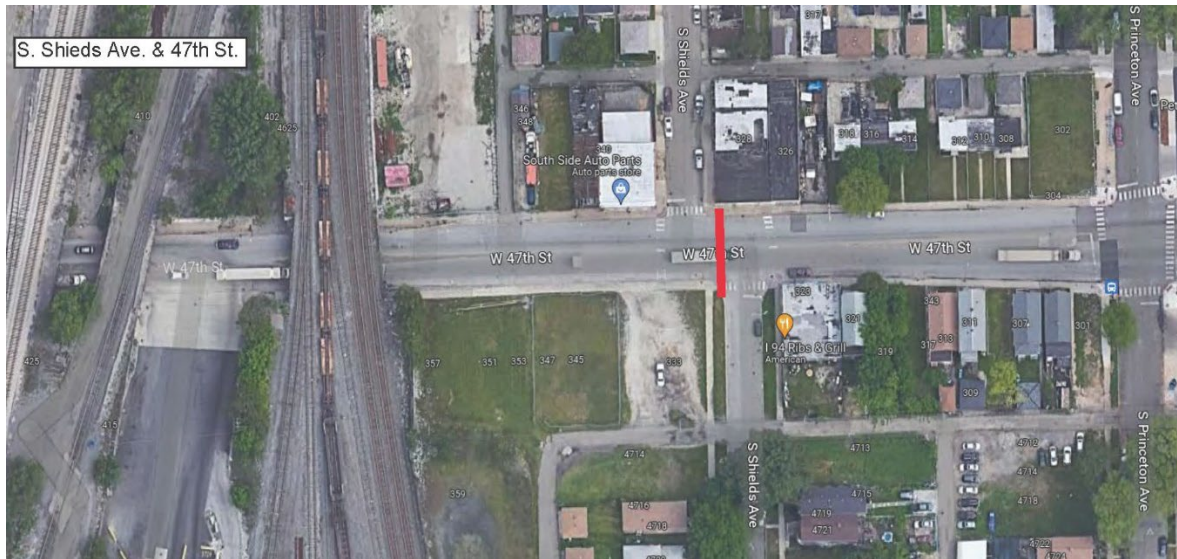


COUNT LOCATION: S. Shields Avenue & W. 47<sup>th</sup> Street  
Fuller Park

COUNT DATE: 05-16-2023

COUNT TYPE: 24-Hour Average Daily Traffic/Automatic Traffic Recorder

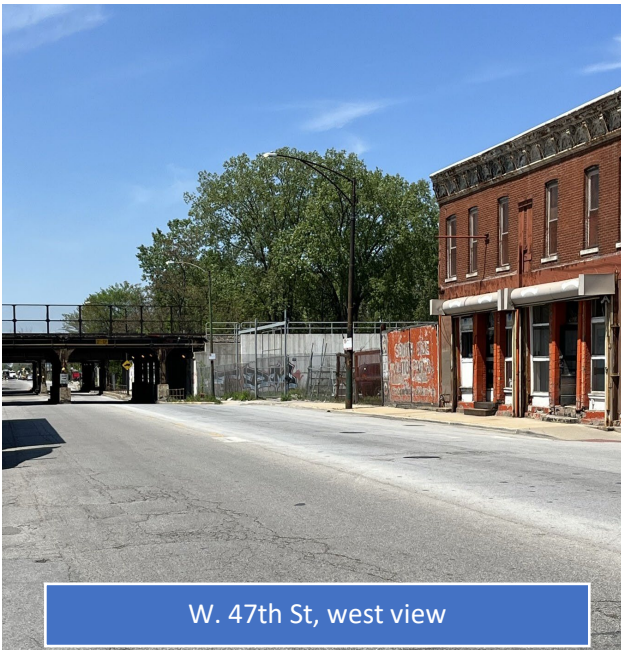
**PROJECT LOCATION MAP**



**COUNT TYPE: 24-Hour Average Daily Traffic**

Average Daily Traffic Counts (ADT), also referred to by Miovision as ATRs – Automatic Traffic Recorder (ATR) counts are used to capture the volume of vehicles that travel on a roadway over a given period of time. ADTs count all vehicles that travel through a specific point of a road over a short duration time period and are representative only of the time period and type of traffic volumes included. ADT is a standard measure of traffic volume used for traffic monitoring and forecasting.

