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## 1 Introduction

HDR has been retained by City of Vaughan to undertake a Schedule 'C' Class Environmental Assessment (EA) for the Kirby Road corridor between Jane Street and Dufferin Street. This EA study will reconfirm the need and determine the preferred design for the improvements for Kirby Road which include widening, grade separation and jog elimination along Kirby Road between Jane Street and Dufferin Street.

### 1.1 Background

The City of Vaughan's Transportation Master Plan (2012) and the York Region Transportation Master Plan (2016) identified the need for Kirby Road improvements. Following completion of those studies the North Vaughan and New Communities Transportation Master Plan (NVNCTMP, 2019) undertook additional transportation planning analysis to support the development of two new community areas in the northern part of Vaughan and the proposed Kirby GO Station. The NVNCTMP study recommended the widening of Kirby Road from Jane Street to Dufferin Street, construction of the missing link between Dufferin Street and Bathurst Street, jog elimination of the Kirby Road intersection at Jane Street, and grade separation of Kirby Road at the Barrie GO rail line. The completion of the NVNCTMP satisfies Phases 1 and 2 of the Environmental Assessment process and has established the need and justification for the Kirby Road improvements (see Section 2.3.5).

This Kirby Road Widening EA study will reconfirm the need and recommendations from the NVNCTMP for the Kirby Road corridor and complete Phases 3 and 4 of the Municipal Class EA process for Schedule ' $C$ ' projects. Specifically the Kirby Road Widening EA Study will reconfirm the need to widen Kirby Road from two to four lanes between Jane Street and Dufferin Street, the grade separation of the Barrie Go Rail line at Kirby Road and the elimination of the jog at the intersection of Kirby Road and Jane Street.

This Transportation and Traffic Assessment Report is prepared in support of the EA study. The primary and secondary transportation study areas for this study are shown in Figure 1-1.

Figure 1-1: Study Area


### 1.2 Study Purpose

The purpose of the Kirby Road Widening Class EA study is to determine specific improvements to accommodate the current and future transportation needs of pedestrians, cyclists, transit users and motorists along Kirby Road corridor from Jane Street to Dufferin Street.

### 1.3 Study Scope

This Transportation and Traffic Analysis report reconfirms the transportation and traffic needs identified in the NVNCTMP, and establishes an updated baseline for existing and future transportation conditions to the 2031 horizon year. The analysis conducted includes intersection capacity analysis along Kirby Road and at future Kirby GO Station intersections on Keele Street; estimates and examines the traffic growth and expected future traffic volumes; analyzes the traffic impacts from the introduction of the projected traffic volumes; and finally proposes infrastructure improvements to address the deficiencies and accommodate the future traffic growth for the horizon year of 2031.

## 2 Planning Context

This section provides context for the study in relation to planning policies and guidance at the provincial, regional municipal and local municipal level.

### 2.1 Provincial Planning Context

Provincial planning policies, summarized in Table 2-1, were reviewed to identify their relevance to the Kirby road EA.

## Table 2-1: Provincial Planning Policies

| Provincial Planning Document | Directions | Impact to Kirby Road EA |
| :---: | :---: | :---: |
| Provincial Policy Statement, Ontario, 2014 | Description: Provides direction on land use planning and development, and the transportation system. <br> Directions: The most relevant land use and transportation policies) include: <br> - 1.6.7.1 Safe, energy efficient, transportation systems that move people and goods and address projected needs <br> - 1.6.7.2 Use of travel demand management (TDM) strategies to maximize efficiency <br> - 1.6.7.3 A multimodal transportation system that provides connections within and among transportation systems and modes including across jurisdictional boundaries <br> - 1.6.7.4 Land use patterns that minimize length and number of vehicle trips to support transit and active transportation <br> - 1.6.7.5 Integrate transportation and land use considerations at all stages of planning <br> - 1.6.8.2 Protect for major goods movement facilities and corridors <br> - 1.6.8.3 New development should be compatible with the long-term purposes of the corridor | The Kirby road EA will consider projected needs for both people and goods, encourage travel demand management, and consider all travel modes. |


| Provincial Planning Document | Directions | Impact to Kirby Road EA |
| :---: | :---: | :---: |
| Growth Plan for the Greater Golden Horseshoe (GGH), <br> Ministry of Municipal Affairs, 2006, 2013, 2017 Update | Description: The Growth Plan for the GGH was released on June 16, 2006, and is a long-term plan that aims to: <br> - Revitalize downtowns <br> - Create complete communities <br> - Provide housing options to meet the needs of people at any age <br> - Curb urban sprawl and protect farmland and green spaces <br> - Reduce traffic gridlock by improving access to a greater range of transportation options <br> The June 2013 amendment extended the growth planning horizon to 2041 while the 2016 update identified new intensification targets. <br> Directions: The Growth Plan defines specific policies for where and how to grow, including the identification of defined urbanized areas versus a protected Greenbelt Area. The plan also identifies Urban Growth Centres across the Greater Toronto Area (GTA), Major Transit Station Areas and Intensification Corridors. <br> There has been a 2017 update to the Growth Plan. | The study area is at the northern boundary of the urbanized area. The Vaughan Metropolitan Centre, a designated Urban Growth Centre south of the study area, and the future Kirby GO station through which transit connections to the greater regional rapid transit network can be made will be considered in the study. |
| 2041 Regional <br> Transportation <br> Plan updated <br> in 2018 from <br> The Big Move, <br> Metrolinx, <br> 2008 | Description: The Big Move is the Greater Toronto and Hamilton Area's (GTHA's) multi-modal long-range regional transportation plan. Since 2008 this plan has been providing strategic direction for planning, designing and building a regional transportation network that enhances quality of life, environment, and prosperity. <br> Directions: The Big Move sets the context for Regional Express Rail (RER), a frequent all-day, two-way express rail service on existing GO Rail lines with 15 minute frequencies using future electrification infrastructure. <br> In order to support the expanded services, improvement to infrastructure is needed: <br> - Track expansion, including upgrade of existing structures within corridor such as culverts, bridges <br> - Grade separations <br> - Maintenance and storage facilities <br> - Electrification infrastructure <br> - Station Expansion (parking, building, pedestrian access, etc) <br> - New station(s) along corridor that will optimize ridership and minimize delay <br> As of 2018, the 2008 Big Move has been updated to the 2041 Regional Transportation Plan (RTP) | The Kirby GO Station is included as a new station along the Barrie GO Corridor as part of the RER project. The City will work with Metrolinx to implement transit supportive planning around the station, develop sustainable station access solutions, and support the works required for RER, including planning for grade separation of rail crossings. |


| Provincial Planning Document | Directions | Impact to Kirby Road EA |
| :---: | :---: | :---: |
| Transit- <br> Supportive Guidelines, Ministry of Transportation, 2012 | Description: Identifies best practices in Ontario, North America and abroad for transit-friendly land-use planning, urban design, and operations. <br> Directions: Key directions relevant to the Kirby Road EA include layout and spacing of arterial and collector streets: <br> - Street networks are fine-grained and interconnected to provide efficient transit services and connections to transit stops <br> - Eliminate unnecessary jogs or breaks in the network <br> - Spacing of arterial and collector roads should support a maximum 400 m walk from the interior of a block to a transit stop, and facilitate higher levels of walking and cycling <br> - Access routes to transit stops, such as pedestrian pathways or local roads, should be spaced no greater than 200 m apart. <br> Key directions for planning around major transit station areas include: <br> - A rational progression of facilities from passenger pick up and drop off / bus transfer / parking areas to ticketing and wayfinding, safe and comfortable waiting areas, and finally to transit loading areas <br> - Organize surface parking areas into smaller modules to facilitate defined walking and cycling paths to the stations and also establish future development parcels over time <br> - Prioritize pedestrian access <br> - Limit free surface parking where frequent feeder transit service is available | The road widening shall be planned in accordance with the Transit Supportive Guidelines. |
| \#CycleON: <br> Ontario's <br> Cycling <br> Strategy, <br> Ministry of <br> Transportation, <br> 2013 | Description: Identifies a vision for cycling in the province over the next 20 years where cycling is valued as a core mode of transportation. <br> Directions: Key directions relevant to the Kirby Road EA include: <br> - Partner with municipalities to implement Complete Streets policies and develop active transportation plans <br> - Partner with municipalities / transit agencies to integrate cycling and transit <br> - Develop a funding partnership to build provincial and municipal cycling routes, including pilot program funding to gather data and test new ideas <br> - Create comminities that have a built form that supports and promotes cycling for all trips under 5 km | The Kirby Road EA strives to plan for cycling infrastructure and complete communities in accordance with this plan. |


| Provincial Planning Document | Directions | Impact to Kirby Road EA |
| :---: | :---: | :---: |
| Ontario's <br> Climate <br> Change Action <br> Plan | Description: Identifies a five-year plan to fight climate change, reduce greenhouse gas pollution, and transition to a low-carbon economy. <br> Directions: Specific action areas are identified to meet specific greenhouse gas emission reduction targets: <br> - Transportation: Becoming a North American leader in low-carbon and zero-emission transportation <br> - Increase the use of electric vehicles <br> - Support cycling and walking <br> - Support the accelerated construction of GO Regional Express Rail <br> - Land use planning: Support low-carbon communities <br> - Strengthen climate change policies in the municipal land use planning process <br> - Eliminate minimum parking requirements | The implementation of Active Transportation and Travel Demand Management (TDM) to promote sustainable mode of transportation to increase the number of active transportation trips and reduce the number of single-occupancy vehicles will be considered during the alternative analysis. |
| $\begin{aligned} & \text { Greenbelt Plan } \\ & \text { (2017) } \end{aligned}$ | Description: In concert with the Growth Plan, Niagara Escarpment Plan (NEP) and Oak Ridges Moraine Conservation Plan (ORCMP), and further to the PPS, the Greenbelt Plan establishes land use planning framework for the GGH to support a clean and healthy environment, a thriving economy and social equity. <br> Directions: Identifies areas where urbanization should not occur in order to protect the ecological, agricultural, and hydrological land use. Lands identified in the NEP and ORCMP are also included in the Greenbelt Plan. | Kirby Road EA strives to support the achievement of complete communities and community hubs that are conveniently accessible by active transportation and transit. Infrastructure will integrate with land use planning while minimizing environmental impacts in the Protected Countryside of the Greenbelt Area. |
| Oak Ridges Moraine Conservation Plan (2002), Updated in May 2017 | Description: Identifies policy and plans to provide land use and resource management direction for the 190,000 hectares of land and water within the Moraine. The subject area is also accounted for in the Greenbelt Plan. <br> Directions: Protect the ecological and hydrological integrity of the Oak Ridges Moraine Area and provide land and resource uses and development that are compatible with other objectives of the Plan. Transportation infrastructure development is permitted in key natural heritage features and hydrological sensitive features if it will not adversely affect these features. | The Oak Ridges Moraine Area is part of the lands designated under the Greenbelt Plan and is a significant portion of the study area between east of Keele Street and Dufferin Street. Similar to the Greenbelt Plan, the Kirby Road EA will strive to minimize disturbance and respect the land and its key natural heritage features. |

### 2.2 Regional Planning Context

York Region is one of the fastest growing municipalities in the GTA. Since 1971, York Region's population has increased nearly seven-fold. Population and employment growth are expected to continue across the Region. As such, the transportation system and other infrastructure must be prepared to accommodate future growth. As illustrated in Figure 2-1, by 2041 regional population will approach 1.79 million, while employment will approach 900,000.

Figure 2-1: York Region Population and Employment Growth - 1971 to 2041


Source: Regional Municipality of York
Given this anticipated growth, the York Region Official Plan and Transportation Master Plan build upon provincial planning guidance and provide more specific direction on the need for transportation improvements to support growth in the Region, and these documents are summarized in the following.

### 2.2.1 Regional Official Plan (April 2019)

The Regional Official Plan represents the Region's vision and plan for the way communities are designed, serviced, and supported. As shown below, the objectives of the Plan include: Sustainable Natural Environment, Healthy Communities, and Economic vitality.
The plan emphasizes interconnected and accessible mobility systems, with a priority on pedestrian movement, and on transit use and access. Some of objectives related to the widening of Kirby Road include: create an active transportation system and programs that encourage walking, cycling and the use of public transit, provide transit service that is convenient and accessible to all residents and workers of York Region, ensure streets support all modes of transportation including walking, cycling, transit, automobile use, and the efficient movement of goods, plan and protect future urban and rural streets to accommodate transportation demands, and promote a linked and efficient network for goods movement that supports economic vitality and minimizes conflicts with sensitive land uses.

### 2.2.2 Regional Transportation Master Plan (November 2016)

York Region's Transportation Master Plan (YRTMP) addresses the Region's mobility needs to 2041. It provides a 25 year outlook to:

Create an advanced interconnected system of mobility in the GTHA in order to give York Region residents and businesses a competitive advantage, making York Region the best place to live, work and play in the GTHA.

The YRTMP has five objectives:

1. Create a world class transit system
2. Develop a road network fit for the future
3. Integrate active transportation in Urban Areas
4. Maximize the potential of employment areas
5. Make the last mile work

Kirby Road, while currently a City Road, forms part of the Regional concession road grid network. The YRTMP identifies Kirby Road from Highway 27 to Bathurst Street as a candidate to be added to the Regional Road network. In addition, the YRTMP makes specific recommendations for Kirby Road to provide regional east-west connectivity and transportation capacity through the study area including:

- Widening of Kirby Road plus the completion of the Kirby Road missing link
- Designation as a Frequent Transit Network corridor
- Cycling Facilities as a local cycling route of regional significance
- Designation as a strategic goods movement corridor

Additional mode-specific details on YRTMP recommendations are provided in the following sections.

## Road Network Recommendations

The 2016 York Region TMP update has identified the Regional significance of Kirby Road (currently under jurisdiction of the City of Vaughan) as a frequent transit, vehicular traffic, cycling, and strategic goods movement corridor. The road phasing and grade separation phasing are scheduled for 2027-2031 as shown in Figure 2-2.

Figure 2-2: 2031 YRTMP Road Network


Source: York Region Transportation Master Plan 2016

## Transit Network Recommendations

As identified in Figure 2-3 York Region is planning for frequent transit service on Kirby Road east of Weston Road within the Kirby Road EA study area. This frequent transit service will connect the development of the New Communities and Highway 400 Employment lanes to the proposed Kirby GO Station, Vaughan Metropolitan Centre, the rest of Vaughan and the City of Toronto. Frequent Transit Network service is defined as bus service every 15 minutes or less between 6AM and 10PM, seven days a week.

Figure 2-3: 2041 YRTMP Transit Network


Source: York Region Transportation Master Plan 2016

## Cycling Network Recommendations

The York Region TMP 2016 recommends cycling infrastructure for a 10-year horizon and for a 25-year horizon. Within the study area and for the 10-year horizon the TMP recommends local cycling route (shown in Figure 2-4).

Figure 2-4: Proposed 2041 YRTMP Cycling Network


Source: York Region Transportation Master Plan 2016

## Goods Movement Network Recommendations

York Region's Strategic Goods Movement Network provides a framework for future goods movement within the Study Area. It consists of a hierarchy of corridors, identifying all freeways as Tier 1 corridors, strategic arterial roads as Tier 2 corridors, such as Kirby Road through the Study Area, and all other roadways as secondary goods movement corridors. The Region's Proposed Strategic Goods Movement Network is illustrated for the Study Area in Figure 2-5.

Figure 2-5: YRTMP Strategic Goods Movement Network


Source: York Region Transportation Master Plan 2016

## Kirby Road Widening Project Sheet

Further to the York Region TMP's mode specific recommendations for Kirby Road, a project sheet in Appendix E to the York Region TMP outlines the problem and opportunity, alternatives considered, and recommendations as follows:

Problem and Opportunity:

- Transportation network improvements are needed to accommodate expansion of the Designated Urban Area.
- Capacity improvements needed to accommodate future travel demands.
- Corridor improvements needed to support walking and cycling.

Alternatives Considered:

1. Do Nothing - Does not address Problem or Opportunity Statement.
2. Optimize existing facility with intersection improvements only - Minor improvement for corridor traffic flow. Does not address overall traffic congestion.
3. Urbanize corridor but maintain 2-lane cross-section - Does not address traffic congestion. Opportunity to improve walking and cycling facilities.
4. Widen corridor to 4 lanes and construct to urban arterial standard - Addresses traffic capacity. Opportunity to improve walking and cycling facilities.
5. Widen parallel/adjacent corridor - Potential to divert some traffic to other corridors. Does not address corridor congestion and provides no improvements to walking and cycling facilities.

Recommended Improvement and Justification:

- Widen corridor to 4 lanes and construct to urban arterial standard and realign jogged intersection. 2027 to 2031 timing to Weston Road to Dufferin Street and 2032 to 2041 timing to widen Pine Valley Drive to Weston Road.
- Serves growth in designated built up areas in North Vaughan. Corridor is an Interim Primary Arterial for Goods Movement. Widening provides for continuous 4-lane eastwest corridor tying into 19th Avenue and Donald Cousens Parkway to the east with the planned connection of the missing link east of Dufferin Street. Elimination of jogged intersection at Jane Street to improved traffic flow. Opportunity to improve walking and cycling facilities.


### 2.3 Municipal Planning Context

### 2.3.1 City of Vaughan Official Plan

The City of Vaughan Official Plan 2010 (VOP 2010) was approved by Council on September 7, 2010. The Plan was endorsed by Regional Council on June 28, 2012. VOP 2010 is part of a Growth Management Strategy "that will shape the future of the City and guide its continued transformation into a vibrant, beautiful and sustainable City."

The following policies, with VOP 2010 references in brackets, are of relevance to the study area:

- To establish a comprehensive transportation network that allows a full range of mobility options, including walking, cycling and transit (4.1.1.1).
- That the street network will be the basis for enhanced transportation opportunities, including transit, walking, cycling, and place making initiatives.

Existing rights-of way should be designed to optimize the efficient movement for a variety of modes, potentially resulting in reduced capacity for cars where overall capacity increases can be achieved (4.1.1.5).

- To support the development of a comprehensive network of on-street and offstreet pedestrian and bicycle routes, through the implementation of the City's Pedestrian and Cycling Master Plan and York Region's Pedestrian and Cycling Master Plan; and to facilitate walking and cycling and to promote convenience and connectivity (4.1.1.6).
- To plan for a street network that prioritizes safe and efficient pedestrian travel while effectively accommodating cyclists, transit and other vehicles, and to create more pedestrian and transit-friendly street cross-sections (4.2.1.2).
- To provide a minimum of 2 north / south and 2 east / west collector streets in new development where feasible, including grade-separated crossings of 400-series highways and rail corridors. The purpose of these streets will be to provide for local travel between and within concession blocks without the necessity of traveling on arterial streets and to provide effective routing for transit vehicles. (4.2.1.23)

Schedule 9 and Schedule 10 in the VOP 2010 identify the City's Future Transportation Network and Major Transportation Network, respectively. It is noted that these schedules were developed prior to the completion of the 2016 York Region TMP, and as such, incorporate Regional plans based upon the previous version of the York Region TMP. Some of the key transportation improvements related to the study area include:

- Completion of the Kirby Road missing link between Dufferin Street and Bathurst Street.
- Jog eliminations at Jane Street and Kirby Road,
- Grade separations along the GO Rail Barrie Corridor at Kirby Road subject to coordinated studies by Metrolinx, York Region and the City
- Kirby GO Station


### 2.3.2 Green Directions Vaughan

Green Directions Vaughan is the City's community sustainability and environmental master plan. It identifies actions to ensure the health, well-being and vitality of the community. In relation to the Kirby Road EA, this plan provides direction to ensure that getting around Vaughan is easy and has a low environmental impact. The Kirby Road EA will look to promote sustainable and active transportation in accordance with Green Directions Vaughan.

### 2.3.3 City of Vaughan Transportation Master Plan 2013: A New Path

The Vaughan Transportation Master Plan (VTMP) identifies City-wide transportation needs to the year 2031, including local improvements, strong Regional investments in transit service, and arterial road improvements, sidewalks, on-street and off-street bicycle facilities, and a mix of land uses. Within the study area the timing of recommended improvements identified in the VTMP varies from the YRTMP recommendations given more up-to-date information on timing of development. As an example, the timing for the Kirby Road widening (from 2 to 4 lanes) and the missing link between Keele Street and Bathurst Street is 2021 as per the VTMP versus 2031 as per the YRTMP. It should be noted that the VTMP is currently being updated.

### 2.3.4 City of Vaughan Pedestrian and Bicycle Master Plan

The City of Vaughan adopted the Pedestrian and Cycling Master Plan in January 2007 and is currently being updated. The Plan has a 20-year horizon. The central intent is to guide improvements to existing and proposed pedestrian and cycling infrastructure in order to create a friendlier environment for residents. The two central goals of the plan are:

- To create new environments and enhance existing ones for both pedestrians and cyclists in the City of Vaughan. These environments should be supported by developing a visible and connected pedestrian and cycling network in Vaughan that integrates, enhances and expands the existing on- and off-road pedestrian and cycling facilities.
- To facilitate an increase in walking and cycling for leisure and utilitarian purposes.

Cycling facilities in the study area were initially identified in the City's Pedestrian and Bicycling Master Plan and more recently updated for the City-wide TMP.

The Pedestrian and Bicycle Master Plan update endorses the Vaughan Super Trail, a signature active transportation facility that links communities to one another, and increases accessibility for residents and visitors alike to important cultural, natural, heritage, and public space destinations. No cycling facilities are, however, identified on Kirby Road as shown in Figure 2-6. However, the City of Vaughan policy is to explore active transportation facilities on all arterial roads and this study will explore the need for cycling facilities on Kirby Road.

Figure 2-6: Pedestrian and Bicycle Master Plan Update


Source: Pedestrian and Bicycle Master Plan Update

### 2.3.5 North Vaughan and New Communities Transportation Master Plan

 The North Vaughan and New Communities Transportation Master Plan (NVNCTMP) is a long-range plan that supports policies, programs and infrastructure required to meet existing and future mobility needs and provide context for transportation decisions within North Vaughan. The primary and overall study areas are shown in Figure 2-7 below.Figure 2-7: NVNCTMP Primary and Overall Study Area


The objective of the plan is to look at both internal and external factors that contribute to achieving sustainable transportation for residents and businesses while ensuring recommendations of the plan address the transportation network needs from immediate to future growth. The NVNCTMP has satisfied the phases 1 and 2 of the Class EA and recommended a Kirby Road Environmental Assessment Study from Jane Street to Dufferin Street, including grade separation at Barrie Corridor GO railway and active transportation improvements, to satisfy Phase 3 and 4 of the Class EA. The TMP also recommended the widening of the road from two to four lanes to a 36 m ROW width to support Block 27 and the future Kirby GO station.

### 2.3.6 Block 27 Secondary Plan

The NVNCTMP was conducted in parallel and in close coordination with the secondary plan study for the New Community Area of Block 27, bound by Teston Road to the south, Keele Street to the east, Kirby Road to the north and Jane Street to the west (Figure 2-8). The Secondary plan was adopted by City Council in September 2018. This secondary plan study is still subject to review and approval by York Region.

Figure 2-8: Block 27 Study Area


Source: Block 27 Secondary Plan, OPA 33 adopted by Vaughan Council June 2018
Block 27 is planned to have a mix of low and mid-rise buildings with a blend of residential, commercial and institutional uses. It will be anchored by a transit hub centre that has schools, community facilities, and a transit hub with the future Kirby GO station in the north-east quadrant, as proposed by Metrolinx’ Regional Express Rail (RER) 2025 and as planned for through the Block 27 Secondary Plan by the City.

In addition to the projected growth from the Secondary Plan and the demand generated by the GO Station, this Kirby Road EA study will also need to consider the proposed street connections identified in Figure 2-8, including Street 4, Street 5, Street 6, and a potential access for the Kirby GO Station between the Barrie GO Line and Keele Street.

### 2.3.7 Highway 400 North Employment Lands Secondary Plan

The Highway 400 North Employment Lands Secondary Plan area (Figure 2-9) is bound by Teston Road on the south, Weston Road on the west, King-Vaughan Road on the north and Jane Street on the east. It is just west of the study limits of Kirby Road EA.

Figure 2-9: Block 34 and 35 Plan (Schedule 2D to OPA 450)


Source: Vaughan OPA 637, November 2011
The Secondary Plan area has many environmental features and shows future employment areas, mid-block linkages, the Region's widening of Weston Road and Jane Street for transit and active transportation facilities, interchanges at Kirby/Hwy 400 and King- Vaughan/Hwy 400 and potential GTA West Highway Corridor. The plan identifies lands primarily for prestige areas, prestige office and business campuses and general employment areas, with some lands designated as low rise residential and Employment / Commercial mixed use areas.

### 2.3.8 Kirby Road Extension Municipal Class Environmental Assessment

The Kirby Road Extension report (September 2019) analyzes various alignments for the extension connecting Dufferin Street and Bathurst Street. The new roadway (Figure 2-10) will include a four-lane roadway, a crossing over the significant
environmental features within the Oak Ridges Moraine Conservation Plan area and active transportation facilities. The construction is currently planned for 2020.

Figure 2-10: Kirby Road Extension EA - Refined Preferred Alternative


Source: Kirby Road Extension Municipal Class Environmental Assessment Environmental Study Report, Appendix D, Rizmi Holdings Limited and City of Vaughan, September 2019

Figure 2-11 illustrates the lane configuration for the preferred alternative for the intersection of Kirby Road at Dufferin Street which will inform the baseline future conditions to be assessed in this study.

Figure 2-11: Kirby Road at Dufferin Street Lane Configuration


[^0] Holdings Limited and City of Vaughan, September 2019

## 3 Existing Transportation Conditions

This section provides an overview of existing conditions within the Study Area. Data was obtained from various sources including City of Vaughan, York Region, MTO, Transportation Tomorrow Survey (TTS), Google Maps, and the City's GIS and travel data.

### 3.1 Existing Transportation Infrastructure

### 3.1.1 Existing Road Network

Kirby Road (shown in Figure 3-1) is designated as an east-west minor arterial. It is under the jurisdiction of the City of Vaughan with plans to become a regional road, under the jurisdiction of Regional Municipality of York, to function as a strategic goods movement corridor. It has a posted speed limit of $60 \mathrm{~km} / \mathrm{h}$ within the study area.

Figure 3-1: Existing Transportation Conditions along Kirby Road


According to City of Vaughan's OP, arterials play an important role in moving large volumes of traffic and are the primary location for rapid transit service. Arterials form the basis for the location of nearly all the Intensification Areas. In addition to enhanced pedestrian, bicycle and transit capacity, arterials are the focus for streetscaping and other place-making initiatives to improve the quality of place.

Kirby road corridor within study limits is a two (2) lane minor arterial road with posted speed limit at $60 \mathrm{~km} / \mathrm{h}$ within the study area from Jane Street to Dufferin Street. It is noted that Kirby road is planned for an extension from Dufferin Street to Bathurst Street as a four lane roadway in 2020.

The corridor within the study area has three (3) signalized intersections at Jane Street, Keele Street, and Dufferin Street. There are five (5) unsignalized intersections at Mid Ontario Truck Center Access, Petro Canada Access, Ravineview Drive, Foot Hills Road, and Laurentian Boulevard. The study area and the signalized intersections are shown in Figure 3-2.

Figure 3-2: Signalized Intersections within the Study Area


The majority of side streets crossing Kirby Road within the study area are designated as local roads under the jurisdiction of City of Vaughan except for Jane Street (major arterial as Regional Road), Keele Street (major arterial as Regional Road), and Dufferin Street (major arterial as Regional Road).

### 3.1.2 Existing Transit Network

City of Vaughan is serviced by York Region Transit (YRT). There are two local routes that travel within the study area, namely Route 22 and 96 . Route 22 connects Maple GO Station to Seneca College (King Campus) and runs along Keele Street, King Road, and Yonge Street. In addition, the local Route 96 connects Pioneer Village to Newmarket GO Bus Terminal and runs along Steeles Avenue, Keele Street, King Road, and Yonge Street. The routes within the study area are shown in Figure 3-3.

Figure 3-3: Existing Transit Network


Source: York Region Transit System Map, January 5, 2020
During the weekday, Route 22 has a 30-minute headway during AM Peak Hour and 35-minute headway during PM peak hour, while Route 96 has a 30-minute headway during AM Peak Hour and 25-minute headway during PM peak hour.

### 3.1.3 Existing Pedestrian/ Cyclist Network

There are currently no pedestrian facilities on Kirby Road within the study area. As shown in Figure 3-4, Jane Street, Keele Street, and Dufferin Street currently have paved shoulder that can be used by cyclist. There are also some off-road multi-use trails and pathways within the neighbourhood south of Kirby Road between Keele Street and Dufferin Street as well.

Figure 3-4: Existing Cycling Network


Source: Vaughan Cycling Map, June 2015

### 3.2 Travel Patterns and Mode Share

The following section summarizes travel and mode share data from the 2016 Transportation Tomorrow Survey (TTS) for trips made by residents within the secondary study area.

During a typical day, approximately 3,303 trips were completed during the AM Peak Period by people residing within the area. The trips were destined for various locations across the GTA as shown in Figure 3-5. Of the total trips, $69 \%$ were made by car, $8 \%$ by transit, and $2 \%$ by active modes such as walking or cycling, as illustrated in Figure 3-6.

Out of the 190 internal trips within the secondary study area, 104 trips were less than 1 km long, 68 were approximately $1-2 \mathrm{~km}$ long, and 18 were approximately 2-3 km long. Provision of improved active transportation connectivity may help provide additional travel options for these short trips.

Figure 3-5 Distribution of Study Area AM Work Trips (TTS 2016)


Figure 3-6: Mode Share - Secondary Study Area


### 3.3 Transit

York Region's Transportation Mobility Plan Guidelines for Development Applications (2016) was used for the multimodal (Transit, Pedestrian, Bicycle) level of Service analysis.

The transit level of service is determined by the access to transit stops, the transit headways and the transit vehicle performance approaching the intersection. The transit level of service result summary is shown in Table 3-1. As seen in the table, the majority of the intersections within the study area currently do not have a transit stop location with the exception of a Northbound/Southbound transit route at Kirby Road and Keele Street.

Table 3-1: Transit Level of Service Summary

| Transit Stop Location | Direction | Access to Transit <br> Stops | Transit Headways | Intersection <br> Approach (transit <br> or curb lanes) |
| :---: | :---: | :---: | :---: | :---: |
|  |  | LOS | LOS | LOS |

### 3.4 Pedestrian/ Cyclists

The pedestrian level of service was analyzed based on the sidewalk width and buffer width. The pedestrian model level of service performance is calculated at the intersection and road segments as a pedestrian's experience is determined by both the conditions between intersections and at intersection crossings themselves. The pedestrian level of service result is shown in Table 3-2. Based on the results, the majority of road segments are operating at LOS F. Within the study area, along Kirby Road some road segments include pedestrian sidewalks with buffers. A buffer is a green or landscaped space separating the sidewalk and the street curb. Based on the results, the intersections within the study area have are operating at LOS C due to the inclusion of pedestrian signal heads and clearly delineated cross-walks.

Table 3-2: Pedestrian Level of Service Summary

| Intersection | Direction | Segment | Segment | Intersection |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Description | LOS | LOS |
| Kirby Road / Jane Street | Eastbound | Kirby Road | F | F |
|  | Westbound | Kirby Road | F | F |
|  | Northbound | Jane Street | F | F |
|  | Southbound | Jane Street | F | F |
| Kirby Road / Keele Street | Eastbound | Kirby Road | F | C |
|  | Westbound | Kirby Road | B | C |
|  | Northbound | Keele Street | F | C |
|  | Southbound | Keele Street | F | C |
| Kirby Road / Dufferin Street | Eastbound | Kirby Road | B | C |
|  | Northbound | Dufferin Street | E | C |
|  | Southbound | Dufferin Street | E | C |

Bicycle level of service was analyzed based on the provision of cycling facilities within the study area. The bicycle level of service result summary is shown in Table 3-3. Based on these results, within the study area all the segments and intersections are operating at LOS F. The study corridor between Jane Street and Dufferin Street currently not accommodate for cyclists along the road segments or at intersections.

Table 3-3: Bicycle Level of Service Summary

| Intersection | Direction | Segment | Segment | Intersection |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Description | LOS | LOS |
| Kirby Road / Jane Street | Eastbound | Kirby Road | F | F |
|  | Westbound | Kirby Road | F | F |
|  | Northbound | Jane Street | F | F |
|  | Southbound | Jane Street | F | F |
| Kirby Road / Keele Street | Eastbound | Kirby Road | F | F |
|  | Westbound | Kirby Road | F | F |
|  | Northbound | Keele Street | F | F |
|  | Southbound | Keele Street | F | F |
| Kirby Road / Dufferin Street | Eastbound | Kirby Road | F | F |
|  | Westbound | Dufferin Street | F | F |
|  | Northbound | Dufferin Street | F | F |
|  | Southbound | Kirby Road |  |  |

### 3.5 Auto Traffic

This section describes the existing auto traffic operations at signalized and unsignalized intersections along the study corridor.

### 3.5.1 Data Collection

The Turning Movement Counts (TMC) and signal timing plans for the study area were provided by the City of Vaughan. All the TMCs were recorded on the weekday of October 2019. Table 3-4 provides a list of traffic volumes inventory utilized for the existing condition analyses. Detailed TMCs and signal timing plans are provided in Appendix A.

Table 3-4: Turning Movement Counts Inventory

| No. | Intersection | Intersection <br> Control | Date | Source |
| :---: | :--- | :---: | :---: | :---: |
| $\mathbf{1}$ | Kirby Road at Jane Street | Signalized | October 2, 2019 | OTI |
| $\mathbf{2}$ | Kirby Road at Mid Ontario Truck Access | Unsignalized | October 2, 2019 | OTI |
| $\mathbf{3}$ | Kirby Road at Petro Canada Access | Unsignalized | October 2, 2019 | OTI |
| $\mathbf{4}$ | Kirby Road at Keele Street | Signalized | October 2, 2019 | OTI |
| $\mathbf{5}$ | Kirby Road at Ravineview Drive | Unsignalized | October 2, 2019 | OTI |
| $\mathbf{6}$ | Kirby Road at Foot Hills Road | Unsignalized | October 2, 2019 | OTI |
| $\mathbf{7}$ | Kirby Road at Laurentian Boulevard | Unsignalized | October 2, 2019 | OTI |
| $\mathbf{8}$ | Kirby Road at Dufferin Street | Signalized | October 2, 2019 | OTI |

### 3.5.2 Lane Configuration and Intersection Volumes

It is noted that existing turning movement counts were not balanced between intersections with a driveway in between. Figure 3-7 and Figure 3-8 illustrate lane configuration and existing traffic volumes at key study area intersections.

Figure 3-7: Lane Configuration

|  | Jane Street | Mid Ontario Truck Center Access | Petro Canada Access | Keele Street | Ravineview Drive | Foot Hills Road |  | Laurentian Boulevard | Dufferin Stree |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Kirby Road |  | $\xrightarrow{4}$ | $\xrightarrow{4}$ |  | (8) | E ${ }^{\text {B }}$ | Kirby <br> Road | T | ل $\downarrow$ |
|  | $\underset{\rightarrow}{+}+$ | $\xrightarrow{\text { 土 }}$ | $\xrightarrow{\text { A }}$ | $\stackrel{\Delta}{\boldsymbol{\rightharpoonup}}+\uparrow \uparrow \stackrel{\rightharpoonup}{2}$ | $\rightarrow{ }_{T}$ | $\vec{\nabla} \vec{T}^{(0)}$ |  | $\vec{\nabla}{ }_{T}^{\infty}$ | $\stackrel{\uparrow}{\imath} \mid 7 \uparrow$ |

NOT TO SCALE

Figure 3-8: Existing Turning Movement Volumes (AM and PM Peak Hour)



### 3.5.3 Existing Peak Hour Traffic Analysis

Traffic analysis was conducted to determine existing conditions at key intersections within the study area using performance metrics such as Level of Service (LOS) and volume-to-capacity ratio (v/c).

Traffic operations for all the intersections within the study area were analyzed using the Synchro Software. The Synchro software is developed based on the Highway Capacity Manual (HCM 2000) methodologies and provides a detailed assessment of traffic operations including levels of service (LOS), delays and volume to capacity ratios for overall, approaches, as well as individual movements of unsignalized and signalized intersections. LOS describes the "driver experience" on a transportation facility, with each LOS associated with the average delay each driver would experience at an intersection (Table 3-5).

Table 3-5: Level of Service Descriptions

| LOS | Signalized Intersections <br> Description |  | Unsignalized Intersections <br> Description | Delay |
| :--- | :--- | :--- | :--- | :--- | :--- |

The V/C ratio represents how full a road or intersection movement is, based on actual volumes versus the maximum number of vehicles that can travel. A V/C between 0.00 and 0.49 means that less than half the capacity is being used by vehicles; this is generally associated with good operating conditions. As the V/C approaches 1.00, traffic conditions worsen and at 1.00 the theoretical maximum number of vehicles is reached and operations are generally very poor. The V/C can exceed 1.00 , indicating very bad operations and extended traffic delays.

The "critical movements" identified in the capacity analyses summary tables are those having an LOS of E or F and/or a V/C ratio of 0.85 or greater for signalized intersections. Since the analysis is based on actual volumes, V/C > 1.00 indicates that the counted traffic volumes exceeded the capacity calculated by the analysis procedure/software. Individual movements at intersections with calculated V/C > 1.00 are operating essentially above capacity and can be expected to experience severe recurring queuing and congestion during both the AM and PM peak periods.

The existing traffic volumes were analysed using existing lane configuration and signal timings provided by the City. The traffic operational analysis results of the study area signalized and unsignalized intersections are summarized in Table 3-6. Detailed Synchro outputs are provided in Appendix B.

Table 3-6: Synchro Results - Existing Conditions

| Intersection | Approach/Movement |  | AM Peak Hour |  |  | PM Peak Hour |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Delay (s) | LOS | v/c | Delay <br> (s) | LOS | v/c |
| Kirby Road at Jane Street (Signalized) | EB | EBLTR | 156.0 | F | 1.07 | 124.6 | F | 0.95 |
|  | WB | WBLTR | 156.6 | F | 1.09 | 120.3 | F | 0.94 |
|  | NB | NBLTR | 25.4 | C | 0.35 | 64.6 | E | 0.98 |
|  | SB | SBLTR | 68.0 | E | 0.98 | 26.1 | C | 0.45 |
|  | Overall Intersection |  | 93.9 | F | 1.03 | 72.1 | E | 0.96 |
| Kirby Road at Mid Ontario Truck Access (Unsignalized) | EB | EBLT | 0.6 | A | 0.01 | 0.3 | A | 0.01 |
|  | WB | WBTR | 0.0 | - | 0.25 | 0.0 | - | 0.21 |
|  | SB | SBLR | 13.4 | B | 0.03 | 14.3 | B | 0.11 |
|  | Overall Intersection |  | 0.5 | A | 0.32 | 1.0 | A | 0.31 |
| Kirby Road at Petro Canada Access (Unsignalized) | EB | EBLT | 1.1 | A | 0.0 | 1.3 | A | 0.04 |
|  | WB | WBTR | 0.0 | - | 0.24 | 0.0 | - | 0.19 |
|  | SB | SBLR | 15.9 | C | 0.33 | 14.1 | B | 0.21 |
|  | Overall Intersection |  | 3.5 | A | 0.45 | 2.4 | A | 0.47 |
| Kirby Road at Keele Street (Signalized) | EB | EBLT | 35.4 | D | 0.45 | 79.3 | E | 0.94 |
|  |  | EBR | 33.9 | C | 0.23 | 36.0 | D | 0.05 |
|  | WB | WBL | 119.3 | F | 1.09 | 76.4 | E | 0.82 |
|  |  | WBTR | 37.7 | D | 0.52 | 39.3 | D | 0.42 |
|  | NB | NBLT/T | 13.0 | B | 0.36 | 14.1 | B | 0.63 |
|  |  | NBR | 10.0 | A | 0.07 | 9.0 | A | 0.21 |


| Intersection | Approach/Movement |  | AM Peak Hour |  |  | PM Peak Hour |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Delay (s) | LOS | v/c | Delay (s) | LOS | v/c |
|  | SB | SBLT/T | 25.8 | C | 0.87 | 9.3 | A | 0.25 |
|  |  | SBR | 10.1 | B | 0.09 | 7.6 | A | 0.03 |
|  | Overall Intersection |  | 35.1 | D | 0.97 | 25.2 | C | 0.71 |
| Kirby Road at Ravineview Drive (Unsignalized) | EB | EBTR | 11.2 | B | 0.34 | 27.2 | D | 0.84 |
|  | WB | WBL | 32.7 | D | 0.88 | 14.9 | B | 0.58 |
|  | SB | SBL | 10.3 | B | 0.21 | 9.8 | A | 0.14 |
|  | Overall Intersection |  | 25.0 | C | 0.62 | 21.4 | C | 0.63 |
| Kirby Road at Foot Hills Road (Unsignalized) | EB | EBTR | 12.0 | B | 0.44 | 22.4 | C | 0.79 |
|  | WB | WBLT | 22.2 | C | 0.78 | 12.6 | B | 0.50 |
|  | NB | NBLR | 10.1 | B | 0.12 | 9.9 | A | 0.08 |
|  | Overall Intersection |  | 18.1 | C | 0.45 | 18.4 | C | 0.40 |
| Kirby Road at Laurentian Boulevard (Unsignalized) | EB | EBTR | 0.0 | - | 0.18 | 0.0 | - | 0.35 |
|  | WB | WBLT | 0.2 | A | 0.01 | 0.9 | A | 0.03 |
|  | NB | NBLR | 11.2 | B | 0.07 | 14.4 | B | 0.03 |
|  | Overall Intersection |  | 0.7 | A | 0.46 | 0.6 | A | 0.48 |
| Kirby Road at Dufferin Street (Signalized) | EB | EBL | 67.1 | E | 0.63 | 66.6 | E | 0.77 |
|  |  | EBR | 57.6 | E | 0.17 | 49.7 | D | 0.21 |
|  | NB | NBL | 5.6 | A | 0.47 | 7.6 | A | 0.44 |
|  |  | NBT | 4.3 | A | 0.25 | 12.0 | B | 0.60 |
|  | SB | SBT | 11.2 | B | 0.48 | 14.6 | B | 0.33 |
|  |  | SBR | 8.5 | A | 0.24 | 11.4 | B | 0.04 |
|  | Overall Intersection |  | 17.8 | B | 0.50 | 24.0 | C | 0.65 |

Based on the intersection capacity analyses results presented in Table 3-6, the majority of signalized and unsignalized intersections within the study area are operating at overall LOS C or better with reserved capacity during both the AM and PM peak hours, except for the intersection of Kirby Road at Jane Street and Kirby Road at Keele Street. The following individual movements are operating at LOS E or worse:

## AM Peak Hour

- Kirby Road at Jane Street - eastbound left/ through/ right, westbound left/ through/ right, southbound left/ through/ right
- Kirby Road at Keele Street - westbound left
- Kirby Road at Dufferin Street - eastbound left, eastbound right


## PM Peak Hour

- Kirby Road at Jane Street - eastbound left/ through/ right, westbound left/ through/ right, northbound left/ through/ right
- Kirby Road at Keele Street - eastbound left/ through, westbound left
- Kirby Road at Dufferin Street - eastbound left

As shown in Table 3-6, signalized intersection of Kirby Road at Jane Street is operating at overall LOS F with a few individual movements operating at v/c ratio greater than 1.0 during the AM peak hour. The operational performance observed at this intersection is the result of the split signal timing plan as a result of the jog. At Kirby Road and Keele Street, there are currently 339 vehicles turning left during the AM peak hour for the WBL movement which results in high v/c ratios, observing the video taken at the site showed that the WBT vehicles bypass left-turning vehicles by using the right-turn lanes. The Synchro analysis was therefore modified to reflect this. The overall intersection LOS are illustrated in Figure 3-9.

## Keele Street Intersection Analysis

In order to better understand the current operation on Keele Street, two intersections (Vista Gate and Peak Point Boulevard) south of Kirby Road at Keele Street were analyzed as per the City's request. The existing turning movement counts at these two intersections are shown in Figure 3-10 and Figure 3-11.

Based on the intersection capacity analyses using Synchro, Peak Point Boulevard is operating with an overall LOS of $\mathrm{C}(\mathrm{v} / \mathrm{c}=0.96)$ and LOS of $\mathrm{A}(\mathrm{v} / \mathrm{c}=0.54)$ during AM and PM peak hours respectively. The westbound approach at Vista Gate operates with LOS C (15.7 sec delay) and LOS E (41.4 sec delay) during AM and PM peak hours respectively.

Figure 3-9: Existing Intersection Level of Service (AM and PM Peak Hour)



Figure 3-10: AM Peak Hour - Keele Street


Figure 3-11: PM Peak Hour - Keele Street


## Weekend Peak Analysis

Weekend volumes (shown in Figure 3-12) during the Saturday afternoon peak hour were also considered, however, due to relatively low volumes were not further analyzed.

Figure 3-12: Existing Weekend Turning Movement Counts


## 4 Traffic Collision Review

Intersection collision data was provided by York Region for collision records spanning 5 years between January 1, 2014 and December 31, 2018. In addition to the three intersections on Kirby Road between Jane Street and Dufferin Street, 2 intersections on Keele Street were also included in the analysis due to proximity to the future GO access.

### 4.1 Total Collisions

A total of 86 collisions have been reported for the five intersections as summarized in Figure 4-1. It is to be noted there was only one recorded incident of a collision occurring midblock/within a segment along Keele Street between Visa Gate and Kirby Road. Details pertaining to the collision will be mentioned if relevant.

Figure 4-1: Number of Collisions by Intersection


Collisions were analyzed by year, weekday and month of occurrence, severity, initial impact type, environmental condition, and light condition to identify trends and patterns in the collisions. A heatmap of all collisions within the study area is shown in Figure 4-2.

Figure 4-2: Kirby Collision Heat Map


### 4.2 Study Area versus City-Wide Collisions

Overall collision statistics are provided in Figure 4-3. A decrease in collisions have been since yearly since 2015, with a sudden increase once again in 2018. This is inconsistent with the rest of City of Vaughan, where total collisions have been consistent since 2014 as seen in Figure 4-4. The number of collisions per month varies throughout the year; with the most observed between September and October. Collisions are observed to be highest during the weekday, which is expected due the larger volume of vehicles on the road as opposed to the weekend. The predominant initial impact type are rear end and turning movements, comprising of more than two-thirds of all collisions. Other external factors such as environment conditions and light conditions all show that most collisions (>75\%) occur in normal conditions (clear ad in daylight, respectively). It is to be noted that no collisions that resulted in fatalities has been recorded for the study area.

As seen in Figure 4-5, the intersection of Keele Street and Kirby Road is also within the top five for highest number of collisions north of Major Mackenzie Drive in the less urban areas of Vaughan. Improvements at this intersection should be made to mitigate factors causing this higher than average number of collisions.

Figure 4-3: Study Area Collision Statistics (January 2014 to December 2018)


Figure 4-4: City of Vaughan Collisions By Year (January 2014 to December 2018)


Figure 4-5: Top Collision Intersections in Vaughan


### 4.3 Average Collision Rate

Average collision rates per intersection were calculated to identify any critical locations that would not have been otherwise identified due to lower absolute number of collisions. Collision rates per million vehicle kilometres travelled (MVK) for each of the intersections is calculated using the following formula:

$$
\text { Intersection Collision Rate }=\frac{\text { Number of Collisions } \times 1,000,000}{A A D T \times 365 \times \text { Years }}
$$

Annual Average Daily Traffic (AADT) was estimated to be ten times the average of the AM and PM peak hour volumes. The collision rate for each intersection has been calculated and provided in Table 4-1.

Table 4-1: Average Collision Rates of Intersections

| Intersection | Total <br> Collisions <br> $(2014-2018)$ | Intersection <br> Collision <br> Rate | Average <br> Collision <br> Rate |
| :--- | :---: | :---: | :---: |
| Keele Street \& Kirby Road | 37 | 7.4 | 1.49 |
| Dufferin Street \& Kirby Road | 17 | 5.0 | 1.00 |
| Jane Street \& Kirby Road | 13 | 4.0 | 0.80 |
| Keele Street \& Vista Gate | 9 | 2.2 | 0.43 |
| Keele Street \& Peak Point <br> Boulevard | 10 | 2.1 | 0.43 |

Consistent with Figure 4-5, a high average intersection collision rate (1.49) is observed at Keele Street and Kirby Road, and this will be carried forward for a more detailed analysis. In addition, the two intersections along Keele Street at Vista Gate and Peak Point Boulevard will also be further investigated as requested by the City due to future access to the GO Station.

### 4.4 Detailed Collision Analysis

Impact types at all locations along Keele Street have been analyzed to identify potential geometric or other location specific conditions that could contribute to particular collisions. All impact types for these intersections have been summarized in Figure 4-6.