**SITE PHOTOS**



W. 47th St, west view



W. 47th St. & S. Shields Ave



W. 47th St. & S. Shields Ave, south view



Miovision Camera deployment

## SUMMARY DATA REPORTS

Truck traffic data was collected utilizing Miovision Scout video data collection (cameras). Video data was collected for a 24-hour period on a typical, non-holiday weekday. Miovision DataLink was used to generate reports and data visualizations to analyze traffic and truck count data. In addition, FTG generated truck-specific data reports. Summary data reports from both Miovision Datalink and FTG are described and presented below.

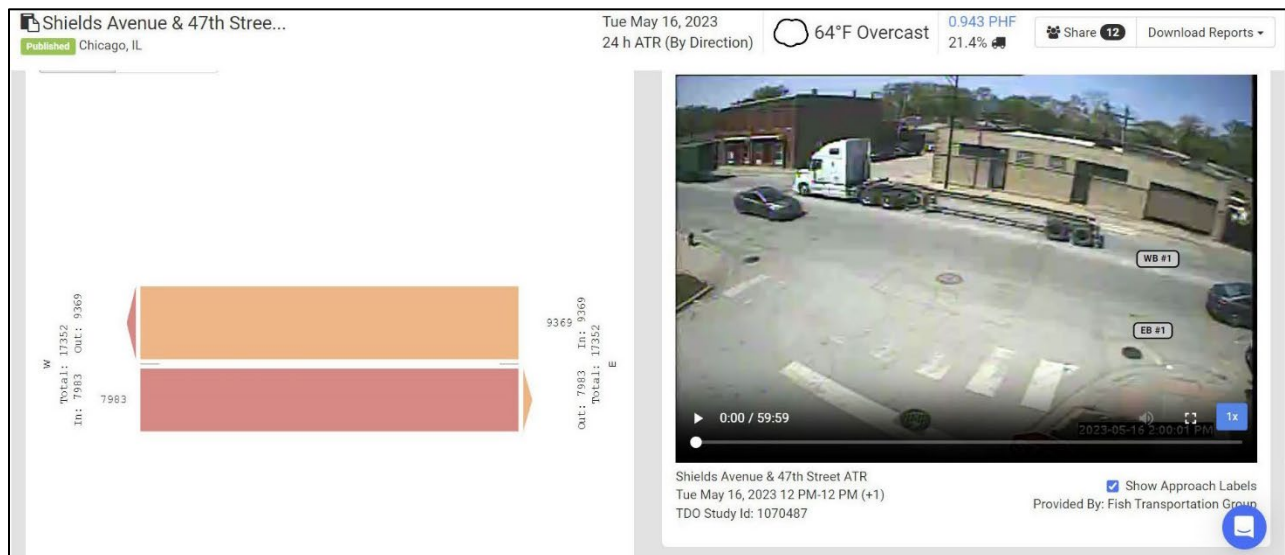
### Miovision Datalink Reports

The following information is provided as generated from the Miovision Datalink portal:

1. Detailed PDF report presenting raw traffic volumes summarized by:
  - Time increments (i.e., 15-minute, 60-minute)
  - Length of count (i.e., Peak hour counts, 12-hour counts, 24-hour counts)
  - Data tables presented as: full count length summary, AM peak period, midday, PM peak period
2. Intersection data plot (movement visualization) showing Intersection diagram (vehicles entering and exiting the intersection)

Example from Miovision Datalink Portal

S. Shields Ave. & W. 47<sup>th</sup> St.



### **FTG Summary Reports**

Truck volume summary reports were generated by FTG. The following reports were prepared for each count location:

- Hourly truck volumes, tabulated by
  - Hour
  - Direction
  - Truck classification

Both Miovision and FTG reports are attached below.



**Shields Avenue & 47th Street ATR - ATR**

Tue May 16, 2023

Full Length (12 PM-12 PM (+1))

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Channels

ID: 1070487, Location: 41.809079, -87.634532

Provided by: Fish Transportation Group Inc.

1950 N Washington Street, Suite 211,

Naperville, IL, 60563, US

Leg Direction	East Westbound		West Eastbound		Int
	T	App	T	App	
Time					
2023-05-16 12:00PM	507	<b>507</b>	451	<b>451</b>	<b>958</b>
1:00PM	507	<b>507</b>	525	<b>525</b>	<b>1032</b>
2:00PM	550	<b>550</b>	467	<b>467</b>	<b>1017</b>
3:00PM	582	<b>582</b>	501	<b>501</b>	<b>1083</b>
4:00PM	752	<b>752</b>	462	<b>462</b>	<b>1214</b>
5:00PM	670	<b>670</b>	367	<b>367</b>	<b>1037</b>
6:00PM	548	<b>548</b>	405	<b>405</b>	<b>953</b>
7:00PM	438	<b>438</b>	341	<b>341</b>	<b>779</b>
8:00PM	345	<b>345</b>	292	<b>292</b>	<b>637</b>
9:00PM	283	<b>283</b>	243	<b>243</b>	<b>526</b>
10:00PM	290	<b>290</b>	222	<b>222</b>	<b>512</b>
11:00PM	215	<b>215</b>	142	<b>142</b>	<b>357</b>
2023-05-17 12:00AM	153	<b>153</b>	103	<b>103</b>	<b>256</b>
1:00AM	87	<b>87</b>	97	<b>97</b>	<b>184</b>
2:00AM	106	<b>106</b>	67	<b>67</b>	<b>173</b>
3:00AM	108	<b>108</b>	100	<b>100</b>	<b>208</b>
4:00AM	170	<b>170</b>	148	<b>148</b>	<b>318</b>
5:00AM	357	<b>357</b>	314	<b>314</b>	<b>671</b>
6:00AM	354	<b>354</b>	479	<b>479</b>	<b>833</b>
7:00AM	428	<b>428</b>	498	<b>498</b>	<b>926</b>
8:00AM	445	<b>445</b>	455	<b>455</b>	<b>900</b>
9:00AM	456	<b>456</b>	407	<b>407</b>	<b>863</b>
10:00AM	502	<b>502</b>	439	<b>439</b>	<b>941</b>
11:00AM	516	<b>516</b>	458	<b>458</b>	<b>974</b>
<b>Total</b>	9369	<b>9369</b>	7983	<b>7983</b>	<b>17352</b>
<b>% Approach</b>	100%	-	100%	-	-
<b>% Total</b>	54.0%	<b>54.0%</b>	46.0%	<b>46.0%</b>	-
<b>Lights</b>	7167	<b>7167</b>	6473	<b>6473</b>	13640
<b>% Lights</b>	76.5%	<b>76.5%</b>	81.1%	<b>81.1%</b>	78.6%
<b>Articulated Trucks</b>	1384	<b>1384</b>	775	<b>775</b>	2159
<b>% Articulated Trucks</b>	14.8%	<b>14.8%</b>	9.7%	<b>9.7%</b>	12.4%
<b>Buses and Single-Unit Trucks</b>	818	<b>818</b>	735	<b>735</b>	1553
<b>% Buses and Single-Unit Trucks</b>	8.7%	<b>8.7%</b>	9.2%	<b>9.2%</b>	8.9%

\*T: Thru

**Shields Avenue & 47th Street ATR - ATR**

Tue May 16, 2023

Full Length (12 PM-12 PM (+1))

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Channels

ID: 1070487, Location: 41.809079, -87.634532

Provided by: Fish Transportation Group Inc.

1950 N Washington Street, Suite 211,

Naperville, IL, 60563, US



**Shields Avenue & 47th Street ATR - ATR**

Tue May 16, 2023

Midday Peak (May 16 2023 1PM - 2 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Channels

ID: 1070487, Location: 41.809079, -87.634532

Provided by: Fish Transportation Group Inc.