Figure 4-6: Impact Type by Intersection (January 2014 to December 2018)


Keele Street and Kirby Road: This intersection is observed to have a high percentage of turning movement collisions (50\%). A desktop review of street conditions on Google Streetview shows acceptable sightline for right turning vehicles. Turning movement collisions may be occurring from left turning vehicles, as the existing signal timings do not provide dedicated left turn phases for any approaches. There may not be enough gaps in through traffic to permit safe left turns and should be further investigated.

Keele Street and Peak Point Boulevard: This intersection has high Single-MotorVehicle or SMV collisions (29\%), and these collisions typically include run-off-road and roll-over crashes, which may be due to the lack of a curb on the west side of Keele Street. Alternatively since the average collision rate is low, there may be no specific causes related to infrastructure or site conditions.

Keele Street and Vista Gate: This intersection has high rear end collisions (44\%), Rear end collisions may be due to the sidewalk crossing on the east end for pedestrians trying to access the bus stop on the southeast corner. It is also noted that although YRT bus stops existing on both sides of Keele Street, there is no traffic signal at this intersection to provide a protected crossing for pedestrians, cyclists or transit users. As the average collision rate is low, there may be no specific causes related to infrastructure or site conditions.

## 5 Future Transportation Conditions

This section presents the analysis methodology and results for the future conditions operations. The future conditions horizon year is 2031 consistent with NVNCTMP. Travel demand in the study area was forecasted using the Regional travel demand model based on EMME. Intersection operational performance analysis was conducted using Synchro/SimTraffic, based on HCM methodology.

### 5.1 Land Use and Future Development Context

Land uses adjacent to Kirby Road through the study limits are currently rural with residential houses located south of Kirby Road between Keele Street and Dufferin Street. Figure $5-1$ shows the future planned land use designations along the corridor and surrounding area as listed in Vaughan Official Plan.

Figure 5-1: Land Use - Schedule 13 Official Plan (2019)


As mentioned in Section 2.3.6, Block 27, bounded by Teston Road to the south, Keele Street to the east, Kirby Road to the north and Jane Street to the west, is planned to have a mix of low and mid-rise buildings with a blend of residential, commercial and institutional uses.

### 5.1.1 2031 Population and Employment Growth

The northern part of Vaughan bounded by Highway 27 to Bathurst and between King-Vaughan Road and Teston Road (NVNCTMP study area) is projected to experience significant growth by 2031 as identified in Figure 5-2.

Figure 5-2: North Vaughan Population/ Employment Forecast


Source: NVNCTMP
Population and employment forecasts being considered for this study to the horizon year of 2031 are consistent with NVNCTMP, and the breakdown by traffic zone in the EMME model for the Kirby Road EA secondary study area are presented in Table
5-1. Again consistent with NVNCTMP, York Region's interim 45\% land use intensification scenario is being used, with note that York Region is currently undertaking a Municipal Comprehensive Review which will update the Regional population and employment growth forecasts to align with new targets set forth by the 2017 Provincial Growth Plan Amendment.

Table 5-1: Secondary Study Area Population and Employment, 2011 and 2031

| Traffic Zone | Planning <br> Block | 2011 <br> Population | 2031 <br> Population | 2011 <br> Employment | 2031 <br> Employment |
| :--- | :--- | :---: | :---: | :---: | :---: |
| $2102^{*}$ | 27 | 110 | 26,360 | 30 | 2,150 |
| 2074 | 34 | 281 | 468 | 160 | 820 |
| 2077 | 34 | 11 | 9 | 2 | 3,089 |
| 2076 | 28 | 50 | 67 | 190 | 157 |
| 2050 | 35 | 94 | 27 | 51 | 758 |
| 2075 | 35 | 49 | 18 | 280 | 1,758 |
| 2103 | 21 | 75 | 72 | 27 | 52 |
| 2104 | 20 | 5,131 | 5,635 | 471 | 501 |
| 2137 | 13 | 767 | 1,144 | 133 | 107 |
| 2138 | 14 | 37 | 36 | 1 | 26 |
| TOTAL |  | $\mathbf{6 , 6 0 5}$ | $\mathbf{3 3 , 8 3 6}$ | $\mathbf{1 , 3 4 5}$ | $\mathbf{9 , 4 1 8}$ |

*Zone 2102 has been disaggregated into 4 zones in the EMME model
Source: NVNCTMP October 2019, York Region 45\% Intensification Scenario, Block 27 Secondary Plan
A map of the traffic zones in the study area is shown in Figure 5-3.
Figure 5-3 Traffic Zones within the Study Area


### 5.2 EMME Model Calibration

The EMME model includes a base year for the 2011 horizon year and a future horizon year of 2031. The 2011 model is compared against observed traffic volumes at locations across "screenlines" to understand the model's ability to replicate actual traffic patterns.

### 5.2.1 Calibration Methodology

The modelled link volumes from the EMME Model were compared to the observed turning movement counts based on the ratio of model to observed traffic and GEH statistic, which is an empirical formula named after its inventor, Geoffrey E. Havers who developed it in the 1970's.

The GEH statistic is able to address both absolute and relative difference between the modelled and observed volume. It avoids some pitfalls that occur when using simply the relative difference, primarily by allowing for greater variance between modelled and observed data at lower values, but requiring lesser variance at higher values.

The GEH statistic is calculated as:

$$
G E H=\sqrt{\frac{2(M-C)^{2}}{M+C}}
$$

Where $M$ is the hourly modelled volume and $C$ is the observed volume (count).
A GEH value less than 5 is considered a good match between the modelled and observed volume; A value between 5 and 10 is acceptable; and a value higher than 10 usually requires further attention for model calibration. Typically $80 \%$ to $85 \%$ GEH values that are less than 5 is considered as very close match between the modelled and observed volume.

Both GEH and model to observed traffic volume ratio are provided in the following Table 5-2 for east-west traffic and in Table 5-3 for north-south traffic.

Through an iterative process, modifications to the network assumptions were made to improve model calibration. Specifically, capacity assumptions on Kirby Road were reduced from 900 vehicles per hour per lane to 700 vehicles per hour per lane to be consistent with the capacity assumption for King-Vaughan Road. Even with this modification, traffic volumes on Kirby Road exceed observed by an absolute number of 150-260 vehicles.

It is noted that based on our judgment, the model appears to over-simulate traffic diversion using Kirby Road instead of other parallel roadways (such as Major Mackenzie Drive). However, because conditions along Kirby Road will change significantly in the future, no specific calibration adjustments are applied, and engineering judgment shall be applied when considering future volume projections.

Table 5-2: East-West Traffic Model to Observed Comparison

| East-West Traffic Screenline: | AM Peak Hour Volumes - Peak Direction WB |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| East of Jane Street | Existing | 2011 Model | Model / Observed | GEH |
| King-Vaughan Road | 400 | 600 | 1.50 | 9 |
| Kirby Road | 300 | 560 | 1.87 | 13 |
| Teston Road | 1,190 | 1,200 | 1.01 | 0 |
| Total | 1,890 | 2,360 | 1.25 | 10 |
| West of Keele Street |  |  |  |  |
| King-Vaughan Road | 410 | 600 | 1.46 | 8 |
| Kirby Road | 310 | 560 | 1.81 | 12 |
| Teston Road | 820 | 1,190 | 1.45 | 12 |
| Total | 1,540 | 2,350 | 1.53 | 18 |
| East of Keele Street |  |  |  |  |
| King-Vaughan Road | 610 | 700 | 1.15 | 4 |
| Kirby Road | 470 | 620 | 1.32 | 6 |
| Teston Road | 80 | 0 | 0.00 | 13 |
| Total | 1,160 | 1,320 | 1.14 | 5 |
| West of Dufferin Street |  |  |  |  |
| King-Vaughan Road | 620 | 700 | 1.13 | 3 |
| Kirby Road | 400 | 620 | 1.55 | 10 |
| Teston Road | 20 | 0 | 0.00 | 6 |
| Total | 1,040 | 1,320 | 1.27 | 8 |

Legend
Model / Observed within 25\%
GEH <= 10
Table 5-3: North-South Traffic Model to Observed Comparison

| North-South Traffic Screenline: <br> South of King-Vaughan Road | AM Peak Hour Volumes - Peak Direction SB |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Existing | 2011 Model | Model / Observed | GEH |
| Jane Street | 1,090 | 779 | 0.71 | 10 |
| Keele Street | 1,286 | 1,478 | 1.15 | 5 |
| Dufferin Street | 901 | 777 | 0.86 | 4 |
| Total | 3,277 | 3,034 | 0.93 | 4 |
| North of Kirby Road |  |  |  |  |
| Jane Street | 1,060 | 760 | 0.72 | 10 |
| Keele Street | 1,689 | 1,478 | 0.88 | 5 |
| Dufferin Street | 955 | 781 | 0.82 | 6 |
| Total | 3,704 | 3,019 | 0.82 | 12 |
| South of Kirby Road |  |  |  |  |
| Jane Street | 1,138 | 869 | 0.76 | 8 |
| Keele Street | 1,895 | 1,533 | 0.81 | 9 |
| Dufferin Street | 962 | 663 | 0.69 | 10 |
| Total | 3,995 | 3,065 | 0.77 | 16 |
| North of Teston Road |  |  |  |  |
| Jane Street | 1,023 | 869 | 0.85 | 5 |
| Keele Street | 1,610 | 2,099 | 1.30 | 11 |
| Dufferin Street | 1,017 | 840 | 0.83 | 6 |
| Total | 3,650 | 3,808 | 1.04 | 3 |

## Legend

Model / Observed within 25\%
GEH <= 10

## $5.3 \quad 2031$ Travel Demand Forecasting

The York Region travel demand forecasting model used for the NVNCTMP was utilized for this study. The model includes all Regional road and transit improvements by 2031 as per the York Region TMP, with the following exceptions:

- No GTA West Corridor Freeway
- No new freeway interchange at Kirby Road at Highway 400
- No new freeway interchange at $19^{\text {th }}$ Avenue at Highway 404

The decision to exclude these improvements is based firstly on an assumption that implementation of these improvements may not occur by 2031, and secondly because inclusion of these improvements will increase travel demand on Kirby Road. Thus the projected travel demand driving the need for Kirby Road improvements documented in this study can be considered a conservative estimate.

Key improvements which are included:

- Kirby GO station
- Kirby Road extension
- Teston Road missing link

As the planning for the Kirby GO station by Metrolinx and Kirby Road Extension has been advanced, it is reasonable to assume the implementation of these projects by 2031. While the Teston Road Individual Environmental Assessment is currently underway may or may not ultimately recommend the new roadway, it is anticipated that this roadway will decrease demand on Kirby Road, again leading to a conservative estimate of travel demand and thus bolstering the need and justification for the improvement.

### 5.3.1 Screenline Analysis

To assess the current level of traffic congestion on roadways throughout the study area, a link (road segment) and screenline volume-to-capacity analysis was conducted. The link volume describes the number of cars that pass through a certain segment of the network over a period of time and are collected through traffic counts in the field. These link volumes were divided by the capacity of the roadway to develop v/c ratios for each roadway link during the AM peak hour. Road network conditions at the midblock or link level were also assessed using the v/c ratios. The volume-to-capacity ratio reflects peak hour traffic demand measured against roadway capacity. A description of the $\mathrm{v} / \mathrm{c}$ ratios is provided in Table 5-4.

Table 5-4: Link V/C Ratios and Operating Condition

| V/C Ratio | Level of Service (LOS) | Operating Condition |
| :--- | :--- | :--- |
| Less than $\mathbf{0 . 8 5}$ | LOS A-C | Free-flow, very little to moderate delay |
| Between $\mathbf{0 . 8 5}$ and $\mathbf{0 . 9 9}$ | LOS D-E | Approaching or at capacity, users experience <br> delays and queuing |
| Greater than $\mathbf{1 . 0 0}$ | LOS F | Over capacity, severe delays, and queuing |

For a particular link, a v/c ratio of less than 0.85 represents free flow conditions in which little delay is experienced. Between 0.86 and 0.99 , as the link reaches capacity, a moderate to high amount of delay is experienced. Above 0.99 , the link is at capacity, and major delays and queuing are occurring consistently during the peak periods. The capacity of roadways within the study area are based upon the roadway type definitions from the York Region model and are a function of the existing roadway conditions including free-flow speed and density of access points.

A screenline capacity analysis was completed for Kirby Road and the two parallel arterial roads, King-Vaughan Road and Teston Road. Table 5-5 summarizes the 2031 screenline traffic growth (east-west), across four traffic screenlines - east of Jane Street, west and east of Keele Street, and west of Dufferin Street.

Table 5-5: Screenline Analysis

| Screenline: | AM Peak Hour Volumes |  | Capacity |  | V/C Ratio |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| East of Jane Street | Existin | 2031 <br> Model | Existing | $2031$ <br> Model | Existin | $2031$ <br> Model |
| King-Vaughan Road | 400 | 710 | 700 | 700 | 0.57 | 1.01 |
| Kirby Road | 300 | 640 | 700 | 700 | 0.43 | 0.91 |
| Teston Road | 1,190 | 1,900 | 1,800 | 1,800 | 0.66 | 1.06 |
| Total | 1,890 | 3,250 | 3,200 | 3,200 | 0.59 | 1.02 |
| West of Keele Street |  |  |  |  |  |  |
| King-Vaughan Road | 410 | 710 | 700 | 700 | 0.59 | 1.01 |
| Kirby Road | 310 | 630 | 700 | 700 | 0.44 | 0.90 |
| Teston Road | 820 | 1,660 | 1,800 | 1,800 | 0.46 | 0.92 |
| Total | 1,540 | 3,000 | 3,200 | 3,200 | 0.48 | 0.94 |
| East of Keele Street |  |  |  |  |  |  |
| King-Vaughan Road | 610 | 740 | 700 | 700 | 0.87 | 1.06 |
| Kirby Road | 470 | 600 | 700 | 700 | 0.67 | 0.86 |
| Teston Road | 80 | 1,620 | 400 | 1,800 | 0.20 | 0.90 |
| Total | 1,160 | 2,960 | 1,800 | 3,200 | 0.64 | 0.93 |
| West of Dufferin Street |  |  |  |  |  |  |
| King-Vaughan Road | 620 | 740 | 700 | 700 | 0.89 | 1.06 |
| Kirby Road | 400 | 670 | 700 | 700 | 0.57 | 0.96 |
| Teston Road | 20 | 1,620 | 400 | 1,800 | 0.05 | 0.90 |
| Total | 1,040 | 3,030 | 1,800 | 3,200 | 0.58 | 0.95 |

Based on projected demand by 2031 with the Kirby GO station and with the development of Blocks 27, 34, 35, and 41 in North Vaughan, and without any significant improvements to Kirby Road through the study area, the projected travel demand exceeds capacity East of Jane Street and is approaching capacity at the other three screenlines where users are experiencing delays and queuing.

### 5.3.2 Intersection Volumes

Once the model was refined, 2011 to 2031 growth (AM peak hour) were extracted from the refined model and applied to observed turning movement counts (TMCs) along Kirby Road. A two-lane cross-section (no widening for Kirby Road) was assumed in model runs that generated the growth rates.

Various adjustments were then made to observe traffic counts to account for the redistribution of traffic and balancing along Kirby Road. The observed turning movement distribution at Kirby Road and Dufferin Street was adjusted based on the EMME model forecastError! Reference source not found.. Although the peak direction (westbound) traffic is high, the model appears to be predicting more eastwest traffic versus north-south traffic through the study area, such that westbound traffic is high but southbound traffic is low. It is expected that changes to land use and the transportation network in the future will change travel patterns significantly such that major model changes for calibration are not required. It should be noted that the side street turn distribution was not changed, however, the distribution at the Kirby GO station access was compared to and based on Metrolinx TIS (shown in Figure 5-4). Figure 5-5 illustrates traffic volumes at key study area intersections. Figure 5-6 illustrates the intersection LOS at each of the intersections.

Figure 5-4: 2030 Total Traffic Volumes at Kirby GO Station


Kirby GO Station Traffic Impact Study Sketch 12b: 2030 Total Traffic Volumes, Metrolinx (2018)

Figure 5-5: Future Turning Movement Volumes


Figure 5-6: Future Intersection LOS Results


### 5.4 2031 Intersection Operations Analysis

Synchro/SimTraffic 9 was utilized to conduct a HCM and queue analysis at each intersection. A detailed assessment including level of service (LOS), delay, volume to capacity ratios (V/C), as well as the turn lanes queue and storage length analysis was conducted at each intersection for AM peak hour.

The traffic operational analysis results for the intersection along Kirby Road are summarized in Table 5-6. Critical delays (LOS E or F) and v/c ratios greater than 1.00 are highlighted. It should be noted that signal timing splits were optimized.

Detailed Synchro reports are provided in Appendix C.
Table 5-6: Synchro Results - Future Do Nothing Conditions

| Intersection | Approach/Movement |  | AM Peak Hour |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Delay (s) | LOS | v/c |
| Kirby Road at Jane Street (Signalized) | EB | EBLTR | 296.4 | F | 1.47 |
|  | WB | WBLTR | 285.8 | F | 1.43 |
|  | NB | NBLTR | 74.5 | E | 0.91 |
|  | SB | SBLTR | 187.8 | F | 1.27 |
|  | Overall Intersection |  | 214.3 | F | 1.38 |
| Kirby Road at Street 4 (Unsignalized) | EB | EBTR | 0.0 | - | 0.33 |
|  | WB | WBLT | 1.1 | A | 0.04 |
|  | NB | NBLR | 15.1 | C | 0.17 |
|  | Overall Intersection |  | 1.4 | A | 0.69 |
| Kirby Road at Street 5 (Unsignalized) | EB | EBTR | 0.0 | - | 0.36 |
|  | WB | WBLT | 0.3 | A | 0.01 |
|  | NB | NBLR | 42.6 | E | 0.77 |
|  | Overall Intersection |  | 8.5 | A | 0.52 |
| Kirby Road at Street 6 (Unsignalized) | EB | EBTR | 0.0 | - | 0.36 |
|  | WB | WBLT | 1.2 | A | 0.04 |
|  | NB | NBLR | 57.4 | F | 0.85 |
|  | Overall Intersection |  | 11.4 | B | 0.75 |
| Kirby Road at Kirby GO Access (Unsignalized) | EB | EBTR | 0.0 | - | 0.3 |
|  | WB | WBLT | 8.5 | A | 0.41 |
|  | NB | NBLR | Err | F | 3.79 |
|  | Overall Intersection |  | 2158.7 | F | 0.95 |
| Kirby Road at Keele Street (Signalized) | EB | EBLT | 176.1 | F | 1.24 |
|  |  | EBR | 30.3 | C | 0.27 |
|  | WB | WBL | 114.5 | F | 1.07 |
|  |  | WBTR | 49.6 | D | 0.85 |
|  | NB | NBLT/T | 22.0 | C | 2.83d |


| Intersection | Approach/Movement |  | AM Peak Hour |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Delay (s) | LOS | v/c |
|  |  | NBR | 12.7 | B | 0.08 |
|  | SB | SBLT/T | 143.5 | F | 1.25 |
|  |  | SBR | 12.7 | B | 0.08 |
|  | Overall Intersection |  | 101.0 | F | 1.27 |
| Kirby Road at Ravineview Drive (Unsignalized) | EB | EBTR | 39.4 | E | 0.91 |
|  | WB | WBL | 143.9 | F | 1.25 |
|  | SB | SBL | 11.8 | B | 0.25 |
|  | Overall Intersection |  | 92.9 | F | 0.89 |
| Kirby Road at Foot Hills Road (Unsignalized) | EB | EBTR | 39.7 | E | 0.92 |
|  | WB | WBLT | 99.1 | F | 1.14 |
|  | NB | NBLR | 11.3 | B | 0.14 |
|  | Overall Intersection |  | 70.1 | F | 0.67 |
| Kirby Road at Laurentian Boulevard (Unsignalized) | EB | EBTR | 0.0 | - | 0.36 |
|  | WB | WBLT | 0.3 | A | 0.01 |
|  | NB | NBLR | 17.2 | C | 0.29 |
|  | Overall Intersection |  | 1.5 | A | 0.59 |
| Kirby Road at Dufferin Street (Signalized) | EB | EBL | 20.0 | B | 0.21 |
|  |  | EBTR | 31.6 | C | 0.76 |
|  | WB | WBL | 357.9 | F | 1.67 |
|  |  | WBT | 28.4 | C | 0.72 |
|  |  | WBR | 19.1 | B | 0.27 |
|  | NB | NBL | 43.0 | D | 0.31 |
|  |  | NBTR | 50.0 | D | 0.49 |
|  | SB | SBL | 34.5 | C | 0.64 |
|  |  | SBTR | 137.5 | F | 1.16 |
|  | Overall Intersection |  | 83.1 | F | 1.48 |

Based on the intersection capacity analyses results presented in Table 6-2, the majority of signalized and unsignalized intersections within the study area are operating at overall LOS E or worse with some unsignalized intersections warranting a signal.

### 5.4.1 Keele Street Intersections Future Analysis

Future volumes were analyzed for the intersections of Keele Street at Vista Gate and Keele Street at Peak Point Boulevard. Based on the intersection capacity analyses using Synchro, Peak Point Boulevard is operating with an overall LOS of B (v/c = $0.88)$ after optimization.

### 5.5 Grade Separation and Kirby GO Station Access

In early 2016, the City initiated the Kirby GO Transit Hub Sub-Study as an extension of NVNCTMP and the Block 27 Secondary Plan. The purpose of the Kirby GO Transit Hub Sub-Study was to develop a vision, based on a robust planning rationale, which will direct future development of the transit hub and integration with the rest of Block 27 and surrounding areas. Key findings from this study were carried forward to the recommendations for the Kirby GO Station documented in NVNCTMP Appendix F. This includes the grade separation of Kirby Road at the Barrie GO Rail line and preliminary recommendations to accommodate a GO Station access at Kirby Road.

### 5.5.1 Grade Separation Need and Justification

It should also be noted that the all-day two way schedule of the Barrie GO line including 15 minute service will also increase the number of trains, from 12 today to 120 by 2031, which further warrants the recommendation.

To determine whether a grade separated crossing should be considered, an exposure index was also developed. The exposure index formula used is shown below:

Exposure Index = Total Number of Trains per Day x Daily Traffic Crossing Railway
The exposure index, taken from the "Inventory Manual: Municipal Roads and Railway Level Crossings, Ontario Ministry of Transportation", is traditionally used in Ontario as a baseline for determining if a grade separated crossing is warranted.

Based on the AADT and trains per day, the calculated train exposure index is not yet met today (If the exposure index exceeds 200,000, then a grade separation is warranted), but by 2031 and 2041 the exposure index is more than ten times as large as the warranted value for a grade separation. Exposure index calculations are provided in Table 5-7.

Table 5-7: Kirby Rail Exposure Indices

| Horizon Year | Trains per Day | AADT | Train Exposure Index |
| :---: | :---: | :---: | :---: |
| Existing | 12 | 4,600 | 55,200 |
| $\mathbf{2 0 3 1}$ | $120($ RER $)$ | 27,900 | $3,348,000$ |
| $\mathbf{2 0 4 1}$ | $120($ RER $)$ | 31,800 | $3,816,000$ |

### 5.5.2 Grade Separation Timing

As part of the NVNCTMP, it was recommended that the design and construction works for the grade separation of Kirby Road at the Barrie GO Rail line be advanced such that it is completed in time for the opening of the Kirby GO Station, development within Block 27, and a Highway 400 interchange. The recommendation was based on benefits such as safety, delay elimination, minimization of throwaway construction costs, avoiding disruption of GO station access, minimization of disruption to GO train services, and minimization traffic disruption.

### 5.5.3 Grading Requirements

Grading requirements for two Kirby Grade Separation options at the Barrie GO Rail line, firstly a road overpass and secondly a road underpass, were also considered in the NVNCTMP study. The grading impacts of the two options are illustrated in
Figure 5-7.
Figure 5-7: Grading Impacts of Overpass and Underpass


The Kirby Road Underpass was recommended by the study based on considerations such as issues with the overpass options including the length of a bridge structure and grading requirements west of the rail tracks, and also by considering the urban design benefits of an underpass structure.

### 5.5.4 Kirby Road Access Constraints

As seen in Figure 5-7, there is limited space between the Barrie GO Rail Line and Keele Street - approximately 300 m . With grading requirements of either an overpass or an underpass, there are significant constraints to the provision of an intersection with Kirby Road. With the potential for Kirby road to be uploaded to York Region, design should follow York Region guidelines. As York Region's Access Guideline for Regional Roads, Commuter Corridors recommended a minimum signalized intersection spacing of 215 m , this potential access to the Kirby GO Station will either need to be unsignalized, or located within the grading area for the grade separation which would require significant earthworks or retaining wall infrastructure to accommodate. Solutions for this intersection will need to be explored further in this study.

### 5.6 Future Active Transportation Conditions

As noted in Section 2.3.4, the City's Pedestrian and Bicycle Master Plan (PBMP) Update is developing a visible and connected pedestrian and cycling network in Vaughan that integrates, enhances and expands the existing on- and off-road pedestrian and cycling facilities. While the PBMP did not identify cycling facilities on Kirby Road and the proposed Vaughan Super Trail which runs parallel to Kirby Road about 400 m to the south, the City of Vaughan policy is to explore active transportation facilities on all arterial roads. This approach is further supported by the YRTMP which identifies Kirby Road as a local cycling route of regional significance (Section 2.2.2). With sidewalks currently on the south side of Kirby Road between Keele Street and Dufferin Street, sidewalks and cycling facilities will be considered across the entire study corridor in the next phase of the study.

### 5.7 Future Transit Needs

With York Region's plans for Frequent Transit Network which envisions 15 minute service or better on Kirby Road (Section 2.2.2), improvements are required to the roadway to support vehicular movements as well as active transportation access to potential stop locations in order to support this vision.

### 5.8 Goods Movement

Improvements to Kirby Road are required to support the Regional vision for Kirby Road as a strategic Goods Movement corridor (Section 2.2.2). Preliminary design of the roadway should consider this vision and the potential to upload the roadway to York Region.

## 6 Conclusions and Next Steps

The transportation and traffic study report assesses the existing traffic conditions at the key intersections along Kirby Road between Jane Street and Dufferin Street; estimates and examines the traffic growth and expected future traffic volumes; analyzes the traffic impacts from the introduction of the projected traffic volumes; and finally proposes infrastructure improvements to address the deficiencies and accommodate the future traffic growth for the horizon year of 2031.

Base on the analysis results, this study confirms the following improvements recommended by NVNCTMP, proposed to accommodate future traffic growth on Kirby Road within the Study Area:

- Widening of Kirby Road to a four (4) lane cross-section as planned;
- The grade separation of the Barrie GO Rail line at Kirby Road; and
- The elimination of the jog at the intersection of Kirby Road and Jane Street

The recommendations are based on the growth in travel demand along Kirby due to planned growth in North Vaughan and Block 27 in particular, support Kirby GO Station investment with multimodal access, support regional plans for Frequent Transit service, and regional plans for a strategic goods movement corridor. Rail grade separation is also required to minimize conflicts with all-day two-way GO rail service. The next steps in the study will include detailed recommendations within the study area including lane configurations and active transportation facilities to support the area and the future Kirby GO access.

## Appendix A. Turning Movement Counts and Signal Timing Plan

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

## Project \#19326 - City of Vaughan

## Intersection Count Report

| Intersection: | Kirby Rd \& Jane St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |
| Site Code: | 1932600001 |
| Count Categories: | Cars, Trucks, Buses, Bicycles, Pedestrians |
| Count Period: | 07:00-10:00, 14:00-19:00 |
| Weather: | Clear |

# Traffic Count Map 

Ontario Traffic Inc.
Intersection:
Municipality: Vaughan
Count Date: $\quad$ Oct 02, 2019


## Traffic Count Summary



## Ontario Traffic Inc.

TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection:<br>Municipality:<br>Count Date:<br>Kirby Rd \& Jane St<br>Vaughan<br>Oct 02, 2019

## Jane St - Traffic Summary

| Hour | North Approach Totals |  |  |  |  |  | South Approach Totals |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  |
|  | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| 07:00-08:00 | 8 | 795 | 94 | 0 | 897 | 0 | 6 | 155 | 37 | 0 | 198 | 0 |
| 08:00-09:00 | 10 | 737 | 144 | 0 | 891 | 0 | 14 | 205 | 51 | 0 | 270 | 0 |
| 09:00-10:00 | 14 | 904 | 89 | 0 | 1007 | 0 | 10 | 189 | 48 | 0 | 247 | 0 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 15 | 191 | 35 | 1 | 242 | 0 | 15 | 343 | 77 | 0 | 435 | 0 |
| 15:00-16:00 | 15 | 238 | 83 | 0 | 336 | 0 | 19 | 585 | 124 | 0 | 728 | 0 |
| 16:00-17:00 | 7 | 234 | 95 | 0 | 336 | 0 | 20 | 589 | 116 | 0 | 725 | 0 |
| 17:00-18:00 | 19 | 245 | 110 | 0 | 374 | 0 | 13 | 721 | 150 | 0 | 884 | 0 |
| 18:00-19:00 | 8 | 174 | 48 | 1 | 231 | 0 | 9 | 452 | 152 | 0 | 613 | 0 |
| GRAND TOTAL | 96 | 3518 | 698 | 2 | 4314 | 0 | 106 | 3239 | 755 | 0 | 4100 | 0 |

# Traffic Count Summary 



## Ontario Traffic Inc.

TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection:<br>Municipality:<br>Count Date:<br>Kirby Rd \& Jane St<br>Vaughan<br>Oct 02, 2019

## Kirby Rd - Traffic Summary

## East Approach Totals

Includes Cars, Trucks, Buses, Bicycles

West Approach Totals
Includes Cars, Trucks, Buses, Bicycles

| Hour | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00-08:00 | 127 | 161 | 9 | 0 | 297 | 0 | 77 | 133 | 62 | 0 | 272 | 0 |
| 08:00-09:00 | 163 | 200 | 11 | 0 | 374 | 0 | 69 | 187 | 34 | 0 | 290 | 0 |
| 09:00-10:00 | 92 | 90 | 13 | 1 | 196 | 0 | 16 | 52 | 19 | 0 | 87 | 0 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 60 | 62 | 24 | 0 | 146 | 0 | 24 | 71 | 7 | 0 | 102 | 0 |
| 15:00-16:00 | 65 | 113 | 29 | 0 | 207 | 0 | 65 | 102 | 6 | 0 | 173 | 0 |
| 16:00-17:00 | 84 | 134 | 26 | 0 | 244 | 0 | 98 | 139 | 9 | 0 | 246 | 0 |
| 17:00-18:00 | 70 | 141 | 30 | 0 | 241 | 0 | 85 | 148 | 3 | 0 | 236 | 0 |
| 18:00-19:00 | 63 | 86 | 18 | 0 | 167 | 0 | 47 | 122 | 6 | 0 | 175 | 0 |
| GRAND TOTAL | 724 | 987 | 160 | 1 | 1872 | 0 | 481 | 954 | 146 | 0 | 1581 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

Intersection: Kirby Rd \& Jane St
Municipality: Vaughan
Count Date: $\quad$ Oct 02, 2019

North Approach - Jane St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{1}$ |  | Total | 4 | + | $\stackrel{\rightharpoonup}{1}$ |  | Total | 4 | + |  | 2 | Total | 4 | + | $\rightarrow$ | 7 | Total |  |
| 07:00 | 2 | 200 | 24 | 0 | 226 | 1 | 18 | 1 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 2 | 173 | 19 | 0 | 194 | 0 | 25 | 3 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 3 | 163 | 24 | 0 | 190 | 0 | 21 | 3 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 181 | 20 | 0 | 201 | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 1 | 169 | 20 | 0 | 190 | 1 | 15 | 5 | 0 | 21 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 2 | 168 | 30 | 0 | 200 | 0 | 16 | 2 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 2 | 179 | 39 | 0 | 220 | 1 | 20 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 2 | 153 | 43 | 0 | 198 | 1 | 15 | 3 | 0 | 19 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 3 | 203 | 32 | 0 | 238 | 1 | 21 | 2 | 0 | 24 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 3 | 204 | 17 | 0 | 224 | 0 | 24 | 3 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 3 | 217 | 21 | 0 | 241 | 0 | 27 | 1 | 0 | 28 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 3 | 174 | 11 | 0 | 188 | 1 | 31 | 1 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 26 | 2184 | 300 | 0 | 2510 | 6 | 247 | 24 | 0 | 277 | 0 | 5 | 3 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

Tnaffic womitonime * stanicts a proovers

Intersection:
Municipality:
Count Date:

Kirby Rd \& Jane St
Vaughan
Oct 02, 2019

North Approach - Jane St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | 1 | ? | Total | 4 |  |  |  | Total | 4 | + |  |  | Total | 4 | 1 |  |  | Total |  |
| 14:00 | 2 | 47 | 8 | 0 | 57 | 0 | 6 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 38 | 4 | 0 | 42 | 1 | 5 | 2 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 7 | 40 | 7 | 1 | 55 | 2 | 8 | 3 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 3 | 39 | 9 | 0 | 51 | 0 | 8 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 2 | 49 | 11 | 0 | 62 | 0 | 2 | 3 | 0 | 5 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 1 | 58 | 22 | 0 | 81 | 2 | 4 | 4 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 6 | 58 | 20 | 0 | 84 | 1 | 2 | 1 | 0 | 4 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 2 | 56 | 16 | 0 | 74 | 1 | 7 | 3 | 0 | 11 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 1 | 48 | 16 | 0 | 65 | 0 | 6 | 3 | 0 | 9 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 1 | 75 | 23 | 0 | 99 | 0 | 11 | 8 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 2 | 33 | 13 | 0 | 48 | 0 | 3 | 5 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 2 | 51 | 21 | 0 | 74 | 0 | 6 | 4 | 0 | 10 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 3 | 51 | 27 | 0 | 81 | 3 | 8 | 2 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 3 | 52 | 27 | 0 | 82 | 1 | 8 | 2 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 4 | 62 | 31 | 0 | 97 | 0 | 4 | 5 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 4 | 53 | 14 | 0 | 71 | 1 | 7 | 2 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 1 | 38 | 14 | 1 | 54 | 0 | 2 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 2 | 47 | 15 | 0 | 64 | 0 | 6 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 1 | 43 | 7 | 0 | 51 | 0 | 4 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 3 | 32 | 8 | 0 | 43 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 50 | 970 | 313 | 2 | 1335 | 13 | 109 | 53 | 0 | 175 | 1 | 3 | 5 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | $\begin{array}{\|l\|} \hline \text { Total } \\ \text { Peds } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 今 | $\stackrel{+}{+}$ |  | Total | 4 | $\uparrow$ | $\Rightarrow$ |  | Total | - |  |  |  |  | 4 |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 76 | 3154 | 613 | 2 | 3845 | 19 | 356 | 77 | 0 | 452 | 1 | 8 | 8 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

Intersection: Kirby Rd \& Jane St
Municipality: Vaughan
Count Date: $\quad$ Oct 02, 2019

South Approach - Jane St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\xrightarrow{+}$ |  | Total | 4 | + | $\stackrel{\rightharpoonup}{1}$ |  | Total | 4 | + |  | 1 | Total | 4 | + | $\underline{H}$ | 7 | Total |  |
| 07:00 | 0 | 13 | 12 | 0 | 25 | 0 | 7 | 2 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 1 | 41 | 10 | 0 | 52 | 1 | 5 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 2 | 42 | 5 | 0 | 49 | 2 | 6 | 0 | 0 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 32 | 5 | 0 | 37 | 0 | 6 | 2 | 0 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 4 | 38 | 13 | 0 | 55 | 1 | 4 | 3 | 0 | 8 | 1 | 1 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 3 | 47 | 4 | 0 | 54 | 0 | 13 | 5 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 1 | 39 | 9 | 0 | 49 | 0 | 7 | 4 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 4 | 48 | 8 | 0 | 60 | 0 | 7 | 3 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 2 | 40 | 4 | 0 | 46 | 0 | 6 | 6 | 0 | 12 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 4 | 40 | 11 | 0 | 55 | 1 | 11 | 0 | 0 | 12 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 2 | 31 | 12 | 0 | 45 | 0 | 10 | 2 | 0 | 12 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 0 | 40 | 10 | 0 | 50 | 1 | 7 | 3 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| SUBTOTAL | 23 | 451 | 103 | 0 | 577 | 6 | 89 | 31 | 0 | 126 | 1 | 8 | 2 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \& SERVICES A PRODUCTS

Intersection: Kirby Rd \& Jane St
Municipality: Vaughan
Count Date: $\quad$ Oct 02,2019

## South Approach - Jane St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{1}$ | $\bigcirc$ | Total | 4 | 1 |  |  | Total | 4 | 1 |  |  | Total | 4 |  |  |  |
| 14:00 | 2 | 63 | 18 | 0 | 83 | 0 | 15 | 6 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 2 | 75 | 5 | 0 | 82 | 0 | 14 | 5 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 5 | 72 | 13 | 0 | 90 | 0 | 6 | 7 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 5 | 86 | 19 | 0 | 110 | 1 | 11 | 4 | 0 | 16 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 15:00 | 3 | 114 | 29 | 0 | 146 | 0 | 18 | 5 | 0 | 23 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 |
| 15:15 | 1 | 108 | 32 | 0 | 141 | 1 | 21 | 7 | 0 | 29 | 0 | 1 | , | 0 | 1 | 0 | 0 | 0 | 0 |
| 15:30 | 6 | 138 | 22 | 0 | 166 | 3 | 24 | 4 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 3 | 139 | 23 | 0 | 165 | 2 | 20 | 1 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 3 | 95 | 28 | 0 | 126 | 0 | 13 | 4 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 4 | 160 | 33 | 0 | 197 | 1 | 17 | 6 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 138 | 19 | 0 | 157 | 0 | 23 | 3 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 11 | 127 | 22 | 0 | 160 | 1 | 16 | 1 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 4 | 143 | 44 | 0 | 191 |  | 18 | 2 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 1 | 145 | 22 | 0 | 168 | 0 | 9 | 8 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 3 | 178 | 22 | 0 | 203 | 0 | 17 | 6 | 0 | 23 | 0 | - | 0 | 0 | 0 | 0 |  | 0 | 0 |
| 17:45 | 2 | 188 | 40 | 0 | 230 | 2 | 22 | 6 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 1 | 133 | 35 | 0 | 169 | 0 | 18 | 10 | 0 | 28 | 0 | , | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 3 | 115 | 26 | 0 | 144 | 0 | 8 | 8 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 2 | 92 | 34 | 0 | 128 | 0 | 5 | 7 | 0 | 12 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 3 | 79 | 25 | 0 | 107 | 0 | 2 | 7 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 64 | 2388 | 511 | 0 | 2963 | 12 | 297 | 107 | 0 | 416 | 0 | 4 | 1 | 0 | 5 | 0 | 1 | 0 | 0 |


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | $\begin{array}{\|l\|l\|} \hline \text { Total } \\ \text { Peds } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | - | $\stackrel{\rightharpoonup}{ }$ |  | Total | 4 | - | $\stackrel{\rightharpoonup}{+}$ |  | Total | 4 | - |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 87 | 2839 | 614 | 0 | 3540 | 18 | 386 | 138 | 0 | 542 | 1 | 12 | 3 | 0 | 16 | 0 | 2 | 0 | 0 | 2 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

Intersection: Kirby Rd \& Jane St
Municipality: Vaughan
Count Date: $\quad$ Oct 02, 2019

East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{\text { P }}$ |  | Total | 4 | + |  |  | Total | 4 | + | $\stackrel{\rightharpoonup}{1}$ | - | Total | 4 |  |  | 2 | Total |  |
| 07:00 | 15 | 27 | 2 | 0 | 44 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 23 | 41 | 2 | 0 | 66 | 3 | 5 | 1 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 33 | 49 | 3 | 0 | 85 | 8 | 6 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 41 | 25 | 1 | 0 | 67 | 3 | 1 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 51 | 54 | 1 | 0 | 106 | 5 | 4 | 0 | 0 | 9 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 35 | 46 | 5 | 0 | 86 | 7 | 2 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 27 | 38 | 2 | 0 | 67 | 1 | 6 | 1 | 0 | 8 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 32 | 40 | 1 | 0 | 73 | 4 | 7 | 1 | 0 | 12 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 29 | 24 | 1 | 0 | 54 | 3 | 4 | 1 | 0 | 8 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 17 | 26 | 1 | 0 | 44 | 5 | 3 | 2 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 13 | 12 | 3 | 1 | 29 | 2 | 4 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 16 | 11 | 4 | 0 | 31 | 6 | 6 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 332 | 393 | 26 | 1 | 752 | 48 | 52 | 7 | 0 | 107 | 2 | 6 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \& SERVICES A PRODUCTS

Intersection:
Municipality:
Count Date:

Kirby Rd \& Jane St
Vaughan
Oct 02, 2019

East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{1}$ | \% | Total | 4 | + | 1 |  | Total | 4 | + | + | 2 | Total | 4 | 1 |  |  |  |
| 14:00 | 14 | 12 | 2 | 0 | 28 | 4 | 2 | 2 | 0 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 13 | 14 | 6 | 0 | 33 | 4 | 1 | 2 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 12 | 15 | 4 | 0 | 31 | 3 | 1 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 7 | 15 | 4 | 0 | 26 | 3 | 1 | 3 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 9 | 23 | 5 | 0 | 37 | 2 | 3 | 1 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 13 | 18 | 8 | 0 | 39 | 3 | 6 | 1 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 10 | 23 | 2 | 0 | 35 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 24 | 29 | 7 | 0 | 60 | 3 | 3 | 5 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 12 | 28 | 7 | 0 | 47 | 5 | 4 | 2 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 29 | 10 | 2 | 0 | 41 | 6 | 3 | 1 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 20 | 45 | 6 | 0 | 71 | 1 | 8 | 2 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 10 | 34 | 6 | 0 | 50 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 18 | 42 | 6 | 0 | 66 | 6 | 4 | 1 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 16 | 35 | 6 | 0 | 57 | 2 | 6 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 9 | 32 | 10 | 0 | 51 | 5 | 2 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 12 | 19 | 4 | 0 | 35 | 2 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 17 | 25 | 6 | 0 | 48 | 1 | 2 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 15 | 21 | 4 | 0 | 40 | 2 | 3 | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 11 | 15 | 2 | 0 | 28 | 3 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 10 | 19 | 3 | 0 | 32 | 4 | 0 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 281 | 474 | 100 | 0 | 855 | 61 | 56 | 27 | 0 | 144 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |


|  | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | 4 | 1 | $\stackrel{\rightharpoonup}{\text { Pr }}$ |  | Total | 4 | - |  |  | Total | 4 | ث |  |  | otal |  | $1$ |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 613 | 867 | 126 | 1 | 1607 | 109 | 108 | 34 | 0 | 251 | 2 | 12 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

Intersection: Kirby Rd \& Jane St
Municipality: Vaughan
Count Date: $\quad$ Oct 02, 2019

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{1}$ |  | Total | 4 | + | $\stackrel{\rightharpoonup}{*}$ | \% | Total | 4 | 1 | $\stackrel{+}{4}$ | マ | Total | 4 | - |  | \% | Total |  |
| 07:00 | 10 | 29 | 7 | 0 | 46 | 4 | 3 | 5 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 18 | 26 | 9 | 0 | 53 | 3 | 2 | 5 | 0 | 10 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 17 | 28 | 12 | 0 | 57 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 21 | 34 | 23 | 0 | 78 | 2 | 4 | 1 | 0 | 7 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 20 | 37 | 20 | 0 | 77 | 3 | 3 | 1 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 15 | 58 | 8 | 0 | 81 | 3 | 3 | 0 | 0 | 6 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 15 | 37 | 3 | 0 | 55 | 2 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 8 | 39 | 2 | 0 | 49 | 2 | 3 | 0 | 0 | 5 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 2 | 17 | 4 | 0 | 23 | 0 | 0 | 3 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 5 | 10 | 5 | 0 | 20 | 1 | 2 | 1 | 0 | 4 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 3 | 8 | 4 | 0 | 15 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 2 | 7 | 2 | 0 | 11 | 2 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 136 | 330 | 99 | 0 | 565 | 24 | 32 | 16 | 0 |  | 2 | 10 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \&ERVICES A PRODUCTS

Intersection:
Municipality:
Count Date:

Kirby Rd \& Jane St
Vaughan
Oct 02, 2019

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{+}$ | ? | Total | 4 | + |  |  | Total | 4 | 1 | $\stackrel{+}{+}$ |  | Total | 4 | 1 |  |  | Total |  |
| 14:00 | 6 | 11 | 2 | 0 | 19 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 2 | 11 | 2 | 0 | 15 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 7 | 10 | 0 | 0 | 17 | 2 | 5 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 7 | 23 | 3 | 0 | 33 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 12 | 16 | 2 | 0 | 30 | 0 | 4 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 11 | 22 | 1 | 0 | 34 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 15 | 20 | 1 | 0 | 36 | 5 | 2 | 1 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 21 | 32 | 1 | 0 | 54 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 19 | 25 | 2 | 0 | 46 | 4 | 2 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 22 | 29 | 1 | 0 | 52 | 3 | 8 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 18 | 32 | 2 | 0 | 52 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 29 | 32 | 1 | 0 | 62 | 3 | 8 | 2 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 18 | 28 | 0 | 0 | 46 | 3 | 6 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 16 | 29 | 1 | 0 | 46 | 2 | 8 | 1 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| 17:30 | 26 | 40 | 1 | 0 | 67 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 16 | 27 | 0 | 0 | 43 | 2 | 6 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 22 | 27 | 1 | 0 | 50 | 1 | 1 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 8 | 26 | 0 | 0 | 34 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 9 | 24 | 3 | 0 | 36 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 3 | 38 | 2 | 0 | 43 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 287 | 502 | 26 | 0 | 815 | 30 | 76 | 5 | 0 | 111 | 0 | 4 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 2 | 0 |



## Peak Hour Diagram

## Specified Period

| From： | 07：00：00 | From： | $08: 00: 00$ |
| :--- | :--- | :--- | :--- |
| To： | $10: 00: 00$ | To： | $09: 00: 00$ |

One Hour Peak

To：
09：00：00

Intersection：
Site ID：
Count Date：

Kirby Rd \＆Jane St
1932600001
Oct 02， 2019

## Weather conditions：



Peds： 0
Kirby Rd


|  | West Approach |  |  |
| :---: | :---: | :---: | :---: |
|  | Out | In | Total |
| 日 | 262 | 322 | 584 |
| 02 | 22 | 30 | 52 |
| 目 | 6 | 6 | 12 |
| \％ | 0 | 0 | 0 |
|  | 290 | 358 | 648 |



Peds： 0


Jane St

East Approach


Kirby Rd

|  | Totals | 日 |  | 匃 | \％${ }^{\text {d }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| C | 0 | 0 | 0 | 0 | 0 |
| t | 11 | 9 | 2 | 0 | 0 |
| $\leftarrow$ | 200 | 178 | 19 | 3 | 0 |
| $F$ | 163 | 145 | 17 | 1 | 0 |


| South Approach |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Out | In | Total |
| 日 | 218 | 847 | 1065 |
|  | 47 | 84 | 131 |
| 里 | 5 | 3 | 8 |
| \％ | 0 | 0 | 0 |
|  | 270 | 934 | 1204 |