1950 N Washington Street, Suite 211,

Naperville, IL, 60563, US

Leg Direction	East Westbound		West Eastbound		Int
	T	App	T	App	
Time					
2023-05-16 1:00PM	119	<b>119</b>	109	<b>109</b>	<b>228</b>
1:15PM	139	<b>139</b>	163	<b>163</b>	<b>302</b>
1:30PM	120	<b>120</b>	133	<b>133</b>	<b>253</b>
1:45PM	129	<b>129</b>	120	<b>120</b>	<b>249</b>
<b>Total</b>	507	<b>507</b>	525	<b>525</b>	<b>1032</b>
<b>% Approach</b>	100%	-	100%	-	-
<b>% Total</b>	49.1%	<b>49.1%</b>	50.9%	<b>50.9%</b>	-
<b>PHF</b>	0.912	<b>0.912</b>	0.805	<b>0.805</b>	0.854
<b>Lights</b>	361	<b>361</b>	434	<b>434</b>	795
<b>% Lights</b>	71.2%	<b>71.2%</b>	82.7%	<b>82.7%</b>	77.0%
<b>Articulated Trucks</b>	95	<b>95</b>	57	<b>57</b>	152
<b>% Articulated Trucks</b>	18.7%	<b>18.7%</b>	10.9%	<b>10.9%</b>	14.7%
<b>Buses and Single-Unit Trucks</b>	51	<b>51</b>	34	<b>34</b>	85
<b>% Buses and Single-Unit Trucks</b>	10.1%	<b>10.1%</b>	6.5%	<b>6.5%</b>	8.2%

\*T: Thru

**Shields Avenue & 47th Street ATR - ATR**

Tue May 16, 2023

Midday Peak (May 16 2023 1PM - 2 PM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Channels

ID: 1070487, Location: 41.809079, -87.634532

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**Shields Avenue & 47th Street ATR - ATR**

Tue May 16, 2023

PM Peak (May 16 2023 4PM - 5 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Channels

ID: 1070487, Location: 41.809079, -87.634532

Provided by: Fish Transportation Group Inc.

1950 N Washington Street, Suite 211,

Naperville, IL, 60563, US

Leg Direction	East Westbound		West Eastbound		Int
	T	App	T	App	
Time					
2023-05-16 4:00PM	185	<b>185</b>	133	<b>133</b>	<b>318</b>
4:15PM	218	<b>218</b>	104	<b>104</b>	<b>322</b>
4:30PM	187	<b>187</b>	105	<b>105</b>	<b>292</b>
4:45PM	162	<b>162</b>	120	<b>120</b>	<b>282</b>
<b>Total</b>	752	<b>752</b>	462	<b>462</b>	<b>1214</b>
<b>% Approach</b>	100%	-	100%	-	-
<b>% Total</b>	61.9%	<b>61.9%</b>	38.1%	<b>38.1%</b>	-
<b>PHF</b>	0.862	<b>0.862</b>	0.868	<b>0.868</b>	0.943
<b>Lights</b>	648	<b>648</b>	402	<b>402</b>	1050
<b>% Lights</b>	86.2%	<b>86.2%</b>	87.0%	<b>87.0%</b>	86.5%
<b>Articulated Trucks</b>	71	<b>71</b>	30	<b>30</b>	101
<b>% Articulated Trucks</b>	9.4%	<b>9.4%</b>	6.5%	<b>6.5%</b>	8.3%
<b>Buses and Single-Unit Trucks</b>	33	<b>33</b>	30	<b>30</b>	63
<b>% Buses and Single-Unit Trucks</b>	4.4%	<b>4.4%</b>	6.5%	<b>6.5%</b>	5.2%

\*T: Thru

**Shields Avenue & 47th Street ATR - ATR**

Tue May 16, 2023

PM Peak (May 16 2023 4PM - 5 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Channels

ID: 1070487, Location: 41.809079, -87.634532

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**Shields Avenue & 47th Street ATR - ATR**

Wed May 17, 2023

AM Peak (May 17 2023 10AM - 11 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Channels

ID: 1070487, Location: 41.809079, -87.634532

Provided by: Fish Transportation Group Inc.