固－Buses
बోb－Bicycles

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Jane St |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | $07: 00-10: 00$ |


| Peak Hour Data (08:00-09:00) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | North Approach Jane St |  |  |  |  |  | South Approach Jane St |  |  |  |  |  | East Approach Kirby Rd |  |  |  |  |  | West Approach Kirby Rd |  |  |  |  |  | Total Vehicl es |
| Start Time | $\cdots$ | $\uparrow$ | - | ? |  | Total |  | - | $\stackrel{ }{ }$ | V | Peds | Total |  | ¢ |  | , | Peds | Total |  | - |  | ? | Peds | Total |  |
| 08:00 | 2 | 185 | 26 | 0 | 0 | 213 | 6 | 43 | 18 | 0 | 0 | 67 | 56 | 60 | 1 | 0 | 0 | 117 | 23 | 41 | 21 | 0 | 0 | 85 | 482 |
| 08:15 | 2 | 184 | 32 | 0 | 0 | 218 | 3 | 60 | 9 | 0 | 0 | 72 | 42 | 48 | 5 | 0 | 0 | 95 | 19 | 65 | 8 | 0 | 0 | 92 | 477 |
| 08:30 | 3 | 199 | 39 | 0 | 0 | 241 | 1 | 46 | 13 | 0 | 0 | 60 | 29 | 44 | 3 | 0 | 0 | 76 | 17 | 39 | 3 | 0 | 0 | 59 | 436 |
| 08:45 | 3 | 169 | 47 | 0 | 0 | 219 | 4 | 56 | 11 | 0 | 0 | 71 | 36 | 48 | 2 | 0 | 0 | 86 | 10 | 42 | 2 | 0 | 0 | 54 | 430 |
| Grand <br> Total | 10 | 737 | 144 | 0 | 0 | 891 | 14 | 205 | 51 | 0 | 0 | 270 | 163 | 200 | 11 | 0 | 0 | 374 | 69 | 187 | 34 | 0 | 0 | 290 | 1825 |
| Approach | 1.1 | 82.7 | 16.2 | 0 |  | - | 5.2 | 75.9 | 18.9 | 0 |  | - | 43.6 | 53.5 | 2.9 | 0 |  | - | 23.8 | 64.5 | 11.7 | 0 |  | - |  |
| Totals \% | 0.5 | 40.4 | 7.9 | 0 |  | 48.8 | 0.8 | 11.2 | 2.8 | 0 |  | 14.8 | 8.9 | 11 | 0.6 | 0 |  | 20.5 | 3.8 | 10.2 | 1.9 | 0 |  | 15.9 |  |
| PHF | 0.83 | 0.93 | 0.77 | 0 |  | 0.92 | 0.58 | 0.85 | 0.71 | 0 |  | 0.94 | 0.73 | 0.83 | 0.55 | 0 |  | 0.8 | 0.75 | 0.72 | 0.4 | 0 |  | 0.79 | 0.95 |
| Cars | 7 | 669 | 132 | 0 |  | 808 | 12 | 172 | 34 | 0 |  | 218 | 145 | 178 | 9 | 0 |  | 332 | 58 | 171 | 33 | 0 |  | 262 | 1620 |
| \% Cars | 70 | 90.8 | 91.7 | 0 |  | 90.7 | 85.7 | 83.9 | 66.7 | 0 |  | 80.7 | 89 | 89 | 81.8 | 0 |  | 88.8 | 84.1 | 91.4 | 97.1 | 0 |  | 90.3 | 88.8 |
| Trucks | 3 | 66 | 10 | 0 |  | 79 | 1 | 31 | 15 | 0 |  | 47 | 17 | 19 | 2 | 0 |  | 38 | 10 | 11 | 1 | 0 |  | 22 | 186 |
| \% Trucks | 30 | 9 | 6.9 | 0 |  | 8.9 | 7.1 | 15.1 | 29.4 | 0 |  | 17.4 | 10.4 | 9.5 | 18.2 | 0 |  | 10.2 | 14.5 | 5.9 | 2.9 | 0 |  | 7.6 | 10.2 |
| Buses | 0 | 2 | 2 | 0 |  | 4 | 1 | 2 | 2 | 0 |  | 5 | 1 | 3 | 0 | 0 |  | 4 | 1 | 5 | 0 | 0 |  | 6 | 19 |
| \% Buses | 0 | 0.3 | 1.4 | 0 |  | 0.4 | 7.1 | 1 | 3.9 | 0 |  | 1.9 | 0.6 | 1.5 | 0 | 0 |  | 1.1 | 1.4 | 2.7 | 0 | 0 |  | 2.1 | 1 |
| Bicycles | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 |
| \% Bicycles | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 |
| Peds |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - | 0 |
| \% Peds |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |

## Peak Hour Diagram

## Specified Period

| From： | $14: 00: 00$ | From： | $17: 00: 00$ |
| :--- | :--- | :--- | :--- |
| To： | $19: 00: 00$ | To： | $18: 00: 00$ |

One Hour Peak
From：
18：00：00

Intersection：
Site ID：
Count Date：

Kirby Rd \＆Jane St
1932600001
Oct 02， 2019

## Weather conditions：

＊＊Signalized Intersection＊＊
Major Road：Jane St runs N／S


Peds： 0
Kirby Rd


|  | West Approach |  |  |
| :---: | :---: | :---: | :---: |
|  | Out | In | Total |
| 回 | 202 | 237 | 439 |
| 02 | 31 | 26 | 57 |
| 包 | 1 | 1 | 2 |
| \％ | 2 | 0 | 2 |
|  | 236 | 264 | 500 |



\[

\]

Jane St

East Approach


Peds： 0
Kirby Rd

| South Approach |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Out | In | Total |
| － | 792 | 275 | 1067 |
| 0. | 91 | 43 | 134 |
| 包 | 0 | 0 | 0 |
| －${ }^{\text {b }}$ | 1 | 0 | 1 |
|  | 884 | 318 | 1202 |

日－Cars
Toon－Trucks
－Buses
Gో－Bicycles

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Jane St |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | $14: 00-19: 00$ |


| Peak Hour Data (17:00-18:00) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | North Approach Jane St |  |  |  |  |  | South Approach Jane St |  |  |  |  |  | East Approach Kirby Rd |  |  |  |  |  | West Approach Kirby Rd |  |  |  |  |  | Total Vehicl es |
| Start Time |  |  | $\stackrel{ }{ }$ |  |  | Total |  |  | $\Gamma$ | $?$ | Peds | Total |  | $\uparrow$ | $\Gamma$ | ? | Peds | Total |  | - | $\stackrel{\rightharpoonup}{r}$ | $?$ | Peds | Total |  |
| 17:00 | 6 | 59 | 29 | 0 | 0 | 94 | 5 | 161 | 46 | 0 | 0 | 212 | 24 | 46 | 7 | 0 | 0 | 77 | 21 | 35 | 0 | 0 | 0 | 56 | 439 |
| 17:15 | 4 | 60 | 29 | 0 | 0 | 93 | 1 | 154 | 30 | 0 | 0 | 185 | 18 | 41 | 7 | 0 | 0 | 66 | 20 | 37 | 2 | 0 | 0 | 59 | 403 |
| 17:30 | 4 | 66 | 36 | 0 | 0 | 106 | 3 | 196 | 28 | 0 | 0 | 227 | 14 | 34 | 12 | 0 | 0 | 60 | 26 | 43 | 1 | 0 | 0 | 70 | 463 |
| 17:45 | 5 | 60 | 16 | 0 | 0 | 81 | 4 | 210 | 46 | 0 | 0 | 260 | 14 | 20 | 4 | 0 | 0 | 38 | 18 | 33 | 0 | 0 | 0 | 51 | 430 |
| Grand | 19 | 245 | 110 | 0 | 0 | 374 | 13 | 721 | 150 | 0 | 0 | 884 | 70 | 141 | 30 | 0 | 0 | 241 | 85 | 148 | 3 | 0 | 0 | 236 | 1735 |
| $\begin{gathered} \text { Approach } \\ \% \end{gathered}$ | 5.1 | 65.5 | 29.4 | 0 |  | - | 1.5 | 81.6 | 17 | 0 |  | - | 29 | 58.5 | 12.4 | 0 |  | - | 36 | 62.7 | 1.3 | 0 |  | - |  |
| Totals \% | 1.1 | 14.1 | 6.3 | 0 |  | 21.6 | 0.7 | 41.6 | 8.6 | 0 |  | 51 | 4 | 8.1 | 1.7 | 0 |  | 13.9 | 4.9 | 8.5 | 0.2 | 0 |  | 13.6 |  |
| PHF | 0.79 | 0.93 | 0.76 | 0 |  | 0.88 | 0.65 | 0.86 | 0.82 | 0 |  | 0.85 | 0.73 | 0.77 | 0.63 | 0 |  | 0.78 | 0.82 | 0.86 | 0.38 | 0 |  | 0.84 | 0.94 |
| Cars | 14 | 218 | 99 | 0 |  | 331 | 10 | 654 | 128 | 0 |  | 792 | 55 | 128 | 26 | 0 |  | 209 | 76 | 124 | 2 | 0 |  | 202 | 1534 |
| \% Cars | 73.7 | 89 | 90 | 0 |  | 88.5 | 76.9 | 90.7 | 85.3 | 0 |  | 89.6 | 78.6 | 90.8 | 86.7 | 0 |  | 86.7 | 89.4 | 83.8 | 66.7 | 0 |  | 85.6 | 88.4 |
| Trucks | 5 | 27 | 11 | 0 |  | 43 | 3 | 66 | 22 | 0 |  | 91 | 15 | 12 | 4 | 0 |  | 31 | 7 | 23 | 1 | 0 |  | 31 | 196 |
| \% Trucks | 26.3 | 11 | 10 | 0 |  | 11.5 | 23.1 | 9.2 | 14.7 | 0 |  | 10.3 | 21.4 | 8.5 | 13.3 | 0 |  | 12.9 | 8.2 | 15.5 | 33.3 | 0 |  | 13.1 | 11.3 |
| Buses | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 1 | 0 | 0 |  | 1 | 0 | 1 | 0 | 0 |  | 1 | 2 |
| \% Buses | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0.7 | 0 | 0 |  | 0.4 | 0 | 0.7 | 0 | 0 |  | 0.4 | 0.1 |
| Bicycles | 0 | 0 | 0 | 0 |  | 0 | 0 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 |  | 0 | 2 | 0 | 0 | 0 |  | 2 | 3 |
| \% Bicycles | 0 | 0 | 0 | 0 |  | 0 | 0 | 0.1 | 0 | 0 |  | 0.1 | 0 | 0 | 0 | 0 |  | 0 | 2.4 | 0 | 0 | 0 |  | 0.8 | 0.2 |
| Peds |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - | 0 |
| \% Peds |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

## Project \#19326 - City of Vaughan

## Intersection Count Report

| Intersection: | Kirby Rd \& Mid Ontario Truck Center Access |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |
| Site Code: | 1932600002 |
| Count Categories: | Cars, Trucks, Buses, Bicycles, Pedestrians |
| Count Period: | 07:00-10:00, 14:00-19:00 |
| Weather: | Clear |

## Traffic Count Map

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

Intersection:
Municipality:
Count Date: $\quad$ Oct 02, 2019


## Traffic Count Summary

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection:
Municipality:
Count Date:

Kirby Rd \& Mid Ontario Truck Center Access Vaughan

Oct 02, 2019

## Mid Ontario Truck Center Access - Traffic Summary

| Hour | North Approach Totals |  |  |  |  |  | South Approach Totals |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  |
|  | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| 07:00-08:00 | 19 | 0 | 5 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00-09:00 | 7 | 0 | 6 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00-10:00 | 12 | 0 | 6 | 1 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 18 | 0 | 10 | 1 | 29 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00-16:00 | 45 | 0 | 23 | 0 | 68 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00-17:00 | 19 | 0 | 18 | 2 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00-18:00 | 19 | 0 | 17 | 1 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00-19:00 | 30 | 0 | 6 | 1 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GRAND TOTAL | 169 | 0 | 91 | 6 | 266 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |

# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection:
Municipality:
Count Date:

Kirby Rd \& Mid Ontario Truck Center Access Vaughan
Oct 02, 2019

## Kirby Rd - Traffic Summary

## East Approach Totals

Includes Cars, Trucks, Buses, Bicycles
West Approach Totals

Includes Cars, Trucks, Buses, Bicycles

| Hour | Left | Thru | Right | U-Turn | Total |  | Peds | Left | Thru | Right | U-Turn | Total |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | Peds

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \&ERVICES A PRODUCTS

| Intersection: | Kirby Rd \& Mid Ontario Truck Center Access |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |

## North Approach - Mid Ontario Truck Center Access

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{+}$ |  | Total | 4 | - | Pr |  | Total | 4 | + | Pr |  |  | - | 1 |  |  | Total |  |
| 07:00 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 10 | 0 | 1 | 0 | 11 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 2 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 2 | 0 | 2 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 3 | 0 | 3 | 0 | 6 | 2 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 24 | 0 | 8 | 0 | 32 | 14 | 0 | 9 | 1 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \& SERVICES A PRODUCTS

Intersection: Kirby Rd \& Mid Ontario Truck Center Access
Municipality: Vaughan
Count Date: $\quad$ Oct 02, 2019

## North Approach - Mid Ontario Truck Center Access



| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | - | $\stackrel{\rightharpoonup}{+}$ |  | Total | 4 | - | $\rightarrow$ |  | tal | 4 | + |  |  |  | 4 |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 122 | 0 | 54 | 1 | 177 | 47 | 0 | 37 | 5 | 89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |

## Traffic Count Data

Intersection: Kirby Rd \& Mid Ontario Truck Center Access
Municipality: Vaughan
Count Date: $\quad$ Oct 02,2019

East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\xrightarrow{+}$ | 1 | Total | 4 | + | $\stackrel{ }{ }$ |  | Total | 4 | 1 | , |  | Total | 4 | + |  |  | Total |  |
| 07:00 | 0 | 51 | 2 | 0 | 53 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 0 | 62 | 3 | 0 | 65 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 0 | 85 | 8 | 0 | 93 | 0 | 11 | 1 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 60 | 8 | 0 | 68 | 0 | 1 | 7 | 0 | 8 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 0 | 107 | 2 | 0 | 109 | 0 | 9 | 1 | 0 | 10 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 0 | 78 | 7 | 1 | 86 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 0 | 58 | 3 | 0 | 61 | 0 | 8 | 3 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 0 | 69 | 1 | 0 | 70 | 0 | 11 | 2 | 0 | 13 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 0 | 57 | 2 | 0 | 59 | 0 | 8 | 2 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 0 | 43 | 2 | 0 | 45 | 0 | 7 | 1 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 0 | 29 | 3 | 0 | 32 | 0 | 7 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 0 | 29 | 3 | 0 | 32 | 0 | 11 | 2 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 728 | 44 | 1 | 773 | 0 | 92 | 22 | 0 | 114 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

Intersection: Kirby Rd \& Mid Ontario Truck Center Access
Municipality: Vaughan
Count Date: $\quad$ Oct 02,2019

East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 |  | $\bigcirc$ | Total | 4 | + |  | $\bigcirc$ | Total | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ | 2 | Total | 4 | 1 |  |  | Total |  |
| 14:00 | 0 | 25 | 2 | 0 | 27 | 0 | 6 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 27 | 4 | 0 | 31 | 0 | 4 | 3 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 36 | 2 | 0 | 38 | 0 | 4 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 26 | 1 | 0 | 27 | 0 | 4 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 31 | 4 | 0 | 35 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 42 | 3 | 0 | 45 | 0 | 9 | 3 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 26 | 3 | 0 | 29 | 0 | 4 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 53 | 1 | 0 | 54 | 0 | 8 | 2 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 38 | 2 | 0 | 40 | 0 | 10 | 2 | 0 | 12 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 36 | 2 | 0 | 38 | 0 | 7 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 61 | 3 | 0 | 64 | 0 | 11 | 2 | 0 | 13 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 54 | 2 | 0 | 56 | 0 | 4 | 4 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 73 | 0 | 0 | 73 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 50 | 0 | 0 | 50 | 0 | 6 | 2 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 52 | 0 | 0 | 52 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 37 | 0 | 0 |  | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 0 | 45 | 1 | 0 | 46 | 0 | 5 | 2 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 0 | 34 | 2 | 0 | 36 | 0 | 5 | 2 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 0 | 26 | 1 | 0 | 27 | 0 | 2 | 3 | 0 | 5 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 0 | 30 | 0 | 0 | 30 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 802 | 33 | 0 | 835 | 0 | 112 | 33 | 0 | 145 | 0 | 4 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |


|  | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | 4 |  | $\stackrel{\rightharpoonup}{\text { Pr }}$ |  | Total | 4 | - |  |  | Total | 4 | ث |  |  | otal |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 0 | 1530 | 77 | 1 | 1608 | 0 | 204 | 55 | 0 | 259 | 0 | 12 | 1 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

Intersection: Kirby Rd \& Mid Ontario Truck Center Access
Municipality: Vaughan
Count Date: $\quad$ Oct 02,2019

| West Approach - Kirby Rd |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ars |  |  |  |  | acks |  |  |  |  | uses |  |  |  |  | cles |  |  |  |
| Start Time | 4 | + | $\stackrel{\rightharpoonup}{*}$ | ? | Total | - | + | $\stackrel{\rightharpoonup}{1}$ | २, | Total | 4 | 1 | $\stackrel{+}{+}$ | ค | Total | 4 | 1 | $\stackrel{+}{+}$ |  | Total | $\begin{array}{\|l\|l\|l\|l\|l\|} \text { Total } \\ \text { Peds } \end{array}$ |
| 07:00 | 5 | 33 | 0 | 0 | 38 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 3 | 32 | 0 | 0 | 35 | 3 | 2 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 0 | 40 | 0 | 0 | 40 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 35 | 0 | 0 | 35 | 0 | 8 | 0 | 0 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 1 | 48 | 0 | 0 | 49 | 1 | 5 | 0 | 0 | 6 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 3 | 61 | 0 | 0 | 64 | 0 | 9 | 0 | 0 | 9 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 3 | 43 | 0 | 0 | 46 | 2 | 8 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 2 | 47 | 0 | 0 | 49 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 1 | 28 | 0 | 0 | 29 | 1 | 9 | 0 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 1 | 21 | 0 | 0 | 22 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 3 | 22 | 0 | 0 | 25 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 1 | 24 | 0 | 0 | 25 | 3 | 4 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 23 | 434 | 0 | 0 |  | 10 | 62 | 0 | 0 | 72 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

Intersection: Kirby Rd \& Mid Ontario Truck Center Access
Municipality: Vaughan
Count Date: $\quad$ Oct 02,2019

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ | 2 | Total | 4 | - | $\stackrel{ }{ }$ |  | Total | 4 | + | 1 |  | Total | 4 | 1 | $\stackrel{+}{+}$ |  | Total |  |
| 14:00 | 1 | 27 | 0 | 0 | 28 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 21 | 0 | 0 | 21 | 1 | 6 | 0 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 1 | 27 | 0 | 0 | 28 | 1 | 12 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 2 | 38 | 0 | 0 | 40 | 3 | 6 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 4 | 46 | 0 | 0 | 50 | 2 | 10 | 0 | 0 | 12 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 2 | 46 | 0 | 0 | 48 | 1 | 9 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 3 | 47 | 0 | 0 | 50 | 3 | 2 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 1 | 59 | 0 | 0 | 60 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 2 | 51 | 0 | 0 | 53 | 2 | 2 | 0 | 0 | 4 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 2 | 61 | 0 | 0 | 63 | 2 | 13 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 1 | 61 | 0 | 0 | 62 | 1 | 10 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 54 | 0 | 0 | 54 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 1 | 79 | 0 | 0 | 80 | 1 | 14 | 0 | 0 | 15 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 59 | 0 | 0 | 59 | 2 | 12 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 64 | 0 | 0 | 64 | 2 | 7 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 73 | 0 | 0 | 73 | 0 | 14 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 1 | 57 | 0 | 0 | 58 | 1 | 9 | 0 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 0 | 57 | 0 | 0 | 57 | 2 | 12 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 0 | 65 | 0 | 0 | 65 | 2 | 3 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 0 | 60 | 0 | 0 | 60 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 21 | 1052 | 0 | 0 | 1073 | 28 | 164 | 0 | 0 | 192 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | + |  | Total | 4 | - |  |  | Total | 4 | - |  |  | otal |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 44 | 1486 | 0 | 0 | 1530 | 38 | 226 | 0 | 0 | 264 | 0 | 20 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 |

## Peak Hour Diagram

\section*{| 8 |
| :--- |
| 8 |
| 8 |}

Specified Period

| From： | $07: 00: 00$ | From： | $07: 30: 00$ |
| :--- | :--- | :--- | :--- |
| To： | $10: 00: 00$ | To： | $08: 30: 00$ |

Intersection：
Site ID：
Count Date：

Kirby Rd \＆Mid Ontario Truck Center Access
1932600002
Oct 02， 2019

## Weather conditions：

＊＊Unsignalized Intersection＊＊
Major Road：Kirby Rd runs E／W

| North Approach |  |  | Mid Ontario Truck Center Access |  |  |  | East Approach |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Out | In | Total |  |  |  | 0 |  | Out | In | Total |
| Q 6 | 29 | 35 | 匃 | 0 |  | 0 | 日 | 356 | 190 | 546 |
| Wa 6 | 10 | 16 | 5 | 2 | 4 | 0 | 0. | 37 | 28 | 65 |
| 国 | 0 | 0 | 日 | 1 | 5 | 0 | 国 | 4 | 8 | 12 |
| \％ 0 | 0 | 0 | Totals | 3 | 9 | 0 | \％${ }^{\circ}$ | 0 | 0 | 0 |
| 12 | 39 | 51 |  |  |  |  |  | 397 | 226 | 623 |

Kirby Rd
Peds： 0
Kirby Rd

| \％ | 匃 | Did | 日 | Totals |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 0 | 0 | 0 |  | 0 |
| 0 | 0 | 1 | 4 | 5 | 5 ＋ |
| 0 | 8 | 24 | 184 | 216 | m |

ion $\quad N \underbrace{N}_{s}$

Peds： 0
D
$\stackrel{0}{0}$
$\stackrel{0}{0}$


West Approach

|  | Out | In | Total |
| :---: | :---: | :---: | :---: |
| － | 188 | 331 | 519 |
| $\square$ | 25 | 30 | 55 |
| 国 | 8 | 4 | 12 |
| \％ | ， | 0 | 0 |
|  | 221 | 365 | 586 |

－Cars
Oan－Trucks
国－Buses
ब万b－Bicycles

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Mid Ontario Truck Center Access |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | $07: 00-10: 00$ |

Peak Hour Data (07:30-08:30)


## Peak Hour Diagram

\section*{| 8 |
| :--- |
| 8 |
| 8 |Ontario Traffic Inc.}

## Specified Period

| From: | $14: 00: 00$ |
| :--- | :--- |
| To: | $19: 00: 00$ |

One Hour Peak
From:
16:30:00
To:
17:30:00

## Intersection:

Site ID:
Count Date:

Kirby Rd \& Mid Ontario Truck Center Access
1932600002
Oct 02, 2019

## Weather conditions:

Major Road: Kirby Rd runs E/W

Kirby Rd


Peds: 0

| Ob | (1) | Oob | 日 | Totals |
| :---: | :---: | :---: | :---: | :---: |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 4 | 2 | 6 |
| 0 | 1 | 44 | 253 | 298 |



Peds: 0

> West Approach


- Cars

Tolo - Trucks

- Buses

Gోo - Bicycles

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Mid Ontario Truck Center Access |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | $14: 00-19: 00$ |

Peak Hour Data (16:30-17:30)


Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

## Project \#19326 - City of Vaughan

## Intersection Count Report

| Intersection: | Kirby Rd \& Petro Canada-Tim Hortons Access |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |
| Site Code: | 1932600003 |
| Count Categories: | Cars, Trucks, Buses, Bicycles, Pedestrians |
| Count Period: | $07: 00-10: 00,14: 00-19: 00$ |
| Weather: | Clear |

# Traffic Count Map 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection:
Municipality:
Count Date: $\quad$ Oct 02, 2019


## Traffic Count Summary



## Ontario Traffic Inc.

TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection:
Municipality:
Count Date:

Kirby Rd \& Petro Canada-Tim Hortons Access Vaughan

Oct 02, 2019

## Petro Canada-Tim Hortons Access - Traffic Summary

North Approach Totals
South Approach Totals
Includes Cars, Trucks, Buses, Bicycles
Includes Cars, Trucks, Buses, Bicycles

| Hour | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00-08:00 | 81 | 0 | 46 | 0 | 127 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00-09:00 | 67 | 0 | 54 | 0 | 121 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00-10:00 | 33 | 0 | 49 | 0 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 27 | 0 | 28 | 0 | 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00-16:00 | 38 | 0 | 38 | 0 | 76 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00-17:00 | 44 | 0 | 30 | 0 | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00-18:00 | 39 | 0 | 41 | 0 | 80 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00-19:00 | 38 | 0 | 47 | 0 | 85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GRAND TOTAL | 367 | 0 | 333 | 0 | 700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

# Traffic Count Summary 

## Ontario Traffic Inc.

TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection:
Municipality:
Count Date:

Kirby Rd \& Petro Canada-Tim Hortons Access
Vaughan
Oct 02, 2019

## Kirby Rd - Traffic Summary

## East Approach Totals

Includes Cars, Trucks, Buses, Bicycles
eft Thru Right U-Turn Total Ped

| Hour | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00-08:00 | 0 | 266 | 42 | 1 | 309 | 0 | 18 | 153 | 0 | 1 | 172 | 0 |
| 08:00-09:00 | 0 | 314 | 44 | 0 | 358 | 0 | 27 | 211 | 0 | 0 | 238 | 0 |
| 09:00-10:00 | 0 | 163 | 48 | 0 | 211 | 0 | 19 | 117 | 0 | 0 | 136 | 0 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 0 | 121 | 43 | 0 | 164 | 0 | 25 | 145 | 0 | 0 | 170 | 0 |
| 15:00-16:00 | 0 | 157 | 49 | 0 | 206 | 2 | 40 | 229 | 0 | 1 | 270 | 0 |
| 16:00-17:00 | 0 | 203 | 45 | 0 | 248 | 0 | 37 | 239 | 0 | 0 | 276 | 0 |
| 17:00-18:00 | 0 | 190 | 55 | 0 | 245 | 0 | 37 | 311 | 0 | 0 | 348 | 0 |
| 18:00-19:00 | 0 | 119 | 49 | 0 | 168 | 0 | 37 | 257 | 0 | 0 | 294 | 0 |
| GRAND TOTAL | 0 | 1533 | 375 | 1 | 1909 | 2 | 240 | 1662 | 0 | 2 | 1904 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

Intersection: Kirby Rd \& Petro Canada-Tim Hortons Access
Municipality: Vaughan
Count Date: $\quad$ Oct 02,2019

## North Approach - Petro Canada-Tim Hortons Access

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{1}$ | ? | Total | 4 | + |  |  | Total | 4 | + | $\stackrel{+}{+}$ |  | Total | 4 | 1 |  |  | Total |  |
| 07:00 | 7 | 0 | 7 | 0 | 14 | 4 | 0 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 12 | 0 | 8 | 0 | 20 | 5 | 0 | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 26 | 0 | 15 | 0 | 41 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 24 | 0 | 10 | 0 | 34 | 2 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 15 | 0 | 11 | 0 | 26 | 5 | 0 | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 15 | 0 | 15 | 0 | 30 | 4 | 0 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 11 | 0 | 12 | 0 | 23 | 3 | 0 | 1 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 9 | 0 | 11 | 0 | 20 | 4 | 0 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 11 | 0 | 13 | 0 | 24 | 3 | 0 | 3 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 7 | 0 | 9 | 0 | 16 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 4 | 0 | 8 | 0 | 12 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 5 | 0 | 8 | 0 | 13 | 1 | 0 | 3 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 146 | 0 | 127 | 0 | 273 | 33 | 0 | 22 | 0 | 55 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \&ERVICES A PRODUCTS

Intersection: Kirby Rd \& Petro Canada-Tim Hortons Access
Municipality: Vaughan
Count Date: $\quad$ Oct 02,2019

North Approach - Petro Canada-Tim Hortons Access

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + |  |  | Total | 4 | + |  |  | Total | 4 | 1 |  |  | Total | 4 |  |  |  |
| 14:00 | 6 | 0 | 4 | 0 | 10 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 2 | 0 | 4 | 0 | 6 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 6 | 0 | 8 | 0 | 14 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 8 | 0 | 8 | 0 | 16 | 2 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 7 | 0 | 10 | 0 | 17 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 8 | 0 | 9 | 0 | 17 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 6 | 0 | 5 | 0 | 11 | 4 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 15:45 | 8 | 0 | 9 | 0 | 17 | 2 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 12 | 0 | 6 | 0 | 18 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 10 | 0 | 4 | 0 | 14 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 16:30 | 5 | 0 | 8 | 0 | 13 | 2 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 8 | 0 | 8 | 0 | 16 | 3 | 0 | 1 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 17:00 | 10 | 0 | 12 | 0 | 22 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 8 | 0 | 8 | - | 16 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 7 | 0 | 12 | 0 | 19 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 10 | 0 | 5 | 0 | 15 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 9 | 0 | 13 | 0 | 22 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 9 | 0 | 11 | 0 | 20 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 12 | 0 | 9 | 0 | 21 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 7 | 0 | 7 | 0 | 14 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 158 | 0 | 160 | 0 | 318 | 25 | 0 | 24 | 0 | 49 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |


|  | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | 4 | + | $\stackrel{\rightharpoonup}{\text { Pr }}$ |  | otal | 4 | - |  |  | Total | 4 | ث |  |  |  | 4 |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 304 | 0 | 287 | 0 | 591 | 58 | 0 | 46 | 0 | 104 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

Intersection: Kirby Rd \& Petro Canada-Tim Hortons Access
Municipality: Vaughan
Count Date: $\quad$ Oct 02,2019

East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{1}$ | $\bigcirc$ | Total | 4 | - |  |  | Total | 4 | + |  |  | Total | 4 |  |  |  | Total |  |
| 07:00 | 0 | 45 | 3 | 0 | 48 | 0 | 4 | 3 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 0 | 57 | 15 | 1 | 73 | 0 | 8 | 1 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 0 | 77 | 12 | 0 | 89 | 0 | 6 | 2 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 59 | 6 | 0 | 65 | 0 | 6 | 0 | 0 | 6 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 0 | 95 | 7 | 0 | 102 | 0 | 8 | 2 | 0 | 10 | 0 |  | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 0 | 74 | 8 | 0 | 82 | 0 | 7 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 0 | 48 | 9 | 0 | 57 | 0 | 10 | 5 | 0 | 15 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 0 | 58 | 8 | 0 | 66 | 0 | 9 | 3 | 0 | 12 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 0 | 48 | 11 | 0 | 59 | 0 | 9 | 7 | 0 | 16 | 0 |  | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 0 | 37 | 11 | 0 | 48 | 0 | 4 | 3 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 0 | 22 | 9 | 0 | 31 | 0 | 6 | 0 | 0 | 6 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 0 | 24 | 6 | 0 | 30 | 0 | 12 | 1 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 644 | 105 | 1 | 750 | 0 | 89 | 29 | 0 | 118 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

Intersection: Kirby Rd \& Petro Canada-Tim Hortons Access
Municipality: Vaughan
Count Date: $\quad$ Oct 02,2019

East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{1}{1}$ | ? | Total | 4 | 1 | - | ? | Total | 4 | 1 | 1 | 2 | Total | 4 | + |  |  | Total |  |
| 14:00 | 0 | 24 | 7 | 0 | 31 | 0 | 7 | 1 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 28 | 8 | 0 | 36 | 0 | 3 | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 29 | 6 | 0 | 35 | 0 | 7 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 19 | 12 | 0 | 31 | 0 | 4 | 5 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 28 | 4 | 0 | 32 | 0 | 6 | 2 | 0 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 32 | 12 | 0 | 44 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 15:30 | 0 | 26 | 11 | 0 | 37 | 0 | 4 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 15:45 | 0 | 44 | 16 | 0 | 60 | 0 | 8 | 3 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 34 | 7 | 0 | 41 | 0 | 8 | 0 | 0 | 8 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 34 | 7 | 0 | 41 | 0 | 9 | 1 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 55 | 8 | 0 | 63 | 0 | 9 | 2 | 0 | 11 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 45 | 17 | 0 | 62 | 0 | 6 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 59 | 11 | 0 | 70 | 0 | 6 | 2 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 39 | 7 | 0 | 46 | 0 | 7 | 3 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 40 | 19 | 0 | 59 | 0 | 6 | 3 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 32 | 9 | 0 | 41 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 0 | 31 | 13 | 0 | 44 | 0 | 5 | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 0 | 27 | 11 | 0 | 38 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 0 | 18 | 12 | 0 | 30 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 0 | 24 | 12 | 0 | 36 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 668 | 209 | 0 | 877 | 0 | 118 | 30 | 0 | 148 | 0 | 4 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 2 |


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 |  | $\stackrel{+}{+}$ |  | Total | 4 | + |  |  | Total | 4 | - |  |  | tal |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 0 | 1312 | 314 | 1 | 1627 | 0 | 207 | 59 | 0 | 266 | 0 | 14 | 2 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 2 |

## Traffic Count Data

## Ontario Traffic Inc.

Intersection: Kirby Rd \& Petro Canada-Tim Hortons Access
Municipality: Vaughan
Count Date: $\quad$ Oct 02,2019

| West Approach - Kirby Rd |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ars |  |  |  |  | acks |  |  |  |  | uses |  |  |  |  | ycles |  |  |  |
| Start Time | 4 | + | $\stackrel{\rightharpoonup}{*}$ | ? | Total | 4 | + | $\stackrel{1}{r}$ |  | Total | 4 | 1 | $\stackrel{+}{+}$ | ค | Total | 4 | - | $\stackrel{+}{r}$ |  | Total | $\begin{array}{\|l\|l\|l\|l\|l\|} \text { Total } \\ \text { Peds } \end{array}$ |
| 07:00 | 3 | 28 | 0 | 0 | 31 | 2 | 3 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 6 | 36 | 0 | 0 | 42 | 1 | 2 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 3 | 34 | 0 | 1 | 38 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 1 | 36 | 0 | 0 | 37 | 1 | 7 | 0 | 0 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 6 | 38 | 0 | 0 | 44 | 3 | 3 | 0 | 0 | 6 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 5 | 59 | 0 | 0 | 64 | 1 | 8 | 0 | 0 | 9 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 8 | 38 | 0 | 0 | 46 | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 1 | 46 | 0 | 0 | 47 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 7 | 23 | 0 | 0 | 30 | 3 | 7 | 0 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 3 | 22 | 0 | 0 | 25 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 4 | 22 | 0 | 0 | 26 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 1 | 29 | 0 | 0 | 30 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 48 | 411 | 0 | 1 |  | 15 | 60 | 0 | 0 | 75 | 1 | 10 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

Intersection: Kirby Rd \& Petro Canada-Tim Hortons Access
Municipality: Vaughan
Count Date: $\quad$ Oct 02, 2019

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{4}$ | 2 | Total | 4 | + | $\Gamma^{+}$ |  | Total | 4 | 1 | + | 2 | Total | - | 1 |  |  | Total |  |
| 14:00 | 4 | 30 | 0 | 0 | 34 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 5 | 17 | 0 | 0 | 22 | 3 | 6 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 3 | 30 | 0 | 0 | 33 | 3 | 14 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 6 | 35 | 0 | 0 | 41 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 11 | 43 | 0 | 0 | 54 | 4 | 6 | 0 | 0 | 10 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 4 | 47 | 0 | 1 | 52 | 2 | 8 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 6 | 57 | 0 | 0 | 63 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 11 | 53 | 0 | 0 | 64 | 1 | 10 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 5 | 53 | 0 | 0 | 58 | 1 | 4 | 0 | 0 | 5 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 9 | 56 | 0 | 0 | 65 | 2 | 10 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 7 | 55 | 0 | 0 | 62 | 0 | 10 | 0 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 9 | 45 | 0 | 0 | 54 | 2 | 4 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 19 | 68 | 0 | 0 | 87 | 1 | 13 | 0 | 0 | 14 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 1 | 63 | 0 | 0 | 64 | 1 | 13 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 1 | 71 | 0 | 0 | 72 | 2 | 6 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 10 | 62 | 0 | 0 | 72 | 2 | 14 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 10 | 51 | 0 | 0 | 61 | 4 | 8 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 8 | 67 | 0 | 0 | 75 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 7 | 55 | 0 | 0 | 62 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 6 | 55 | 0 | 0 | 61 | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 142 | 1013 | 0 | 1 | 1156 | 32 | 162 | 0 | 0 | 194 | 2 | 6 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | + |  | Total | 4 | - |  |  | Total | 4 | + |  |  | tal |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 190 | 1424 | 0 | 2 | 1616 | 47 | 222 | 0 | 0 | 269 | 3 | 16 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 |

## Peak Hour Diagram

## Specified Period

| From： | $07: 00: 00$ | From： | $07: 30: 00$ |
| :--- | :--- | :--- | :--- |
| To： | $10: 00: 00$ | To： | $08: 30: 00$ |

Intersection：
Site ID：
Count Date：

Kirby Rd \＆Petro Canada－Tim Hortons Access
1932600003
Oct 02， 2019

## Weather conditions：

＊＊Unsignalized Intersection＊＊
Major Road：Kirby Rd runs E／W

| North Approach |  |  | Petro Canada－Tim Hortons Access |  |  |  | East Approach |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Out | In | Total | 30 |  | 0 |  |  | Out | In | Total |
| 日 131 | 48 | 179 | 旬 |  | 0 | 0 | － | 338 | 247 | 585 |
| －6 18 | 12 | 30 | 6 | 6 | 12 | 0 | b | 33 | 34 | 67 |
| 畇 0 | 1 | 1 | － |  | 80 | 0 | 囫 | 6 | 7 | 13 |
| －${ }^{\circ} \mathrm{O}$ | 0 | 0 | Totals | 57 | 92 |  | \％${ }^{\text {\％}}$ | 0 | 0 | 0 |
| 149 | 61 | 210 |  |  |  |  |  | 377 | 288 | 665 |

Kirby Rd
Peds： 0
Kirby Rd

| \％ | 匃 | Did |  | Totals |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 0 | 0 | 1 |  | 1 － |
| 0 | 1 | 6 | 15 | 22 | ＋ |
| 0 | 7 | 22 | 167 | 196 | $\Rightarrow$ |

ion $\quad N \underbrace{N}_{s}$

Peds： 0
D
$\stackrel{0}{\square}$
$\stackrel{0}{0}$


West Approach

|  | Out | In | Total |
| :--- | ---: | ---: | ---: |
|  | 183 | 357 | 540 |
| 0 | 28 | 33 | 61 |
| 目 | 8 | 6 | 14 |
| 0 | 0 | 0 | 0 |
| $\mathbf{2 1 9}$ | $\mathbf{3 9 6}$ | $\mathbf{6 1 5}$ |  |

－Cars
Oab－Trucks
－Buses
Gో－Bicycles

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Petro Canada-Tim Hortons Access |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | $07: 00-10: 00$ |

Peak Hour Data (07:30-08:30)


## Peak Hour Diagram

\section*{| 8 |
| :--- |
| 0 |
| 0 |
| 0 |Ontario Traffic Inc． <br> TRAFFIC MONITORING SERVICES A PRODUCTS}

Specified Period

| From： | $14: 00: 00$ |
| :--- | :--- |
| To： | $19: 00: 00$ |

One Hour Peak

## Intersection：

Site ID：
Count Date：

Kirby Rd \＆Petro Canada－Tim Hortons Access
1932600003
Oct 02， 2019

## Weather conditions：

＊＊Unsignalized Intersection＊＊


Peds： 0
Kirby Rd

| W8 | 国 | 00 | 日 | Totals |
| :---: | :---: | :---: | :---: | :---: |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 6 | 30 | 36 |
| 0 | 1 | 36 | 247 | 284 |

ion $\quad N \underbrace{N}_{s}$

Peds： 0

Major Road：Kirby Rd runs E／W

| Petro Canada－Tim Hortons Access |  |  |  | East Approach |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| హో | 0 | 0 | 0 |  | Out | In | Total |
| 国 | 0 | 1 | 0 | ® | 237 | 280 | 517 |
| 5 | 5 | 6 | 0 | 100 | 34 | 42 | 76 |
| 日 | 40 | 33 |  | 国 | 0 | 2 | 2 |
| Totals | 45 | 40 | 0 | $\mathrm{S}^{6} 6$ | 0 | 0 | 0 |
|  |  |  |  |  | 271 | 324 | 595 |

Kirby Rd

|  | Totals | 日 | Do | 国 | \％ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\stackrel{\square}{\circ}$ | $\square \quad 0$ | 0 | 0 | 0 | 0 |
| 0 | 1． 63 | 54 | 9 | 0 | 0 |
|  | － 208 | 183 | 25 | 0 | 0 |

West Approach

|  | Out | In | Total |
| :---: | :---: | :---: | :---: |
| Q | 277 | 223 | 500 |
| 50 | 42 | 30 | 72 |
| 図 | 1 | 0 | 1 |
| \％ | 0 | 0 | 0 |
|  | 320 | 253 | 573 |

－Cars
Tool－Trucks
－Buses
Gో－Bicycles

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Petro Canada-Tim Hortons Access |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | $14: 00-19: 00$ |

Peak Hour Data (16:45-17:45)


Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

## Project \#19326 - City of Vaughan

## Intersection Count Report

| Intersection: | Kirby Rd \& Keele St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |
| Site Code: | 1932600004 |
| Count Categories: | Cars, Trucks, Buses, Bicycles, Pedestrians |
| Count Period: | 07:00-10:00, 14:00-19:00 |
| Weather: | Clear |

# Traffic Count Map 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

Intersection:
Municipality:
Count Date: $\quad$ Oct 02, 2019


# Traffic Count Summary 

Intersection: Kirby Rd \& Keele St<br>Municipality: Vaughan<br>Count Date: $\quad$ Oct 02, 2019

## Keele St - Traffic Summary

| Hour | North Approach Totals |  |  |  |  |  | South Approach Totals |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  |
|  | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| 07:00-08:00 | 12 | 1569 | 119 | 0 | 1700 | 0 | 27 | 269 | 71 | 0 | 367 | 0 |
| 08:00-09:00 | 30 | 1418 | 113 | 0 | 1561 | 3 | 65 | 340 | 80 | 0 | 485 | 0 |
| 09:00-10:00 | 42 | 787 | 70 | 0 | 899 | 1 | 36 | 211 | 51 | 0 | 298 | 1 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 29 | 251 | 37 | 0 | 317 | 3 | 46 | 360 | 86 | 0 | 492 | 2 |
| 15:00-16:00 | 26 | 315 | 34 | 0 | 375 | 5 | 63 | 647 | 140 | 0 | 850 | 1 |
| 16:00-17:00 | 28 | 318 | 38 | 1 | 385 | 1 | 76 | 851 | 243 | 0 | 1170 | 0 |
| 17:00-18:00 | 36 | 329 | 33 | 1 | 399 | 0 | 80 | 910 | 275 | 0 | 1265 | 0 |
| 18:00-19:00 | 33 | 268 | 32 | 0 | 333 | 0 | 62 | 569 | 195 | 0 | 826 | 0 |
| GRAND TOTAL | 236 | 5255 | 476 | 2 | 5969 | 13 | 455 | 4157 | 1141 | 0 | 5753 | 4 |

# Traffic Count Summary 



## Ontario Traffic Inc.

TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection:<br>Municipality:<br>Count Date:<br>Kirby Rd \& Keele St<br>Vaughan<br>Oct 02, 2019

## Kirby Rd - Traffic Summary

## East Approach Totals

Includes Cars, Trucks, Buses, Bicycles

West Approach Totals
Includes Cars, Trucks, Buses, Bicycles

| Hour | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00-08:00 | 359 | 163 | 29 | 0 | 551 | 0 | 42 | 92 | 101 | 0 | 235 | 2 |
| 08:00-09:00 | 269 | 180 | 49 | 0 | 498 | 1 | 55 | 122 | 101 | 0 | 278 | 0 |
| 09:00-10:00 | 129 | 105 | 32 | 0 | 266 | 1 | 24 | 65 | 61 | 0 | 150 | 1 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 41 | 81 | 27 | 0 | 149 | 0 | 48 | 85 | 39 | 0 | 172 | 2 |
| 15:00-16:00 | 64 | 109 | 40 | 0 | 213 | 4 | 79 | 138 | 50 | 0 | 267 | 1 |
| 16:00-17:00 | 84 | 134 | 37 | 0 | 255 | 0 | 69 | 173 | 41 | 0 | 283 | 0 |
| 17:00-18:00 | 107 | 132 | 25 | 0 | 264 | 0 | 61 | 242 | 47 | 0 | 350 | 0 |
| 18:00-19:00 | 61 | 74 | 33 | 0 | 168 | 0 | 59 | 191 | 45 | 0 | 295 | 0 |
| GRAND TOTAL | 1114 | 978 | 272 | 0 | 2364 | 6 | 437 | 1108 | 485 | 0 | 2030 | 6 |

## Traffic Count Data

## Ontario Traffic Inc.

Intersection: Kirby Rd \& Keele St
Municipality: Vaughan
Count Date: $\quad$ Oct 02,2019

| North Approach - Keele St |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cars |  |  |  |  | ucks |  |  |  |  | uses |  |  |  |  | ycles |  |  |  |
| Start Time | 4 | 1 | $\stackrel{+}{+}$ | ? | Total | 4 | + |  | ? | Total | 4 | 1 |  | $\bigcirc$ | Total | 4 | - | $\stackrel{\rightharpoonup}{*}$ | ? | Total | $\begin{array}{\|l\|l\|} \hline \text { Total } \\ \text { Peds } \\ \hline \end{array}$ |
| 07:00 | 4 | 252 | 27 | 0 | 283 | 0 | 46 | 3 | 0 | 49 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 1 | 376 | 27 | 0 | 404 | 1 | 49 | 5 | 0 | 55 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 1 | 364 | 35 | 0 | 400 | 0 | 34 | 2 | 0 | 36 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 2 | 395 | 17 | 0 | 414 | 1 | 41 | 2 | 0 | 44 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 4 | 324 | 34 | 0 | 362 | 0 | 40 | 5 | 0 | 45 | 2 | 6 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 5 | 360 | 28 | 0 | 393 | 1 | 34 | 4 | 0 | 39 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 6 | 300 | 19 | 0 | 325 | 0 | 28 | 4 | 0 | 32 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:45 | 10 | 287 | 16 | 0 | 313 | 1 | 30 | 2 | 0 | 33 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 2 |
| 09:00 | 9 | 227 | 22 | 0 | 258 | 3 | 27 | 7 | 0 | 37 | 1 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:15 | 13 | 201 | 15 | 0 | 229 | 2 | 18 | 3 | 0 | 23 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 4 | 130 | 10 | 0 |  | 1 | 30 | 2 | 0 | 33 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 6 | 124 | 6 | 0 |  | 2 | 27 | 4 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 65 | 3340 | 256 | 0 | 3661 | 12 | 404 | 43 | 0 | 459 | 7 | 30 | 3 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 4 |

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \& SERVICES A PRODUCTS

Intersection:
Municipality:
Count Date:

Kirby Rd \& Keele St
Vaughan
Oct 02, 2019

## North Approach - Keele St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{4}$ |  | Total | 4 | + | $\stackrel{\rightharpoonup}{7}$ |  | Total | 4 | + | $\square$ |  | Total | 4 | - | $\stackrel{+}{+}$ |  |  |
| 14:00 | 4 | 52 | 10 | 0 | 66 | 1 | 12 | 3 | 0 | 16 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 14:15 | 3 | 43 | 6 | 0 | 52 | 2 | 10 | 1 | 0 | 13 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 2 |
| 14:30 | 8 | 47 | 5 | 0 | 60 | 2 | 12 | 3 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 8 | 51 | 7 | 0 | 66 | 1 | 13 | 2 | 0 | 16 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 5 | 60 | 4 | 0 | 69 | 2 | 8 | 1 | 0 | 11 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 15:15 | 5 | 74 | 9 | 0 | 88 | 3 | 14 | 3 | 0 | 20 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 15:30 | 6 | 71 | 7 | 0 | 84 | 2 | 12 | 2 | 0 | 16 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 3 | 70 | 6 | 0 | 79 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 |
| 16:00 | 6 | 51 | 2 | 0 | 59 | 1 | 7 | 4 | 0 | 12 | 1 | 4 | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 4 | 77 | 4 | 1 | 86 | 0 | 0 | 3 | 0 | 3 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 6 | 63 | 9 | 0 | 78 | 1 | 11 | 2 | 0 | 14 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 1 |
| 16:45 | 7 | 85 | 11 | 0 | 103 | 0 | 13 | 1 | 0 | 14 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 7 | 64 | 7 | 0 | 78 | 0 | 11 | 3 | 0 | 14 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 6 | 82 | 8 | 1 | 97 | 1 | 6 | 1 | 0 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 8 | 70 | 4 | 0 | 82 | 2 | 9 | 4 | 0 | 15 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 10 | 75 | 5 | 0 | 90 | 0 | 9 | 1 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 15 | 74 | 10 | 0 | 99 | 1 | 4 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 4 | 56 | 6 | 0 | 66 | 2 | 3 | 4 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 4 | 53 | 6 | 0 | 63 | 0 | 4 | 1 | 0 | 5 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 |
| 18:45 | 3 | 59 | 5 | 0 | 67 | 2 | 12 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 122 | 1277 | 131 | 2 | 1532 | 23 | 171 | 40 | 0 | 234 | 7 | 31 | 3 | 0 | 41 | 0 | 2 | 0 | 0 | 9 |


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 |  | + |  | Total | 4 | + |  |  | Total | 4 | + |  |  | tal |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 187 | 4617 | 387 | 2 | 5193 | 35 | 575 | 83 | 0 | 693 | 14 | 61 | 6 | 0 | 81 | 0 | 2 | 0 | 0 | 2 | 13 |

## Traffic Count Data

## Ontario Traffic Inc.

Intersection:
Municipality:
Count Date:
Oct 02, 2019

| South Approach - Keele St |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cars |  |  |  |  | cks |  |  |  |  | ses |  |  |  |  |  |  |  |  |
| Start Time | 4 | 1 | $\stackrel{ }{+}$ |  | Total | 4 | 1 | $\stackrel{+}{1}$ |  | Total | 4 | 1 |  |  | Total | 4 | 1 |  |  | Total | Peds |
| 07:00 | 4 | 26 | 10 | 0 | 40 | 1 | 11 | 5 | 0 | 17 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 7 | 47 | 11 | 0 | 65 | 0 | 15 | 1 | 0 | 16 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 5 | 58 | 15 | 0 | 78 | 2 | 21 | 6 | 0 | 29 | 0 | 3 | 3 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 5 | 73 | 14 | 0 | 92 | 3 | 13 | 3 | 0 | 19 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 14 | 76 | 9 | 0 | 99 | 2 | 15 | 2 | 0 | 19 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 16 | 76 | 20 | 0 |  | 1 | 12 | 11 | 0 | 24 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 8 | 66 | 23 | 0 | 97 | 8 | 11 | 4 | 0 | 23 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 12 | 69 | 8 | 0 | 89 | 4 | 7 | 3 | 0 | 14 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 6 | 47 | 19 | 0 | 72 | 5 | 8 | 4 | 0 | 17 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:15 | 7 | 30 | 3 | 0 | 40 | 3 | 6 | 1 | 0 | 10 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 5 | 43 | 13 | 0 | 61 | 1 | 16 | 0 | 0 | 17 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 6 | 32 | 10 | 0 | 48 | 3 | 16 | 0 | 0 | 19 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 95 | 643 | 155 | 0 | 893 | 33 | 151 | 40 | 0 | 224 | 0 | 26 | 7 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 1 |

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \&ERVICES A PRODUCTS

Intersection:
Municipality:
Count Date:

Kirby Rd \& Keele St
Vaughan
Oct 02, 2019

## South Approach - Keele St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{1+}$ | - | Total | 4 | + | $\stackrel{\rightharpoonup}{2}$ | 2 | Total | 4 | + | $\stackrel{\square}{7}$ |  | Total | 4 | + |  |  |  |
| 14:00 | 9 | 56 | 14 | 0 | 79 | 1 | 21 | 6 | 0 | 28 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 13 | 48 | 20 | 0 | 81 | 3 | 20 | 0 | 0 | 23 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 7 | 84 | 15 | 0 | 106 | 3 | 14 | 2 | 0 | 19 | 0 | 5 | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 1 |
| 14:45 | 6 | 96 | 22 | 0 | 124 | 4 | 9 | 5 | 0 | 18 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 15:00 | 12 | 101 | 31 | 0 | 144 | 3 | 28 | 5 | 0 | 36 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 8 | 129 | 22 | 0 | 159 | 1 | 29 | 4 | 0 | 34 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 1 |
| 15:30 | 11 | 129 | 36 | 0 | 176 | 3 | 23 | 9 | 0 | 35 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 18 | 171 | 27 | 0 | 216 | 7 | 31 | 3 | 0 | 41 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 10 | 148 | 50 | 0 | 208 | 1 | 30 | 6 | 0 | 37 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 9 | 204 | 49 | 0 | 262 | 3 | 33 | 6 | 0 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 20 | 179 | 55 | 0 | 254 | 8 | 27 | 10 | 0 | 45 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 22 | 201 | 61 | 0 | 284 | 3 | 25 | 5 | 0 | 33 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 17 | 234 | 70 | 0 | 321 | 2 | 23 | 8 | 0 | 33 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 10 | 204 | 64 | 0 | 278 | 5 | 16 | 3 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 29 | 217 | 73 | 0 | 319 | 2 | 38 | 4 | 0 | 44 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 14 | 158 | 49 | 0 | 221 | 1 | 18 | 4 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 15 | 167 | 53 | 0 | 235 | 3 | 22 | 4 | 0 | 29 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 11 | 126 | 64 | 0 | 201 | 1 | 11 | 1 | 0 | 13 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 12 | 130 | 36 | 0 | 178 | 3 | 18 | 4 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 16 | 81 | 32 | 0 | 129 | 1 | 11 | 0 | 0 | 12 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 269 | 2863 | 843 | 0 | 3975 | 58 | 447 | 89 | 0 | 594 | 0 | 27 | 7 | 0 | 34 | 0 | 0 | 0 | 0 | 3 |


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{+}$ |  | Total | 4 | - | $\stackrel{\rightharpoonup}{7}$ |  | Total | - | - |  |  | tal |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 364 | 3506 | 998 | 0 | 4868 | 91 | 598 | 129 | 0 | 818 | 0 | 53 | 14 | 0 | 67 | 0 | 0 | 0 | 0 | 0 | 4 |

## Traffic Count Data

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Keele St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02,2019 |

East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 |  | 饣 | Total | 4 | + |  |  | Total | 4 | 1 |  |  | Total | 4 | 1 |  |  | Total |  |
| 07:00 | 98 | 17 | 3 | 0 | 118 | 1 | 3 | 1 | 0 | 5 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 73 | 39 | 8 | 0 | 120 | 5 | 4 | 2 | 0 | 11 | 1 | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 75 | 49 | 6 | 0 | 130 | 17 | 4 | 2 | 0 | 23 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 81 | 43 | 6 | 0 | 130 | 6 | 1 | 0 | 0 | 7 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 83 | 54 | 10 | 0 | 147 | 5 | 3 | 2 | 0 | 10 | 0 | 2 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 65 | 38 | 11 | 0 | 114 | 6 | 4 | 3 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 51 | 30 | 9 | 0 | 90 | 6 | 3 | 1 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:45 | 47 | 38 | 10 | 0 | 95 | 6 | 6 | 0 | 0 | 12 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 40 | 31 | 7 | 0 | 78 | 8 | 4 | 3 | 0 | 15 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:15 | 47 | 26 | 5 | 0 | 78 | 5 | 1 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 15 | 16 | 6 | 0 | 37 | 3 | 3 | 0 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 9 | 18 | 8 | 0 | 35 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 684 | 399 | 89 | 0 | 1172 | 69 | 42 | 15 | 0 | 126 | 4 | 7 | 6 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 2 |

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \& SERVICES A PRODUCTS

Intersection:
Municipality:
Count Date:

Kirby Rd \& Keele St
Vaughan
Oct 02, 2019

East Approach - Kirby Rd


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | - | $\stackrel{\rightharpoonup}{1}$ |  | Total | 4 | 1 |  |  | Total | I | - |  |  | tal | 4 |  |  |  | Total |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 958 | 876 | 223 | 0 | 2057 | 147 | 92 | 32 | 0 | 271 | 8 | 10 | 17 | 0 | 35 | 1 | 0 | 0 | 0 | 1 | 6 |

## Traffic Count Data

## Ontario Traffic Inc.

Intersection:
Municipality:
Count Date:
Oct 02, 2019

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\cdots$ | - | $\stackrel{+}{+}$ |  | Total | 4 | 1 |  |  | Total | 1 | - |  |  | Total | 4 | - |  |  | Total |  |
| 07:00 | 10 | 17 | 8 | 0 | 35 | 4 | 1 | 2 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 07:15 | 5 | 25 | 19 | 0 | 49 | 2 | 0 | 5 | 0 | 7 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 8 | 22 | 30 | 0 | 60 | 0 | 2 | 3 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 12 | 20 | 28 | 0 | 60 | 1 | 3 | 5 | 0 | 9 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 11 | 28 | 14 | 0 | 53 | 3 | 2 | 3 | 0 | 8 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 15 | 28 | 31 | 0 | 74 | 3 | 6 | 3 | 0 | 12 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 9 | 31 | 9 | 0 | 49 | 3 | 4 | 3 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 6 | 17 | 32 | 0 | 55 | 2 | 2 | 6 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 6 | 17 | 11 | 0 | 34 | 3 | 2 | 5 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:15 | 5 | 10 | 14 | 0 | 29 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 2 | 17 | 7 | 0 | 26 | 2 | 1 | 3 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 3 | 13 | 18 | 0 | 34 | 3 | 3 | 2 | 0 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 92 | 245 | 221 | 0 | 558 | 26 | 26 | 41 | 0 | 93 | 3 | 8 | 1 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 3 |

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \& SERVICES A PRODUCTS

Intersection:
Municipality:
Count Date:

Kirby Rd \& Keele St
Vaughan
Oct 02, 2019

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{1}{*}$ |  | Total | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ |  | Total | 4 | + | + |  | Total | 4 | + |  |  |  |
| 14:00 | 9 | 16 | 11 | 0 | 36 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 4 | 13 | 2 | 0 | 19 | 3 | 3 | 1 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 7 | 20 | 9 | 0 | 36 | 5 | 5 | 5 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 14:45 | 15 | 21 | 7 | 0 | 43 | 5 | 3 | 3 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 15:00 | 14 | 30 | 6 | 0 | 50 | 3 | 3 | 1 | 0 | 7 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 21 | 28 | 6 | 0 | 55 | 4 | 4 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 14 | 35 | 14 | 0 | 63 | 2 | 3 | 2 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 15:45 | 17 | 29 | 15 | 0 | 61 | 4 | 3 | 5 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 20 | 38 | 7 | 0 | 65 | 2 | 1 | 2 | 0 | 5 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 18 | 40 | 8 | 0 | 66 | 2 | 7 | 2 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 11 | 39 | 10 | 0 | 60 | 5 | 2 | 5 | 0 | 12 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 9 | 40 | 4 | 0 | 53 | 2 | 3 | 2 | 0 | 7 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 13 | 57 | 8 | 0 | 78 | 5 | 7 | 1 | 0 | 13 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 14 | 49 | 8 | 0 | 71 | 2 | 8 | 4 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 8 | 52 | 18 | 0 | 78 | 2 | 6 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 10 | 54 | 8 | 0 | 72 | 7 | 8 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 8 | 41 | 11 | 0 | 60 | 3 | 5 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 15 | 54 | 7 | 0 | 76 | 4 | 5 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 13 | 42 | 12 | 0 | 67 | 2 | 2 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 12 | 38 | 12 | 0 | 62 | 2 | 4 | 2 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 252 | 736 | 183 | 0 | 1171 | 64 | 85 | 38 | 0 | 187 | 0 | 8 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 3 |


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{7}$ |  | Total | 4 | 1 | $\stackrel{\rightharpoonup}{r}$ |  | Total | - | - |  |  | tal | 4 |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 344 | 981 | 404 | 0 | 1729 | 90 | 111 | 79 | 0 | 280 | 3 | 16 | 2 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 6 |

## Peak Hour Diagram



Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

## Specified Period

| From: |  | $07: 00: 00$ |
| :--- | :--- | :--- |
| To: |  | $10: 00: 00$ |

One Hour Peak
From:
To:

07:30:00
08:30:00

Intersection:
Site ID:
Count Date:

Kirby Rd \& Keele St
1932600004
Oct 02, 2019

## Weather conditions:



## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Keele St |
| :--- | :--- |
| Count Date: | $0 c t ~ 02,2019$ |
| Period: | $07: 00-10: 00$ |


| Peak Hour Data (07:30-08:30) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | North Approach Keele St |  |  |  |  |  | South Approach Keele St |  |  |  |  |  | East Approach Kirby Rd |  |  |  |  |  | West Approach Kirby Rd |  |  |  |  |  | Total Vehicl es |
| Start Time |  | $\uparrow$ | $\stackrel{\rightharpoonup}{ }$ |  | Peds |  |  | - | $\stackrel{\rightharpoonup}{r}$ |  | Peds | Total |  | 1 | $\Gamma$ | ? | Peds | Total |  | 1 |  | ? | Peds | Total |  |
| 07:30 | 2 | 400 | 37 | 0 | 0 | 439 | 7 | 82 | 24 | 0 | 0 | 113 | 93 | 53 | 8 | 0 | 0 | 154 | 8 | 24 | 33 | 0 | 0 | 65 | 771 |
| 07:45 | 3 | 439 | 20 | 0 | 0 | 462 | 8 | 86 | 18 | 0 | 0 | 112 | 87 | 46 | 6 | 0 | 0 | 139 | 13 | 23 | 34 | 0 | 0 | 70 | 783 |
| 08:00 | 6 | 370 | 40 | 0 | 0 | 416 | 16 | 94 | 11 | 0 | 0 | 121 | 88 | 59 | 14 | 0 | 0 | 161 | 16 | 31 | 17 | 0 | 0 | 64 | 762 |
| 08:15 | 6 | 398 | 32 | 0 | 0 | 436 | 17 | 89 | 31 | 0 | 0 | 137 | 71 | 42 | 14 | 0 | 0 | 127 | 19 | 36 | 34 | 0 | 0 | 89 | 789 |
| Grand Total | 17 | 1607 | 129 | 0 | 0 | 1753 | 48 | 351 | 84 | 0 | 0 | 483 | 339 | 200 | 42 | 0 | 0 | 581 | 56 | 114 | 118 | 0 | 0 | 288 | 3105 |
| $\begin{gathered} \hline \text { Approach } \\ \% \end{gathered}$ | 1 | 91.7 | 7.4 | 0 |  | - | 9.9 | 72.7 | 17.4 | 0 |  | - | 58.3 | 34.4 | 7.2 | 0 |  | - | 19.4 | 39.6 | 41 | 0 |  | - |  |
| Totals \% | 0.5 | 51.8 | 4.2 | 0 |  | 56.5 | 1.5 | 11.3 | 2.7 | 0 |  | 15.6 | 10.9 | 6.4 | 1.4 | 0 |  | 18.7 | 1.8 | 3.7 | 3.8 | 0 |  | 9.3 |  |
| PHF | 0.71 | 0.92 | 0.81 | 0 |  | 0.95 | 0.71 | 0.93 | 0.68 | 0 |  | 0.88 | 0.91 | 0.85 | 0.75 | 0 |  | 0.9 | 0.74 | 0.79 | 0.87 | 0 |  | 0.81 | 0.98 |
| Cars | 12 | 1443 | 114 | 0 |  | 1569 | 40 | 283 | 58 | 0 |  | 381 | 304 | 184 | 33 | 0 |  | 521 | 46 | 98 | 103 | 0 |  | 247 | 2718 |
| \% Cars | 70.6 | 89.8 | 88.4 | 0 |  | 89.5 | 83.3 | 80.6 | 69 | 0 |  | 78.9 | 89.7 | 92 | 78.6 | 0 |  | 89.7 | 82.1 | 86 | 87.3 | 0 |  | 85.8 | 87.5 |
| Trucks | 2 | 149 | 13 | 0 |  | 164 | 8 | 61 | 22 | 0 |  | 91 | 34 | 12 | 7 | 0 |  | 53 | 7 | 13 | 14 | 0 |  | 34 | 342 |
| \% Trucks | 11.8 | 9.3 | 10.1 | 0 |  | 9.4 | 16.7 | 17.4 | 26.2 | 0 |  | 18.8 | 10 | 6 | 16.7 | 0 |  | 9.1 | 12.5 | 11.4 | 11.9 | 0 |  | 11.8 | 11 |
| Buses | 3 | 15 | 2 | 0 |  | 20 | 0 | 7 | 4 | 0 |  | 11 | 1 | 4 | 2 | 0 |  | 7 | 3 | 3 | 1 | 0 |  | 7 | 45 |
| \% Buses | 17.6 | 0.9 | 1.6 | 0 |  | 1.1 | 0 | 2 | 4.8 | 0 |  | 2.3 | 0.3 | 2 | 4.8 | 0 |  | 1.2 | 5.4 | 2.6 | 0.8 | 0 |  | 2.4 | 1.4 |
| Bicycles | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 |
| \% Bicycles | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 |
| Peds |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - | 0 |
| \% Peds |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |

## Peak Hour Diagram

Specified Period
From: 14:00:00
To: 19:00:00

One Hour Peak
From:
16:45:00
To:
17:45:00

Intersection:
Site ID:
Count Date:

Kirby Rd \& Keele St
1932600004
Oct 02, 2019

## Weather conditions:



## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Keele St |
| :--- | :--- |
| Count Date: | $0 c t ~ 02,2019$ |
| Period: | $14: 00-19: 00$ |

Peak Hour Data (16:45-17:45)

|  | North Approach Keele St |  |  |  |  |  | South Approach Keele St |  |  |  |  |  | East Approach Kirby Rd |  |  |  |  |  | West Approach Kirby Rd |  |  |  |  |  | Total Vehicl es |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time |  |  |  | ? |  | Total |  |  |  |  | Peds | Total |  |  |  | ? | Peds | Total |  | 1 |  |  | Peds | Total |  |
| 16:45 | 8 | 100 | 12 | 0 | 0 | 120 | 25 | 227 | 66 | 0 | 0 | 318 | 16 | 32 | 6 | 0 | 0 | 54 | 11 | 43 | 7 | 0 | 0 | 61 | 553 |
| 17:00 | 8 | 76 | 10 | 0 | 0 | 94 | 19 | 258 | 78 | 0 | 0 | 355 | 32 | 49 | 11 | 0 | 0 | 92 | 18 | 65 | 9 | 0 | 0 | 92 | 633 |
| 17:15 | 7 | 89 | 9 | 1 | 0 | 106 | 15 | 220 | 67 | 0 | 0 | 302 | 21 | 32 | 3 | 0 | 0 | 56 | 16 | 57 | 12 | 0 | 0 | 85 | 549 |
| 17:30 | 11 | 79 | 8 | 0 | 0 | 98 | 31 | 256 | 77 | 0 | 0 | 364 | 32 | 29 | 3 | 0 | 0 | 64 | 10 | 58 | 18 | 0 | 0 | 86 | 612 |
| $\begin{aligned} & \text { Grand } \\ & \text { Total } \end{aligned}$ | 34 | 344 | 39 | 1 | 0 | 418 | 90 | 961 | 288 | 0 | 0 | 1339 | 101 | 142 | 23 | 0 | 0 | 266 | 55 | 223 | 46 | 0 | 0 | 324 | 2347 |
| Approach | 8.1 | 82.3 | 9.3 | 0.2 |  | - | 6.7 | 71.8 | 21.5 | 0 |  | - | 38 | 53.4 | 8.6 | 0 |  | - | 17 | 68.8 | 14.2 | 0 |  | - |  |
| Totals \% | 1.4 | 14.7 | 1.7 | 0 |  | 17.8 | 3.8 | 40.9 | 12.3 | 0 |  | 57.1 | 4.3 | 6.1 | 1 | 0 |  | 11.3 | 2.3 | 9.5 | 2 | 0 |  | 13.8 |  |
| PHF | 0.77 | 0.86 | 0.81 | 0.25 |  | 0.87 | 0.73 | 0.93 | 0.92 | 0 |  | 0.92 | 0.79 | 0.72 | 0.52 | 0 |  | 0.72 | 0.76 | 0.86 | 0.64 | 0 |  | 0.88 | 0.93 |
| Cars | 28 | 301 | 30 | 1 |  | 360 | 78 | 856 | 268 | 0 |  | 1202 | 85 | 129 | 21 | 0 |  | 235 | 44 | 198 | 38 | 0 |  | 280 | 2077 |
| \% Cars | 82.4 | 87.5 | 76.9 | 100 |  | 86.1 | 86.7 | 89.1 | 93.1 | 0 |  | 89.8 | 84.2 | 90.8 | 91.3 | 0 |  | 88.3 | 80 | 88.8 | 82.6 | 0 |  | 86.4 | 88.5 |
| Trucks | 3 | 39 | 9 | 0 |  | 51 | 12 | 102 | 20 | 0 |  | 134 | 14 | 13 | 0 | 0 |  | 27 | 11 | 24 | 7 | 0 |  | 42 | 254 |
| \% Trucks | 8.8 | 11.3 | 23.1 | 0 |  | 12.2 | 13.3 | 10.6 | 6.9 | 0 |  | 10 | 13.9 | 9.2 | 0 | 0 |  | 10.2 | 20 | 10.8 | 15.2 | 0 |  | 13 | 10.8 |
| Buses | 3 | 4 | 0 | 0 |  | 7 | 0 | 3 | 0 | 0 |  | 3 | 1 | 0 | 2 | 0 |  | 3 | 0 | 1 | 1 | 0 |  | 2 | 15 |
| \% Buses | 8.8 | 1.2 | 0 | 0 |  | 1.7 | 0 | 0.3 | 0 | 0 |  | 0.2 | 1 | 0 | 8.7 | 0 |  | 1.1 | 0 | 0.4 | 2.2 | 0 |  | 0.6 | 0.6 |
| Bicycles | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 |  | 1 | 0 | 0 | 0 | 0 |  | 0 | 1 |
| \% Bicycles | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 1 | 0 | 0 | 0 |  | 0.4 | 0 | 0 | 0 | 0 |  | 0 | 0 |
| Peds |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - | 0 |
| \% Peds |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |

## Project \#19326 - City of Vaughan

## Intersection Count Report

| Intersection: | Keele St \& Vista Gate |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |
| Site Code: | 1932600005 |
| Count Categories: | Cars, Trucks, Buses, Bicycles, Pedestrians |
| Count Period: | $07: 00-10: 00,14: 00-19: 00$ |
| Weather: | Clear |

# Traffic Count Map 

Intersection:
Municipality:
Keele St \& Vista Gate
Count Date: $\quad$ Oct 02, 2019


# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

Intersection: Keele St \& Vista Gate<br>Municipality: Vaughan<br>Count Date: $\quad$ Oct 02, 2019

## Keele St - Traffic Summary

| Hour | North Approach Totals |  |  |  |  |  | South Approach Totals |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  |
|  | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| 07:00-08:00 | 20 | 2009 | 0 | 0 | 2029 | 0 | 0 | 340 | 23 | 0 | 363 | 0 |
| 08:00-09:00 | 44 | 1744 | 0 | 0 | 1788 | 0 | 0 | 440 | 37 | 0 | 477 | 0 |
| 09:00-10:00 | 18 | 959 | 0 | 0 | 977 | 0 | 0 | 273 | 27 | 1 | 301 | 0 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 20 | 311 | 0 | 0 | 331 | 0 | 0 | 469 | 47 | 0 | 516 | 2 |
| 15:00-16:00 | 42 | 387 | 0 | 0 | 429 | 0 | 0 | 820 | 47 | 0 | 867 | 6 |
| 16:00-17:00 | 33 | 410 | 0 | 0 | 443 | 0 | 0 | 1143 | 67 | 0 | 1210 | 0 |
| 17:00-18:00 | 37 | 446 | 0 | 0 | 483 | 0 | 0 | 1237 | 101 | 0 | 1338 | 0 |
| 18:00-19:00 | 49 | 324 | 0 | 1 | 374 | 0 | 0 | 790 | 63 | 0 | 853 | 0 |
| GRAND TOTAL | 263 | 6590 | 0 | 1 | 6854 | 0 | 0 | 5512 | 412 | 1 | 5925 | 8 |

# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

Intersection:<br>Municipality:<br>Count Date:<br>Keele St \& Vista Gate<br>Vaughan<br>Oct 02, 2019

## Vista Gate - Traffic Summary

## East Approach Totals

Includes Cars, Trucks, Buses, Bicycles

| Hour | Left | Thru | Right | U-Turn | Total |  | Peds | Left | Thru | Right | U-Turn | Total |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | :--- | :--- | :--- | :--- | :--- | :--- | Peds

## Traffic Count Data

Ontario Traffic Inc.<br>TRAFFIC MONITORING *SERVICES A PRODUCTS

| Intersection: | Keele St \& Vista Gate |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |


| North Approach - Kecle St |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cars |  |  |  |  | ucks |  |  |  |  | uses |  |  |  |  | ycles |  |  |  |
| Start Time | 4 | 1 | $\xrightarrow{+}$ | $\bigcirc$ | Total | 4 | - |  | ? | Total | 4 | 1 |  | ? | Total | 4 | 1 |  | $\bigcirc$ | Total | $\begin{array}{\|l\|l\|} \hline \text { Total } \\ \text { Peds } \end{array}$ |
| 07:00 | 5 | 353 | 0 | 0 | 358 | 0 | 49 | 0 | 0 | 49 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 2 | 466 | 0 | 0 | 468 | 0 | 59 | 0 | 0 | 59 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 5 | 464 | 0 | 0 |  | 0 | 54 | 0 | 0 | 54 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 4 | 500 | 0 | 0 | 504 | 2 | 50 | 0 | 0 | 52 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 5 | 416 | 0 | 0 |  | 0 | 48 | 0 | 0 | 48 | 2 | 4 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 9 |  | 0 | 0 | 456 | 0 | 43 | 0 | 0 | 43 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 15 | 345 | 0 | 0 | 360 | 0 | 37 | 0 | 0 | 37 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 13 | 353 | 0 | 0 | 366 | 0 | 42 | 0 | 0 | 42 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 3 | 275 | 0 | 0 | 278 | 0 | 40 | 0 | 0 | 40 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 5 | 257 | 0 | 0 | 262 | 1 | 23 | 0 | 0 | 24 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 1 | 151 | 0 | 0 | 152 | 0 | 36 | 0 | 0 | 36 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 8 | 143 | 0 | 0 |  | 0 | 30 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 75 | 4170 | 0 | 0 | 4245 | 3 | 511 | 0 | 0 |  | 4 | 31 | 0 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

| North Approach - Keele St |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cars |  |  |  |  | ucks |  |  |  |  | uses |  |  |  |  | ycles |  |  |  |
| Start Time | 4 | + |  | $\bigcirc$ | Total | 4 | + |  |  | Total | 4 | 1 |  | $\bigcirc$ | Total | 4 | - |  | ? | Total | $\begin{array}{\|l\|l\|} \hline \text { Total } \\ \text { Peds } \end{array}$ |
| 14:00 | 6 | 63 | 0 | 0 | 69 | 1 | 16 | 0 | 0 | 17 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 3 | 49 | 0 | 0 | 52 | 2 | 13 | 0 | 0 | 15 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 3 | 61 | 0 | 0 | 64 | 1 | 17 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 4 | 62 | 0 | 0 | 66 | 0 | 19 | 0 | 0 | 19 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 5 | 70 | 0 | 0 | 75 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 10 | 74 | 0 | 0 | 84 | 1 | 16 | 0 | 0 | 17 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 13 | 87 | 0 | 0 | 100 | 0 | 20 | 0 | 0 | 20 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 11 | 90 | 0 | 0 | 101 | 2 | 13 | 0 | 0 | 15 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 6 | 62 | 0 | 0 | 68 | 0 | 15 | 0 | 0 | 15 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 7 | 95 | 0 | 0 | 102 | 0 | 5 | 0 | 0 | 5 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 11 | 84 | 0 | 0 | 95 | 2 | 22 | 0 | 0 | 24 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 7 | 96 | 0 | 0 | 103 | 0 | 17 | 0 | 0 | 17 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 7 | 89 | 0 | 0 | 96 | 1 | 18 | 0 | 0 | 19 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 10 | 98 | 0 | 0 | 108 | 1 | 11 | 0 | 0 | 12 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| 17:30 | 9 | 108 | 0 | 0 | 117 | 1 | 11 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 8 | 94 | 0 | 0 | 102 | 0 | 12 | 0 | 0 |  | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 12 | 82 | 0 | 0 | 94 | 2 | 5 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 9 | 73 | 0 | 1 | 83 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 12 | 61 | 0 | 0 | 73 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 |
| 18:45 | 14 | 68 | 0 | 0 | 82 | 0 |  | 0 | 0 |  | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 167 | 1566 | 0 | 1 | 1734 | 14 | 273 | 0 | 0 |  | 0 | 36 | 0 | 0 | 36 | 0 | 3 | 0 | 0 | 3 | 0 |


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | A | + |  | Total | 4 | - |  |  | Total | 4 | - |  |  | tal |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 242 | 5736 | 0 | 1 | 5979 | 17 | 784 | 0 | 0 | 801 | 4 | 67 | 0 | 0 | 71 | 0 | 3 | 0 | 0 | 3 | 0 |

## Traffic Count Data

Ontario Traffic Inc.<br>tRAFFIC MONITORING * SERVICES E PRODUCTS

Intersection: Keele St \& Vista Gate
Municipality: Vaughan
Count Date: $\quad$ Oct 02,2019

## South Approach - Keele St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{\text { r }}$ | 饣. | Total | 4 | + |  |  | Total | 4 | + |  |  | Total | 4 |  |  |  | Total |  |
| 07:00 | 0 | 36 | 4 | 0 | 40 | 0 | 17 | 0 | 0 | 17 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 0 | 56 | 5 | 0 |  | 0 | 16 | 0 | 0 | 16 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 0 | 74 | 5 | 0 | 79 | 0 | 29 | 1 | 0 | 30 | 0 | 6 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 85 | 6 | 0 | 91 | 0 | 17 | 0 | 0 | 17 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 0 | 88 | 8 | 0 | 96 | 0 | 18 | 0 | 0 | 18 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 0 | 99 | 3 | 0 | 102 | 0 | 23 | 1 | 0 | 24 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 0 | 90 | 10 | 0 | 100 | 0 | 22 | 0 | 0 | 22 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 0 | 79 | 14 | 0 | 93 | 0 | 13 | 0 | 0 | 13 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 0 | 65 | 10 | 0 | 75 | 0 | 17 | 0 | 0 | 17 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 0 | 38 | 5 | 0 | 43 | 0 | 10 | 0 | 0 | 10 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 0 | 54 | 4 | 1 | 59 | 0 | 16 | 0 | 0 | 16 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 0 | 40 | 8 | 0 | 48 | 0 | 19 | 0 | 0 | 19 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 804 | 82 | 1 | 887 | 0 | 217 | 2 | 0 | 219 | 0 | 32 | 3 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \&ERVICES A PRODUCTS

| Intersection: | Keele St \& Vista Gate |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |

## South Approach - Keele St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{1}$ | $\bigcirc$ | Total | 4 | + |  |  | Total | 4 | 1 |  |  | Total | 4 | + |  |  | Total |  |
| 14:00 | 0 | 75 | 11 | 0 | 86 | 0 | 28 | 1 | 0 | 29 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 76 | 10 | 0 | 86 | 0 | 21 | 1 | 0 | 22 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 |
| 14:30 | 0 | 101 | 11 | 0 | 112 | 0 | 19 | 1 | 0 | 20 | 0 | 6 | 2 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 118 | 8 | 0 | 126 | 0 | 18 | 2 | 0 | 20 | 0 | 0 | 0 | 0 | , | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 138 | 5 | 0 | 143 | 0 | 35 | 1 | 0 | 36 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 |
| 15:15 | 0 | 153 | 9 | 0 | 162 | 0 | 33 | 0 | 0 | 33 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 15:30 | 0 | 169 | 14 | 0 | 183 | 0 | 34 | 2 | 0 | 36 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 15:45 | 0 | 208 | 14 | 0 | 222 | 0 | 41 | 2 | O | 43 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 |
| 16:00 | 0 | 200 | 13 | 0 | 213 | 0 | 37 | 0 | 0 | 37 | 0 |  | , | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 257 | 16 | 0 | 273 | 0 | 42 | 2 | 0 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 245 | 22 | 0 | 267 | 0 | 44 | 1 | 0 | 45 | 0 | 1 |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 280 | 11 | 0 | 291 | 0 | 33 | 1 | 0 | 34 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 318 | 20 | 0 | 338 | 0 | 33 | 1 | 0 | 34 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 270 | 28 | 0 | 298 | 0 | 24 | 4 | 0 | 28 | 0 | 0 | 0 | 0 | , | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 310 | 29 | 0 | 339 | 0 | 43 | 0 | 0 | 43 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 214 | 18 | 0 | 232 | 0 | 23 | 1 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 0 | 225 | 7 | 0 | 232 | 0 | 29 | 1 | 0 | 30 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 0 | 195 | 13 | 0 | 208 | 0 | 13 | 2 | 0 | 15 | 0 | , | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 0 | 169 | 20 | 0 | 189 | 0 | 23 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 0 | 120 | 18 | 0 | 138 | 0 | 12 | 1 | 0 | 13 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 3841 | 297 | 0 | 4138 | 0 | 585 | 24 | 0 | 609 | 0 | 33 | 4 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 8 |



## Traffic Count Data

Ontario Traffic Inc.<br>traffic monitoring * services a products

| Intersection: | Keele St \& Vista Gate |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |

East Approach - Vista Gate

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{1}$ |  | Total | 4 | + | $\stackrel{+}{+}$ |  | Total | 4 | 1 | 1 |  | Total | 4 | ث |  |  | Total |  |
| 07:00 | 12 | 0 | 4 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 12 | 0 | 9 | 0 | 21 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 07:30 | 16 | 0 | 4 | 1 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 8 | 0 | 7 | 0 | 15 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 8 | 0 | 11 | 0 | 19 | 3 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 7 | 0 | 13 | 0 | 20 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 11 | 0 | 7 | 0 | 18 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 14 | 0 | 10 | 0 | 24 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:00 | 9 | 0 | 7 | 0 | 16 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:15 | 9 | 0 | 2 | 0 | 11 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 7 | 0 | 7 | 0 | 14 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 8 | 0 | 8 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 121 | 0 | 89 | 1 | 211 | 7 | 0 | 7 | 0 | 14 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \& SERVICES A PRODUCTS

Intersection: Keele St \& Vista Gate
Municipality: Vaughan
Count Date: $\quad$ Oct 02, 2019

## East Approach - Vista Gate

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{1}{1}$ | ? | Total | 4 | 1 | - | ? | Total | 4 | 1 | $\stackrel{\rightharpoonup}{+}$ | ? | Total | 4 | - | $\stackrel{+}{1}$ |  | Total |  |
| 14:00 | 6 | 0 | 4 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 6 | 0 | 5 | 0 | 11 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 12 | 0 | 5 | 0 | 17 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 6 | 0 | 6 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 13 | 0 | 6 | 0 | 19 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 15:15 | 12 | 0 | 6 | 0 | 18 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 15:30 | 9 | 0 | 7 | 0 | 16 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 12 | 0 | 8 | 0 | 20 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 9 | 0 | 8 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 2 | 0 | 5 | 0 | 7 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 10 | 0 | 9 | 1 | 20 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 3 | 0 | 4 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 6 | 0 | 3 | 0 | 9 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 10 | 0 | 8 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 10 | 0 | 9 | 0 | 19 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 7 | 0 | 7 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 11 | 0 | 10 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 6 | 0 | 5 | 0 | 11 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 6 | 0 | 9 | 1 | 16 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 17 | 0 | 9 | 0 | 26 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 173 | 0 | 133 | 2 | 308 | 13 | 0 | 9 | 0 | 22 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 今 | 1 |  | otal | 4 |  | $\stackrel{\rightharpoonup}{r}$ |  | tal | - | t |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 294 | 0 | 222 | 3 | 519 | 20 | 0 | 16 | 0 | 36 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 5 |

## Peak Hour Diagram



Ontario Traffic Inc．
TRAFFIC MONITORING \＆ERVICES S PRODUCTS

## Specified Period

| From： | $07: 00: 00$ | From： | $07: 30: 00$ |
| :--- | :--- | :--- | :--- |
| To： | $10: 00: 00$ | To： | $08: 30: 00$ |

Intersection：
Site ID：
Count Date：

Keele St \＆Vista Gate
1932600005
Oct 02， 2019

## Weather conditions：



Major Road：Keele St runs N／S

East Approach

| Out | In | Total |  |
| ---: | ---: | ---: | ---: |
|  | 75 | 46 | 121 |
| an | 8 | 4 | 12 |
| O | 0 | 4 | 4 |
| 0 | 0 | 0 | 0 |
| $\mathbf{8 3}$ | $\mathbf{5 4}$ | $\mathbf{1 3 7}$ |  |

> Peds: 0
> Peds: 0
> Keele St

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Keele St \& Vista Gate |
| :--- | :--- |
| Count Date: | $0 c t 02,2019$ |
| Period: | $07: 00-10: 00$ |

Peak Hour Data (07:30-08:30)

|  | North Approach Keele St |  |  |  |  | South Approach Keele St |  |  |  |  | East Approach Vista Gate |  |  |  |  | West Approach |  |  |  | Total Vehicl es |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | - | $\uparrow$ |  |  | Total | - 1 |  |  |  | Total |  |  |  | Peds | Total |  | $1 \quad$ ? | Peds | Total |  |
| 07:30 | 5 | 521 | 0 | 0 | 526 | 109 | 7 | 0 | 0 | 116 | 16 | 4 | 1 | 0 | 21 |  |  | 0 |  | 663 |
| 07:45 | 6 | 554 | 0 | 0 | 560 | 103 | 6 | 0 | 0 | 109 | 9 | 9 | 0 | 0 | 18 |  |  | 0 |  | 687 |
| 08:00 | 7 | 468 | 0 | 0 | 475 | 109 | 9 | 0 | 0 | 118 | 11 | 12 | 0 | 0 | 23 |  |  | 0 |  | 616 |
| 08:15 | 9 | 494 | 0 | 0 | 503 | 123 | 4 | 0 | 0 | 127 | 7 | 14 | 0 | 0 | 21 |  |  | 0 |  | 651 |
| Grand Total | 27 | 2037 | 0 | 0 | 2064 | 444 | 26 | 0 | 0 | 470 | 43 | 39 | 1 | 0 | 83 |  |  | 0 | 0 | 2617 |
| $\begin{aligned} & \text { Approach } \\ & \% \end{aligned}$ | 1.3 | 98.7 | 0 |  | - | 94.5 | 5.5 | 0 |  | - | 51.8 | 47 | 1.2 |  | - |  |  |  | - |  |
| Totals \% | 1 | 77.8 | 0 |  | 78.9 | 17 | 1 | 0 |  | 18 | 1.6 | 1.5 | 0 |  | 3.2 |  |  |  | 0 |  |
| PHF | 0.75 | 0.92 | 0 |  | 0.92 | 0.9 | 0.72 | 0 |  | 0.93 | 0.67 | 0.7 | 0.25 |  | 0.9 |  |  |  | 0 | 0.95 |
| Cars | 23 | 1827 | 0 |  | 1850 | 346 | 22 | 0 |  | 368 | 39 | 35 | 1 |  | 75 |  |  |  | 0 | 2293 |
| \% Cars | 85.2 | 89.7 | 0 |  | 89.6 | 77.9 | 84.6 | 0 |  | 78.3 | 90.7 | 89.7 | 100 |  | 90.4 |  |  |  | 0 | 87.6 |
| Trucks | 2 | 195 | 0 |  | 197 | 87 | 2 | 0 |  | 89 | 4 | 4 | 0 |  | 8 |  |  |  | 0 | 294 |
| \% Trucks | 7.4 | 9.6 | 0 |  | 9.5 | 19.6 | 7.7 | 0 |  | 18.9 | 9.3 | 10.3 | 0 |  | 9.6 |  |  |  | 0 | 11.2 |
| Buses | 2 | 15 | 0 |  | 17 | 11 | 2 | 0 |  | 13 | 0 | 0 | 0 |  | 0 |  |  |  | 0 | 30 |
| \% Buses | 7.4 | 0.7 | 0 |  | 0.8 | 2.5 | 7.7 | 0 |  | 2.8 | 0 | 0 | 0 |  | 0 |  |  |  | 0 | 1.1 |
| Bicycles | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 |  |  |  | 0 | 0 |
| \% Bicycles | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 |  |  |  | 0 | 0 |
| Peds |  |  |  | 0 | - |  |  |  | 0 | - |  |  |  | 0 | - |  |  | 0 | - | 0 |
| \% Peds |  |  |  | 0 | - |  |  |  | 0 | - |  |  |  | 0 | - |  |  | 0 | - |  |

## Peak Hour Diagram



Ontario Traffic Inc．
TRAFFIC MONITORING \＆SERVICES A PRODUCTS

## Specified Period

From：14：00：00
To：19：00：00

One Hour Peak
From：
To：

16：45：00
17：45：00

Intersection：
Site ID：
Count Date：

Keele St \＆Vista Gate
1932600005
Oct 02， 2019

## Weather conditions：

| North Approach |  |  |  | Keele St |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Out | In | Total | お6 | 1 | 0 | 0 |
| $\square$ | 424 | 1202 | 1626 | 圂 | 6 | 0 | 0 |
| 51 | 60 | 134 | 194 |  | 57 | 3 | 0 |
| 匃 | 6 | 3 | 9 | 日 | 391 | 33 | 0 |
| \％ | 1 | 0 | 1 | Totals | 455 | 36 | 0 |
|  | 491 | 1339 | 1830 |  |  |  |  |

Peds： 0


Peds： 0

| Totals | $1314$ | $\rightarrow$ ？ |  |
| :---: | :---: | :---: | :---: |
|  |  | 94 | 0 |
| 日 | 1178 | 88 | 0 |
|  | 133 | 6 | 0 |
| ⿴囗玉 | 3 | 0 | 0 |
| \％ | 0 | 0 | 0 |

Keele St

Major Road：Keele St runs N／S

East Approach

| Out | In | Total |  |
| :--- | ---: | ---: | ---: |
|  | 53 | 121 | 174 |
| an | 2 | 9 | 11 |
| On | 0 | 0 | 0 |
| 0 | 0 | 0 |  |
| $\mathbf{5 5}$ | $\mathbf{1 3 0}$ | $\mathbf{1 8 5}$ |  |

Vista Gate

|  | Totals | 日 | 0.0 | 国 | －${ }^{\text {B }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| C | 0 | 0 | 0 | 0 | 0 |
|  | 25 | 24 | 1 | 0 | 0 |
| $\Gamma$ | 30 | 29 | 1 | 0 | 0 |

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Keele St \& Vista Gate |
| :--- | :--- |
| Count Date: | $0 c t 02,2019$ |
| Period: | $14: 00-19: 00$ |

Peak Hour Data (16:45-17:45)


Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

## Project \#19326 - City of Vaughan

## Intersection Count Report

| Intersection: | Keele St \& Peak Point Blvd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | $0 c t 02,2019$ |
| Site Code: | 1932600006 |
| Count Categories: | Cars, Trucks, Buses, Bicycles, Pedestrians |
| Count Period: | 07:00-10:00, 14:00-19:00 |
| Weather: | Clear |

## Traffic Count Map

Intersection:
Municipality:
Keele St \& Peak Point Blvd


# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

Intersection:
Municipality:
Count Date:

Keele St \& Peak Point Blvd
Vaughan
Oct 02, 2019

## Keele St - Traffic Summary

| Hour | North Approach Totals |  |  |  |  |  | South Approach Totals |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  |
|  | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| 07:00-08:00 | 4 | 2049 | 0 | 0 | 2053 | 3 | 0 | 343 | 33 | 0 | 376 | 0 |
| 08:00-09:00 | 6 |  | 0 | 1 | 1807 | 1 | 0 | 443 | 82 | 0 | 525 | 0 |
| 09:00-10:00 | 9 |  | 0 | 0 | 997 | 0 | 0 | 289 | 45 | 0 | 334 | 0 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 10 |  | 0 | 0 | 341 | 1 | 0 | 507 | 95 | 0 | 602 | 0 |
| 15:00-16:00 | 8 | 428 | 0 | 0 | 436 | 0 | 0 | 850 | 142 | 0 | 992 | 0 |
| 16:00-17:00 | 16 | 418 | 0 | 0 | 434 | 2 | 0 | 1185 | 185 | 0 | 1370 | 2 |
| 17:00-18:00 | 12 | 474 | 0 | 0 | 486 | 1 | 0 | 1325 | 207 | 0 | 1532 | 0 |
| 18:00-19:00 | 10 | 355 | 0 | 1 | 366 | 0 | 0 | 841 | 174 | 0 | 1015 | 0 |
| GRAND TOTAL | 75 | 6843 | 0 | 2 | 6920 | 8 | 0 | 5783 | 963 | 0 | 6746 | 2 |

# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection:
Municipality:
Count Date:

Keele St \& Peak Point Blvd
Vaughan
Oct 02, 2019

## Peak Point Blvd - Traffic Summary

## East Approach Totals

West Approach Totals
Includes Cars, Trucks, Buses, Bicycles
Includes Cars, Trucks, Buses, Bicycles

| Hour | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00-08:00 | 296 | 0 | 18 | 0 | 314 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00-09:00 | 249 | 0 | 28 | 0 | 277 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00-10:00 | 109 | 0 | 16 | 0 | 125 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 62 | 0 | 6 | 0 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00-16:00 | 99 | 0 | 13 | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00-17:00 | 89 | 0 | 11 | 0 | 100 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 17:00-18:00 | 106 | 0 | 11 | 0 | 117 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00-19:00 | 104 | 0 | 9 | 0 | 113 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GRAND TOTAL | 1114 | 0 | 112 | 0 | 1226 | 6 | 0 | 0 | 0 | 0 | 0 | 2 |

## Traffic Count Data

Ontario Traffic Inc.<br>TRAFFIC MONITORING * SERVICES E PRODUCTS

| Intersection: | Keele St \& Peak Point Blvd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |


| North Approach - Kecle St |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cars |  |  |  |  | ucks |  |  |  |  | uses |  |  |  |  | ycles |  |  |  |
| Start Time | 4 | + | $\xrightarrow{+}$ | - | Total | 4 | + | $\stackrel{\rightharpoonup}{1}$ | ? | Total | 4 | 1 |  | 2 | Total | 4 | + |  | $\bigcirc$ | Total | Peds |
| 07:00 | , | 364 | 0 | 0 | 365 | 0 | 49 | 0 | 0 | 49 | 2 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 0 |  | 0 | 0 | 478 | 0 | 64 | 0 | 0 | 64 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 0 |  | 0 | 0 | 480 | 0 | 52 | 0 | 0 | 52 | , | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 |
| 07:45 | 0 | 504 | 0 | 0 | 504 | 0 | 47 | 0 | 0 |  | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 |
| 08:00 | 1 | 422 | 0 | 0 |  | 0 | 55 | 0 | 0 | 55 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 2 |  | 0 | 1 | 460 | 1 | 44 | 0 | 0 | 45 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 1 | 358 | 0 | 0 | 359 | 0 | 32 | 0 | 0 | 32 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 0 | 373 | 0 | 0 | 373 | 1 | 46 | 0 | 0 | 47 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:00 | 2 | 285 | 0 | 0 | 287 | 0 | 40 | 0 | 0 | 40 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 2 | 263 | 0 | 0 | 265 | 1 | 27 | 0 | 0 | 28 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 3 |  | 0 | 0 | 162 | 0 | 38 | 0 | 0 | 38 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 1 | 146 | 0 | 0 |  | 0 | 26 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 13 | 4289 | 0 | 1 | 4303 | 3 | 520 | 0 | 0 |  | 3 | 28 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 4 |

## Traffic Count Data

| North Approach - Keele St |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ars |  |  |  |  | ucks |  |  |  |  | uses |  |  |  |  | ycles |  |  |  |
| Start Time | 4 | 1 |  | $\bigcirc$ |  | 4 | 1 |  | マ | Total | 4 | 令 |  | ? | Total | 4 | - |  |  | Total | $\left\lvert\, \begin{aligned} & \text { Total } \\ & \text { Peds } \end{aligned}\right.$ |
| 14:00 | 3 | 63 | 0 | 0 | 66 | 0 | 15 | 0 | 0 | 15 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 1 | 53 | 0 | 0 | 54 | 0 | 11 | 0 | 0 | 11 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 |
| 14:30 | 2 | 74 | 0 | 0 | 76 | 1 | 18 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 2 | 65 | 0 | 0 | 67 | 0 | 21 | 0 | 0 | 21 | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 2 | 79 | 0 | 0 | 81 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 3 | 86 | 0 | 0 | 89 | 0 | 14 | 0 | 0 | 14 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 1 | 93 | 0 | 0 | 94 | 0 | 22 | 0 | 0 | 22 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 2 | 102 | 0 | 0 |  | 0 | 16 | 0 | 0 | 16 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 4 | 64 | 0 | 0 | 68 | 3 | 11 | 0 | 0 | 14 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 |
| 16:15 | 3 | 96 | 0 | 0 | 99 | 0 | 9 | 0 | 0 | 9 | 0 | 4 | - | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 3 | 91 | 0 | 0 | 94 | 2 | 18 | 0 | 0 | 20 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 1 | 102 | 0 | 0 | 103 | 0 | 13 | 0 | 0 | 13 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 93 | 0 | 0 | 93 | 0 | 16 | 0 | 0 | 16 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 |
| 17:15 | 2 | 109 | 0 | 0 | 111 | 0 | 15 | 0 | 0 | 15 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| 17:30 | 4 | 114 | 0 | 0 |  | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 6 |  | 0 | 0 |  | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 3 |  | 0 | 0 | 95 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 3 |  | 0 | 0 |  | 0 | 12 | 0 | 0 | 12 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 1 | 60 | 0 | 1 |  | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 |
| 18:45 | 2 | 84 | 0 | 0 | 86 | 1 | 19 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 48 | 1695 | 0 | 1 | 1744 | 7 | 272 | 0 | 0 | 279 | 1 | 36 | 0 | 0 | 37 | 0 | 3 | 0 | 0 | 3 | 4 |


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 |  |  |  | Total | 4 |  |  |  | Total | 4 | 1 |  |  | tal | - |  |  |  | tal |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 61 | 5984 | 0 | 2 | 6047 | 10 | 792 | 0 | 0 | 802 | 4 | 64 | 0 | 0 | 68 | 0 | 3 | 0 | 0 | 3 | 8 |

## Traffic Count Data

Ontario Traffic Inc.<br>TRAFFIC MONITORING *SERVICES A PRODUCTS

| Intersection: | Keele St \& Peak Point Blvd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |