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Leg Direction	East Westbound		West Eastbound		Int
	T	App	T	App	
Time					
2023-05-17 10:00AM	125	125	101	101	226
10:15AM	114	114	118	118	232
10:30AM	131	131	99	99	230
10:45AM	132	132	121	121	253
<b>Total</b>	502	502	439	439	941
<b>% Approach</b>	100%	-	100%	-	-
<b>% Total</b>	53.3%	53.3%	46.7%	46.7%	-
<b>PHF</b>	0.951	0.951	0.907	0.907	0.930
<b>Lights</b>	318	318	326	326	644
<b>% Lights</b>	63.3%	63.3%	74.3%	74.3%	68.4%
<b>Articulated Trucks</b>	120	120	64	64	184
<b>% Articulated Trucks</b>	23.9%	23.9%	14.6%	14.6%	19.6%
<b>Buses and Single-Unit Trucks</b>	64	64	49	49	113
<b>% Buses and Single-Unit Trucks</b>	12.7%	12.7%	11.2%	11.2%	12.0%

\*T: Thru

**Shields Avenue & 47th Street ATR - ATR**

Wed May 17, 2023

AM Peak (May 17 2023 10AM - 11 AM)

All Classes (Lights, Articulated Trucks, Buses and Single-Unit Trucks)

All Channels

ID: 1070487, Location: 41.809079, -87.634532

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Fish Transportation Group Inc.  
 1950 N Washington Street  
 Suite 211  
 Naperville, Illinois, United States 60563  
 708-660-0305

Count Name: Shields  
 Avenue & 47th Street  
 ATR  
 Site Code:  
 Start Date: 05/16/2023  
 Page No: 1

**Direction (Westbound)**

Start Time	Lights	Mediums	Articulated Trucks	Total
12:00 PM	354	58	95	507
1:00 PM	361	51	95	507
2:00 PM	420	45	85	550
3:00 PM	459	48	75	582
4:00 PM	648	33	71	752
5:00 PM	597	30	43	670
6:00 PM	449	43	56	548
7:00 PM	378	26	34	438
8:00 PM	276	18	51	345
9:00 PM	241	14	28	283
10:00 PM	234	16	40	290
11:00 PM	162	30	23	215
05/17/2023 12:00 AM	106	18	29	153
1:00 AM	45	9	33	87
2:00 AM	63	6	37	106
3:00 AM	66	10	32	108
4:00 AM	120	23	27	170
5:00 AM	308	28	21	357
6:00 AM	261	53	40	354
7:00 AM	332	48	48	428
8:00 AM	294	59	92	445
9:00 AM	325	41	90	456
10:00 AM	318	64	120	502
11:00 AM	350	47	119	516
Total	7167	818	1384	9369
Total %	76.5	8.7	14.8	100.0
AM Times	7:00 AM	10:00 AM	11:00 AM	11:00 AM
AM Peaks	332	64	119	516
PM Times	4:00 PM	12:00 PM	12:00 PM	4:00 PM
PM Peaks	648	58	95	752



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 708-660-0305

Count Name: Shields  
 Avenue & 47th Street  
 ATR  
 Site Code:  
 Start Date: 05/16/2023  
 Page No: 2

**Direction (Eastbound)**

Start Time	Lights	Mediums	Articulated Trucks	Total
12:00 PM	329	58	64	451
1:00 PM	434	34	57	525
2:00 PM	400	36	31	467
3:00 PM	441	28	32	501
4:00 PM	402	30	30	462
5:00 PM	339	18	10	367
6:00 PM	384	14	7	405
7:00 PM	311	16	14	341
8:00 PM	268	14	10	292
9:00 PM	210	17	16	243
10:00 PM	196	19	7	222
11:00 PM	111	20	11	142
05/17/2023 12:00 AM	75	17	11	103
1:00 AM	63	21	13	97
2:00 AM	38	15	14	67
3:00 AM	51	13	36	100
4:00 AM	95	20	33	148
5:00 AM	247	40	27	314
6:00 AM	368	47	64	479
7:00 AM	419	45	34	498
8:00 AM	353	46	56	455
9:00 AM	293	56	58	407
10:00 AM	326	49	64	439
11:00 AM	320	62	76	458
Total	6473	735	775	7983
Total %	81.1	9.2	9.7	100.0
AM Times	7:00 AM	10:00 AM	11:00 AM	11:00 AM
AM Peaks	419	49	76	458
PM Times	4:00 PM	12:00 PM	12:00 PM	4:00 PM
PM Peaks	402	58	64	462



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708-660-0305

Count Name: Shields  
Avenue & 47th Street  
ATR  
Site Code:  
Start Date: 05/16/2023  
Page No: 3