South Approach - Keele St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{1}{+}$ |  | Total | 4 | - |  |  | Total | 4 | + |  | ค | Total | 4 | 1 |  | $\bigcirc$ | Total |  |
| 07:00 | 0 | 33 | 5 | 0 | 38 | 0 | 19 | 0 | 0 | 19 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 0 | 55 | 5 | 0 | 60 | 0 | 20 | 0 | 0 | 20 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 0 | 75 | 7 | 0 | 82 | 0 | 25 | 0 | 0 | 25 | 0 | 6 | 1 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 85 | 12 | 0 | 97 | 0 | 20 | 0 | 0 | 20 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 0 | 89 | 13 | 0 | 102 | 0 | 16 | 0 | 0 | 16 | 0 | 3 | , | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 0 | 98 | 25 | 0 | 123 | 0 | 20 | 1 | 0 | 21 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 0 | 93 | 24 | 0 | 117 | 0 | 19 | 3 | 0 | 22 | 0 | 3 |  | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 0 | 87 | 14 | 0 | 101 | 0 | 13 | 0 | 0 | 13 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 0 | 75 | 15 | 0 | 90 | 0 | 14 | 1 | 0 | 15 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 0 | 40 | 7 | 0 | 47 | 0 | 15 | 1 | 0 | 16 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 0 | 56 | 7 | 0 | 63 | 0 | 17 | 0 | 0 | 17 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 0 | 43 | 9 | 0 | 52 | 0 | 15 | 2 | 0 | 17 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 829 | 143 | 0 | 972 | 0 | 213 | 8 | 0 | 221 | 0 | 33 | 9 | 0 | 42 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

## South Approach - Keele St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{4}$ | 2 | Total | 4 | + | $\stackrel{1}{1}$ |  | Total | 4 | + |  | 2 | Total | 4 | + | $\stackrel{1}{1+}$ | 2 | Total |  |
| 14:00 | 0 | 79 | 14 | 0 | 93 | 0 | 26 | 1 | 0 | 27 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 89 | 14 | 0 | 103 | 0 | 27 | 2 | 0 | 29 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 110 | 25 | 0 | 135 | 0 | 20 | 3 | 0 | 23 | 0 | 8 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 124 | 32 | 0 | 156 | 0 | 17 | 2 | 0 | 19 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 134 | 16 | 0 | 150 | 0 | 32 | 1 | 0 | 33 | 0 | 4 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 162 | 41 | 0 | 203 | 0 | 32 | 1 | 0 | 33 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 180 | 42 | 0 | 222 | 0 | 32 | 2 | 0 | 34 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 228 | 34 | 0 | 262 | 0 | 42 | 3 | 0 | 45 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 209 | 36 | 0 | 245 | 0 | 36 | 5 | 0 | 41 | 0 | 4 | 2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 273 | 30 | 0 | 303 | 0 | 40 | 1 | 0 | 41 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| 16:30 | 0 | 263 | 50 | 0 | 313 | 0 | 43 | 2 | 0 | 45 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 281 | 53 | 0 | 334 | 0 | 34 | 3 | 0 | 37 | 0 | 1 | 0 | , | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 330 | 58 | 0 | 388 | 0 | 29 | 6 | 0 | 35 | 0 | 1 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 297 | 43 | 0 | 340 | 0 | 29 | 3 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 335 | 48 | 0 | 383 | 0 | 43 | 2 | 0 | 45 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 231 | 42 | 0 | 273 | 0 | 29 | 1 | 0 | 30 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 0 | 229 | 48 | 0 | 277 | 0 | 28 | 2 | 0 | 30 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 0 | 209 | 45 | 0 | 254 | 0 | 16 | 4 | 0 | 20 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | , | 0 |
| 18:30 | 0 | 183 | 33 | 0 | 216 | 0 | 24 | 2 | 0 | 26 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 0 | 135 | 34 | 0 | 169 | 0 | 12 | 3 | 0 | 15 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 4081 | 738 | 0 | 4819 | 0 | 591 | 49 | 0 | 640 | 0 | 36 | 16 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 2 |


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 |  | $\stackrel{+}{+}$ |  | Total | 4 | + |  |  | Total | 4 | - | $\Rightarrow$ |  | tal |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 0 | 4910 | 881 | 0 | 5791 | 0 | 804 | 57 | 0 | 861 | 0 | 69 | 25 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 2 |

## Traffic Count Data

| Intersection: | Keele St \& Peak Point Blvd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02,2019 |

East Approach - Peak Point Blvd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{1}$ | $\nabla$ | Total | 4 | - | $\stackrel{r}{r}$ |  | Total | 4 | + | $\stackrel{+}{+}$ |  | Total | 4 | + | + |  | Total |  |
| 07:00 | 54 | 0 | 2 | 0 | 56 | 7 | 0 | 1 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 64 | 0 | 3 | 0 | 67 | 6 | 0 | 0 | 0 | 6 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 80 | 0 | 4 | 0 | 84 | 5 | 0 | 0 | 0 | 5 | 4 | 0 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 70 | 0 | 7 | 0 | 77 | 1 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 |
| 08:00 | 87 | 0 | 7 | 0 | 94 | 3 | 0 | 0 | 0 | 3 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 44 | 0 | 6 | 0 | 50 | 3 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 57 | 0 | 7 | 0 | 64 | 1 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 49 | 0 | 5 | 0 | 54 | 1 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 30 | 0 | 4 | 0 | 34 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 26 | 0 | 3 | 0 | 29 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 17 | 0 | 4 | 0 | 21 | 4 | 0 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 23 | 0 | 4 | 0 | 27 | 4 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 601 | 0 | 56 | 0 | 657 | 37 | 0 | 4 | 0 | 41 | 16 | 0 | 2 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 1 |

## Traffic Count Data

Ontario Traffic Inc.<br>traffic monitoring \&services a products

| Intersection: | Keele St \& Peak Point Blvd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |

East Approach - Peak Point Blvd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{1}$ |  | Total | 4 | 1 | - |  | Total | 4 | + |  |  | Total | 4 |  |  |  |  |
| 14:00 | 8 | 0 | 2 | 0 | 10 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 14:15 | 14 | 0 | 1 | 0 | 15 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 14:30 | 15 | 0 | 0 | 0 | 15 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  |
| 14:45 | 17 | 0 | 2 | 0 | 19 | 2 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 15:00 | 16 | 0 | 5 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  |
| 15:15 | 12 | 0 | 2 | 0 | 14 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |  |
| 15:30 | 30 | 0 | 1 | 0 | 31 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  |
| 15:45 | 36 | 0 | 2 | 0 | 38 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 16:00 | 24 | 0 | 4 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 16:15 | 13 | 0 | 0 | 0 | 13 | 2 | 0 | 1 | 0 | 3 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |  |
| 16:30 | 30 | 0 | 2 | 0 | 32 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 16:45 | 16 | 0 | 4 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  |
| 17:00 | 25 | 0 | 4 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 17:15 | 16 | 0 | 2 | 0 | 18 | 3 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  |
| 17:30 | 25 | 0 | 4 | 0 | 29 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  |
| 17:45 | 28 | 0 | 1 | 0 | 29 | 6 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 18:00 | 26 | 0 | 3 | 0 | 29 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  |
| 18:15 | 24 | 0 | 2 | 0 | 26 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| 18:30 | 26 | 0 | 0 | 0 | 26 | 4 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |  |
| 18:45 | 20 | 0 | 3 | 0 | 23 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| SUBTOTAL | 421 | 0 | 44 | 0 | 465 | 29 | 0 | 5 | 0 | 34 | 10 | 0 | 1 | 0 | 11 | 0 | 0 | 0 | 0 | 5 |


|  | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | 4 | + | $\stackrel{\rightharpoonup}{+}$ |  | Total | 4 | - |  |  | otal | 4 | + |  |  | otal |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 1022 | 0 | 100 | 0 | 1122 | 66 | 0 | 9 | 0 | 75 | 26 | 0 | 3 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 6 |

## Peak Hour Diagram



Ontario Traffic Inc．
TRAFFIC MONITORING \＆ERVICES S PRODUCTS

## Specified Period

| From： | $07: 00: 00$ | From： | 07：30：00 |
| :--- | :--- | :--- | :--- |
| To： | $10: 00: 00$ | To： | $08: 30: 00$ |

One Hour Peak
rom
08：30：00

Intersection：
Site ID：
Count Date：

Keele St \＆Peak Point Blvd
1932600006
0ct 02， 2019

Weather conditions：
＊＊Signalized Intersection＊＊
Major Road：Keele St runs N／S

| North Approach |  |  |
| :---: | :---: | :---: |
| Out | In | Total |
| －1867 | 372 | 2239 |
| －20 199 | 81 | 280 |
| 圂 15 | 13 | 28 |
| \％ | 0 | 0 |
| 2081 | 466 | 2547 |


| Keele St |  |  |  | East Approach |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \％ | 0 | 0 | 0 |  | Out | In | Total |  |  |
| 国 | 14 | 1 | 0 |  | 305 | 60 | 365 |  |  |
| 0 | 198 | 1 | 0 |  | 12 | 2 | 14 |  |  |
| ■ | 1863 | 3 | 1 |  | 11 | 5 | 16 |  |  |
| Totals | 2075 | 5 | 1 |  | 0 | 0 | 0 |  |  |
|  |  | ＋ |  |  | 328 | 67 | 395 |  |  |
| Peds： 3 |  |  |  | Peak Point Blvd |  |  |  |  |  |
| $\begin{aligned} & \text { oi } \\ & \stackrel{i i}{0} \\ & \hline \end{aligned}$ |  |  | $\begin{aligned} & \text { 뀽 } \\ & \stackrel{?}{-} \end{aligned}$ | Totals |  | 日 | 10. | 囫 | \％${ }^{\text {d }}$ |
|  |  |  |  |  | 0 | 0 | 0 | 0 | 0 |
|  |  |  |  | t | 26 | 24 | 0 | 2 | 0 |
|  | Peds： 0 |  |  |  | 2 | 281 | 12 | 9 | 0 |
| Totals | $439$ | 62 | 0 | South Approach |  |  |  |  |  |
|  |  |  |  | Out |  | In |  |  |  |
| 园 | 347 | 57 | 0 |  |  | Total |  |  |
| 50 | 81 | 1 | 0 | $\square$ | 404 |  | 2144 | 2548 |  |  |
| 国 | 11 | 4 | 0 |  | 82 | 210 | 292 |  |  |
| \％${ }^{\text {\％}}$ | 0 | 0 |  |  | 15 | 23 | 38 |  |  |
|  |  |  |  |  | 0 | 0 | 0 |  |  |
| Keele St |  |  |  |  | 501 | 2377 | 2878 |  |  |

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Keele St \& Peak Point Blvd |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | $07: 00-10: 00$ |


| Peak Hour Data (07:30-08:30) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | North Approach Keele St |  |  |  |  | South Approach Keele St |  |  |  |  | East Approach Peak Point Blvd |  |  |  |  | West Approach |  |  | Total Vehicl es |
| Start Time |  | 1 | $\checkmark$ |  | Total | - $\uparrow$ | - | 7 |  | Total |  |  |  | Peds | Total | ¢ $\uparrow$ ? | Peds | Total |  |
| 07:30 | 1 | 534 | 0 | 1 | 535 | 106 | 8 | 0 | 0 | 114 | 89 | 5 | 0 | 0 | 94 |  | 0 |  | 743 |
| 07:45 | 0 | 555 | 0 | 2 | 555 | 106 | 14 | 0 | 0 | 120 | 74 | 7 | 0 | 1 | 81 |  | 0 |  | 756 |
| 08:00 | 1 | 481 | 0 | 0 | 482 | 108 | 14 | 0 | 0 | 122 | 91 | 8 | 0 | 0 | 99 |  | 0 |  | 703 |
| 08:15 | 3 | 505 | 1 | 0 | 509 | 119 | 26 | 0 | 0 | 145 | 48 | 6 | 0 | 0 | 54 |  | 0 |  | 708 |
| $\begin{aligned} & \text { Grand } \\ & \text { Total } \end{aligned}$ | 5 | 2075 | 1 | 3 | 2081 | 439 | 62 | 0 | 0 | 501 | 302 | 26 | 0 | 1 | 328 |  | 0 | 0 | 2910 |
| $\begin{gathered} \text { Approach } \\ \% \end{gathered}$ | 0.2 | 99.7 | 0 |  | - | 87.6 | 12.4 | 0 |  | - | 92.1 | 7.9 | 0 |  | - |  |  | - |  |
| Totals \% | 0.2 | 71.3 | 0 |  | 71.5 | 15.1 | 2.1 | 0 |  | 17.2 | 10.4 | 0.9 | 0 |  | 11.3 |  |  | 0 |  |
| PHF | 0.42 | 0.93 | 0.25 |  | 0.94 | 0.92 | 0.6 | 0 |  | 0.86 | 0.83 | 0.81 | 0 |  | 0.83 |  |  | 0 | 0.96 |
| Cars | 3 | 1863 | 1 |  | 1867 | 347 | 57 | 0 |  | 404 | 281 | 24 | 0 |  | 305 |  |  | 0 | 2576 |
| \% Cars | 60 | 89.8 | 100 |  | 89.7 | 79 | 91.9 | 0 |  | 80.6 | 93 | 92.3 | 0 |  | 93 |  |  | 0 | 88.5 |
| Trucks | 1 | 198 | 0 |  | 199 | 81 | 1 | 0 |  | 82 | 12 | 0 | 0 |  | 12 |  |  | 0 | 293 |
| \% Trucks | 20 | 9.5 | 0 |  | 9.6 | 18.5 | 1.6 | 0 |  | 16.4 | 4 | 0 | 0 |  | 3.7 |  |  | 0 | 10.1 |
| Buses | 1 | 14 | 0 |  | 15 | 11 | 4 | 0 |  | 15 | 9 | 2 | 0 |  | 11 |  |  | 0 | 41 |
| \% Buses | 20 | 0.7 | 0 |  | 0.7 | 2.5 | 6.5 | 0 |  | 3 | 3 | 7.7 | 0 |  | 3.4 |  |  | 0 | 1.4 |
| Bicycles | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 |  |  | 0 | 0 |
| \% Bicycles | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 |  |  | 0 | 0 |
| Peds |  |  |  | 3 | - |  |  |  | 0 | - |  |  |  | 1 | - |  | 0 | - | 4 |
| \% Peds |  |  |  | 75 | - |  |  |  | 0 | - |  |  |  | 25 | - |  | 0 | - |  |

## Peak Hour Diagram



Ontario Traffic Inc．
TRAFFIC MONITORING \＆SERVICES A PRODUCTS

## Specified Period

From：14：00：00
To：19：00：00

One Hour Peak
From：
To：

Intersection：
Site ID：
Count Date：

Keele St \＆Peak Point Blvd
1932600006
Oct 02， 2019

## Weather conditions：


Peds： 1


Peds： 0

| Totals | $1381$ | $\Rightarrow$ ？ |  |
| :---: | :---: | :---: | :---: |
|  |  | 218 | 0 |
| 日 | 1243 | 202 | 0 |
|  | 135 | 14 | 0 |
| 匃 | 3 | 2 | 0 |
| \％ | 0 | 0 | 0 |

Keele St

East Approach

|  | Out | In | Total |
| :--- | ---: | ---: | ---: |
|  | 96 | 209 | 305 |
| 0 | 4 | 14 | 18 |
| On | 3 | 2 | 5 |
| 0 | 0 | 0 | 0 |
| $\mathbf{1 0 3}$ | $\mathbf{2 2 5}$ | $\mathbf{3 2 8}$ |  |

Peak Point Blvd

|  | Totals | 日 | ba | － | \％${ }^{\text {B }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| C | 0 | 0 | 0 | 0 | 0 |
| t | 14 | 14 | 0 | 0 | 0 |
| 5 | 89 | 82 | 4 | 3 | 0 |

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Keele St \& Peak Point Blvd |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | $14: 00-19: 00$ |

## Peak Hour Data (16:45-17:45)



Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

## Project \#19326 - City of Vaughan

## Intersection Count Report

| Intersection: | Kirby Rd \& Ravineview Dr |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |
| Site Code: | 1932600007 |
| Count Categories: | Cars, Trucks, Buses, Bicycles, Pedestrians |
| Count Period: | 07:00-10:00, 14:00-19:00 |
| Weather: | Clear |

# Traffic Count Map 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

Intersection:
Municipality:
Count Date: $\quad$ Oct 02, 2019


# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

Intersection:<br>Municipality:<br>Count Date:<br>Kirby Rd \& Ravineview Dr<br>Vaughan<br>Oct 02, 2019

## Ravineview Dr - Traffic Summary

| Hour | North Approach Totals |  |  |  |  |  | South Approach Totals |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  |
|  | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| 07:00-08:00 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 95 | 0 | 114 | 2 |
| 08:00-09:00 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 101 | 0 | 129 | 1 |
| 09:00-10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 42 | 0 | 58 | 0 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 45 | 0 | 53 | 1 |
| 15:00-16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 68 | 0 | 92 | 2 |
| 16:00-17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 73 | 0 | 90 | 0 |
| 17:00-18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 58 | 0 | 70 | 0 |
| 18:00-19:00 | 0 | 0 | 0 | 0 | 0 | 1 | 20 | 0 | 60 | 0 | 80 | 0 |
| GRAND TOTAL | 0 | 0 | 0 | 0 | 0 | 1 | 144 | 0 | 542 | 0 | 686 | 6 |

# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection: Kirby Rd \& Ravineview Dr<br>Municipality:<br>Count Date:<br>Vaughan<br>Oct 02, 2019

## Kirby Rd - Traffic Summary

## East Approach Totals

Includes Cars, Trucks, Buses, Bicycles

West Approach Totals

Includes Cars, Trucks, Buses, Bicycles

| Hour | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00-08:00 | 32 | 532 | 0 | 0 | 564 | 0 | 0 | 163 | 12 | 0 | 175 | 0 |
| 08:00-09:00 | 74 | 470 | 0 | 0 | 544 | 0 | 0 | 208 | 24 | 0 | 232 | 0 |
| 09:00-10:00 | 30 | 250 | 0 | 0 | 280 | 0 | 0 | 144 | 14 | 0 | 158 | 0 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 54 | 141 | 0 | 0 | 195 | 0 | 0 | 183 | 17 | 0 | 200 | 0 |
| 15:00-16:00 | 73 | 189 | 0 | 0 | 262 | 0 | 0 | 286 | 18 | 0 | 304 | 0 |
| 16:00-17:00 | 84 | 238 | 0 | 0 | 322 | 0 | 0 | 422 | 22 | 0 | 444 | 0 |
| 17:00-18:00 | 94 | 252 | 0 | 0 | 346 | 0 | 0 | 518 | 35 | 0 | 553 | 0 |
| 18:00-19:00 | 91 | 148 | 0 | 0 | 239 | 0 | 0 | 388 | 31 | 0 | 419 | 0 |
| GRAND TOTAL | 532 | 2220 | 0 | 0 | 2752 | 0 | 0 | 2312 | 173 | 0 | 2485 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

Intersection:
Municipality:
Count Date:

South Approach - Ravineview Dr


## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \& SERVICES A PRODUCTS

| Intersection: | Kirby Rd \& Ravineview Dr |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |

South Approach - Ravineview Dr

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | - | $\stackrel{1}{1}$ |  | Total | 4 | - | P |  | Total | 4 | - |  |  | Total | 4 | - |  |  |  |
| 14:00 | 1 | 0 | 10 | 0 | 11 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 5 | 0 | 15 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 1 | 0 | 5 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 1 | 0 | 8 | 0 | 9 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 1 |
| 15:00 | 0 | 0 | 9 | 0 | 9 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 2 | 0 | 14 | 0 | 16 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 15:30 | 4 | 0 | 15 | 0 | 19 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 14 | 0 | 21 | 0 | 35 | 1 | 0 | 2 | 0 | 3 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 4 | 0 | 17 | 0 | 21 | 1 | 0 | 1 | 0 | 2 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 1 | 0 | 17 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 5 | 0 | 13 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 3 | 0 | 22 | 0 | 25 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 1 | 0 | 11 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 1 | 0 | 17 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 1 | 0 | 16 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 5 | 0 | 13 | 0 | 18 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 3 | 0 | 17 | 0 | 20 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 7 | 0 | 17 | 0 | 24 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 4 | 0 | 12 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 3 | 0 | 12 | 0 | 15 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 66 | 0 | 281 | 0 | 347 | 5 | 0 | 12 | 0 | 17 | 10 | 0 | 11 | 0 | 21 | 0 | 0 | 0 | 0 | 3 |


|  | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | 4 | + | $\stackrel{\rightharpoonup}{+}$ |  | Total | 4 | - | $\rightarrow$ |  | tal | 4 | - |  |  | otal |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 120 | 0 | 501 | 0 | 621 | 8 | 0 | 20 | 0 | 28 | 16 | 0 | 21 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 6 |

## Traffic Count Data

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Ravineview Dr |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |


| East Approach - Kirby Rd |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cars |  |  |  |  | ucks |  |  |  |  | uses |  |  |  |  | ycles |  |  |  |
| Start Time | 4 | + |  | ? |  | 4 | 1 |  | ? | Total | 4 | 1 |  | ? | Total | 4 | - |  | ? | Total | $\begin{aligned} & \text { Total } \\ & \text { Peds } \end{aligned}$ |
| 07:00 | 4 | 113 | 0 | 0 |  | 3 | 4 | 0 | 0 | 7 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 4 |  | 0 | 0 |  | 0 | 11 | 0 | 0 | 11 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 5 | 126 | 0 | 0 |  | 0 | 23 | 0 | 0 | 23 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 11 | 126 | 0 | 0 | 137 | 0 | 7 | 0 | 0 | 7 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 15 | 144 | 0 | 0 |  | 2 | 10 | 0 | 0 | 12 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 23 | 109 | 0 | 0 | 132 | 0 | 12 | 0 | 0 | 12 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 17 | 85 | 0 | 0 | 102 | 2 | 10 | 0 | 0 | 12 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 11 | 84 | 0 | 0 | 95 | 0 | 12 | 0 | 0 | 12 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 9 | 72 | 0 | 0 |  | 1 | 14 | 0 | 0 | 15 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 4 | 76 | 0 | 0 |  | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 10 | 34 | 0 | 0 |  | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 3 | 33 | 0 | 0 |  | 1 |  | 0 | 0 | 8 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 116 | 1118 | 0 | 0 | 1234 | 11 | 123 | 0 | 0 |  | 9 | 11 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ |  | Total | 4 | + | $\square$ |  | Total | 4 | 1 | $\stackrel{\rightharpoonup}{4}$ | ? | Total | 4 | + | $\stackrel{\rightharpoonup}{1}$ | 2 | Total |  |
| 14:00 | 7 | 20 | 0 | 0 | 27 | 1 | 9 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 11 | 29 | 0 | 0 | 40 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 10 | 34 | 0 | 0 | 44 | 2 | 4 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 18 | 31 | 0 | 0 | 49 | 2 | 7 | 0 | 0 | 9 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 13 | 32 | 0 | 0 | 45 | 1 | 6 | 0 | 0 | 7 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 16 | 38 | 0 | 0 | 54 | 0 | 6 | 0 | 0 | 6 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 21 | 38 | 0 | 0 | 59 | 1 | 8 | 0 | 0 | 9 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 17 | 48 | 0 | 0 | 65 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 19 | 42 | 0 | 0 | 61 | 0 | 10 | 0 | 0 | 10 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 19 | 54 | 0 | 0 | 73 | 2 | 7 | 0 | 0 | 9 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 19 | 59 | 0 | 0 | 78 | 2 | 11 | 0 | 0 | 13 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 20 | 46 | 0 | 0 | 66 | 1 | 5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 23 | 78 | 0 | 0 | 101 | 2 | 10 | 0 | 0 | 12 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 25 | 48 | 0 | 0 | 73 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| 17:30 | 24 | 57 | 0 | 0 | 81 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 17 | 42 | 0 | 0 | 59 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 30 | 28 | 0 | 0 | 58 | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 22 | 43 | 0 | 0 | 65 | 2 | 10 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 17 | 25 | 0 | 0 | 42 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 18 | 27 | 0 | 0 | 45 | 1 | 4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 366 | 819 | 0 | 0 | 1185 | 21 | 140 | 0 | 0 | 161 | 9 | 8 | 0 | 0 | 17 | 0 | 1 | 0 | 0 | 1 | 0 |


|  | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | 4 | A |  |  | Total | 4 | - |  |  | Total | 4 | + |  |  | otal |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 482 | 1937 | 0 | 0 | 2419 | 32 | 263 | 0 | 0 | 295 | 18 | 19 | 0 | 0 | 37 | 0 | 1 | 0 | 0 | 1 | 0 |

## Traffic Count Data

Ontario Traffic Inc.<br>traffic monitoring *services a products

Intersection:
Municipality:
Count Date:

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ | ? | Total | 4 | 1 |  |  | Total | 4 | + |  |  | Total | 4 | + |  |  | Total |  |
| 07:00 | 0 | 27 | 4 | 0 | 31 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 0 | 37 | 0 | 0 | 37 | 0 | 2 | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 0 | 37 | 1 | 0 | 38 | 0 | 7 | 1 | 0 | 8 | 0 | 2 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 34 | 2 | 0 | 36 | 0 | 6 | 1 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 0 | 33 | 8 | 0 | 41 | 0 | 3 | , | 0 | 4 | 0 | 2 | , | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 0 | 48 | 5 | 0 | 53 | 0 | 18 | 0 | 0 | 18 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 0 | 57 | 3 | 0 | 60 | 0 | 8 | 0 | 0 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 0 | 31 | 4 | 0 | 35 | 0 | 5 | 1 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 0 | 41 | 4 | 0 | 45 | 0 | 8 | 1 | 0 | 9 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 0 | 24 | 2 | 0 | 26 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 0 | 32 | 2 | 0 | 34 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 0 | 26 | 3 | 0 | 29 | 0 | 5 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 427 | 38 | 0 | 465 | 0 | 73 | 5 | 0 | 78 | 0 | 15 | 7 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

Intersection:
Municipality:
Count Date:

Kirby Rd \& Ravineview Dr
Vaughan
Oct 02, 2019

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{1}{ }$ | $\bigcirc$ | Total | 4 | + | $\stackrel{\rightharpoonup}{1}$ |  | Total | 4 | + | $\stackrel{\rightharpoonup}{1}$ | 2 | Total | 4 | 1 | $\square$ | 2 | Total |  |
| 14:00 | 0 | 30 | 4 | 0 | 34 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 34 | 2 | 0 | 36 | 0 | 5 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 38 | 5 | 0 | 43 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 46 | 5 | 0 | 51 | 0 | 8 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 62 | 4 | 0 | 66 | 0 | 9 | 1 | 0 | 10 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 50 | 5 | 0 | 55 | 0 | 10 | 1 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 73 | 4 | 0 | 77 | 0 | 13 | 1 | 0 | 14 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 57 | 2 | 0 | 59 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 92 | 2 | 0 | 94 | 0 | 7 | 1 | 0 | 8 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 92 | 1 | 0 | 93 | 0 | 13 | 0 | 0 | 13 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 93 | 7 | 0 | 100 | 0 | 13 | 0 | 0 | 13 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 100 | 8 | 0 | 108 | 0 | 7 | 1 | 0 | 8 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 125 | 9 | 0 | 134 | 0 | 14 | 1 | 0 | 15 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 113 | 6 | 0 | 119 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 126 | 7 | 0 | 133 | 0 | 10 | 2 | 0 | 12 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 105 | 8 | 0 | 113 | 0 | 11 | 1 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 0 | 100 | 9 | 0 | 109 | 0 | 10 | 0 | 0 | 10 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 0 | 116 | 6 | 0 | 122 | 0 | 8 | 0 | 0 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 0 | 74 | 8 | 0 | 82 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 0 | 67 | 6 | 0 | 73 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 1593 | 108 | 0 | 1701 | 0 | 187 | 10 | 0 | 197 | 0 | 17 | 5 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 |


|  |  |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | $\begin{array}{\|l\|l\|} \hline \text { Total } \\ \text { Peds } \end{array}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | 4 |  | - |  | Total | 4 | - | $\stackrel{\rightharpoonup}{\square}$ |  | Total | 4 | + |  |  | otal |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 0 | 2020 | 146 | 0 | 2166 | 0 | 260 | 15 | 0 | 275 | 0 | 32 | 12 | 0 | 44 | 0 | 0 | 0 | 0 | 0 | 0 |  |

## Peak Hour Diagram

## Specified Period

From：07：00：00
To：10：00：00

One Hour Peak
From：
07：30：00
To：
08：30：00

Intersection：
Site ID：
Count Date：

Kirby Rd \＆Ravineview Dr
1932600007
Oct 02， 2019

## Weather conditions：

Major Road：Kirby Rd runs E／W

East Approach

| Out | In | Total |
| :---: | :---: | :---: |
| 园 559 | 246 | 805 |
| －6． 54 | 38 | 92 |
| T | 14 | 23 |
| － 0 | 0 |  |
| 622 | 298 |  |


日－Cars
Ton－Trucks
图－Buses
ब万b－Bicycles

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Ravineview Dr |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | 07:00-10:00 |

## Peak Hour Data (07:30-08:30)

|  | North Approach |  |  | South Approach Ravineview Dr |  |  |  |  |  |  | East Approach Kirby Rd |  |  | West Approach Kirby Rd |  |  |  |  | Total Vehicl es |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | - 1 | Peds | Total |  | $\uparrow \quad \stackrel{ }{1}$ | ? | Peds | Total |  | 1 | $\rightarrow$ ? | Peds | Total | - 1 |  |  | Peds | Total |  |
| 07:30 |  | 0 |  | 4 | 20 | 0 | 0 | 24 | 7 | 150 | 0 | 0 | 157 | 46 | 4 | 0 | 0 | 50 | 231 |
| 07:45 |  | 0 |  | 4 | 37 | 0 | 2 | 41 | 11 | 135 | 0 | 0 | 146 | 41 | 3 | 0 | 0 | 44 | 231 |
| 08:00 |  | 0 |  | 4 | 28 | 0 | 0 | 32 | 17 | 157 | 0 | 0 | 174 | 38 | 10 | 0 | 0 | 48 | 254 |
| 08:15 |  | 0 |  | 6 | 20 | 0 | 0 | 26 | 24 | 121 | 0 | 0 | 145 | 68 | 5 | 0 | 0 | 73 | 244 |
| Grand Total |  | 0 | 0 | 18 | 105 | 0 | 2 | 123 | 59 | 563 | 0 | 0 | 622 | 193 | 22 | 0 | 0 | 215 | 960 |
| Approach \% |  |  | - | 14.6 | 85.4 | 0 |  | - | 9.5 | 90.5 | 0 |  | - | 89.8 | 10.2 | 0 |  | - |  |
| Totals \% |  |  | 0 | 1.9 | 10.9 | 0 |  | 12.8 | 6.1 | 58.6 | 0 |  | 64.8 | 20.1 | 2.3 | 0 |  | 22.4 |  |
| PHF |  |  | 0 | 0.75 | 0.71 | 0 |  | 0.75 | 0.61 | 0.9 | 0 |  | 0.89 | 0.71 | 0.55 | 0 |  | 0.74 | 0.94 |
| Cars |  |  | 0 | 16 | 94 | 0 |  | 110 | 54 | 505 | 0 |  | 559 | 152 | 16 | 0 |  | 168 | 837 |
| \% Cars |  |  | 0 | 88.9 | 89.5 | 0 |  | 89.4 | 91.5 | 89.7 | 0 |  | 89.9 | 78.8 | 72.7 | 0 |  | 78.1 | 87.2 |
| Trucks |  |  | 0 | 1 | 4 | 0 |  | 5 | 2 | 52 | 0 |  | 54 | 34 | 3 | 0 |  | 37 | 96 |
| \% Trucks |  |  | 0 | 5.6 | 3.8 | 0 |  | 4.1 | 3.4 | 9.2 | 0 |  | 8.7 | 17.6 | 13.6 | 0 |  | 17.2 | 10 |
| Buses |  |  | 0 | 1 | 7 | 0 |  | 8 | 3 | 6 | 0 |  | 9 | 7 | 3 | 0 |  | 10 | 27 |
| \% Buses |  |  | 0 | 5.6 | 6.7 | 0 |  | 6.5 | 5.1 | 1.1 | 0 |  | 1.4 | 3.6 | 13.6 | 0 |  | 4.7 | 2.8 |
| Bicycles |  |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 |
| \% Bicycles |  |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 |
| Peds |  | 0 | - |  |  |  | 2 | - |  |  |  | 0 | - |  |  |  | 0 | - | 2 |
| \% Peds |  | 0 | - |  |  |  | 100 | - |  |  |  | 0 | - |  |  |  | 0 | - |  |

## Peak Hour Diagram

## Specified Period

From：14：00：00
To：19：00：00

One Hour Peak
From：
16：45：00
To：
17：45：00

## Intersection：

Site ID：
Count Date：

Kirby Rd \＆Ravineview Dr
1932600007
Oct 02， 2019

## Weather conditions：

Major Road：Kirby Rd runs E／W

East Approach

| Out | In | Total |
| :---: | :---: | :---: |
| 目 321 | 530 | 851 |
| －0 32 | 44 | 76 |
| 里 | 2 | 3 |
| W－ 1 | 0 | 1 |
| 355 | 576 | 931 |


| Kirby Rd |  |  |  |  | Peds： 0 |  |  |  | Kirby Rd |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \％${ }^{\circ}$ | 田 | $\square$ | 目 | Totals | $\begin{aligned} & 0 \\ & \text { ii } \\ & \dot{a} \end{aligned}$ |  | 苟 |  | C | Totals | E | ， | 62 | 包 | \％${ }^{3}$ |
| 0 | 0 | 0 | 0 |  |  |  |  |  | 0 |  | 0 | 0 | 0 | 0 |
| 0 | 2 | 43 | 464 | 509 |  |  |  |  |  | $\leqslant$ | 258 | 22 | 29 | 27 | 1 | 1 |
| 0 | 2 | 4 | 30 | 36 |  | Peds： 0 |  |  | 5 | 97 |  | 2 | 5 | 0 | 0 |
| West Approach |  |  |  |  | Totals |  |  |  | South Approach |  |  |  |  |  |  |
|  |  | Out | In | Total |  | 8 | 67 | 0 | Out |  |  | In | Total |  |  |
|  | 日 | 494 | 235 | 729 | 國 | 6 | 66 | 0 |  | Q |  | 122 | 194 |  |  |
|  | Wa | 47 | 27 | 74 |  | 2 | 0 | 0 |  |  | 1 | 9 | 10 |  |  |
|  | 国 | 4 | 3 | 7 |  |  |  | 0 |  |  | 2 | 2 | 2 | 4 |  |
|  | \％${ }^{\text {b }}$ | 0 | 1 | 1 |  |  |  |  |  |  | 0 | 0 |  |  |  |
|  |  | 545 | 266 | 811 | Ravineview Dr |  |  |  |  |  | 5 | 133 | 20 |  |  |

日－Cars
Dob－Trucks
图－Buses
ब万b－Bicycles

## Peak Hour Summary

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Ravineview Dr |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | 14:00-19:00 |

Peak Hour Data (16:45-17:45)

|  | North Approach |  |  | South Approach Ravineview Dr |  |  |  |  | East Approach Kirby Rd |  |  |  |  | West Approach Kirby Rd |  |  |  |  | Total Vehicl es |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | - $\stackrel{?}{ }$ |  | Total |  | $\uparrow \quad \mid$ | $\bigcirc$ | Peds | Total |  | $\uparrow$ | $\stackrel{\square}{ }$ | Peds | Total | - |  |  | Peds | Total |  |
| 16:45 |  | 0 |  | 3 | 23 | 0 | 0 | 26 | 21 | 51 | 0 | 0 | 72 | 107 | 10 | 0 | 0 | 117 | 215 |
| 17:00 |  | 0 |  | 3 | 11 | 0 | 0 | 14 | 25 | 89 | 0 | 0 | 114 | 141 | 10 | 0 | 0 | 151 | 279 |
| 17:15 |  | 0 |  | 1 | 17 | 0 | 0 | 18 | 26 | 55 | 0 | 0 | 81 | 125 | 6 | 0 | 0 | 131 | 230 |
| 17:30 |  | 0 |  | 1 | 16 | 0 | 0 | 17 | 25 | 63 | 0 | 0 | 88 | 136 | 10 | 0 | 0 | 146 | 251 |
| Grand Total |  | 0 | 0 | 8 | 67 | 0 | 0 | 75 | 97 | 258 | 0 | 0 | 355 | 509 | 36 | 0 | 0 | 545 | 975 |
| $\begin{gathered} \text { Approach } \\ \% \end{gathered}$ |  |  | - | 10.7 | 89.3 | 0 |  | - | 27.3 | 72.7 | 0 |  | - | 93.4 | 6.6 | 0 |  | - |  |
| Totals \% |  |  | 0 | 0.8 | 6.9 | 0 |  | 7.7 | 9.9 | 26.5 | 0 |  | 36.4 | 52.2 | 3.7 | 0 |  | 55.9 |  |
| PHF |  |  | 0 | 0.67 | 0.73 | 0 |  | 0.72 | 0.93 | 0.72 | 0 |  | 0.78 | 0.9 | 0.9 | 0 |  | 0.9 | 0.87 |
| Cars |  |  | 0 | 6 | 66 | 0 |  | 72 | 92 | 229 | 0 |  | 321 | 464 | 30 | 0 |  | 494 | 887 |
| \% Cars |  |  | 0 | 75 | 98.5 | 0 |  | 96 | 94.8 | 88.8 | 0 |  | 90.4 | 91.2 | 83.3 | 0 |  | 90.6 | 91 |
| Trucks |  |  | 0 | 0 | 1 | 0 |  | 1 | 5 | 27 | 0 |  | 32 | 43 | 4 | 0 |  | 47 | 80 |
| \% Trucks |  |  | 0 | 0 | 1.5 | 0 |  | 1.3 | 5.2 | 10.5 | 0 |  | 9 | 8.4 | 11.1 | 0 |  | 8.6 | 8.2 |
| Buses |  |  | 0 | 2 | 0 | 0 |  | 2 | 0 | 1 | 0 |  | 1 | 2 | 2 | 0 |  | 4 | 7 |
| \% Buses |  |  | 0 | 25 | 0 | 0 |  | 2.7 | 0 | 0.4 | 0 |  | 0.3 | 0.4 | 5.6 | 0 |  | 0.7 | 0.7 |
| Bicycles |  |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 1 | 0 |  | 1 | 0 | 0 | 0 |  | 0 | 1 |
| \% Bicycles |  |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0.4 | 0 |  | 0.3 | 0 | 0 | 0 |  | 0 | 0.1 |
| Peds |  | 0 | - |  |  |  | 0 | - |  |  |  | 0 | - |  |  |  | 0 | - | 0 |
| \% Peds |  | 0 | - |  |  |  | 0 | - |  |  |  | 0 | - |  |  |  | 0 | - |  |

## Project \#19326 - City of Vaughan

## Intersection Count Report

| Intersection: | Kirby Rd \& Foot Hills Rd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |
| Site Code: | 1932600008 |
| Count Categories: | Cars, Trucks, Buses, Bicycles, Pedestrians |
| Count Period: | 07:00-10:00, 14:00-19:00 |
| Weather: | Clear |

# Traffic Count Map 

Ontario Traffic Inc.

Intersection:
Municipality:
Count Date: $\quad$ Oct 02, 2019


# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection:<br>Municipality:<br>Count Date:<br>Kirby Rd \& Foot Hills Rd<br>Vaughan<br>Oct 02, 2019

## Foot Hills Rd - Traffic Summary

| Hour | North Approach Totals |  |  |  |  |  | South Approach Totals |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  |
|  | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| 07:00-08:00 | 0 | 0 | 0 | 0 | 0 | 0 | 57 | 0 | 12 | 0 | 69 | 0 |
| 08:00-09:00 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 0 | 10 | 0 | 55 | 2 |
| 09:00-10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 | 7 | 0 | 47 | 1 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 6 | 0 | 25 | 0 |
| 15:00-16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 10 | 0 | 30 | 0 |
| 16:00-17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 9 | 0 | 35 | 0 |
| 17:00-18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 0 | 11 | 0 | 40 | 2 |
| 18:00-19:00 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 3 | 0 | 27 | 1 |
| GRAND TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 260 | 0 | 68 | 0 | 328 | 6 |

# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection: Kirby Rd \& Foot Hills Rd<br>Municipality:<br>Count Date:<br>Vaughan<br>Oct 02, 2019

## Kirby Rd - Traffic Summary

## East Approach Totals

Includes Cars, Trucks, Buses, Bicycles
West Approach Totals

Includes Cars, Trucks, Buses, Bicycles

| Hour | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00-08:00 | 6 | 508 | 0 | 0 | 514 | 0 | 0 | 238 | 14 | 0 | 252 | 0 |
| 08:00-09:00 | 6 | 484 | 0 | 1 | 491 | 0 | 0 | 305 | 14 | 0 | 319 | 0 |
| 09:00-10:00 | 6 | 232 | 0 | 0 | 238 | 0 | 0 | 167 | 19 | 0 | 186 | 0 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 14 | 171 | 0 | 0 | 185 | 0 | 0 | 192 | 26 | 0 | 218 | 0 |
| 15:00-16:00 | 14 | 239 | 0 | 0 | 253 | 0 | 0 | 320 | 30 | 0 | 350 | 0 |
| 16:00-17:00 | 10 | 309 | 0 | 0 | 319 | 0 | 0 | 441 | 56 | 0 | 497 | 0 |
| 17:00-18:00 | 9 | 316 | 0 | 0 | 325 | 0 | 0 | 522 | 44 | 0 | 566 | 0 |
| 18:00-19:00 | 9 | 210 | 0 | 0 | 219 | 0 | 0 | 396 | 58 | 2 | 456 | 1 |
| GRAND TOTAL | 74 | 2469 | 0 | 1 | 2544 | 0 | 0 | 2581 | 261 | 2 | 2844 | 1 |

## Traffic Count Data

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Foot Hills Rd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |


| South Approach - Foot Hills Rd |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cars |  |  |  |  | ucks |  |  |  |  | uses |  |  |  |  | ycles |  |  |  |
| Start Time | 4 | 1 | $\stackrel{ }{ }$ | ค | Total | 4 | + |  | ? | Total | 4 | + | $\stackrel{+}{+}$ | ? | Total | 4 | 1 | $\xrightarrow{+}$ | ? | Total | $\begin{array}{\|l\|l\|} \hline \text { Total } \\ \text { Peds } \end{array}$ |
| 07:00 | 3 | 0 | 1 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 15 | 0 | 4 | 0 | 19 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 12 | 0 | 6 | 0 | 18 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 19 | 0 | 0 | 0 | 19 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 9 | 0 | 2 | 0 | 11 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 6 | 0 | 1 | 0 | 7 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 14 | 0 | 4 | 0 | 18 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 9 | 0 | 2 | 0 | 11 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| 09:00 | 11 | 0 | 0 | 0 | 11 | 2 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 12 | 0 | 2 | 0 | 14 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:30 | 7 | 0 | 2 | 0 | 9 | 2 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 5 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 122 | 0 | 24 | 0 |  | 17 | 0 | 4 | 0 | 21 | 3 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 3 |

## Traffic Count Data

Ontario Traffic Inc.<br>traffic monitoring \&services a products

| Intersection: | Kirby Rd \& Foot Hills Rd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |

South Approach - Foot Hills Rd


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 今 | $\square$ |  | otal | 4 | + |  |  | tal | - | - |  |  | tal | 4 |  |  |  | Total |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 223 | 0 | 60 | 0 | 283 | 28 | 0 | 5 | 0 | 33 | 8 | 0 | 3 | 0 | 11 | 1 | 0 | 0 | 0 | 1 | 6 |

## Traffic Count Data

## Ontario Traffic Inc.

Intersection:
Municipality:
Count Date:

East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\rightarrow$ |  | Total | 4 | 1 | $\stackrel{\square}{4}$ |  | Total | 4 | 1 | $\stackrel{r}{ }$ |  | Total | -1 | 1 | 1 |  | Total |  |
| 07:00 | 2 | 109 | 0 | 0 | 111 | 0 | 6 | 0 | 0 | 6 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 1 | 100 | 0 | 0 | 101 | 0 | 13 | 0 | 0 | 13 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 2 | 128 | 0 | 0 | 130 | 0 | 18 | 0 | 0 | 18 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 118 | 0 | 0 | 118 | 0 | 7 | 0 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 1 | 145 | 0 | 0 | 146 | 0 | 11 | 0 | 0 | 11 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 1 | 118 | 0 | 1 | 120 | 0 | 9 | 0 | 0 | 9 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 2 | 90 | 0 | 0 | 92 | 0 | 7 | 0 | 0 | 7 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 0 | 88 | 0 | 0 | 88 | 1 | 10 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 3 | 68 | 0 | 0 | 71 | 0 | 8 | 0 | 0 | 8 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 1 | 68 | 0 | 0 | 69 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 2 | 36 | 0 | 0 | 38 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 0 | 29 | 0 | 0 |  | 0 | 8 | 0 | 0 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 15 | 1097 | 0 | 1 | 1113 | 1 | 109 | 0 | 0 | 110 | 2 | 18 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

Intersection:
Municipality:
Count Date:

Kirby Rd \& Foot Hills Rd
Vaughan
Oct 02, 2019

East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | - | - | $\stackrel{\rightharpoonup}{r}$ | $?$ | Total | - | - |  | $?$ | Total | - | 1 |  | $?$ | Total | - | 1 |  |  | Total |  |
| 14:00 | 1 | 24 | 0 | 0 | 25 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 5 | 37 | 0 | 0 | 42 | 1 | 3 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 3 | 38 | 0 | 0 | 41 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 3 | 45 | 0 | 0 | 48 | 1 | 6 | 0 | 0 | 7 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 1 | 44 | 0 | 0 | 45 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 4 | 50 | 0 | 0 | 54 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 5 | 60 | 0 | 0 | 65 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 4 | 53 | 0 | 0 | 57 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 1 | 56 | 0 | 0 | 57 | 0 | 12 | 0 | 0 | 12 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 3 | 70 | 0 | 0 | 73 | 0 | 8 | 0 | 0 | 8 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 4 | 69 | 0 | 0 | 73 | 0 | 15 | 0 | 0 | 15 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 2 | 68 | 0 | 0 | 70 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 2 | 94 | 0 | 0 | 96 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 3 | 73 | 0 | 0 | 76 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 1 | 66 | 0 | 0 | 67 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 3 | 60 | 0 | 0 | 63 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 2 | 49 | 0 | 0 | 51 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 2 | 60 | 0 | 0 | 62 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 3 | 35 | 0 | 0 | 38 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 2 | 42 | 0 | 0 | 44 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 54 | 1093 | 0 | 0 | 1147 | 2 | 139 | 0 | 0 | 141 | 0 | 13 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 |


|  | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | 4 | A |  |  | Total | 4 | - |  |  | Total | 4 | ث |  |  | otal |  | 苗 |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 69 | 2190 | 0 | 1 | 2260 | 3 | 248 | 0 | 0 | 251 | 2 | 31 | 0 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

Intersection:
Municipality:
Count Date:

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 |  | ? | Total | 4 | 1 |  |  | Total | 4 | 1 |  |  | Total | 4 | + |  |  | Total |  |
| 07:00 | 0 | 44 | 4 | 0 | 48 | 0 | 6 | 0 | 0 | 6 | 0 | 2 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 0 | 48 | 1 | 0 | 49 | 0 | 3 | 1 | 0 | 4 | 0 | 3 | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 0 | 52 | 0 | 0 | 52 | 0 | 4 | 0 | 0 | 4 | 0 | 4 | 1 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 66 | 2 | 0 | 68 | 0 | 4 | 1 | 0 | 5 | 0 | 2 | 1 | , | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 0 | 60 | 4 | 0 | 64 | 0 | 5 | 2 | 0 | 7 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 0 | 62 | 0 | 0 | 62 | 0 | 19 | 1 | 0 | 20 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 0 | 75 | 2 | 0 | 77 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 0 | 60 | 5 | 0 | 65 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 0 | 49 | 2 | 0 | 51 | 0 | 3 | 3 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 0 | 33 | 7 | 0 | 40 | 0 | 3 | 2 | 0 | 5 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 0 | 44 | 3 | 0 | 47 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 0 | 25 | 1 | 0 | 26 | 0 | 1 | 1 |  | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 618 | 31 | 0 | 649 | 0 | 71 | 11 | 0 | 82 | 0 | 21 | 5 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

Intersection:
Municipality:
Count Date:

Kirby Rd \& Foot Hills Rd
Vaughan
Oct 02, 2019

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{\square}$ | $\bigcirc$ | Total | 4 | 1 |  |  | Total | 4 | 1 |  |  | Total | 4 | - |  |  | Total |  |
| 14:00 | 0 | 36 | 5 | 0 | 41 | 0 | 8 | 1 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 47 | 3 | 0 | 50 | 0 | 5 | 0 | 0 | 5 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 36 | 7 | 0 | 43 | 0 | 7 | 0 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 43 | 8 | 0 | 51 | 0 | 5 | 1 | 0 | 6 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 63 | 8 | 0 | 71 | 0 | 8 | 1 | 0 | 9 | 0 | 5 | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 56 | 6 | 0 | 62 | 0 | 11 | 1 | 0 | 12 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 84 | 4 | 0 | 88 | 0 | 8 | 0 | 0 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 70 | 8 | 0 | 78 | 0 | 8 | 1 | 0 | 9 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 100 | 6 | 0 | 106 | 0 | 11 | 2 | 0 | 13 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 105 | 11 | 0 | 116 | 0 | 10 | 1 | 0 | 11 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 83 | 16 | 0 | 99 | 0 | 12 | 3 | 0 | 15 | 0 | , | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 110 | 12 | 0 | 122 | 0 | 6 | 2 | 0 | 8 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 121 | 12 | 0 | 133 | 0 | 10 | 1 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 118 | 8 | 0 | 126 | 0 | 11 | 0 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 130 | 13 | 0 | 143 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 106 | 8 | 0 | 114 | 0 | 12 | 2 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 0 | 108 | 16 | 0 | 124 | 0 | 7 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 0 | 119 | 14 | 0 | 133 | 0 | 7 | 2 | 0 | 9 | 0 | , | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 0 | 81 | 12 | 0 | 93 | 0 | 5 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 18:45 | 0 | 63 | 10 | 0 | 73 | 0 | 5 | 2 | 1 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 1679 | 187 | 0 | 1866 | 0 | 168 | 22 | 2 | 192 | 0 | 24 | 5 | 0 | 29 | 0 | 0 | 0 | 0 | 0 | 1 |


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 |  | $\stackrel{\rightharpoonup}{+}$ |  | Total | - | - |  |  | Total | 4 | + | $\Rightarrow$ |  | tal |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 0 | 2297 | 218 | 0 | 2515 | 0 | 239 | 33 | 2 | 274 | 0 | 45 | 10 | 0 | 55 | 0 | 0 | 0 | 0 | 0 | 1 |

## Peak Hour Diagram

## Specified Period

From：07：00：00
To：10：00：00

One Hour Peak
From：
07：30：00
To：
08：30：00

## Intersection：

Site ID：
Count Date：

Kirby Rd \＆Foot Hills Rd
1932600008
0ct 02， 2019

## Weather conditions：

Major Road：Kirby Rd runs E／W

East Approach

| Out | In | Total |
| :---: | :---: | :---: |
| （－）514 | 250 | 764 |
| －6． 45 | 33 |  |
| 围 7 | 12 | 19 |
| \％ 0 | 0 |  |
| 566 | 295 |  |


日－Cars
Dob－Trucks
图－Buses
ब万b－Bicycles

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Foot Hills Rd |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | $07: 00-10: 00$ |



## Peak Hour Diagram

## Specified Period

From：14：00：00
To：19：00：00

One Hour Peak
From：
16：45：00
To：
17：45：00

## Intersection：

Site ID：
Count Date：

Kirby Rd \＆Foot Hills Rd
1932600008
0ct 02， 2019

## Weather conditions：

Major Road：Kirby Rd runs E／W

East Approach

| Out | In | Total |
| :---: | :---: | :---: |
| 日 309 | 486 | 795 |
| －6． 26 | 39 |  |
| 目 1 | 2 |  |
| \％ 0 | 0 |  |
| 336 | 527 |  |


日－Cars
Dob－Trucks
图－Buses
ब万b－Bicycles

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Foot Hills Rd |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | $14: 00-19: 00$ |

## Peak Hour Data (16:45-17:45)

|  |  |  |  |  | South A Foot | pproa <br> ills Rd |  |  |  |  | East Approach Kirby Rd |  |  |  | West Ap Kirby | oproach <br> Rd |  |  | Total Vehicl es |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | - 1 | Peds | Total |  | $\uparrow \quad \stackrel{ }{1}$ | $?$ | Peds | Total |  | ¢ | $\rightarrow$ ? | Peds | Total | - 1 |  |  | Peds | Total |  |
| 16:45 |  | 0 |  | 7 | 1 | 0 | 0 | 8 | 2 | 75 | 0 | 0 | 77 | 116 | 15 | 0 | 0 | 131 | 216 |
| 17:00 |  | 0 |  | 5 | 1 | 0 | 0 | 6 | 2 | 105 | 0 | 0 | 107 | 132 | 13 | 0 | 0 | 145 | 258 |
| 17:15 |  | 0 |  | 8 | 4 | 0 | 1 | 12 | 3 | 77 | 0 | 0 | 80 | 130 | 8 | 0 | 0 | 138 | 230 |
| 17:30 |  | 0 |  | 13 | 1 | 0 | 0 | 14 | 1 | 71 | 0 | 0 | 72 | 142 | 13 | 0 | 0 | 155 | 241 |
| Grand Total |  | 0 | 0 | 33 | 7 | 0 | 1 | 40 | 8 | 328 | 0 | 0 | 336 | 520 | 49 | 0 | 0 | 569 | 945 |
| Approach \% |  |  | - | 82.5 | 17.5 | 0 |  | - | 2.4 | 97.6 | 0 |  | - | 91.4 | 8.6 | 0 |  | ${ }^{-}$ |  |
| Totals \% |  |  | 0 | 3.5 | 0.7 | 0 |  | 4.2 | 0.8 | 34.7 | 0 |  | 35.6 | 55 | 5.2 | 0 |  | 60.2 |  |
| PHF |  |  | 0 | 0.63 | 0.44 | 0 |  | 0.71 | 0.67 | 0.78 | 0 |  | 0.79 | 0.92 | 0.82 | 0 |  | 0.92 | 0.92 |
| Cars |  |  | 0 | 28 | 7 | 0 |  | 35 | 8 | 301 | 0 |  | 309 | 479 | 45 | 0 |  | 524 | 868 |
| \% Cars |  |  | 0 | 84.8 | 100 | 0 |  | 87.5 | 100 | 91.8 | 0 |  | 92 | 92.1 | 91.8 | 0 |  | 92.1 | 91.9 |
| Trucks |  |  | 0 | 4 | 0 | 0 |  | 4 | 0 | 26 | 0 |  | 26 | 39 | 3 | 0 |  | 42 | 72 |
| \% Trucks |  |  | 0 | 12.1 | 0 | 0 |  | 10 | 0 | 7.9 | 0 |  | 7.7 | 7.5 | 6.1 | 0 |  | 7.4 | 7.6 |
| Buses |  |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 1 | 0 |  | 1 | 2 | 1 | 0 |  | 3 | 4 |
| \% Buses |  |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0.3 | 0 |  | 0.3 | 0.4 | 2 | 0 |  | 0.5 | 0.4 |
| Bicycles |  |  | 0 | 1 | 0 | 0 |  | 1 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 1 |
| \% Bicycles |  |  | 0 | 3 | 0 | 0 |  | 2.5 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0.1 |
| Peds |  | 0 | - |  |  |  | 1 | - |  |  |  | 0 | - |  |  |  | 0 | - | 1 |
| \% Peds |  | 0 | - |  |  |  | 100 | - |  |  |  | 0 | - |  |  |  | 0 | - |  |

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

## Project \#19326 - City of Vaughan

## Intersection Count Report

| Intersection: | Kirby Rd \& Laurentian Blvd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |
| Site Code: | 1932600009 |
| Count Categories: | Cars, Trucks, Buses, Bicycles, Pedestrians |
| Count Period: | 07:00-10:00, 14:00-19:00 |
| Weather: | Clear |

# Traffic Count Map 

Ontario Traffic Inc.

Intersection:
Municipality:
Count Date: $\quad$ Oct 02, 2019


# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

Intersection:
Municipality:
Count Date:

Kirby Rd \& Laurentian Blvd Vaughan
Oct 02, 2019

## Laurentian Blvd - Traffic Summary

| Hour | North Approach Totals |  |  |  |  |  | South Approach Totals |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  |
|  | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| 07:00-08:00 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 35 | 0 | 40 | 0 |
| 08:00-09:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 32 | 0 | 35 | 0 |
| 09:00-10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 19 | 0 | 22 | 0 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 19 | 0 | 20 | 0 |
| 15:00-16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 12 | 0 | 13 | 0 |
| 16:00-17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 15 | 0 | 18 | 2 |
| 17:00-18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 8 | 0 | 11 | 2 |
| 18:00-19:00 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 24 | 0 | 29 | 1 |
| GRAND TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 164 | 0 | 188 | 5 |

# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection:<br>Municipality:<br>Count Date:<br>Kirby Rd \& Laurentian Blvd<br>Vaughan<br>Oct 02, 2019

## Kirby Rd - Traffic Summary

## East Approach Totals

Includes Cars, Trucks, Buses, Bicycles
West Approach Totals
Includes Cars, Trucks, Buses, Bicycles

| Hour | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00-08:00 | 9 | 509 | 0 | 0 | 518 | 0 | 0 | 249 | 1 | 0 | 250 | 0 |
| 08:00-09:00 | 6 | 488 | 0 | 0 | 494 | 0 | 0 | 314 | 2 | 0 | 316 | 0 |
| 09:00-10:00 | 11 | 235 | 0 | 0 | 246 | 0 | 0 | 173 | 1 | 0 | 174 | 0 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 16 | 184 | 0 | 0 | 200 | 0 | 0 | 196 | 2 | 0 | 198 | 0 |
| 15:00-16:00 | 26 | 252 | 0 | 0 | 278 | 0 | 0 | 327 | 3 | 0 | 330 | 0 |
| 16:00-17:00 | 16 | 316 | 0 | 0 | 332 | 0 | 0 | 449 | 1 | 0 | 450 | 0 |
| 17:00-18:00 | 29 | 322 | 0 | 0 | 351 | 0 | 0 | 530 | 3 | 0 | 533 | 0 |
| 18:00-19:00 | 21 | 214 | 0 | 1 | 236 | 0 | 0 | 395 | 4 | 0 | 399 | 0 |
| GRAND TOTAL | 134 | 2520 | 0 | 1 | 2655 | 0 | 0 | 2633 | 17 | 0 | 2650 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

Intersection: Kirby Rd \& Laurentian Blvd

TRAFFIC MONITORING *SERVICES \& PRODUCTS

Municipality:
Count Date:
Vaughan
Oct 02, 2019

## South Approach - Laurentian Blvd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | - | $\stackrel{+}{+}$ |  | Total | 4 | - | + |  | Total | 4 | 1 | + |  |  | 4 | - |  |  | Total |  |
| 07:00 | 1 | 0 | 5 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 1 | 0 | 5 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 2 | 0 | 9 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 0 | 10 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 1 | 0 | 9 | 0 | 10 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 1 | 0 | 5 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 0 | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 1 | 0 | 9 | 0 | 10 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 0 | 0 | 5 | 0 | 5 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 8 | 0 | 74 | 0 | 82 | 1 | 0 | 5 | 0 | 6 | 2 | 0 | 7 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \& SERVICES A PRODUCTS

Intersection:
Municipality:
Count Date:

Kirby Rd \& Laurentian Blva
Vaughan
Oct 02, 2019

## South Approach - Laurentian Blvd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + |  | $\bigcirc$ | Total | 4 | + | $\square$ | , | Total | 4 | + | $\Gamma^{+}$ |  | Total | 4 |  |  |  |  |
| 14:00 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 1 | 0 | 4 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 1 | 0 | 4 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| 16:30 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 3 | 0 | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 17:30 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 18:00 | 0 | 0 | 6 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 1 | 0 | 5 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 18:30 | 1 | 0 | 6 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 2 | 0 | 5 | 0 | 7 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 10 | 0 | 66 | 0 | 76 | 1 | 0 | 8 | 0 | 9 | 2 | 0 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 5 |


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 今 | 1 |  | Total | 4 |  | $\Rightarrow$ |  | tal | - | - | $\rightarrow$ |  | otal | 4 |  |  |  | Total |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 18 | 0 | 140 | 0 | 158 | 2 | 0 | 13 | 0 | 15 | 4 | 0 | 11 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 5 |

## Traffic Count Data

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Laurentian Blvd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |

East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{*}$ |  | Total | 4 | 1 | $\Gamma$ |  | Total | 4 | ^ | $\rightarrow$ | - | Total | - | 1 |  |  | Total |  |
| 07:00 | 2 | 110 | 0 | 0 | 112 | 0 | 6 | 0 | 0 | 6 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 0 | 100 | 0 | 0 | 100 | 0 | 13 | 0 | 0 | 13 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 3 | 128 | 0 | 0 | 131 | 1 | 18 | 0 | 0 | 19 | 2 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 118 | 0 | 0 | 118 | 0 | 7 | 0 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 0 | 145 | 0 | 0 | 145 | 0 | 11 | 0 | 0 | 11 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 2 | 119 | 0 | 0 | 121 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 1 | 92 | 0 | 0 | 93 | 0 | 7 | 0 | 0 | 7 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 1 | 88 | 0 | 0 | 89 | 1 | 11 | 0 | 0 | 12 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 2 | 71 | 0 | 0 | 73 | 1 | 8 | 0 | 0 | 9 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 4 | 68 | 0 | 0 | 72 | 1 | 7 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 1 | 38 | 0 | 0 | 39 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 1 | 28 | 0 | 0 | 29 | 1 | 8 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBtotal | 17 | 1105 | 0 | 0 | 1122 | 5 | 109 | 0 | 0 | 114 | 4 | 18 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | , | 1 |  | $\bigcirc$ | Total | 4 |  |  | \% | Total | 4 | + |  | 2 | Total | 4 | 1 |  |  | Total |  |
| 14:00 | 2 | 25 | 0 | 0 | 27 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 4 | 42 | 0 | 0 | 46 | 0 | 4 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 3 | 41 | 0 | 0 | 44 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 7 | 47 | 0 | 0 | 54 | 0 | 7 | 0 | 0 | 7 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 5 | 44 | 0 | 0 | 49 | 0 | 6 | 0 | 0 | 6 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 7 | 54 | 0 | 0 | 61 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 5 | 65 | 0 | 0 | 70 | 0 | 12 | 0 | 0 | 12 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 6 | 57 | 0 | 0 | 63 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 2 | 57 | 0 | 0 | 59 | 0 | 12 | 0 | 0 | 12 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 5 | 72 | 0 | 0 | 77 | 0 | 8 | 0 | 0 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 1 | 73 | 0 | 0 | 74 | 1 | 15 | 0 | 0 | 16 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 3 | 70 | 0 | 0 | 73 | 1 | 6 | 0 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 10 | 93 | 0 | 0 | 103 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 5 | 76 | 0 | 0 | 81 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 6 | 67 | 0 | 0 | 73 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 6 | 63 | 0 | 0 | 69 | 2 | 3 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 3 | 51 | 0 | 0 | 54 | 1 | 6 | 0 | 0 | 7 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 18:15 | 6 | 61 | 0 | 0 | 67 | 0 | 11 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 2 | 37 | 0 | 0 | 39 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 7 | 42 | 0 | 0 |  | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 95 | 1137 | 0 | 0 | 1232 | 6 | 140 | 0 | 0 | 146 | 6 | 11 | 0 | 1 | 18 | 1 | 0 | 0 | 0 | 1 | 0 |


|  | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | 4 | ث |  |  | Total | 4 | - |  |  | Total | 4 | + |  |  | otal | 4 |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 112 | 2242 | 0 | 0 | 2354 | 11 | 249 | 0 | 0 | 260 | 10 | 29 | 0 | 1 | 40 | 1 | 0 | 0 | 0 | 1 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

traffic monitoring \&services a products

Intersection:
Municipality:
Count Date:
———

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{r}$ | 2 | Total | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ |  | Total | 4 | + |  |  | Total | 4 | 1 |  |  | Total |  |
| 07:00 | 0 | 44 | 1 | 0 | 45 | 0 | 6 | 0 | 0 | 6 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 0 | 52 | 0 | 0 | 52 | 0 | 3 | 0 | 0 | 3 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 0 | 58 | 0 | 0 | 58 | 0 | 4 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 66 | 0 | 0 | 66 | 0 | 4 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 0 | 62 | 0 | 0 | 62 | 0 | 6 | 0 | 0 | 6 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 0 | 64 | 0 | 0 | 64 | 0 | 19 | 0 | 0 | 19 | 0 | 2 | 2 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 0 | 79 | 0 | 0 | 79 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 0 | 62 | 0 | 0 | 62 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 0 | 49 | 0 | 0 | 49 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 0 | 34 | 1 | 0 | 35 | 0 | 3 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 0 | 46 | 0 | 0 | 46 | 0 | 7 | 0 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 0 | 25 | 0 | 0 | 25 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 641 | 2 | 0 | 643 | 0 | 75 | 0 | 0 | 75 | 0 | 20 | 2 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

| West Approach - Kirby Rd |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cars |  |  |  |  | ucks |  |  |  |  | uses |  |  |  |  | ycles |  |  |  |
| Start Time | 4 | 1 | $\xrightarrow{+}$ | ? | Total | 4 | 1 |  |  | Total | 4 | + |  | ? | Total | 4 | + |  | ? | Total | $\left\lvert\, \begin{array}{\|l\|l\|} \hline \text { Total } \\ \text { Peds } \end{array}\right.$ |
| 14:00 | 0 | 36 | 1 | 0 | 37 | 0 | 8 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 0 | 46 | 1 | 0 | 47 | 0 | 5 | 0 | 0 | 5 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 0 | 38 | 0 | 0 | 38 | 0 | 7 | 0 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 45 | 0 | 0 | 45 | 0 | 5 | O | 0 | 5 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | , | 0 |
| 15:00 | 0 | 64 | 0 | 0 | 64 | 0 | 8 | 0 | 0 | 8 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 58 | , | 0 | 59 | 0 | 11 | 0 | 0 | 11 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 87 | 1 | 0 | 88 | 0 | 8 | 0 | 0 | 8 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 72 | 0 | 0 | 72 | 0 | 8 | 0 | 0 | 8 | 0 | 3 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 102 | 1 | 0 | 103 | 0 | 11 | 0 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 105 | 0 | 0 | 105 | 0 | 11 | 0 | 0 | 11 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 0 | 86 | 0 | 0 | 86 | 0 | 12 | 0 | 0 | 12 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 111 | 0 | 0 | 111 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 120 | 2 | 0 | 122 | 0 | 10 | 0 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 121 | 1 | 0 | 122 | 0 | 11 | 0 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 0 | 131 | 0 | 0 | 131 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 111 | 0 | 0 | 111 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 0 | 108 | 0 | 0 | 108 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 0 | 119 | 0 | 0 | 119 | 0 | 7 | 0 | 0 | 7 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 0 | 81 | 1 | 0 | 82 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 0 | 62 | 3 | 0 | 65 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 1703 | 12 | 0 | 1715 | 0 | 169 | 0 | 0 | 169 | 0 | 25 | 1 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 |


|  | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | 4 |  | $\stackrel{\rightharpoonup}{\text { Pr }}$ |  | Total | 4 | - |  |  | Total | 4 | + |  |  | otal |  | 苗 |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 0 | 2344 | 14 | 0 | 2358 | 0 | 244 | 0 | 0 | 244 | 0 | 45 | 3 | 0 | 48 | 0 | 0 | 0 | 0 | 0 | 0 |

## Peak Hour Diagram

## Specified Period

From：07：00：00
To：10：00：00

One Hour Peak
From：
07：30：00
To：
08：30：00

## Intersection：

Site ID：
Count Date：

Kirby Rd \＆Laurentian Blvd
1932600009
Oct 02， 2019

## Weather conditions：

Major Road：Kirby Rd runs E／W

East Approach

| Out | In | Total |
| :---: | :---: | :---: |
| ， 515 | 283 | 798 |
| 46 | 35 | 81 |
| 圂 9 | 14 | 23 |
| \％ 0 | 0 |  |
| 570 | 332 |  |


日－Cars
Dob－Trucks
图－Buses
ब万b－Bicycles

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Laurentian Blvd |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | $07: 00-10: 00$ |

## Peak Hour Data (07:30-08:30)



## Peak Hour Diagram

## Specified Period

From：14：00：00
To：19：00：00

One Hour Peak
From：
16：45：00
To：
17：45：00

Intersection：
Site ID：
Count Date：

Kirby Rd \＆Laurentian Blvd
1932600009
Oct 02， 2019

## Weather conditions：

Major Road：Kirby Rd runs E／W

East Approach


| Kirby Rd |  |  |  |  | Peds： 0 |  |  |  | Kirby Rd |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \％ | 目 | ba | 园 | Totals | $\begin{aligned} & \text { ii } \\ & \text { iì } \\ & \hline \end{aligned}$ |  |  | ？ |  | Totals | E | 50 |  | 里 | －${ }^{\text {¢ }}$ |
| 0 | 0 | 0 | 0 |  |  |  |  |  |  | 0 |  |  | 0 | 0 | 0 |
| 0 | 2 | 39 | 483 | 524 |  |  |  |  | $\leqslant$ | 333 |  |  | 26 | 1 | 0 |
| 0 | 0 | 0 | 3 | 3 |  |  |  |  | 5 | 25 |  |  | 1 | 0 | 0 |
| West Approach |  |  |  |  |  |  |  | ？ | South Approach |  |  |  |  |  |  |
|  |  | Out | In | Total | Totals | 3 |  |  | Out |  |  | In | Total |  |  |
|  | 日 | 486 | 309 | 795 | － | 3 0 | 0 |  |  | 日 | 10 | 27 | 37 |  |  |
|  | 0.0 | 39 | 26 | 65 | 围 | 0 | 1 | 0 |  | 51 | 1 | 1 | 1 | 2 |  |
|  | 囫 | 2 | 1 | 3 |  |  |  |  |  |  | 1 | 0 | 10 |  |  |
|  |  | 0 | 0 | 0 |  |  |  |  |  |  | 0 |  |  |  |  |
|  |  | 527 | 336 | 863 |  | Laurentian Blvd |  |  |  |  | 12 | 28 | 40 |  |  |

日－Cars
Dob－Trucks
图－Buses
ब万b－Bicycles

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Laurentian Blvd |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | $14: 00-19: 00$ |

## Peak Hour Data (16:45-17:45)



Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

## Project \#19326 - City of Vaughan

## Intersection Count Report

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |
| Site Code: | 1932600010 |
| Count Categories: | Cars, Trucks, Buses, Bicycles, Pedestrians |
| Count Period: | $07: 00-10: 00,14: 00-19: 00$ |
| Weather: | Clear |

# Traffic Count Map 

Ontario Traffic Inc.
Intersection:
Municipality:
Count Date: $\quad 0$ ct 02, 2019


# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection: Kirby Rd \& Dufferin St<br>Municipality:<br>Count Date:<br>Vaughan<br>Oct 02, 2019

## Dufferin St - Traffic Summary

| Hour | North Approach Totals |  |  |  |  |  | South Approach Totals |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  |
|  | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| 07:00-08:00 | 0 | 627 | 281 | 0 | 908 | 0 | 237 | 243 | 0 | 0 | 480 | 0 |
| 08:00-09:00 | 0 | 545 | 211 | 0 | 756 | 0 | 283 | 309 | 0 | 0 | 592 | 0 |
| 09:00-10:00 | 0 | 475 | 84 | 0 | 559 | 0 | 162 | 232 | 0 | 0 | 394 | 0 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 0 | 255 | 34 | 0 | 289 | 0 | 166 | 415 | 0 | 0 | 581 | 0 |
| 15:00-16:00 | 0 | 311 | 51 | 0 | 362 | 0 | 227 | 482 | 0 | 0 | 709 | 0 |
| 16:00-17:00 | 0 | 311 | 65 | 0 | 376 | 0 | 267 | 701 | 0 | 0 | 968 | 0 |
| 17:00-18:00 | 0 | 304 | 49 | 0 | 353 | 0 | 302 | 690 | 0 | 0 | 992 | 0 |
| 18:00-19:00 | 0 | 248 | 30 | 0 | 278 | 0 | 206 | 493 | 0 | 0 | 699 | 0 |
| GRAND TOTAL | 0 | 3076 | 805 | 0 | 3881 | 0 | 1850 | 3565 | 0 | 0 | 5415 | 0 |

# Traffic Count Summary 

Intersection: Kirby Rd \& Dufferin St<br>Municipality:<br>Count Date:<br>Vaughan<br>Oct 02, 2019

## Kirby Rd - Traffic Summary

## East Approach Totals

| Hour | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  | Includes Cars, Trucks, Buses, Bicycles |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| 07:00-08:00 | 0 | 0 | 0 | 0 | 0 | 0 | 65 | 8 | 211 | 0 | 284 | 0 |
| 08:00-09:00 | 0 | 0 | 0 | 0 | 0 | 0 | 106 | 6 | 234 | 0 | 346 | 0 |
| 09:00-10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 16 | 140 | 0 | 192 | 0 |
| BREAK |  |  |  |  |  |  |  |  |  |  |  |  |
| 14:00-15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 69 | 3 | 143 | 0 | 215 | 0 |
| 15:00-16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 137 | 24 | 178 | 0 | 339 | 0 |
| 16:00-17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 196 | 22 | 246 | 0 | 464 | 0 |
| 17:00-18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 204 | 8 | 326 | 0 | 538 | 0 |
| 18:00-19:00 | 0 | 0 | 0 | 0 | 0 | 0 | 123 | 17 | 280 | 0 | 420 | 0 |
| GRAND TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 936 | 104 | 1758 | 0 | 2798 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

traffic monitoring *services a products

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |

## North Approach - Dufferin St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | - | $\stackrel{\rightharpoonup}{1}$ | ? | Total | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ | ค | Total | 4 | + | $\stackrel{+}{+}$ |  | Total | 4 | 1 |  |  | Total |  |
| 07:00 | 0 | 161 | 35 | 0 | 196 | 0 | 16 | 3 | 0 | 19 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 0 | 148 | 45 | 0 | 193 | 0 | 24 | 3 | 0 | 27 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 0 | 114 | 91 | 0 | 205 | 0 | 8 | 2 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 0 | 140 | 94 | 0 | 234 | 0 | 16 | 4 | 0 | 20 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 0 | 142 | 61 | 0 | 203 | 0 | 14 | 3 | 0 | 17 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| 08:15 | 0 | 101 | 58 | 0 | 159 | 0 | 13 | 1 | 0 | 14 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 0 | 143 | 35 | 0 | 178 | 0 | 12 | 3 | 0 | 15 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 0 | 102 | 44 | 0 | 146 | 0 | 12 | 5 | 0 | 17 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 0 | 110 | 31 | 0 | 141 | 0 | 13 | 2 | 0 | 15 | 0 | 1 |  | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 0 | 104 | 21 | 0 | 125 | 0 | 13 | 5 | 0 | 18 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 0 | 119 | 13 | 0 | 132 | 0 | 14 | 1 | 0 | 15 | 0 | , | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 0 | 91 | 6 | 0 | 97 | 0 | 9 | 4 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 1475 | 534 | 0 | 2009 | 0 | 164 | 36 | 0 | 200 | 0 | 7 | 6 | 0 | 13 | 0 | 1 | 0 | 0 | 1 | 0 |

## Traffic Count Data

TRAFFIC MONITORING \&ERVICES A PRODUCTS

Municipality:
Count Date:

Vaughan
Oct 02, 2019


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | $\begin{array}{\|l\|l\|} \hline \text { Total } \\ \text { Peds } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | - | $\stackrel{\rightharpoonup}{r}$ |  | Total | 4 | - | + |  | Total | 4 | - |  |  |  |  | 苗 |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 0 | 2754 | 738 | 0 | 3492 | 0 | 300 | 59 | 0 | 359 | 0 | 21 | 8 | 0 | 29 | 0 | 1 | 0 | 0 | 1 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |


| South Approach - Dufferin St |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Cars |  |  |  |  | rucks |  |  |  |  | uses |  |  |  |  | ycles |  |  |  |
| Start Time | 4 | + | $\stackrel{+}{+}$ | $\bigcirc$ | Total | 4 | 1 |  |  | Total | 4 | 1 |  | R | Total | 4 | - |  | ? | Total | $\begin{aligned} & \text { Total } \\ & \text { Peds } \end{aligned}$ |
| 07:00 | 77 | 27 | 0 | 0 | 104 | 3 | 2 | 0 | 0 | 5 | 2 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 55 | 36 | 0 | 0 | 91 | 10 | 7 | 0 | 0 | 17 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 40 | 71 | 0 | 0 | 111 | 17 | 10 | 0 | 0 | 27 | 4 | 2 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 24 | 77 | 0 | 0 | 101 | 3 | 7 | 0 | 0 | 10 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 84 | 55 | 0 | 0 | 139 | 8 | 9 | 0 | 0 | 17 | 3 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 63 | 87 | 0 | 0 | 150 | 8 | 7 | 0 | 0 | 15 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 58 | 66 | 0 | 0 | 124 | 4 | 9 | 0 | 0 | 13 | 2 | 2 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 45 | 60 | 0 | 0 | 105 | 7 | 11 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 42 | 50 | 0 | 0 | 92 | 7 | 9 | 0 | 0 | 16 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 51 | 56 | 0 | 0 | 107 | 3 | 8 | 0 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 26 | 47 | 0 | 0 | 73 | 3 | 9 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 23 | 45 | 0 | 0 |  | 5 | 7 | 0 | 0 |  | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 588 | 677 | 0 | 0 | 1265 | 78 | 95 | 0 | 0 | 173 | 16 | 12 | 0 | 0 | 28 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

Ontario Traffic Inc.<br>TRAFFIC MONITORING *SERVICES A PRODUCTS

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |

## South Approach - Dufferin St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{\text { Pr }}$ |  | Total | 4 |  |  |  | Total | 4 | + | $\stackrel{1}{1}$ | ? | Total | 4 | 1 | $\stackrel{\rightharpoonup}{4}$ |  | Total |  |
| 14:00 | 24 | 77 | 0 | 0 | 101 | 4 | 15 | 0 | 0 | 19 | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 37 | 95 | 0 | 0 | 132 | 1 | 24 | 0 | 0 | 25 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 41 | 87 | 0 | 0 | 128 | 5 | 10 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 43 | 88 | 0 | 0 | 131 | 6 | 16 | 0 | 0 | 22 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 44 | 110 | 0 | 0 | 154 | 6 | 16 | 0 | 0 | 22 | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 51 | 105 | 0 | 0 | 156 | 5 | 19 | 0 | 0 | 24 | , | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 50 | 116 | 0 | 0 | 166 | 11 | 20 | 0 | 0 | 31 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 50 | 87 | 0 | 0 | 137 | 6 | 5 | 0 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 47 | 157 | 0 | 0 | 204 | 11 | 14 | 0 | 0 | 25 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 65 | 158 | 0 | 0 | 223 | 5 | 15 | 0 | 0 | 20 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 61 | 147 | 0 | 0 | 208 | 13 | 26 | 0 | 0 | 39 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 53 | 164 | 0 | 0 | 217 | 6 | 20 | 0 | 0 | 26 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 95 | 162 | 0 | 0 | 257 | 11 | 19 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 62 | 162 | 0 | 0 | 224 | 4 | 26 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 63 | 143 | 0 | 0 | 206 | 4 | 18 | 0 | 0 | 22 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 59 | 146 | 0 | 0 | 205 | 4 | 13 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 46 | 126 | 0 | 0 | 172 | 5 | 15 | 0 | 0 | 20 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 18:15 | 63 | 125 | 0 | 0 | 188 | 9 | 11 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| 18:30 | 33 | 113 | 0 | 0 | 146 | 3 | 8 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 41 | 90 | 0 | 0 | 131 | 4 | 4 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 1028 | 2458 | 0 | 0 | 3486 | 123 | 314 | 0 | 0 | 437 | 16 | 8 | 0 | 0 | 24 | 1 | 1 | 0 | 0 | 2 | 0 |


| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 |  |  |  | Total | 4 | - |  |  | Total | 4 | + |  |  | tal |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 1616 | 3135 | 0 | 0 | 4751 | 201 | 409 | 0 | 0 | 610 | 32 | 20 | 0 | 0 | 52 | 1 | 1 | 0 | 0 | 2 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

Intersection: Kirby Rd \& Dufferin St
Municipality: Vaughan
Count Date: $\quad$ Oct 02,2019

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | - | $\stackrel{\rightharpoonup}{1}$ | $\bigcirc$ | Total | 4 | 1 |  |  | Total | 4 | 1 | - |  | Total | 4 | 1 |  |  | Total |  |
| 07:00 | 10 | 0 | 39 | 0 | 49 | 3 | 0 | 4 | 0 | 7 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 13 | 2 | 42 | 0 | 57 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 22 | 0 | 45 | 0 | 67 | 1 | 0 | 3 | 0 | 4 | 1 | 0 | 5 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 14 | 6 | 56 | 0 | 76 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 27 | 2 | 42 | 0 | 71 | 1 | 0 | 6 | 0 | 7 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 27 | 0 | 42 | 0 | 69 | 5 | 0 | 15 | 0 | 20 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 22 | 4 | 59 | 0 | 85 | 2 | 0 | 7 | 0 | 9 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 19 | 0 | 50 | 0 | 69 | 1 | 0 | 7 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 9 | 5 | 38 | 0 | 52 | 1 | 0 | 4 | 0 | 5 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 8 | 0 | 35 | 0 | 43 | 1 | 0 | 3 | 0 | 4 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 7 | 11 | 33 | 0 | 51 | 2 | 0 | 5 | 0 | 7 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 6 | 0 | 20 | 0 | 26 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 184 | 30 | 501 | 0 | 715 | 19 | 0 | 61 | 0 | 80 | 4 | 0 | 23 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

traffic monitoring *services a products

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Oct 02, 2019 |

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | 1 |  | Total | 4 | 1 | $\stackrel{\rightharpoonup}{+}$ |  | Total | - | $\dagger$ | 1 |  | Total | 4 |  | , |  | Total |  |
| 14:00 | 11 | 0 | 29 | 0 | 40 | 1 | 0 | 9 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 19 | 2 | 28 | 0 | 49 | 2 | 0 | 3 | 0 | 5 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:30 | 10 | 1 | 32 | 0 | 43 | 4 | 0 | 3 | 0 | 7 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 18 | 0 | 31 | 0 | 49 | 1 | 0 | 4 | 0 | 5 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 24 | 13 | 31 | 0 | 68 | 2 | 0 | 6 | 0 | 8 | 2 | 0 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 23 | 0 | 38 | 0 | 61 | 6 | 0 | 6 | 0 | 12 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 38 | 11 | 38 | 0 | 87 | 4 | 0 | 4 | 0 | 8 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 33 | 0 | 42 | 0 | 75 | 4 | 0 | 4 | 0 | 8 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 38 | 13 | 55 | 0 | 106 | 4 | 0 | 8 | 0 | 12 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 45 | 0 | 63 | 0 | 108 | 7 | 0 | 4 | 0 | 11 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 38 | 8 | 42 | 0 | 88 | 5 | 0 | 8 | 0 | 13 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 53 | 1 | 59 | 0 | 113 | 4 | 0 | 2 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 49 | 0 | 73 | 0 | 122 | 4 | 0 | 6 | 0 | 10 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 48 | 6 | 68 | 0 | 122 | 6 | 0 | 6 | 0 | 12 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 48 | 0 | 85 | 0 | 133 | 3 | 0 | 9 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 42 | 2 | 69 | 0 | 113 | 4 | 0 | 8 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 47 | 0 | 67 | 0 | 114 | 2 | 0 | 6 | 0 | 8 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 36 | 14 | 74 | 0 | 124 | 0 | 0 | 8 | 0 | 8 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 18 | 3 | 66 | 0 | 87 | 2 | 0 | 3 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 16 | 0 | 51 | 0 | 67 | 1 | 0 | 4 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 654 | 74 | 1041 | 0 | 1769 | 66 | 0 | 111 | 0 | 177 | 9 | 0 | 21 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 |


|  |  |  |  |  |  | Trucks |  |  |  |  | Buses |  |  |  |  | Bicycles |  |  |  |  | Total Peds |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | 4 | + | $\rightarrow$ |  | Total | 4 | - | $\stackrel{\rightharpoonup}{+}$ |  | Total | 4 | - |  |  | otal |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { GRAND } \\ & \text { TOTAL } \end{aligned}$ | 838 | 104 | 1542 | 0 | 2484 | 85 | 0 | 172 | 0 | 257 | 13 | 0 | 44 | 0 | 57 | 0 | 0 | 0 | 0 | 0 | 0 |  |

## Peak Hour Diagram

## Specified Period

| From： | $07: 00: 00$ | From： | $07: 30: 00$ |
| :--- | :--- | :--- | :--- |
| To： | $10: 00: 00$ | To： | $08: 30: 00$ |

One Hour Peak
From：
08：30：00

Intersection：
Site ID：
Count Date：

Kirby Rd \＆Dufferin St
1932600010
Oct 02， 2019

Weather conditions：

| North Approach |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Out | In | Total |
| $\square$ | 801 | 380 | 1181 |
| 0.2 | 61 | 40 | 101 |
| 圂 | 5 | 8 | 13 |
| \％ | 1 | 0 | 1 |
|  | 868 | 428 | 1296 |

Kirby Rd

| \％ | 国 | 0.0 | 日 | Totals |
| :---: | :---: | :---: | :---: | :---: |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 2 | 7 | 90 | 99 |
| 0 | 12 | 28 | 185 | 225 |

Dufferin St

| \％ | 0 | 1 | 0 |
| :---: | :---: | :---: | :---: |
| 国 | 1 | 4 | 0 |
| 50 | 10 | 51 | 0 |
| 日 | 304 | 497 | 0 |
| Totals | 315 | 553 | 0 |
|  | 4 | ＋ |  |

Peds： 0


Peds： 0


Dufferin St

| South Approach |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Out | In | Total |
| $\cdots$ | 501 | 682 | 1183 |
|  | 69 | 79 | 148 |
| 园 | 14 | 16 | 30 |
| O | 0 | 1 | 1 |
|  | 584 | 778 | 1362 |

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | $07: 00-10: 00$ |

Peak Hour Data (07:30-08:30)

|  | North Approach Dufferin St |  |  |  |  | South Approach Dufferin St |  |  |  |  |  | East Approach |  |  |  | West Approach Kirby Rd |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start Time | - |  |  |  | Total |  | - | $\Gamma$ | ? | Peds | Total |  | $\cdots$ ¢ | Peds | Total |  | $\uparrow \quad \stackrel{ }{+}$ |  | Peds | Total | es |
| 07:30 | 122 | 93 | 0 | 0 | 215 | 61 | 83 |  | 0 | 0 | 144 |  |  | 0 |  | 24 | 53 | 0 | 0 | 77 | 436 |
| 07:45 | 156 | 99 | 0 | 0 | 255 | 27 | 85 |  | 0 | 0 | 112 |  |  | 0 |  | 14 | 63 | 0 | 0 | 77 | 444 |
| 08:00 | 158 | 64 | 0 | 0 | 222 | 95 | 65 |  | 0 | 0 | 160 |  |  | 0 |  | 29 | 50 | 0 | 0 | 79 | 461 |
| 08:15 | 117 | 59 | 0 | 0 | 176 | 72 | 96 |  | 0 | 0 | 168 |  |  | 0 |  | 32 | 59 | 0 | 0 | 91 | 435 |
| Grand Total | 553 | 315 | 0 | 0 | 868 | 255 | 329 |  | 0 | 0 | 584 |  |  | 0 | 0 | 99 | 225 | 0 | 0 | 324 | 1776 |
| Approach | 63.7 | 36.3 | 0 |  | - | 43.7 | 56.3 |  | 0 |  | - |  |  |  | - | 30.6 | 69.4 | 0 |  | - |  |
| Totals \% | 31.1 | 17.7 | 0 |  | 48.9 | 14.4 | 18.5 |  | 0 |  | 32.9 |  |  |  | 0 | 5.6 | 12.7 | 0 |  | 18.2 |  |
| PHF | 0.88 | 0.8 | 0 |  | 0.85 | 0.67 | 0.86 |  | 0 |  | 0.87 |  |  |  | 0 | 0.77 | 0.89 | 0 |  | 0.89 | 0.96 |
| Cars | 497 | 304 | 0 |  | 801 | 211 | 290 |  | 0 |  | 501 |  |  |  | 0 | 90 | 185 | 0 |  | 275 | 1577 |
| \% Cars | 89.9 | 96.5 | 0 |  | 92.3 | 82.7 | 88.1 |  | 0 |  | 85.8 |  |  |  | 0 | 90.9 | 82.2 | 0 |  | 84.9 | 88.8 |
| Trucks | 51 | 10 | 0 |  | 61 | 36 | 33 |  | 0 |  | 69 |  |  |  | 0 | 7 | 28 | 0 |  | 35 | 165 |
| \% Trucks | 9.2 | 3.2 | 0 |  | 7 | 14.1 | 10 |  | 0 |  | 11.8 |  |  |  | 0 | 7.1 | 12.4 | 0 |  | 10.8 | 9.3 |
| Buses | 4 | 1 | 0 |  | 5 | 8 | 6 |  | 0 |  | 14 |  |  |  | 0 | 2 | 12 | 0 |  | 14 | 33 |
| \% Buses | 0.7 | 0.3 | 0 |  | 0.6 | 3.1 | 1.8 |  | 0 |  | 2.4 |  |  |  | 0 | 2 | 5.3 | 0 |  | 4.3 | 1.9 |
| Bicycles | 1 | 0 | 0 |  | 1 | 0 | 0 |  | 0 |  | 0 |  |  |  | 0 | 0 | 0 | 0 |  | 0 | 1 |
| \% Bicycles | 0.2 | 0 | 0 |  | 0.1 | 0 | 0 |  | 0 |  | 0 |  |  |  | 0 | 0 | 0 | 0 |  | 0 | 0.1 |
| Peds |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  | 0 | - |  |  |  | 0 | - | 0 |
| \% Peds |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  | 0 | - |  |  |  | 0 | - |  |

## Peak Hour Diagram

Specified Period

| From： | $14: 00: 00$ | From： | $16: 45: 00$ |
| :--- | :--- | :--- | :--- |
| To： | $19: 00: 00$ | To： | $17: 45: 00$ |

Intersection：
Site ID：
Count Date：

Kirby Rd \＆Dufferin St
1932600010
Oct 02， 2019

One Hour Peak
From：
17：45：00

Weather conditions：
＊＊Signalized Intersection＊＊
Major Road：Dufferin St runs N／S


Kirby Rd

| \％ | 鱼 |  | 日 | Totals |
| :---: | :---: | :---: | :---: | :---: |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 17 | 198 | 215 |
| 0 | 3 | 23 | 285 | 311 |

Peds： 0


Peds： 0

| 4 |  | 1 | $?$ |
| :---: | :---: | :---: | :---: |
| Totals | 299 | 715 | 0 |
| 日 | 273 | 631 | 0 |
| 50 | 25 | 83 | 0 |
| 畇 | 1 | 1 | 0 |
| お | 0 | 0 | 0 |
| Dufferin St |  |  |  |

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Count Date: | Oct 02, 2019 |
| Period: | 14:00-19:00 |

Peak Hour Data (16:45-17:45)


## Project \#19361 - City of Vaughan

## Intersection Count Report

| Intersection: | Kirby Rd \& Jane St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |
| Site Code: | 1936100001 |
| Count Categories: | Cars, Trucks, Pedestrians |
| Count Period: | 11:00-19:00 |
| Weather: | Clear |

# Traffic Count Map 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

Intersection: Kirby Rd \& Jane St
Municipality: Vaughan
Count Date: $\quad$ Nov 02, 2019


## Traffic Count Summary



## Ontario Traffic Inc.

TRAFFIC MONITORING SERVICES A PRODUCTS

Intersection:<br>Municipality:<br>Count Date:<br>Kirby Rd \& Jane St<br>Vaughan<br>Nov 02, 2019

## Jane St - Traffic Summary

| Hour | North Approach Totals |  |  |  |  |  | South Approach Totals |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Includes Cars, Trucks |  |  |  |  |  | Includes Cars, Trucks |  |  |  |  |  |
|  | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| 11:00-12:00 | 16 | 270 | 29 | 0 | 315 | 0 | 7 | 176 | 76 | 0 | 259 | 0 |
| 12:00-13:00 | 10 | 274 | 44 | 0 | 328 | 0 | 6 | 196 | 86 | 0 | 288 | 0 |
| 13:00-14:00 | 6 | 213 | 41 | 0 | 260 | 0 | 11 | 259 | 104 | 0 | 374 | 0 |
| 14:00-15:00 | 7 | 223 | 45 | 0 | 275 | 0 | 10 | 262 | 94 | 0 | 366 | 0 |
| 15:00-16:00 | 9 | 205 | 52 | 0 | 266 | 0 | 12 | 256 | 87 | 0 | 355 | 0 |
| 16:00-17:00 | 11 | 193 | 47 | 0 | 251 | 0 | 19 | 293 | 91 | 0 | 403 | 0 |
| 17:00-18:00 | 10 | 202 | 46 | 0 | 258 | 0 | 6 | 248 | 85 | 0 | 339 | 0 |
| 18:00-19:00 | 6 | 186 | 34 | 0 | 226 | 0 | 5 | 226 | 78 | 0 | 309 | 0 |
| GRAND TOTAL | 75 | 1766 | 338 | 0 | 2179 | 0 | 76 | 1916 | 701 | 0 | 2693 | 0 |

# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

Intersection:<br>Municipality:<br>Count Date:<br>Kirby Rd \& Jane St<br>Vaughan<br>Nov 02, 2019

## Kirby Rd - Traffic Summary

East Approach Totals
Includes Cars, Trucks

| Hour | Left | Thru | Right | U-Turn | Total |  | Peds | Left | Thru | Right | U-Turn | Total |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | Peds

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \&ERVICES A PRODUCTS

| Intersection: | Kirby Rd \& Jane St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## North Approach - Jane St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ | $\square$ | Total | 4 | + | $\stackrel{\rightharpoonup}{1}$ | $\bigcirc$ | Total |  |
| 11:00 | 1 | 66 | 9 | 0 | 76 | 0 | 4 | 0 | 0 | 4 | 0 |
| 11:15 | 5 | 60 | 4 | 0 | 69 | 1 | 6 | 0 | 0 | 7 | 0 |
| 11:30 | 4 | 50 | 6 | 0 | 60 | 0 | 10 | 2 | 0 | 12 | 0 |
| 11:45 | 5 | 66 | 8 | 0 | 79 | 0 | 8 | 0 | 0 | 8 | 0 |
| 12:00 | 2 | 75 | 8 | 0 | 85 | 2 | 5 | 2 | 0 | 9 | 0 |
| 12:15 | 2 | 53 | 4 | 0 | 59 | 0 | 3 | 1 | 0 | 4 | 0 |
| 12:30 | 1 | 65 | 14 | 0 | 80 | 0 | 8 | 3 | 0 | 11 | 0 |
| 12:45 | 2 | 61 | 9 | 0 | 72 | 1 | 4 | 3 | 0 | 8 | 0 |
| 13:00 | 3 | 50 | 8 | 0 | 61 | 0 | 5 | 0 | 0 | 5 | 0 |
| 13:15 | 2 | 55 | 14 | 0 | 71 | 0 | 3 | 2 | 0 | 5 | 0 |
| 13:30 | 0 | 40 | 6 | 0 | 46 | 1 | 9 | 1 | 0 | 11 | 0 |
| 13:45 | 0 | 48 | 7 | 0 | 55 | 0 | 3 | 3 | 0 | 6 | 0 |
| 14:00 | 3 | 50 | 7 | 0 | 60 | 1 | 4 | 2 | 0 | 7 | 0 |
| 14:15 | 0 | 50 | 10 | 0 | 60 | 1 | 5 | 1 | 0 | 7 | 0 |
| 14:30 | 1 | 51 | 12 | 0 | 64 | 0 | 2 | 0 | 0 | 2 | 0 |
| 14:45 | 1 | 53 | 10 | 0 | 64 | 0 | 8 | 3 | 0 | 11 | 0 |
| 15:00 | 1 | 50 | 11 | 0 | 62 | 0 | 2 | 0 | 0 | 2 | 0 |
| 15:15 | 2 | 58 | 16 | 0 | 76 | 1 | 2 | 0 | 0 | 3 | 0 |
| 15:30 | 1 | 44 | 12 | 0 | 57 | 0 | 7 | 4 | 0 | 11 | 0 |
| 15:45 | 4 | 40 | 9 | 0 | 53 | 0 | 2 | 0 | 0 | 2 | 0 |
| 16:00 | 4 | 37 | 9 | 0 | 50 | 0 | 3 | 0 | 0 | 3 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Jane St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## North Approach - Jane St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\xrightarrow{1+}$ | $?$ | Total | 4 | 1 | $\stackrel{\rightharpoonup}{+}$ | $?$ | Total |  |
| 16:15 | 2 | 45 | 6 | 0 | 53 | 0 | 1 | 2 | 0 | 3 | 0 |
| 16:30 | 2 | 55 | 13 | 0 | 70 | 0 | 0 | 1 | 0 | 1 | 0 |
| 16:45 | 3 | 51 | 15 | 0 | 69 | 0 | 1 | 1 | 0 | 2 | 0 |
| 17:00 | 3 | 58 | 13 | 0 | 74 | 0 | 1 | 0 | 0 | 1 | 0 |
| 17:15 | 1 | 46 | 9 | 0 | 56 | 0 | 6 | 1 | 0 | 7 | 0 |
| 17:30 | 4 | 40 | 11 | 0 | 55 | 0 | 2 | 1 | 0 | 3 | 0 |
| 17:45 | 1 | 46 | 11 | 0 | 58 | 1 | 3 | 0 | 0 | 4 | 0 |
| 18:00 | 1 | 41 | 10 | 0 | 52 | 0 | 4 | 0 | 0 | 4 | 0 |
| 18:15 | 4 | 51 | 13 | 0 | 68 | 0 | 4 | 1 | 0 | 5 | 0 |
| 18:30 | 1 | 38 | 4 | 0 | 43 | 0 | 1 | 0 | 0 | 1 | 0 |
| 18:45 | 0 | 47 | 6 | 0 | 53 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 66 | 1640 | 304 | 0 | 2010 | 9 | 126 | 34 | 0 | 169 | 0 |
| GRAND TOTAL | 66 | 1640 | 304 | 0 | 2010 | 9 | 126 | 34 | 0 | 169 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \&ERVICES A PRODUCTS

| Intersection: | Kirby Rd \& Jane St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

South Approach - Jane St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\xrightarrow{1+}$ | ? | Total | 4 | + | $\xrightarrow{+}$ | ? | Total |  |
| 11:00 | 0 | 42 | 13 | 0 | 55 | 1 | 5 | 2 | 0 | 8 | 0 |
| 11:15 | 4 | 32 | 17 | 0 | 53 | 0 | 7 | 2 | 0 | 9 | 0 |
| 11:30 | 0 | 32 | 22 | 0 | 54 | 0 | 7 | 6 | 0 | 13 | 0 |
| 11:45 | 2 | 44 | 13 | 0 | 59 | 0 | 7 | 1 | 0 | 8 | 0 |
| 12:00 | 1 | 41 | 19 | 0 | 61 | 0 | 7 | 5 | 0 | 12 | 0 |
| 12:15 | 3 | 34 | 18 | 0 | 55 | 0 | 3 | 2 | 0 | 5 | 0 |
| 12:30 | 2 | 51 | 16 | 0 | 69 | 0 | 7 | 2 | 0 | 9 | 0 |
| 12:45 | 0 | 48 | 20 | 0 | 68 | 0 | 5 | 4 | 0 | 9 | 0 |
| 13:00 | 0 | 52 | 19 | 0 | 71 | 0 | 12 | 5 | 0 | 17 | 0 |
| 13:15 | 3 | 48 | 23 | 0 | 74 | 1 | 8 | 3 | 0 | 12 | 0 |
| 13:30 | 3 | 62 | 21 | 0 | 86 | 1 | 8 | 3 | 0 | 12 | 0 |
| 13:45 | 2 | 59 | 28 | 0 | 89 | 1 | 10 | 2 | 0 | 13 | 0 |
| 14:00 | 2 | 57 | 18 | 0 | 77 | 0 | 5 | 4 | 0 | 9 | 0 |
| 14:15 | 2 | 73 | 22 | 0 | 97 | 0 | 7 | 4 | 0 | 11 | 0 |
| 14:30 | 3 | 52 | 26 | 0 | 81 | 1 | 8 | 2 | 0 | 11 | 0 |
| 14:45 | 2 | 53 | 15 | 0 | 70 | 0 | 7 | 3 | 0 | 10 | 0 |
| 15:00 | 3 | 59 | 10 | 0 | 72 | 0 | 6 | 3 | 0 | 9 | 0 |
| 15:15 | 0 | 63 | 21 | 0 | 84 | 1 | 8 | 1 | 0 | 10 | 0 |
| 15:30 | 2 | 46 | 24 | 0 | 72 | 2 | 7 | 3 | 0 | 12 | 0 |
| 15:45 | 3 | 64 | 20 | 0 | 87 | 1 | 3 | 5 | 0 | 9 | 0 |
| 16:00 | 4 | 54 | 15 | 0 | 73 | 2 | 6 | 4 | 0 | 12 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Jane St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## South Approach - Jane St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{+}{+}$ | $?$ | Total | 4 | 1 | $\stackrel{+}{ }$ | $?$ | Total |  |
| 16:15 | 5 | 68 | 24 | 0 | 97 | 1 | 8 | 1 | 0 | 10 | 0 |
| 16:30 | 1 | 62 | 20 | 0 | 83 | 0 | 5 | 2 | 0 | 7 | 0 |
| 16:45 | 5 | 85 | 21 | 0 | 111 | 1 | 5 | 4 | 0 | 10 | 0 |
| 17:00 | 2 | 79 | 20 | 0 | 101 | 0 | 4 | 4 | 0 | 8 | 0 |
| 17:15 | 1 | 65 | 19 | 0 | 85 | 0 | 3 | 2 | 0 | 5 | 0 |
| 17:30 | 3 | 50 | 18 | 0 | 71 | 0 | 4 | 0 | 0 | 4 | 0 |
| 17:45 | 0 | 42 | 21 | 0 | 63 | 0 | 1 | 1 | 0 | 2 | 0 |
| 18:00 | 1 | 59 | 13 | 0 | 73 | 0 | 4 | 2 | 0 | 6 | 0 |
| 18:15 | 2 | 55 | 21 | 0 | 78 | 0 | 1 | 1 | 0 | 2 | 0 |
| 18:30 | 2 | 48 | 12 | 0 | 62 | 0 | 2 | 1 | 0 | 3 | 0 |
| 18:45 | 0 | 50 | 23 | 0 | 73 | 0 | 7 | 5 | 0 | 12 | 0 |
| SUBTOTAL | 63 | 1729 | 612 | 0 | 2404 | 13 | 187 | 89 | 0 | 289 | 0 |
| GRAND TOTAL | 63 | 1729 | 612 | 0 | 2404 | 13 | 187 | 89 | 0 | 289 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Jane St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ | $\bigcirc$ | Total | 4 | 1 | $\stackrel{+}{ }$ | $\bigcirc$ | Total |  |
| 11:00 | 11 | 6 | 1 | 0 | 18 | 3 | 1 | 1 | 0 | 5 | 0 |
| 11:15 | 20 | 13 | 2 | 0 | 35 | 5 | 1 | 0 | 0 | 6 | 0 |
| 11:30 | 14 | 11 | 2 | 0 | 27 | 2 | 4 | 0 | 0 | 6 | 0 |
| 11:45 | 17 | 4 | 2 | 0 | 23 | 3 | 2 | 2 | 0 | 7 | 0 |
| 12:00 | 26 | 11 | 4 | 0 | 41 | 4 | 2 | 1 | 0 | 7 | 0 |
| 12:15 | 16 | 7 | 2 | 0 | 25 | 3 | 0 | 1 | 0 | 4 | 0 |
| 12:30 | 19 | 16 | 2 | 0 | 37 | 3 | 1 | 2 | 0 | 6 | 0 |
| 12:45 | 15 | 16 | 2 | 0 | 33 | 8 | 2 | 0 | 0 | 10 | 0 |
| 13:00 | 13 | 13 | 2 | 0 | 28 | 5 | 0 | 0 | 0 | 5 | 0 |
| 13:15 | 19 | 8 | 1 | 0 | 28 | 0 | 3 | 0 | 0 | 3 | 0 |
| 13:30 | 16 | 17 | 2 | 0 | 35 | 0 | 1 | 2 | 0 | 3 | 0 |
| 13:45 | 23 | 15 | 4 | 0 | 42 | 2 | 0 | 0 | 0 | 2 | 0 |
| 14:00 | 20 | 15 | 1 | 0 | 36 | 2 | 0 | 2 | 0 | 4 | 0 |
| 14:15 | 15 | 10 | 3 | 0 | 28 | 2 | 5 | 1 | 0 | 8 | 0 |
| 14:30 | 17 | 13 | 2 | 0 | 32 | 1 | 1 | 2 | 0 | 4 | 0 |
| 14:45 | 17 | 11 | 7 | 0 | 35 | 4 | 4 | 0 | 0 | 8 | 0 |
| 15:00 | 19 | 24 | 5 | 0 | 48 | 1 | 4 | 0 | 0 | 5 | 0 |
| 15:15 | 10 | 11 | 4 | 0 | 25 | 0 | 4 | 0 | 0 | 4 | 0 |
| 15:30 | 16 | 13 | 2 | 0 | 31 | 2 | 1 | 0 | 0 | 3 | 0 |
| 15:45 | 9 | 13 | 3 | 0 | 25 | 3 | 1 | 0 | 0 | 4 | 0 |
| 16:00 | 11 | 18 | 2 | 0 | 31 | 2 | 2 | 0 | 0 | 4 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Jane St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\xrightarrow{+}$ | ? | Total | 4 | 1 | $\stackrel{\rightharpoonup}{*}$ | ? | Total |  |
| 16:15 | 18 | 15 | 4 | 0 | 37 | 1 | 2 | 0 | 0 | 3 | 0 |
| 16:30 | 8 | 13 | 1 | 0 | 22 | 2 | 1 | 0 | 0 | 3 | 0 |
| 16:45 | 10 | 14 | 3 | 0 | 27 | 3 | 1 | 0 | 0 | 4 | 0 |
| 17:00 | 13 | 17 | 1 | 0 | 31 | 6 | 2 | 0 | 0 | 8 | 0 |
| 17:15 | 18 | 14 | 0 | 0 | 32 | 3 | 0 | 0 | 0 | 3 | 0 |
| 17:30 | 15 | 13 | 6 | 0 | 34 | 0 | 1 | 1 | 0 | 2 | 0 |
| 17:45 | 12 | 14 | 1 | 0 | 27 | 1 | 0 | 0 | 0 | 1 | 0 |
| 18:00 | 8 | 11 | 2 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 15 | 12 | 2 | 0 | 29 | 2 | 0 | 0 | 0 | 2 | 0 |
| 18:30 | 8 | 8 | 5 | 0 | 21 | 1 | 0 | 0 | 0 | 1 | 0 |
| 18:45 | 12 | 4 | 5 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 480 | 400 | 85 | 0 | 965 | 74 | 46 | 15 | 0 | 135 | 0 |
| GRAND TOTAL | 480 | 400 | 85 | 0 | 965 | 74 | 46 | 15 | 0 | 135 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Jane St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | - | $\stackrel{\rightharpoonup}{4}$ | $\bigcirc$ | Total | 4 | 1 | $\stackrel{+}{ }$ | ? | Total |  |
| 11:00 | 6 | 5 | 3 | 0 | 14 | 1 | 1 | 0 | 0 | 2 | 0 |
| 11:15 | 3 | 7 | 5 | 0 | 15 | 1 | 0 | 1 | 0 | 2 | 1 |
| 11:30 | 4 | 16 | 1 | 0 | 21 | 0 | 2 | 0 | 0 | 2 | 0 |
| 11:45 | 3 | 15 | 0 | 0 | 18 | 0 | 2 | 0 | 0 | 2 | 0 |
| 12:00 | 6 | 13 | 1 | 0 | 20 | 2 | 1 | 0 | 0 | 3 | 0 |
| 12:15 | 8 | 9 | 3 | 0 | 20 | 1 | 1 | 1 | 0 | 3 | 0 |
| 12:30 | 6 | 15 | 1 | 0 | 22 | 0 | 4 | 0 | 0 | 4 | 0 |
| 12:45 | 11 | 9 | 4 | 0 | 24 | 2 | 2 | 0 | 0 | 4 | 0 |
| 13:00 | 0 | 8 | 3 | 0 | 11 | 2 | 3 | 0 | 0 | 5 | 0 |
| 13:15 | 5 | 11 | 3 | 0 | 19 | 1 | 4 | 1 | 0 | 6 | 0 |
| 13:30 | 6 | 8 | 0 | 0 | 14 | 5 | 1 | 1 | 0 | 7 | 0 |
| 13:45 | 5 | 12 | 1 | 0 | 18 | 0 | 2 | 0 | 0 | 2 | 0 |
| 14:00 | 5 | 13 | 2 | 0 | 20 | 1 | 0 | 0 | 0 | 1 | 0 |
| 14:15 | 2 | 17 | 1 | 0 | 20 | 0 | 2 | 0 | 0 | 2 | 0 |
| 14:30 | 5 | 14 | 0 | 0 | 19 | 1 | 3 | 1 | 0 | 5 | 0 |
| 14:45 | 7 | 13 | 4 | 0 | 24 | 1 | 2 | 0 | 0 | 3 | 0 |
| 15:00 | 5 | 13 | 1 | 0 | 19 | 2 | 2 | 0 | 0 | 4 | 0 |
| 15:15 | 7 | 14 | 2 | 0 | 23 | 0 | 1 |  | 0 | 2 | 0 |
| 15:30 | 8 | 17 | 0 | 0 | 25 | 0 | 2 | 1 | 0 | 3 | 0 |
| 15:45 | 5 | 15 | 7 | 0 | 27 | 0 | 1 | 1 | 0 | 2 | 0 |
| 16:00 | 3 | 17 | 3 | 0 | 23 | 1 | 1 | 1 | 0 | 3 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Jane St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\xrightarrow{1+}$ | ค | Total | 4 | 1 | $\xrightarrow{1+}$ | ? | Total |  |
| 16:15 | 3 | 14 | 3 | 0 | 20 | 0 | 3 | 0 | 0 | 3 | 0 |
| 16:30 | 7 | 12 | 1 | 0 | 20 | 1 | 1 | 0 | 0 | 2 | 0 |
| 16:45 | 10 | 14 | 1 | 0 | 25 | 0 | 1 | 1 | 0 | 2 | 0 |
| 17:00 | 7 | 15 | 0 | 0 | 22 | 2 | 5 | 0 | 0 | 7 | 0 |
| 17:15 | 11 | 16 | 3 | 0 | 30 | 1 | 2 | 0 | 0 | 3 | 0 |
| 17:30 | 6 | 17 | 1 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 11 | 14 | 2 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 4 | 11 | 2 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 9 | 18 | 0 | 0 | 27 | 1 | 0 | 0 | 0 | 1 | 0 |
| 18:30 | 5 | 14 | 2 | 0 | 21 | 1 | 2 | 0 | 0 | 3 | 0 |
| 18:45 | 7 | 5 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 190 | 411 | 60 | 0 | 661 | 27 | 51 | 10 | 0 | 88 | 1 |
| GRAND TOTAL | 190 | 411 | 60 | 0 | 661 | 27 | 51 | 10 | 0 | 88 | 1 |

## Peak Hour Diagram



Ontario Traffic Inc.
TRAFFIC MONITORING \&ERVICES S PRODUCTS

Intersection:
Site ID:
Count Date:

Kirby Rd \& Jane St
1936100001
Nov 02, 2019

## Specified Period

| From: | $11: 00: 00$ | From: | $12: 30: 00$ |
| :--- | :--- | :--- | :--- |
| To: | $14: 00: 00$ | To: | $13: 30: 00$ |

** Signalized Intersection ** Major Road: Jane St runs N/S


[^1]O-a - Trucks
Comments

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Jane St |
| :--- | :--- |
| Count Date: | Nov 02, 2019 |
| Period: | 11:00-14:00 |


| Peak Hour Data (12:30-13:30) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | North Approach Jane St |  |  |  |  |  | South Approach Jane St |  |  |  |  |  | East Approach Kirby Rd |  |  |  |  |  | West Approach Kirby Rd |  |  |  |  |  | Total Vehicl es |
| Start Time |  | $\uparrow$ | $\stackrel{\rightharpoonup}{4}$ | $\checkmark$ | Peds |  |  | $\uparrow$ | $\stackrel{ }{ }$ | $?$ | Peds | Total |  | - | $\stackrel{ }{ }$ | , | Peds | Total |  | - | $\stackrel{ }{ }$ | ? | Peds | Total |  |
| 12:30 | 1 | 73 | 17 | 0 | 0 | 91 | 2 | 58 | 18 | 0 | 0 | 78 | 22 | 17 | 4 | 0 | 0 | 43 | 6 | 19 | 1 | 0 | 0 | 26 | 238 |
| 12:45 | 3 | 65 | 12 | 0 | 0 | 80 | 0 | 53 | 24 | 0 | 0 | 77 | 23 | 18 | 2 | 0 | 0 | 43 | 13 | 11 | 4 | 0 | 0 | 28 | 228 |
| 13:00 | 3 | 55 | 8 | 0 | 0 | 66 | 0 | 64 | 24 | 0 | 0 | 88 | 18 | 13 | 2 | 0 | 0 | 33 | 2 | 11 | 3 | 0 | 0 | 16 | 203 |
| 13:15 | 2 | 58 | 16 | 0 | 0 | 76 | 4 | 56 | 26 | 0 | 0 | 86 | 19 | 11 | 1 | 0 | 0 | 31 | 6 | 15 | 4 | 0 | 0 | 25 | 218 |
| $\begin{aligned} & \text { Grand } \\ & \text { Total } \end{aligned}$ | 9 | 251 | 53 | 0 | 0 | 313 | 6 | 231 | 92 | 0 | 0 | 329 | 82 | 59 | 9 | 0 | 0 | 150 | 27 | 56 | 12 | 0 | 0 | 95 | 887 |
| $\begin{gathered} \text { Approach } \\ \% \end{gathered}$ | 2.9 | 80.2 | 16.9 | 0 |  | - | 1.8 | 70.2 | 28 | 0 |  | - | 54.7 | 39.3 | 6 | 0 |  | - | 28.4 | 58.9 | 12.6 | 0 |  | - |  |
| Totals \% | 1 | 28.3 | 6 | 0 |  | 35.3 | 0.7 | 26 | 10.4 | 0 |  | 37.1 | 9.2 | 6.7 | 1 | 0 |  | 16.9 | 3 | 6.3 | 1.4 | 0 |  | 10.7 |  |
| PHF | 0.75 | 0.86 | 0.78 | 0 |  | 0.86 | 0.38 | 0.9 | 0.88 | 0 |  | 0.93 | 0.89 | 0.82 | 0.56 | 0 |  | 0.87 | 0.52 | 0.74 | 0.75 | 0 |  | 0.85 | 0.93 |
| Cars | 8 | 231 | 45 | 0 |  | 284 | 5 | 199 | 78 | 0 |  | 282 | 66 | 53 | 7 | 0 |  | 126 | 22 | 43 | 11 | 0 |  | 76 | 768 |
| \% Cars | 88.9 | 92 | 84.9 | 0 |  | 90.7 | 83.3 | 86.1 | 84.8 | 0 |  | 85.7 | 80.5 | 89.8 | 77.8 | 0 |  | 84 | 81.5 | 76.8 | 91.7 | 0 |  | 80 | 86.6 |
| Trucks | 1 | 20 | 8 | 0 |  | 29 | 1 | 32 | 14 | 0 |  | 47 | 16 | 6 | 2 | 0 |  | 24 | 5 | 13 | 1 | 0 |  | 19 | 119 |
| \% Trucks | 11.1 | 8 | 15.1 | 0 |  | 9.3 | 16.7 | 13.9 | 15.2 | 0 |  | 14.3 | 19.5 | 10.2 | 22.2 | 0 |  | 16 | 18.5 | 23.2 | 8.3 | 0 |  | 20 | 13.4 |
| Peds |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - | 0 |
| \% Peds |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |

## Peak Hour Diagram



Ontario Traffic Inc.
TRAFFIC MONITORING \&ERVICES S PRODUCTS

Intersection:
Site ID:
Count Date:

Kirby Rd \& Jane St
1936100001
Nov 02, 2019

## Specified Period

| From: | $14: 00: 00$ | From: | 16:15:00 |
| :--- | :--- | :--- | :--- |
| To: | $19: 00: 00$ | To: | $17: 15: 00$ |

** Signalized Intersection ** Major Road: Jane St runs N/S




Peds: 0
Kirby Rd


Peds: 0

|  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: |
| Totals | $\mathbf{1 5}$ | $\mathbf{3 1 6}$ | $\mathbf{9 6}$ | $\mathbf{0}$ |
| $⿴$ | 13 | 294 | 85 | 0 |
| $0-2$ | 2 | 22 | 11 | 0 |

Jane St

Weather conditions:

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Jane St |
| :--- | :--- |
| Count Date: | Nov 02, 2019 |
| Period: | $14: 00-19: 00$ |


| Peak Hour Data (16:15-17:15) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | North Approach Jane St |  |  |  |  |  | South Approach Jane St |  |  |  |  |  | East Approach Kirby Rd |  |  |  |  |  | West Approach Kirby Rd |  |  |  |  |  | Total Vehicl es |
| Start Time |  | $\uparrow$ | $\stackrel{\rightharpoonup}{r}$ |  |  | Total |  | - | $\stackrel{\rightharpoonup}{r}$ | $?$ | Peds | Total |  | $\uparrow$ | $\stackrel{\rightharpoonup}{1}$ | ? | Peds |  |  | - | $\stackrel{\rightharpoonup}{r}$ |  | Peds | Total |  |
| 16:15 | 2 | 46 | 8 | 0 | 0 | 56 | 6 | 76 | 25 | 0 | 0 | 107 | 19 | 17 | 4 | 0 | 0 | 40 | 3 | 17 | 3 | 0 | 0 | 23 | 226 |
| 16:30 | 2 | 55 | 14 | 0 | 0 | 71 | 1 | 67 | 22 | 0 | 0 | 90 | 10 | 14 | 1 | 0 | 0 | 25 | 8 | 13 | 1 | 0 | 0 | 22 | 208 |
| 16:45 | 3 | 52 | 16 | 0 | 0 | 71 | 6 | 90 | 25 | 0 | 0 | 121 | 13 | 15 | 3 | 0 | 0 | 31 | 10 | 15 | 2 | 0 | 0 | 27 | 250 |
| 17:00 | 3 | 59 | 13 | 0 | 0 | 75 | 2 | 83 | 24 | 0 | 0 | 109 | 19 | 19 | 1 | 0 | 0 | 39 | 9 | 20 | 0 | 0 | 0 | 29 | 252 |
| Grand Total | 10 | 212 | 51 | 0 | 0 | 273 | 15 | 316 | 96 | 0 | 0 | 427 | 61 | 65 | 9 | 0 | 0 | 135 | 30 | 65 | 6 | 0 | 0 | 101 | 936 |
| $\begin{aligned} & \text { Approach } \\ & \% \end{aligned}$ | 3.7 | 77.7 | 18.7 | 0 |  | - | 3.5 | 74 | 22.5 | 0 |  | - | 45.2 | 48.1 | 6.7 | 0 |  | - | 29.7 | 64.4 | 5.9 | 0 |  | - |  |
| Totals \% | 1.1 | 22.6 | 5.4 | 0 |  | 29.2 | 1.6 | 33.8 | 10.3 | 0 |  | 45.6 | 6.5 | 6.9 | 1 | 0 |  | 14.4 | 3.2 | 6.9 | 0.6 | 0 |  | 10.8 |  |
| PHF | 0.83 | 0.9 | 0.8 | 0 |  | 0.91 | 0.63 | 0.88 | 0.96 | 0 |  | 0.88 | 0.8 | 0.86 | 0.56 | 0 |  | 0.84 | 0.75 | 0.81 | 0.5 | 0 |  | 0.87 | 0.93 |
| Cars | 10 | 209 | 47 | 0 |  | 266 | 13 | 294 | 85 | 0 |  | 392 | 49 | 59 | 9 | 0 |  | 117 | 27 | 55 | 5 | 0 |  | 87 | 862 |
| \% Cars | 100 | 98.6 | 92.2 | 0 |  | 97.4 | 86.7 | 93 | 88.5 | 0 |  | 91.8 | 80.3 | 90.8 | 100 | 0 |  | 86.7 | 90 | 84.6 | 83.3 | 0 |  | 86.1 | 92.1 |
| Trucks | 0 | 3 | 4 | 0 |  | 7 | 2 | 22 | 11 | 0 |  | 35 | 12 | 6 | 0 | 0 |  | 18 | 3 | 10 | 1 | 0 |  | 14 | 74 |
| \% Trucks | 0 | 1.4 | 7.8 | 0 |  | 2.6 | 13.3 | 7 | 11.5 | 0 |  | 8.2 | 19.7 | 9.2 | 0 | 0 |  | 13.3 | 10 | 15.4 | 16.7 | 0 |  | 13.9 | 7.9 |
| Peds |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - | 0 |
| \% Peds |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |

## Project \#19361 - City of Vaughan

## Intersection Count Report

| Intersection: | Kirby Rd \& Keele St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |
| Site Code: | 1936100002 |
| Count Categories: | Cars, Trucks, Pedestrians |
| Count Period: | 11:00-19:00 |
| Weather: | Clear |

# Traffic Count Map 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

Intersection:
Municipality:
Count Date:
Kirby Rd \& Keele St
Vaughan
Nov 02, 2019


## Traffic Count Summary

Intersection:<br>Municipality:<br>Count Date:<br>Kirby Rd \& Keele St<br>Vaughan<br>Nov 02, 2019

## Keele St - Traffic Summary

North Approach Totals
Includes Cars, Trucks Includes Cars, Trucks

| Hour | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11:00-12:00 | 29 | 314 | 37 | 0 | 380 | 0 | 30 | 306 | 51 | 0 | 387 | 1 |
| 12:00-13:00 | 28 | 292 | 36 | 0 | 356 | 0 | 47 | 324 | 86 | 0 | 457 | 0 |
| 13:00-14:00 | 27 | 312 | 30 | 0 | 369 | 0 | 39 | 336 | 75 | 0 | 450 | 0 |
| 14:00-15:00 | 20 | 259 | 46 | 0 | 325 | 1 | 37 | 347 | 96 | 0 | 480 | 0 |
| 15:00-16:00 | 29 | 229 | 32 | 0 | 290 | 1 | 33 | 323 | 71 | 0 | 427 | 1 |
| 16:00-17:00 | 18 | 238 | 30 | 0 | 286 | 1 | 50 | 277 | 62 | 0 | 389 | 0 |
| 17:00-18:00 | 17 | 203 | 27 | 0 | 247 | 0 | 24 | 250 | 54 | 0 | 328 | 0 |
| 18:00-19:00 | 30 | 199 | 13 | 0 | 242 | 0 | 37 | 218 | 62 | 0 | 317 | $\mathbf{2}$ |
| GRAND TOTAL | $\mathbf{1 9 8}$ | $\mathbf{2 0 4 6}$ | $\mathbf{2 5 1}$ | $\mathbf{0}$ | $\mathbf{2 4 9 5}$ | $\mathbf{3}$ | $\mathbf{2 4 9 7}$ | $\mathbf{2 3 8 1}$ | $\mathbf{5 5 7}$ | $\mathbf{0}$ | $\mathbf{3 2 3 5}$ | $\mathbf{4}$ |

## Traffic Count Summary

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES 5 PRODUCTS

Intersection:<br>Municipality:<br>Count Date:<br>Kirby Rd \& Keele St<br>Vaughan<br>Nov 02, 2019

## Kirby Rd - Traffic Summary

East Approach Totals
Includes Cars, Trucks

| Hour | Left | Thru | Right | U-Turn | Total |  | Peds |  | Left | Thru | Right | U-Turn | Total |
| :---: | :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | Peds

## Traffic Count Data

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Keele St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## North Approach - Keele St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ | ? | Total | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ | $?$ | Total |  |
| 11:00 | 6 | 65 | 6 | 0 | 77 | 0 | 15 | 2 | 0 | 17 | 0 |
| 11:15 | 4 | 58 | 10 | 0 | 72 | 0 | 9 | 3 | 0 | 12 | 0 |
| 11:30 | 9 | 67 | 6 | 0 | 82 | 1 | 15 | 2 | 0 | 18 | 0 |
| 11:45 | 6 | 77 | 7 | 0 | 90 | 3 | 8 | 1 | 0 | 12 | 0 |
| 12:00 | 7 | 56 | 10 | 0 | 73 | 0 | 10 | 3 | 0 | 13 | 0 |
| 12:15 | 9 | 72 | 6 | 0 | 87 | 1 | 7 | 1 | 0 | 9 | 0 |
| 12:30 | 4 | 61 | 4 | 0 | 69 | 1 | 13 | 1 | 0 | 15 | 0 |
| 12:45 | 3 | 63 | 7 | 0 | 73 | 3 | 10 | 4 | 0 | 17 | 0 |
| 13:00 | 4 | 63 | 3 | 0 | 70 | 0 | 7 | 2 | 0 | 9 | 0 |
| 13:15 | 10 | 64 | 6 | 0 | 80 | 0 | 18 | 0 | 0 | 18 | 0 |
| 13:30 | 5 | 66 | 10 | 0 | 81 | 0 | 8 | 1 | 0 | 9 | 0 |
| 13:45 | 7 | 72 | 8 | 0 | 87 | 1 | 14 | 0 | 0 | 15 | 0 |
| 14:00 | 3 | 69 | 9 | 0 | 81 | 0 | 9 | 4 | 0 | 13 | 0 |
| 14:15 | 6 | 60 | 7 | 0 | 73 | 0 | 4 | 6 | 0 | 10 | 0 |
| 14:30 | 6 | 52 | 6 | 0 | 64 | 0 | 6 | 2 | 0 | 8 | 0 |
| 14:45 | 4 | 51 | 10 | 0 | 65 | 1 | 8 | 2 | 0 | 11 | 1 |
| 15:00 | 6 | 55 | 9 | 0 | 70 | 0 | 3 | 1 | 0 | 4 | 1 |
| 15:15 | 3 | 55 | 5 | 0 | 63 | 1 | 6 | 2 | 0 | 9 | 0 |
| 15:30 | 7 | 59 | 4 | 0 | 70 | 1 | 5 | 3 | 0 | 9 | 0 |
| 15:45 | 10 | 40 | 5 | 0 | 55 | 1 | 6 | 3 | 0 | 10 | 0 |
| 16:00 | 5 | 41 | 6 | 0 | 52 | 1 | 6 | 1 | 0 | 8 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Keele St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |


| North Approach - Keele St |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Start Time | 4 | + | $\stackrel{\rightharpoonup}{1+}$ | $\bigcirc$ | Total | 4 | + | $\stackrel{ }{ }$ | 8 | Total | Total Peds |
| 16:15 | 2 | 54 | 8 | 0 | 64 | 1 | 6 | 0 | 0 | 7 | 0 |
| 16:30 | 5 | 60 | 5 | 0 | 70 | 2 | 6 | 3 | 0 | 11 | 1 |
| 16:45 | 2 | 54 | 7 | 0 | 63 | 0 | 11 | 0 | 0 | 11 | 0 |
| 17:00 | 5 | 47 | 6 | 0 | 58 | 0 | 2 | 2 | 0 | 4 | 0 |
| 17:15 | 6 | 51 | 7 | 0 | 64 | 2 | 8 | 0 | 0 | 10 | 0 |
| 17:30 | 1 | 44 | 6 | 0 | 51 | 1 | 3 | 0 | 0 | 4 | 0 |
| 17:45 | 2 | 42 | 4 | 0 | 48 | 0 | 6 | 2 | 0 | 8 | 0 |
| 18:00 | 5 | 51 | 5 | 0 | 61 | 3 | 6 | 1 | 0 | 10 | 0 |
| 18:15 | 10 | 48 | 3 | 0 | 61 | 2 | 7 | 0 | 0 | 9 | 0 |
| 18:30 | 3 | 36 | 2 | 0 | 41 | 1 | 4 | 1 | 0 | 6 | 0 |
| 18:45 | 5 | 43 | 1 | 0 | 49 | 1 | 4 | 0 | 0 | 5 | 0 |
| SUBTOTAL | 170 | 1796 | 198 | 0 | 2164 | 28 | 250 | 53 | 0 | 331 | 3 |
| GRAND TOTAL | 170 | 1796 | 198 | 0 | 2164 | 28 | 250 | 53 | 0 | 331 | 3 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Keele St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## South Approach - Keele St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 个 | $\stackrel{\rightharpoonup}{7}$ | ? | Total | - | 1 | $\stackrel{\rightharpoonup}{r}$ | $\because$ | Total |  |
| 11:00 | 4 | 59 | 7 | 0 | 70 | 1 | 12 | 2 | 0 | 15 | 1 |
| 11:15 | 6 | 65 | 7 | 0 | 78 | 1 | 11 | 0 | 0 | 12 | 0 |
| 11:30 | 9 | 69 | 21 | 0 | 99 | 2 | 10 | 0 | 0 | 12 | 0 |
| 11:45 | 6 | 67 | 12 | 0 | 85 | 1 | 13 | 2 | 0 | 16 | 0 |
| 12:00 | 9 | 68 | 14 | 0 | 91 | 1 | 10 | 2 | 0 | 13 | 0 |
| 12:15 | 11 | 72 | 22 | 0 | 105 | 3 | 11 | 6 | 0 | 20 | 0 |
| 12:30 | 6 | 68 | 18 | 0 | 92 | 3 | 15 | 5 | 0 | 23 | 0 |
| 12:45 | 11 | 66 | 16 | 0 | 93 | 3 | 14 | 3 | 0 | 20 | 0 |
| 13:00 | 10 | 77 | 25 | 0 | 112 | 3 | 8 | 2 | 0 | 13 | 0 |
| 13:15 | 8 | 70 | 13 | 0 | 91 | 1 | 12 | 1 | 0 | 14 | 0 |
| 13:30 | 5 | 66 | 13 | 0 | 84 | 1 | 19 | 1 | 0 | 21 | 0 |
| 13:45 | 9 | 74 | 18 | 0 | 101 | 2 | 10 | 2 | 0 | 14 | 0 |
| 14:00 | 8 | 66 | 23 | 0 | 97 | 1 | 14 | 0 | 0 | 15 | 0 |
| 14:15 | 6 | 74 | 21 | 0 | 101 | 3 | 13 | 3 | 0 | 19 | 0 |
| 14:30 | 8 | 70 | 24 | 0 | 102 | 2 | 13 | 1 | 0 | 16 | 0 |
| 14:45 | 7 | 88 | 22 | 0 | 117 | 2 | 9 | 2 | 0 | 13 | 0 |
| 15:00 | 5 | 87 | 11 | 0 | 103 | 2 | 8 | 2 | 0 | 12 | 1 |
| 15:15 | 10 | 76 | 18 | 0 | 104 | 2 | 10 | 0 | 0 | 12 | 0 |
| 15:30 | 9 | 70 | 16 | 0 | 95 | 2 | 10 | 1 | 0 | 13 | 0 |
| 15:45 | 3 | 54 | 18 | 0 | 75 | 0 | 8 | 5 | 0 | 13 | 0 |
| 16:00 | 7 | 58 | 10 | 0 | 75 | 1 | 9 | 2 | 0 | 12 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Keele St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## South Approach - Keele St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{1}$ | $\bigcirc$ | Total | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ | $?$ | Total |  |
| 16:15 | 13 | 61 | 17 | 0 | 91 | 0 | 11 | 0 | 0 | 11 | 0 |
| 16:30 | 8 | 59 | 18 | 0 | 85 | 1 | 11 | 1 | 0 | 13 | 0 |
| 16:45 | 20 | 64 | 13 | 0 | 97 | 0 | 4 | 1 | 0 | 5 | 0 |
| 17:00 | 4 | 61 | 14 | 0 | 79 | 2 | 8 | 2 | 0 | 12 | 0 |
| 17:15 | 2 | 62 | 8 | 0 | 72 | 2 | 2 | 0 | 0 | 4 | 0 |
| 17:30 | 6 | 46 | 16 | 0 | 68 | 0 | 3 | 0 | 0 | 3 | 0 |
| 17:45 | 7 | 61 | 13 | 0 | 81 | 1 | 7 | 1 | 0 | 9 | 0 |
| 18:00 | 8 | 50 | 13 | 0 | 71 | 1 | 1 | 1 | 0 | 3 | 0 |
| 18:15 | 10 | 52 | 15 | 0 | 77 | 1 | 3 | 0 | 0 | 4 | 1 |
| 18:30 | 7 | 57 | 17 | 0 | 81 | 0 | 7 | 1 | 0 | 8 | 1 |
| 18:45 | 10 | 44 | 14 | 0 | 68 | 0 | 4 | 1 | 0 | 5 | 0 |
| SUBTOTAL | 252 | 2081 | 507 | 0 | 2840 | 45 | 300 | 50 | 0 | 395 | 4 |
| GRAND TOTAL | 252 | 2081 | 507 | 0 | 2840 | 45 | 300 | 50 | 0 | 395 | 4 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Keele St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{\rightharpoonup}{1}$ | $\bigcirc$ | Total | 4 | 1 | $\stackrel{+}{1}$ | $\bigcirc$ | Total | Total Peds |
| 11:00 | 11 | 13 | 5 | 0 | 29 | 0 | 0 | 1 | 0 | 1 | 0 |
| 11:15 | 12 | 25 | 1 | 0 | 38 | 0 | 3 | 0 | 0 | 3 | 0 |
| 11:30 | 10 | 12 | 10 | 0 | 32 | 1 | 3 | 3 | 0 | 7 | 1 |
| 11:45 | 9 | 17 | 9 | 0 | 35 | 0 | 3 | 3 | 0 | 6 | 2 |
| 12:00 | 13 | 23 | 9 | 0 | 45 | 1 | 1 | 1 | 0 | 3 | 0 |
| 12:15 | 8 | 13 | 8 | 0 | 29 | 2 | 0 | 1 | 0 | 3 | 0 |
| 12:30 | 9 | 23 | 5 | 0 | 37 | 0 | 1 | 0 | 0 | 1 | 0 |
| 12:45 | 7 | 18 | 8 | 0 | 33 | 2 | 2 | 1 | 0 | 5 | 0 |
| 13:00 | 10 | 22 | 3 | 0 | 35 | 1 | 3 | 1 | 0 | 5 | 0 |
| 13:15 | 9 | 18 | 7 | 0 | 34 | 3 | 2 | 3 | 0 | 8 | 0 |
| 13:30 | 11 | 16 | 6 | 0 | 33 | 1 | 1 | 0 | 0 | 2 | 0 |
| 13:45 | 20 | 35 | 4 | 0 | 59 | 3 | 0 | 3 | 0 | 6 | 0 |
| 14:00 | 8 | 23 | 4 | 0 | 35 | 0 | 2 | 1 | 0 | 3 | 0 |
| 14:15 | 11 | 20 | 3 | 0 | 34 | 0 | 1 | 0 | 0 | 1 | 0 |
| 14:30 | 9 | 20 | 5 | 0 | 34 | 2 | 1 | 1 | 0 | 4 | 0 |
| 14:45 | 14 | 25 | 5 | 0 | 44 | 2 | 2 | 1 | 0 | 5 | 1 |
| 15:00 | 12 | 19 | 8 | 0 | 39 | 1 | 5 | 3 | 0 | 9 | 1 |
| 15:15 | 5 | 17 | 4 | 0 | 26 | 0 | 2 | 2 | 0 | 4 | 0 |
| 15:30 | 7 | 18 | 2 | 0 | 27 | 1 | 2 | 1 | 0 | 4 | 1 |
| 15:45 | 7 | 16 | 6 | 0 | 29 | 0 | 1 | 0 | 0 | 1 | 0 |
| 16:00 | 8 | 20 | 4 | 0 | 32 | 2 | 4 | 0 | 0 | 6 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Keele St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## East Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{+}{+}$ | $\bigcirc$ | Total | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ | $\bigcirc$ | Total | Total Peds |
| 16:15 | 9 | 21 | 3 | 0 | 33 | 0 | 2 | 0 | 0 | 2 | 0 |
| 16:30 | 10 | 12 | 5 | 0 | 27 | 1 | 2 | 1 | 0 | 4 | 1 |
| 16:45 | 10 | 19 | 9 | 0 | 38 | 1 | 3 | 0 | 0 | 4 | 0 |
| 17:00 | 7 | 23 | 5 | 0 | 35 | 0 | 1 | 0 | 0 | 1 | 0 |
| 17:15 | 9 | 19 | 6 | 0 | 34 | 2 | 1 | 1 | 0 | 4 | 0 |
| 17:30 | 11 | 17 | 6 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 4 | 19 | 5 | 0 | 28 | 0 | 1 | 0 | 0 | 1 | 0 |
| 18:00 | 12 | 14 | 4 | 0 | 30 | 1 | 0 | 0 | 0 | 1 | 0 |
| 18:15 | 6 | 19 | 8 | 0 | 33 | 1 | 1 | 2 | 0 | 4 | 0 |
| 18:30 | 7 | 14 | 8 | 0 | 29 | 0 | 1 | 0 | 0 | 1 | 0 |
| 18:45 | 7 | 12 | 1 | 0 | 20 | 0 | 2 | 0 | 0 | 2 | 0 |
| SUBTOTAL | 302 | 602 | 176 | 0 | 1080 | 28 | 53 | 30 | 0 | 111 | 7 |
| GRAND TOTAL | 302 | 602 | 176 | 0 | 1080 | 28 | 53 | 30 | 0 | 111 | 7 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Keele St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\xrightarrow{1+}$ | ? | Total | 4 | + | $\stackrel{\rightharpoonup}{1}$ | $\bigcirc$ | Total |  |
| 11:00 | 3 | 8 | 3 | 0 | 14 | 0 | 4 | 2 | 0 | 6 | 1 |
| 11:15 | 2 | 15 | 12 | 0 | 29 | 3 | 1 | 1 | 0 | 5 | 0 |
| 11:30 | 10 | 29 | 11 | 0 | 50 | 2 | 1 | 0 | 0 | 3 | 0 |
| 11:45 | 3 | 17 | 8 | 0 | 28 | 2 | 1 | 1 | 0 | 4 | 0 |
| 12:00 | 10 | 23 | 6 | 0 | 39 | 0 | 2 | 2 | 0 | 4 | 0 |
| 12:15 | 3 | 16 | 10 | 0 | 29 | 2 | 1 | 0 | 0 | 3 | 0 |
| 12:30 | 4 | 23 | 10 | 0 | 37 | 2 | 3 | 1 | 0 | 6 | 0 |
| 12:45 | 4 | 19 | 6 | 0 | 29 | 1 | 1 | 7 | 1 | 10 | 0 |
| 13:00 | 5 | 24 | 3 | 0 | 32 | 6 | 1 | 1 | 0 | 8 | 0 |
| 13:15 | 2 | 29 | 5 | 0 | 36 | 3 | 2 | 3 | 0 | 8 | 0 |
| 13:30 | 9 | 20 | 9 | 0 | 38 | 1 | 4 | 1 | 0 | 6 | 0 |
| 13:45 | 5 | 25 | 10 | 0 | 40 | 2 | 1 | 1 | 0 | 4 | 0 |
| 14:00 | 6 | 23 | 7 | 0 | 36 | 1 | 2 | 2 | 0 | 5 | 0 |
| 14:15 | 2 | 33 | 9 | 0 | 44 | 3 | 5 | 2 | 0 | 10 | 0 |
| 14:30 | 10 | 28 | 8 | 0 | 46 | 5 | 2 | 2 | 0 | 9 | 0 |
| 14:45 | 3 | 22 | 7 | 0 | 32 | 3 | 2 | 0 | 0 | 5 | 0 |
| 15:00 | 5 | 15 | 8 | 0 | 28 | 2 | 2 | 1 | 0 | 5 | 1 |
| 15:15 | 4 | 21 | 8 | 0 | 33 | 0 | 2 | 3 | 0 | 5 | 0 |
| 15:30 | 8 | 24 | 7 | 0 | 39 | 1 | 2 | 1 | 0 | 4 | 1 |
| 15:45 | 7 | 23 | 11 | 0 | 41 | 1 | 1 | 1 | 0 | 3 | 0 |
| 16:00 | 6 | 31 | 4 | 0 | 41 | 2 | 3 | 0 | 0 | 5 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Keele St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{+}{1+}$ | $?$ | Total | 4 | 1 | $\stackrel{+}{+}$ | $\bigcirc$ | Total | Total Peds |
| 16:15 | 11 | 24 | 8 | 0 | 43 | 3 | 1 | 0 | 0 | 4 | 0 |
| 16:30 | 8 | 23 | 4 | 0 | 35 | 2 | 2 | 0 | 0 | 4 | 0 |
| 16:45 | 6 | 26 | 6 | 0 | 38 | 3 | 1 | 1 | 0 | 5 | 2 |
| 17:00 | 10 | 29 | 11 | 0 | 50 | 2 | 4 | 0 | 0 | 6 | 2 |
| 17:15 | 8 | 29 | 9 | 0 | 46 | 2 | 2 | 2 | 0 | 6 | 0 |
| 17:30 | 7 | 25 | 2 | 0 | 34 | 0 | 2 | 1 | 0 | 3 | 0 |
| 17:45 | 3 | 27 | 11 | 0 | 41 | 0 | 2 | 0 | 0 | 2 | 2 |
| 18:00 | 4 | 16 | 15 | 0 | 35 | 1 | 2 | 1 | 0 | 4 | 0 |
| 18:15 | 6 | 30 | 11 | 0 | 47 | 1 | 1 | 0 | 0 | 2 | 2 |
| 18:30 | 5 | 18 | 7 | 0 | 30 | 0 | 2 | 3 | 0 | 5 | 0 |
| 18:45 | 7 | 24 | 9 | 0 | 40 | 3 | 3 | 0 | 0 | 6 | 0 |
| SUBTOTAL | 186 | 739 | 255 | 0 | 1180 | 59 | 65 | 40 | 1 | 165 | 11 |
| GRAND TOTAL | 186 | 739 | 255 | 0 | 1180 | 59 | 65 | 40 | 1 | 165 | 11 |

## Peak Hour Diagram



Ontario Traffic Inc.
TRAFFIC MONITORING \&ERVICES S PRODUCTS

Intersection:
Site ID:
Count Date:

Kirby Rd \& Keele St
1936100002
Nov 02, 2019

## Specified Period

From: 11:00:00
To: 14:00:00

One Hour Peak
From:
To:

13:00:00
14:00:00

Weather conditions:


Peds: 0
Kirby Rd

| 50 | Q | Totals |  |
| :---: | :---: | :---: | :---: |
| 0 | 0 | 0 | 2 |
| 12 | 21 | 33 | - |
| 8 | 98 | 106 | - |
| 6 | 27 | 33 | 7 |


| West Approach |  |  |
| :---: | :---: | :---: |
| Out | In | Total |
| (146 | 150 | 296 |
| [-2 26 | 16 | 42 |
| 172 | 166 | 338 |



Peds: 0

|  |  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | :---: |
| Totals | $\mathbf{3 9}$ | $\mathbf{3 3 6}$ | $\mathbf{7 5}$ | $\mathbf{0}$ |  |
| $\boldsymbol{n}$ | 32 | 287 | 69 | 0 |  |
| $0-2$ | 7 | 49 | 6 | 0 |  |

Keele St

East Approach

| Out | In | Total |
| ---: | ---: | ---: |
| 161 | 193 | 354 |

DO

| 21 | 15 | 36 |
| ---: | ---: | ---: |
| 182 | 208 | $\mathbf{3 9 0}$ |

Kirby Rd

|  | Totals | 日 |  |
| :---: | :---: | :---: | :---: |
| C | 0 | 0 | 0 |
| t | 27 | 20 | 7 |
| e | 97 | 91 | 6 |
| $F$ | 58 | 50 | 8 |

South Approach

|  | Out | In | Total |
| ---: | ---: | ---: | ---: |
|  | 388 | 342 | 730 |
| and | 62 | 61 | 123 |
| $\mathbf{4 5 0}$ | $\mathbf{4 0 3}$ | $\mathbf{8 5 3}$ |  |

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Keele St |
| :--- | :--- |
| Count Date: | Nov 02, 2019 |
| Period: | $11: 00-14: 00$ |


| Peak Hour Data (13:00-14:00) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | North Approach Keele St |  |  |  |  |  | South Approach Keele St |  |  |  |  |  | East Approach Kirby Rd |  |  |  |  |  | West Approach Kirby Rd |  |  |  |  |  | Total Vehicl es |
| Start Time |  |  | $\stackrel{\rightharpoonup}{r}$ |  | Peds | Total |  |  | $\stackrel{\rightharpoonup}{1}$ | $?$ | Peds | Total |  | $\uparrow$ | $\stackrel{\rightharpoonup}{1}$ | ? | Peds |  |  | - | $\stackrel{\rightharpoonup}{r}$ |  | Peds | Total |  |
| 13:00 | 4 | 70 | 5 | 0 | 0 | 79 | 13 | 85 | 27 | 0 | 0 | 125 | 11 | 25 | 4 | 0 | 0 | 40 | 11 | 25 | 4 | 0 | 0 | 40 | 284 |
| 13:15 | 10 | 82 | 6 | 0 | 0 | 98 | 9 | 82 | 14 | 0 | 0 | 105 | 12 | 20 | 10 | 0 | 0 | 42 | 5 | 31 | 8 | 0 | 0 | 44 | 289 |
| 13:30 | 5 | 74 | 11 | 0 | 0 | 90 | 6 | 85 | 14 | 0 | 0 | 105 | 12 | 17 | 6 | 0 | 0 | 35 | 10 | 24 | 10 | 0 | 0 | 44 | 274 |
| 13:45 | 8 | 86 | 8 | 0 | 0 | 102 | 11 | 84 | 20 | 0 | 0 | 115 | 23 | 35 | 7 | 0 | 0 | 65 | 7 | 26 | 11 | 0 | 0 | 44 | 326 |
| Grand Total | 27 | 312 | 30 | 0 | 0 | 369 | 39 | 336 | 75 | 0 | 0 | 450 | 58 | 97 | 27 | 0 | 0 | 182 | 33 | 106 | 33 | 0 | 0 | 172 | 1173 |
| $\begin{aligned} & \text { Approach } \\ & \% \end{aligned}$ | 7.3 | 84.6 | 8.1 | 0 |  | - | 8.7 | 74.7 | 16.7 | 0 |  | - | 31.9 | 53.3 | 14.8 | 0 |  | - | 19.2 | 61.6 | 19.2 | 0 |  | - |  |
| Totals \% | 2.3 | 26.6 | 2.6 | 0 |  | 31.5 | 3.3 | 28.6 | 6.4 | 0 |  | 38.4 | 4.9 | 8.3 | 2.3 | 0 |  | 15.5 | 2.8 | 9 | 2.8 | 0 |  | 14.7 |  |
| PHF | 0.68 | 0.91 | 0.68 | 0 |  | 0.9 | 0.75 | 0.99 | 0.69 | 0 |  | 0.9 | 0.63 | 0.69 | 0.68 | 0 |  | 0.7 | 0.75 | 0.85 | 0.75 | 0 |  | 0.98 | 0.9 |
| Cars | 26 | 265 | 27 | 0 |  | 318 | 32 | 287 | 69 | 0 |  | 388 | 50 | 91 | 20 | 0 |  | 161 | 21 | 98 | 27 | 0 |  | 146 | 1013 |
| \% Cars | 96.3 | 84.9 | 90 | 0 |  | 86.2 | 82.1 | 85.4 | 92 | 0 |  | 86.2 | 86.2 | 93.8 | 74.1 | 0 |  | 88.5 | 63.6 | 92.5 | 81.8 | 0 |  | 84.9 | 86.4 |
| Trucks | 1 | 47 | 3 | 0 |  | 51 | 7 | 49 | 6 | 0 |  | 62 | 8 | 6 | 7 | 0 |  | 21 | 12 | 8 | 6 | 0 |  | 26 | 160 |
| \% Trucks | 3.7 | 15.1 | 10 | 0 |  | 13.8 | 17.9 | 14.6 | 8 | 0 |  | 13.8 | 13.8 | 6.2 | 25.9 | 0 |  | 11.5 | 36.4 | 7.5 | 18.2 | 0 |  | 15.1 | 13.6 |
| Peds |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - | 0 |
| \% Peds |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |  |  |  | 0 | - |  |

## Peak Hour Diagram



Ontario Traffic Inc．
TRAFFIC MONITORING \＆ERVICES S PRODUCTS

Intersection：
Site ID：
Count Date：

Kirby Rd \＆Keele St
1936100002
Nov 02， 2019

## Specified Period

From：14：00：00

To：19：00：00

One Hour Peak
From：
To：

14：00：00
15：00：00

Weather conditions：
＊＊Signalized Intersection＊＊
Major Road：Keele St runs N／S


East Approach

| Out | In | Total |
| ---: | ---: | ---: |
| 147 | 215 | 362 |


| W0a | 13 | 18 | 31 |
| ---: | ---: | ---: | ---: |
| 160 | 233 | 393 |  |

Peds： 1
Kirby Rd

| 成 | 日 | Totals |  |
| ---: | ---: | ---: | :--- |
| 0 | 0 | $\mathbf{0}$ | $\mathbf{2}$ |
| 12 | 21 | $\mathbf{3 3}$ | $\mathbf{1}$ |
| 11 | 106 | $\mathbf{1 1 7}$ | $\Rightarrow$ |
| 6 | 31 | $\mathbf{3 7}$ | $\mathbf{7}$ |


| West Approach |  |  |
| :---: | ---: | ---: |
| Out | In | Total |
|  | 158 | 149 |
|  | 307 |  |
| 29 | 28 | 57 |
| $\mathbf{1 8 7}$ | $\mathbf{1 7 7}$ | $\mathbf{3 6 4}$ |



Peds： 0


Keele St
$\square$
$\stackrel{D}{0}$
$\square$

|  | Totals | 日 | 50. |
| :---: | :---: | :---: | :---: |
| C | 0 | 0 | 0 |
| E | 20 | 17 | 3 |
| \＆ | 94 | 88 | 6 |
| $F$ | 46 | 42 | 4 |

South Approach

|  | Out | In | Total |
| ---: | ---: | ---: | ---: |
|  | 417 | 305 | 722 |
| 0 | 63 | 37 | 100 |
| $\mathbf{4 8 0}$ | $\mathbf{3 4 2}$ | $\mathbf{8 2 2}$ |  |

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Keele St |
| :--- | :--- |
| Count Date: | Nov 02, 2019 |
| Period: | $14: 00-19: 00$ |


| Peak Hour Data (14:00-15:00) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | North Approach Keele St |  |  |  |  |  | South Approach Keele St |  |  |  |  |  | East Approach Kirby Rd |  |  |  |  |  | West Approach Kirby Rd |  |  |  |  |  | Total Vehicl es |
| Start Time |  |  |  |  |  |  |  |  | - | ? | Peds |  |  | 个 | $\stackrel{\rightharpoonup}{r}$ | ? | Peds |  |  | - |  |  | Peds | Total |  |
| 14:00 | 3 | 78 | 13 | 0 | 0 | 94 | 9 | 80 | 23 | 0 | 0 | 112 | 8 | 25 | 5 | 0 | 0 | 38 | 7 | 25 | 9 | 0 | 0 | 41 | 285 |
| 14:15 | 6 | 64 | 13 | 0 | 0 | 83 | 9 | 87 | 24 | 0 | 0 | 120 | 11 | 21 | 3 | 0 | 0 | 35 | 5 | 38 | 11 | 0 | 0 | 54 | 292 |
| 14:30 | 6 | 58 | 8 | 0 | 0 | 72 | 10 | 83 | 25 | 0 | 0 | 118 | 11 | 21 | 6 | 0 | 0 | 38 | 15 | 30 | 10 | 0 | 0 | 55 | 283 |
| 14:45 | 5 | 59 | 12 | 0 | 1 | 76 | 9 | 97 | 24 | 0 | 0 | 130 | 16 | 27 | 6 | 0 | 1 | 49 | 6 | 24 | 7 | 0 | 0 | 37 | 292 |
| Grand Total | 20 | 259 | 46 | 0 | 1 | 325 | 37 | 347 | 96 | 0 | 0 | 480 | 46 | 94 | 20 | 0 | 1 | 160 | 33 | 117 | 37 | 0 | 0 | 187 | 1152 |
| $\begin{gathered} \text { Approach } \\ \% \end{gathered}$ | 6.2 | 79.7 | 14.2 | 0 |  | - | 7.7 | 72.3 | 20 | 0 |  | - | 28.8 | 58.8 | 12.5 | 0 |  | - | 17.6 | 62.6 | 19.8 | 0 |  | - |  |
| Totals \% | 1.7 | 22.5 | 4 | 0 |  | 28.2 | 3.2 | 30.1 | 8.3 | 0 |  | 41.7 | 4 | 8.2 | 1.7 | 0 |  | 13.9 | 2.9 | 10.2 | 3.2 | 0 |  | 16.2 |  |
| PHF | 0.83 | 0.83 | 0.88 | 0 |  | 0.86 | 0.93 | 0.89 | 0.96 | 0 |  | 0.92 | 0.72 | 0.87 | 0.83 | 0 |  | 0.82 | 0.55 | 0.77 | 0.84 | 0 |  | 0.85 | 0.99 |
| Cars | 19 | 232 | 32 | 0 |  | 283 | 29 | 298 | 90 | 0 |  | 417 | 42 | 88 | 17 | 0 |  | 147 | 21 | 106 | 31 | 0 |  | 158 | 1005 |
| \% Cars | 95 | 89.6 | 69.6 | 0 |  | 87.1 | 78.4 | 85.9 | 93.8 | 0 |  | 86.9 | 91.3 | 93.6 | 85 | 0 |  | 91.9 | 63.6 | 90.6 | 83.8 | 0 |  | 84.5 | 87.2 |
| Trucks | 1 | 27 | 14 | 0 |  | 42 | 8 | 49 | 6 | 0 |  | 63 | 4 | 6 | 3 | 0 |  | 13 | 12 | 11 | 6 | 0 |  | 29 | 147 |
| \% Trucks | 5 | 10.4 | 30.4 | 0 |  | 12.9 | 21.6 | 14.1 | 6.3 | 0 |  | 13.1 | 8.7 | 6.4 | 15 | 0 |  | 8.1 | 36.4 | 9.4 | 16.2 | 0 |  | 15.5 | 12.8 |
| Peds |  |  |  |  | 1 | - |  |  |  |  | 0 | - |  |  |  |  | 1 | - |  |  |  |  | 0 | - | 2 |
| \% Peds |  |  |  |  | 50 | - |  |  |  |  | 0 | - |  |  |  |  | 50 | - |  |  |  |  | 0 | - |  |

# Project \#19361 - City of Vaughan 

## Intersection Count Report

| Intersection: | Keele St \& Peak Point Blvd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |
| Site Code: | 1936100003 |
| Count Categories: | Cars, Trucks, Pedestrians |
| Count Period: | 11:00-19:00 |
| Weather: | Clear |

## Traffic Count Map

Intersection:
Municipality:
Keele St \& Peak Point Blvd


# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

Intersection:
Municipality:
Count Date:

Keele St \& Peak Point Blvd
Vaughan
Nov 02, 2019

## Keele St - Traffic Summary

North Approach Totals
Includes Cars, Trucks

| Hour | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11:00-12:00 | 13 | 398 | 0 | 0 | 411 | 1 | 0 | 392 | 89 | 0 | 481 | 0 |
| 12:00-13:00 | 17 | 367 | 0 | 0 | 384 | 0 | 0 | 441 | 124 | 0 | 565 | 0 |
| 13:00-14:00 | 9 | 400 | 0 | 0 | 409 | 0 | 0 | 447 | 117 | 0 | 564 | 0 |
| 14:00-15:00 | 17 | 340 | 0 | 1 | 358 | 0 | 0 | 463 | 133 | 0 | 596 | 0 |
| 15:00-16:00 | 12 | 303 | 0 | 0 | 315 | 0 | 0 | 444 | 145 | 0 | 589 | 0 |
| 16:00-17:00 | 10 | 302 | 0 | 0 | 312 | 0 | 0 | 379 | 147 | 0 | 526 | 0 |
| 17:00-18:00 | 7 | 287 | 0 | 0 | 294 | 0 | 0 | 341 | 133 | 0 | 474 | 0 |
| 18:00-19:00 | 9 | 263 | 0 | 0 | 272 | 0 | 0 | 321 | 144 | 0 | 465 | 0 |
| GRAND TOTAL | $\mathbf{9 4}$ | $\mathbf{2 6 6 0}$ | $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{2 7 5 5}$ | $\mathbf{1}$ | $\mathbf{0}$ | $\mathbf{3 2 2 8}$ | 1032 | $\mathbf{0}$ | $\mathbf{4 2 6 0}$ | $\mathbf{0}$ |

# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection:
Municipality:
Count Date:

Keele St \& Peak Point Blva
Vaughan
Nov 02, 2019

## Peak Point Blvd - Traffic Summary

East Approach Totals
Includes Cars, Trucks

| Hour | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | ---: |
| 11:00-12:00 | 126 | 0 | 19 | 0 | 145 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00-13:00 | 120 | 0 | 23 | 0 | 143 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:00-14:00 | 99 | 0 | 20 | 0 | 119 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:00-15:00 | 90 | 0 | 20 | 0 | 110 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00-16:00 | 115 | 0 | 11 | 0 | 126 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00-17:00 | 117 | 0 | 15 | 0 | 132 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00-18:00 | 111 | 0 | 12 | 0 | 123 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00-19:00 | 91 | 0 | 23 | 0 | 114 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GRAND TOTAL | $\mathbf{8 6 9}$ | $\mathbf{0}$ | $\mathbf{1 4 3}$ | $\mathbf{0}$ | $\mathbf{1 0 1 2}$ | $\mathbf{3}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ |

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING *SERVICES \& PRODUCTS

| Intersection: | Keele St \& Peak Point Blvd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## North Approach - Keele St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ | $?$ | Total | 4 | 1 | $\stackrel{\rightharpoonup}{r}$ | ? | Total |  |
| 11:00 | 1 | 89 | 0 | 0 | 90 | 2 | 13 | 0 | 0 | 15 | 1 |
| 11:15 | 4 | 79 | 0 | 0 | 83 | 0 | 9 | 0 | 0 | 9 | 0 |
| 11:30 | 3 | 80 | 0 | 0 | 83 | 0 | 13 | 0 | 0 | 13 | 0 |
| 11:45 | 3 | 102 | 0 | 0 | 105 | 0 | 13 | 0 | 0 | 13 | 0 |
| 12:00 | 5 | 77 | 0 | 0 | 82 | 1 | 7 | 0 | 0 | 8 | 0 |
| 12:15 | 6 | 82 | 0 | 0 | 88 | 0 | 14 | 0 | 0 | 14 | 0 |
| 12:30 | 0 | 81 | 0 | 0 | 81 | 0 | 9 | 0 | 0 | 9 | 0 |
| 12:45 | 5 | 81 | 0 | 0 | 86 | 0 | 16 | 0 | 0 | 16 | 0 |
| 13:00 | 2 | 88 | 0 | 0 | 90 | 1 | 10 | 0 | 0 | 11 | 0 |
| 13:15 | 1 | 77 | 0 | 0 | 78 | 0 | 22 | 0 | 0 | 22 | 0 |
| 13:30 | 1 | 82 | 0 | 0 | 83 | 0 | 13 | 0 | 0 | 13 | 0 |
| 13:45 | 3 | 95 | 0 | 0 | 98 | 1 | 13 | 0 | 0 | 14 | 0 |
| 14:00 | 5 | 83 | 0 | 0 | 88 | 1 | 12 | 0 | 0 | 13 | 0 |
| 14:15 | 4 | 75 | 0 | 0 | 79 | 0 | 5 | 0 | 0 | 5 | 0 |
| 14:30 | 2 | 73 | 0 | 1 | 76 | 0 | 9 | 0 | 0 | 9 | 0 |
| 14:45 | 4 | 76 | 0 | 0 | 80 | 1 | 7 | 0 | 0 | 8 | 0 |
| 15:00 | 1 | 82 | 0 | 0 | 83 | 0 | 5 | 0 | 0 | 5 | 0 |
| 15:15 | 2 | 70 | 0 | 0 | 72 | 0 | 4 | 0 | 0 | 4 | 0 |
| 15:30 | 3 | 71 | 0 | 0 | 74 | 0 | 6 | 0 | 0 | 6 | 0 |
| 15:45 | 5 | 59 | 0 | 0 | 64 | 1 | 6 | 0 | 0 | 7 | 0 |
| 16:00 | 0 | 58 | 0 | 0 | 58 | 0 | 7 | 0 | 0 | 7 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Keele St \& Peak Point Blvd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## North Approach - Keele St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | - | 1 | 1 | $?$ | Total | 4 | 1 | 1 | $?$ | Total |  |
| 16:15 | 5 | 70 | 0 | 0 | 75 | 0 | 3 | 0 | 0 | 3 | 0 |
| 16:30 | 1 | 79 | 0 | 0 | 80 | 0 | 7 | 0 | 0 | 7 | 0 |
| 16:45 | 4 | 71 | 0 | 0 | 75 | 0 | 7 | 0 | 0 | 7 | 0 |
| 17:00 | 2 | 68 | 0 | 0 | 70 | 0 | 3 | 0 | 0 | 3 | 0 |
| 17:15 | 1 | 65 | 0 | 0 | 66 | 0 | 8 | 0 | 0 | 8 | 0 |
| 17:30 | 3 | 62 | 0 | 0 | 65 | 0 | 3 | 0 | 0 | 3 | 0 |
| 17:45 | 1 | 75 | 0 | 0 | 76 | 0 | 3 | 0 | 0 | 3 | 0 |
| 18:00 | 5 | 64 | 0 | 0 | 69 | 0 | 3 | 0 | 0 | 3 | 0 |
| 18:15 | 1 | 70 | 0 | 0 | 71 | 0 | 5 | 0 | 0 | 5 | 0 |
| 18:30 | 1 | 54 | 0 | 0 | 55 | 0 | 1 | 0 | 0 | 1 | 0 |
| 18:45 | 2 | 64 | 0 | 0 | 66 | 0 | 2 | 0 | 0 | 2 | 0 |
| SUBtotal | 86 | 2402 | 0 | 1 | 2489 | 8 | 258 | 0 | 0 | 266 | 1 |
| GRAND TOTAL | 86 | 2402 | 0 | 1 | 2489 | 8 | 258 | 0 | 0 | 266 | 1 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Keele St \& Peak Point Blvd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## South Approach - Keele St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{\square}$ | $?$ | Total | 4 | 1 | $\stackrel{\rightharpoonup}{r}$ | $?$ | Total | Total Peds |
| 11:00 | 0 | 68 | 23 | 0 | 91 | 0 | 15 | 1 | 0 | 16 | 0 |
| 11:15 | 0 | 83 | 22 | 0 | 105 | 0 | 11 | 0 | 0 | 11 | 0 |
| 11:30 | 0 | 97 | 19 | 0 | 116 | 0 | 12 | 1 | 0 | 13 | 0 |
| 11:45 | 0 | 90 | 22 | 0 | 112 | 0 | 16 | 1 | 0 | 17 | 0 |
| 12:00 | 0 | 88 | 34 | 0 | 122 | 0 | 11 | 4 | 0 | 15 | 0 |
| 12:15 | 0 | 103 | 27 | 0 | 130 | 0 | 17 | 0 | 0 | 17 | 0 |
| 12:30 | 0 | 85 | 30 | 0 | 115 | 0 | 23 | 3 | 0 | 26 | 0 |
| 12:45 | 0 | 97 | 24 | 0 | 121 | 0 | 17 | 2 | 0 | 19 | 0 |
| 13:00 | 0 | 107 | 26 | 0 | 133 | 0 | 12 | 1 | 0 | 13 | 0 |
| 13:15 | 0 | 95 | 30 | 0 | 125 | 0 | 16 | 1 | 0 | 17 | 0 |
| 13:30 | 0 | 90 | 27 | 0 | 117 | 0 | 18 | 1 | 0 | 19 | 0 |
| 13:45 | 0 | 94 | 29 | 0 | 123 | 0 | 15 | 2 | 0 | 17 | 0 |
| 14:00 | 0 | 94 | 30 | 0 | 124 | 0 | 12 | 1 | 0 | 13 | 0 |
| 14:15 | 0 | 101 | 36 | 0 | 137 | 0 | 23 | 2 | 0 | 25 | 0 |
| 14:30 | 0 | 99 | 33 | 0 | 132 | 0 | 14 | 4 | 0 | 18 | 0 |
| 14:45 | 0 | 108 | 27 | 0 | 135 | 0 | 12 | 0 | 0 | 12 | 0 |
| 15:00 | 0 | 110 | 35 | 0 | 145 | 0 | 13 | 3 | 0 | 16 | 0 |
| 15:15 | - | 114 | 39 | 0 | 153 | 0 | 6 | 2 | 0 | 8 | 0 |
| 15:30 | 0 | 96 | 28 | 0 | 124 | 0 | 15 | 3 | 0 | 18 | 0 |
| 15:45 | 0 | 76 | 34 | 0 | 110 | 0 | 14 | 1 | 0 | 15 | 0 |
| 16:00 | 0 | 74 | 39 | 0 | 113 | 0 | 10 | 3 | 0 | 13 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Keele St \& Peak Point Blvd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## South Approach - Keele St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{+}{+}$ | ? | Total | 4 | + | $\stackrel{+}{ }$ | ? | Total | Total Peds |
| 16:15 | 0 | 98 | 32 | 0 | 130 | 0 | 7 | 0 | 0 | 7 | 0 |
| 16:30 | 0 | 89 | 31 | 0 | 120 | 0 | 11 | 1 | 0 | 12 | 0 |
| 16:45 | 0 | 83 | 40 | 0 | 123 | 0 | 7 | 1 | 0 | 8 | 0 |
| 17:00 | 0 | 81 | 35 | 0 | 116 | 0 | 6 | 2 | 0 | 8 | 0 |
| 17:15 | 0 | 90 | 28 | 0 | 118 | 0 | 4 | 3 | 0 | 7 | 0 |
| 17:30 | 0 | 60 | 29 | 0 | 89 | 0 | 5 | 2 | 0 | 7 | 0 |
| 17:45 | 0 | 87 | 34 | , | 121 | 0 | 8 | 0 | 0 | 8 | 0 |
| 18:00 | 0 | 82 | 31 | 0 | 113 | 0 | 2 | 2 | 0 | 4 | 0 |
| 18:15 | 0 | 78 | 46 | 0 | 124 | 0 | 1 | 2 | 0 | 3 | 0 |
| 18:30 | 0 | 81 | 30 | 0 | 111 | 0 | 9 | 3 | 0 | 12 | 0 |
| 18:45 | 0 | 64 | 29 | 0 | 93 | 0 | 4 | 1 | 0 | 5 | 0 |
| SUBTOTAL | 0 | 2862 | 979 | 0 | 3841 | 0 | 366 | 53 | 0 | 419 | 0 |
| GRAND TOTAL | 0 | 2862 | 979 | 0 | 3841 | 0 | 366 | 53 | 0 | 419 | 0 |

## Traffic Count Data

Municipality:
Count Date:

Vaughan
Nov 02, 2019

## East Approach - Peak Point Blvd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{1+}$ | $?$ | Total | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ | $\bigcirc$ | Total | Total Peds |
| 11:00 | 37 | 0 | 8 | 0 | 45 | 2 | 0 | 1 | 0 | 3 | 0 |
| 11:15 | 29 | 0 | 3 | 0 | 32 | 1 | 0 | 1 | 0 | 2 | 1 |
| 11:30 | 28 | 0 | 4 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 28 | 0 | 2 | 0 | 30 | 1 | 0 | 0 | 0 | 1 | 0 |
| 12:00 | 31 | 0 | 4 | 0 | 35 | 2 | 0 | 1 | 0 | 3 | 0 |
| 12:15 | 19 | 0 | 4 | 0 | 23 | 2 | 0 | 0 | 0 | 2 | 0 |
| 12:30 | 30 | 0 | 9 | 0 | 39 | 3 | 0 | 1 | 0 | 4 | 0 |
| 12:45 | 30 | 0 | 4 | 0 | 34 | 3 | 0 | 0 | 0 | 3 | 0 |
| 13:00 | 20 | 0 | 5 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:15 | 19 | 0 | 6 | 0 | 25 | 2 | 0 | 0 | 0 | 2 | 0 |
| 13:30 | 23 | 0 | 4 | 0 | 27 | 2 | 0 | 0 | 0 | 2 | 0 |
| 13:45 | 31 | 0 | 5 | 0 | 36 | 2 | 0 | 0 | 0 | 2 | 0 |
| 14:00 | 17 | 0 | 4 | 0 | 21 | 1 | 0 | 0 | 0 | 1 | 2 |
| 14:15 | 12 | 0 | 4 | 0 | 16 | 0 | 0 | 1 | 0 | 1 | 0 |
| 14:30 | 36 | 0 | 5 | 0 | 41 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 24 | 0 | 5 | 0 | 29 | 0 | 0 | 1 | 0 | 1 | 0 |
| 15:00 | 28 | 0 | 3 | 0 | 31 | 3 | 0 | 0 | 0 | 3 | 0 |
| 15:15 | 27 | 0 | 0 | 0 | 27 | 0 | 0 | 1 | 0 | 1 | 0 |
| 15:30 | 29 | 0 | 5 | 0 | 34 | 4 | 0 | 0 | 0 | 4 | 0 |
| 15:45 | 24 | 0 | 2 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 29 | 0 | 5 | 0 | 34 | 1 | 0 | 1 | 0 | 2 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Keele St \& Peak Point Blvd |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## East Approach - Peak Point Blvd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{+}$ | $?$ | Total | 4 | - | $\stackrel{\rightharpoonup}{r}$ | $?$ | Total |  |
| 16:15 | 23 | 0 | 4 | 0 | 27 | 0 | 0 | 1 | 0 | 1 | 0 |
| 16:30 | 30 | 0 | 2 | 0 | 32 | 3 | 0 | 0 | 0 | 3 | 0 |
| 16:45 | 29 | 0 | 1 | 0 | 30 | 2 | 0 | 1 | 0 | 3 | 0 |
| 17:00 | 37 | 0 | 0 | 0 | 37 | 1 | 0 | 0 | 0 | 1 | 0 |
| 17:15 | 19 | 0 | 5 | 0 | 24 | 1 | 0 | 1 | 0 | 2 | 0 |
| 17:30 | 26 | 0 | 5 | 0 | 31 | 3 | 0 | 0 | 0 | 3 | 0 |
| 17:45 | 24 | 0 | 1 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 20 | 0 | 6 | 0 | 26 | 0 | 0 | 1 | 0 | 1 | 0 |
| 18:15 | 24 | 0 | 3 | 0 | 27 | 1 | 0 | 0 | 0 | 1 | 0 |
| 18:30 | 24 | 0 | 4 | 0 | 28 | 0 | 0 | 1 | 0 | 1 | 0 |
| 18:45 | 20 | 0 | 8 | 0 | 28 | 2 | 0 | 0 | 0 | 2 | 0 |
| SUBTOTAL | 827 | 0 | 130 | 0 | 957 | 42 | 0 | 13 | 0 | 55 | 3 |
| GRAND TOTAL | 827 | 0 | 130 | 0 | 957 | 42 | 0 | 13 | 0 | 55 | 3 |

## Peak Hour Diagram



Ontario Traffic Inc.
TRAFFIC MONITORING \&ERVICES S PRODUCTS

## Specified Period

From:
To: 14:00:00

One Hour Peak
From:
To:

12:15:00
13:15:00

Intersection:
Site ID:
Count Date:

Keele St \& Peak Point Blvd
1936100003
Nov 02, 2019

## Weather conditions:



## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Keele St \& Peak Point Blvd |
| :--- | :--- |
| Count Date: | Nov 02, 2019 |
| Period: | 11:00-14:00 |

## Peak Hour Data (12:15-13:15)



## Peak Hour Diagram



Ontario Traffic Inc.
TRAFFIC MONITORING \&ERVICES S PRODUCTS

## Specified Period

From: 14:00:00
To: 19:00:00

One Hour Peak
From:
14:30:00
To:
15:30:00

Intersection:
Site ID:
Count Date:

Keele St \& Peak Point Blvd
1936100003
Nov 02, 2019

## Weather conditions:

| North Approach |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Out | In | Total |
| 日 | 311 | 445 | 756 |
| Dod | 26 | 47 | 73 |
|  | 337 | 492 | 829 |



## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Keele St \& Peak Point Blvd |
| :--- | :--- |
| Count Date: | Nov 02, 2019 |
| Period: | 14:00-19:00 |


| Peak Hour Data (14:30-15:30) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | North Approach Keele St |  |  |  |  | South Approach Keele St |  |  |  |  | East Approach Peak Point Blvd |  |  |  |  | West Approach |  |  | Total Vehicl es |
| Start Time | 4 | - | 7 |  |  | - 1 | $\stackrel{\rightharpoonup}{5}$ | $\bigcirc$ | Peds | Total |  | $1 \quad \overrightarrow{ }$ | ? | Peds |  | - $\uparrow$ ? | Peds | Total |  |
| 14:30 | 2 | 82 | 1 | 0 | 85 | 113 | 37 | 0 | 0 | 150 | 36 | 5 | 0 | 0 | 41 |  | 0 |  | 276 |
| 14:45 | 5 | 83 | 0 | 0 | 88 | 120 | 27 | 0 | 0 | 147 | 24 | 6 | 0 | 0 | 30 |  | 0 |  | 265 |
| 15:00 | 1 | 87 | 0 | 0 | 88 | 123 | 38 | 0 | 0 | 161 | 31 | 3 | 0 | 0 | 34 |  | 0 |  | 283 |
| 15:15 | 2 | 74 | 0 | 0 | 76 | 120 | 41 | 0 | 0 | 161 | 27 | 1 | 0 | 0 | 28 |  | 0 |  | 265 |
| Grand Total | 10 | 326 | 1 | 0 | 337 | 476 | 143 | 0 | 0 | 619 | 118 | 15 | 0 | 0 | 133 |  | 0 | 0 | 1089 |
| Approach \% | 3 | 96.7 | 0.3 |  | - | 76.9 | 23.1 | 0 |  | - | 88.7 | 11.3 | 0 |  | - |  |  | - |  |
| Totals \% | 0.9 | 29.9 | 0.1 |  | 30.9 | 43.7 | 13.1 | 0 |  | 56.8 | 10.8 | 1.4 | 0 |  | 12.2 |  |  | 0 |  |
| PHF | 0.5 | 0.94 | 0.25 |  | 0.96 | 0.97 | 0.87 | 0 |  | 0.96 | 0.82 | 0.63 | 0 |  | 0.81 |  |  | 0 | 0.96 |
| Cars | 9 | 301 | 1 |  | 311 | 431 | 134 | 0 |  | 565 | 115 | 13 | 0 |  | 128 |  |  | 0 | 1004 |
| \% Cars | 90 | 92.3 | 100 |  | 92.3 | 90.5 | 93.7 | 0 |  | 91.3 | 97.5 | 86.7 | 0 |  | 96.2 |  |  | 0 | 92.2 |
| Trucks | 1 | 25 | 0 |  | 26 | 45 | 9 | 0 |  | 54 | 3 | 2 | 0 |  | 5 |  |  | 0 | 85 |
| \% Trucks | 10 | 7.7 | 0 |  | 7.7 | 9.5 | 6.3 | 0 |  | 8.7 | 2.5 | 13.3 | 0 |  | 3.8 |  |  | 0 | 7.8 |
| Peds |  |  |  | 0 | - |  |  |  | 0 | - |  |  |  | 0 | - |  | 0 | - | 0 |
| \% Peds |  |  |  | 0 | - |  |  |  | 0 | - |  |  |  | 0 | - |  | 0 | - |  |

Project \#19361 - City of Vaughan

## Intersection Count Report

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |
| Site Code: | 1936100004 |
| Count Categories: | Cars, Trucks, Pedestrians |
| Count Period: | 11:00-19:00 |
| Weather: | Clear |

# Traffic Count Map 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES A PRODUCTS

Intersection:
Municipality:
Count Date:
Kirby Rd \& Dufferin St
Vaughan
Nov 02, 2019


# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES 5 PRODUCTS

Intersection:<br>Municipality:<br>Count Date:<br>Kirby Rd \& Dufferin St<br>Vaughan<br>Nov 02, 2019

## Dufferin St - Traffic Summary

North Approach Totals
Includes Cars, Trucks Includes Cars, Trucks

| Hour | Includes Cars, Trucks |  |  |  |  |  | Includes Cars, Trucks |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| 11:00-12:00 | 0 | 275 | 25 | 0 | 300 | 0 | 139 | 253 | 0 | 0 | 392 | 0 |
| 12:00-13:00 | 0 | 268 | 37 | 0 | 305 | 0 | 158 | 286 | 0 | 0 | 444 | 0 |
| 13:00-14:00 | 0 | 280 | 36 | 1 | 317 | 0 | 197 | 350 | 0 | 0 | 547 | 0 |
| 14:00-15:00 | 0 | 246 | 37 | 0 | 283 | 0 | 165 | 314 | 0 | 0 | 479 | 0 |
| 15:00-16:00 | 0 | 253 | 22 | 0 | 275 | 0 | 155 | 328 | 0 | 0 | 483 | 0 |
| 16:00-17:00 | 0 | 225 | 38 | 0 | 263 | 0 | 156 | 302 | 0 | 0 | 458 | 0 |
| 17:00-18:00 | 0 | 221 | 36 | 0 | 257 | 0 | 144 | 304 | 0 | 0 | 448 | 0 |
| 18:00-19:00 | 0 | 216 | 24 | 0 | 240 | 0 | 141 | 299 | 0 | 0 | 440 | 0 |
| GRAND TOTAL | 0 | 1984 | 255 | 1 | 2240 | 0 | 1255 | 2436 | 0 | 0 | 3691 | 0 |

# Traffic Count Summary 

Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES S PRODUCTS

Intersection:<br>Municipality:<br>Count Date:<br>Kirby Rd \& Dufferin St<br>Vaughan<br>Nov 02, 2019

## Kirby Rd - Traffic Summary

East Approach Totals

| Hour | Includes Cars, Trucks |  |  |  |  |  | Includes Cars, Trucks |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| 11:00-12:00 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 0 | 165 | 0 | 197 | 0 |
| 12:00-13:00 | 0 | 0 | 0 | 0 | 0 | 0 | 47 | 0 | 197 | 0 | 244 | 0 |
| 13:00-14:00 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 0 | 165 | 0 | 207 | 0 |
| 14:00-15:00 | 0 | 0 | 0 | 0 | 0 | 0 | 49 | 0 | 191 | 0 | 240 | 0 |
| 15:00-16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 0 | 154 | 0 | 217 | 0 |
| 16:00-17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 0 | 171 | 0 | 219 | 0 |
| 17:00-18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 49 | 0 | 173 | 0 | 222 | 0 |
| 18:00-19:00 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 0 | 165 | 0 | 213 | 0 |
| GRAND TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 378 | 0 | 1381 | 0 | 1759 | 0 |

## Traffic Count Data

## Ontario Traffic Inc.

TRAFFIC MONITORING \&ERVICES A PRODUCTS

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## North Approach - Dufferin St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ | $?$ | Total | 4 | 1 | $\rightarrow$ | $?$ | Total |  |
| 11:00 | 0 | 53 | 6 | 0 | 59 | 0 | 5 | 0 | 0 | 5 | 0 |
| 11:15 | 0 | 68 | 6 | 0 | 74 | 0 | 7 | 0 | 0 | 7 | 0 |
| 11:30 | 0 | 67 | 4 | 0 | 71 | 0 | 6 | 2 | 0 | 8 | 0 |
| 11:45 | 0 | 64 | 5 | 0 | 69 | 0 | 5 | 2 | 0 | 7 | 0 |
| 12:00 | 0 | 62 | 7 | 0 | 69 | 0 | 6 | 2 | 0 | 8 | 0 |
| 12:15 | 0 | 70 | 5 | 0 | 75 | 0 | 3 | 0 | 0 | 3 | 0 |
| 12:30 | 0 | 69 | 11 | 0 | 80 | 0 | 5 | 0 | 0 | 5 | 0 |
| 12:45 | 0 | 51 | 11 | 0 | 62 | 0 | 2 | 1 | 0 | 3 | 0 |
| 13:00 | 0 | 57 | 11 | 0 | 68 | 0 | 2 | 2 | 0 | 4 | 0 |
| 13:15 | 0 | 70 | 7 | 1 | 78 | 0 | 5 | 1 | 0 | 6 | 0 |
| 13:30 | 0 | 75 | 8 | 0 | 83 | 0 | 6 | 0 | 0 | 6 | 0 |
| 13:45 | 0 | 59 | 7 | 0 | 66 | 0 | 6 | 0 | 0 | 6 | 0 |
| 14:00 | 0 | 58 | 7 | 0 | 65 | 0 | 8 | 2 | 0 | 10 | 0 |
| 14:15 | 0 | 42 | 11 | 0 | 53 | 0 | 3 | 1 | 0 | 4 | 0 |
| 14:30 | 0 | 68 | 4 | 0 | 72 | 0 | 5 | 2 | 0 | 7 | 0 |
| 14:45 | 0 | 60 | 9 | 0 | 69 | 0 | 2 | 1 | 0 | 3 | 0 |
| 15:00 | 0 | 44 | 3 | 0 | 47 | 0 | 3 | 1 | 0 | 4 | 0 |
| 15:15 | 0 | 77 | 5 | 0 | 82 | 0 | 5 | 2 | 0 | 7 | 0 |
| 15:30 | 0 | 70 | 6 | 0 | 76 | 0 | 2 | 0 | 0 | 2 | 0 |
| 15:45 | 0 | 47 | 5 | 0 | 52 | 0 | 5 | 0 | 0 | 5 | 0 |
| 16:00 | 0 | 52 | 12 | 0 | 64 | 0 | 2 | 1 | 0 | 3 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## North Approach - Dufferin St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{+}{+}$ | $\bigcirc$ | Total | 4 | 1 | $\xrightarrow{+}$ | $\bigcirc$ | Total |  |
| 16:15 | 0 | 45 | 6 | 0 | 51 | 0 | 5 | 0 | 0 | 5 | 0 |
| 16:30 | 0 | 64 | 7 | 0 | 71 | 0 | 4 | 0 | 0 | 4 | 0 |
| 16:45 | 0 | 50 | 10 | 0 | 60 | 0 | 3 | 2 | 0 | 5 | 0 |
| 17:00 | 0 | 49 | 13 | 0 | 62 | 0 | 3 | 0 | 0 | 3 | 0 |
| 17:15 | 0 | 49 | 6 | 0 | 55 | 0 | 4 | 1 | 0 | 5 | 0 |
| 17:30 | 0 | 55 | 10 | 0 | 65 | 0 | 3 | 0 | 0 | 3 | 0 |
| 17:45 | 0 | 56 | 6 | 0 | 62 | 0 | 2 | 0 | 0 | 2 | 0 |
| 18:00 | 0 | 48 | 7 | 0 | 55 | 0 | 3 | 0 | 0 | 3 | 0 |
| 18:15 | 0 | 68 | 5 | 0 | 73 | 0 | 2 | 0 | 0 | 2 | 0 |
| 18:30 | 0 | 47 | 3 | 0 | 50 | 0 | 1 | 1 | 0 | 2 | 0 |
| 18:45 | 0 | 47 | 8 | 0 | 55 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 0 | 1861 | 231 | 1 | 2093 | 0 | 123 | 24 | 0 | 147 | 0 |
| GRAND TOTAL | 0 | 1861 | 231 | 1 | 2093 | 0 | 123 | 24 | 0 | 147 | 0 |

## Traffic Count Data

Ontario Traffic Inc.
TRAFFIC MONITORING *SERVICES E PRODUCTS

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## South Approach - Dufferin St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | 1 | $?$ | Total | - | 1 | 1 | $\bigcirc$ | Total |  |
| 11:00 | 29 | 55 | 0 | 0 | 84 | 1 | 4 | 0 | 0 | 5 | 0 |
| 11:15 | 33 | 54 | 0 | 0 | 87 | 4 | 12 | 0 | 0 | 16 | 0 |
| 11:30 | 22 | 63 | 0 | 0 | 85 | 7 | 3 | 0 | 0 | 10 | 0 |
| 11:45 | 37 | 55 | 0 | 0 | 92 | 6 | 7 | 0 | 0 | 13 | 0 |
| 12:00 | 46 | 56 | 0 | 0 | 102 | 3 | 4 | 0 | 0 | 7 | 0 |
| 12:15 | 27 | 59 | 0 | 0 | 86 | 3 | 3 | 0 | 0 | 6 | 0 |
| 12:30 | 37 | 80 | 0 | 0 | 117 | 1 | 9 | 0 | 0 | 10 | 0 |
| 12:45 | 35 | 61 | 0 | 0 | 96 | 6 | 14 | 0 | 0 | 20 | 0 |
| 13:00 | 42 | 76 | 0 | 0 | 118 | 7 | 8 | 0 | 0 | 15 | 0 |
| 13:15 | 37 | 85 | 0 | 0 | 122 | 5 | 8 | 0 | 0 | 13 | 0 |
| 13:30 | 43 | 70 | 0 | 0 | 113 | 6 | 10 | 0 | 0 | 16 | 0 |
| 13:45 | 56 | 90 | 0 | 0 | 146 | 1 | 3 | 0 | 0 | 4 | 0 |
| 14:00 | 39 | 68 | 0 | 0 | 107 | 2 | 10 | 0 | 0 | 12 | 0 |
| 14:15 | 33 | 69 | 0 | 0 | 102 | 0 | 2 | 0 | 0 | 2 | 0 |
| 14:30 | 34 | 78 | 0 | 0 | 112 | 2 | 5 | 0 | 0 | 7 | 0 |
| 14:45 | 49 | 79 | 0 | 0 | 128 | 6 | 3 | 0 | 0 | 9 | 0 |
| 15:00 | 43 | 80 | 0 | 0 | 123 | 10 | 10 | 0 | 0 | 20 | 0 |
| 15:15 | 30 | 74 | 0 | 0 | 104 | 3 | 8 | 0 | 0 | 11 | 0 |
| 15:30 | 24 | 65 | 0 | 0 | 89 | 4 | 8 | 0 | 0 | 12 | 0 |
| 15:45 | 40 | 78 | 0 | 0 | 118 | 1 | 5 | 0 | 0 | 6 | 0 |
| 16:00 | 34 | 61 | 0 | 0 | 95 | 5 | 2 | 0 | 0 | 7 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## South Approach - Dufferin St

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{+}{+}$ | $\bigcirc$ | Total | 4 | 1 | $\stackrel{+}{+}$ | $\bigcirc$ | Total |  |
| 16:15 | 36 | 88 | 0 | 0 | 124 | 4 | 6 | 0 | 0 | 10 | 0 |
| 16:30 | 39 | 61 | 0 | 0 | 100 | 4 | 4 | 0 | 0 | 8 | 0 |
| 16:45 | 31 | 71 | 0 | 0 | 102 | 3 | 9 | 0 | 0 | 12 | 0 |
| 17:00 | 33 | 76 | 0 | 0 | 109 | 1 | 6 | 0 | 0 | 7 | 0 |
| 17:15 | 43 | 74 | 0 | 0 | 117 | 5 | 3 | 0 | 0 | 8 | 0 |
| 17:30 | 35 | 79 | 0 | 0 | 114 | 0 | 7 | 0 | 0 | 7 | 0 |
| 17:45 | 25 | 57 | 0 | 0 | 82 | 2 | 2 | 0 | 0 | 4 | 0 |
| 18:00 | 40 | 76 | 0 | 0 | 116 | 3 | 5 | 0 | 0 | 8 | 0 |
| 18:15 | 34 | 78 | 0 | 0 | 112 | 3 | 2 | 0 | 0 | 5 | 0 |
| 18:30 | 29 | 70 | 0 | 0 | 99 | 0 | 2 | 0 | 0 | 2 | 0 |
| 18:45 | 29 | 65 | 0 | 0 | 94 | 3 | 1 | 0 | 0 | 4 | 0 |
| SUBTOTAL | 1144 | 2251 | 0 | 0 | 3395 | 111 | 185 | 0 | 0 | 296 | 0 |
| GRAND TOTAL | 1144 | 2251 | 0 | 0 | 3395 | 111 | 185 | 0 | 0 | 296 | 0 |

## Traffic Count Data

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ | ? | Total | 4 | 1 | $\stackrel{\rightharpoonup}{1}$ | ค | Total |  |
| 11:00 | 9 | 0 | 32 | 0 | 41 | 1 | 0 | 5 | 0 | 6 | 0 |
| 11:15 | 8 | 0 | 32 | 0 | 40 | 2 | 0 | 2 | 0 | 4 | 0 |
| 11:30 | 10 | 0 | 57 | 0 | 67 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 1 | 0 | 33 | 0 | 34 | 1 | 0 | 4 | 0 | 5 | 0 |
| 12:00 | 13 | 0 | 35 | 0 | 48 | 1 | 0 | 4 | 0 | 5 | 0 |
| 12:15 | 9 | 0 | 57 | 0 | 66 | 1 | 0 | 5 | 0 | 6 | 0 |
| 12:30 | 8 | 0 | 44 | 0 | 52 | 3 | 0 | 6 | 0 | 9 | 0 |
| 12:45 | 10 | 0 | 39 | 0 | 49 | 2 | 0 | 7 | 0 | 9 | 0 |
| 13:00 | 14 | 0 | 45 | 0 | 59 | 2 | 0 | 2 | 0 | 4 | 0 |
| 13:15 | 7 | 0 | 46 | 0 | 53 | 0 | 0 | 3 | 0 | 3 | 0 |
| 13:30 | 8 | 0 | 34 | 0 | 42 | 2 | 0 | 1 | 0 | 3 | 0 |
| 13:45 | 7 | 0 | 33 | 0 | 40 | 2 | 0 | 1 | 0 | 3 | 0 |
| 14:00 | 6 | 0 | 39 | 0 | 45 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 12 | 0 | 55 | 0 | 67 | 3 | 0 | 6 | 0 | 9 | 0 |
| 14:30 | 18 | 0 | 46 | 0 | 64 | 1 | 0 | 4 | 0 | 5 | 0 |
| 14:45 | 9 | 0 | 35 | 0 | 44 | 0 | 0 | 6 | 0 | 6 | 0 |
| 15:00 | 14 | 0 | 29 | 0 | 43 | 1 | 0 | 3 | 0 | 4 | 0 |
| 15:15 | 18 | 0 | 36 | 0 | 54 | 2 | 0 | 2 | 0 | 4 | 0 |
| 15:30 | 17 | 0 | 35 | 0 | 52 | 1 | 0 | 1 | 0 | 2 | 0 |
| 15:45 | 7 | 0 | 43 | 0 | 50 | 3 | 0 | 5 | 0 | 8 | 0 |
| 16:00 | 9 | 0 | 31 | 0 | 40 | 2 | 0 | 4 | 0 | 6 | 0 |

## Traffic Count Data

Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Municipality: | Vaughan |
| Count Date: | Nov 02, 2019 |

## West Approach - Kirby Rd

| Start Time | Cars |  |  |  |  | Trucks |  |  |  |  | Total Peds |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 4 | + | $\stackrel{+}{ }$ | ? | Total | 4 | 1 | $1+$ | \% | Total |  |
| 16:15 | 10 | 0 | 37 | 0 | 47 | 2 | 0 | 1 | 0 | 3 | 0 |
| 16:30 | 7 | 0 | 45 | 0 | 52 | 1 | 0 | 4 | 0 | 5 | 0 |
| 16:45 | 14 | 0 | 48 | 0 | 62 | 3 | 0 | 1 | 0 | 4 | 0 |
| 17:00 | 12 | 0 | 33 | 0 | 45 | 0 | 0 | 3 | 0 | 3 | 0 |
| 17:15 | 10 | 0 | 41 | 0 | 51 | 8 | 0 | 1 | 0 | 9 | 0 |
| 17:30 | 8 | 0 | 47 | 0 | 55 | 2 | 0 | 1 | 0 | 3 | 0 |
| 17:45 | 9 | 0 | 45 | 0 | 54 | 0 | 0 | 2 | 0 | 2 | 0 |
| 18:00 | 14 | 0 | 36 | 0 | 50 | 0 | 0 | 6 | 0 | 6 | 0 |
| 18:15 | 9 | 0 | 43 | 0 | 52 | 0 | 0 | 1 | 0 | 1 | 0 |
| 18:30 | 9 | 0 | 33 | 0 | 42 | 3 | 0 | 3 | 0 | 6 | 0 |
| 18:45 | 13 | 0 | 41 | 0 | 54 | 0 | 0 | 2 | 0 | 2 | 0 |
| SUBTOTAL | 329 | 0 | 1285 | 0 | 1614 | 49 | 0 | 96 | 0 | 145 | 0 |
| GRAND TOTAL | 329 | 0 | 1285 | 0 | 1614 | 49 | 0 | 96 | 0 | 145 | 0 |

## Peak Hour Diagram

Intersection：
Site ID：
Count Date：

Kirby Rd \＆Dufferin St
1936100004
Nov 02， 2019

## Specified Period

| From： | $11: 00: 00$ | From： | $13: 00: 00$ |
| :--- | :--- | :--- | :--- |
| To： | $14: 00: 00$ | To： | $14: 00: 00$ |

Dufferin St

| an | 3 | 19 | 0 |
| ---: | ---: | ---: | ---: |
| 目 | 33 | 261 | 1 |
| Totals | $\mathbf{3 6}$ | $\mathbf{2 8 0}$ | $\mathbf{1}$ |
|  |  | $\boldsymbol{1}$ | $\mathbf{1}$ |

Peds： 0


0 ：Spəd

Peds： 0

|  | West Approach |  |  |
| :---: | :---: | :---: | :---: |
|  | Out | In | Total |
| 日 | 194 | 211 | 405 |
| 50 | 13 | 22 | 35 |
|  | 207 | 233 | 440 |

Kirby Rd

| 50 | 日 | Totals |
| :---: | :---: | :---: |
| 0 | 0 | 0 |
| 6 | 36 | 42 |
| 7 | 158 | 165 |

－Cars
Tod－Trucks

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Count Date: | Nov 02, 2019 |
| Period: | 11:00-14:00 |



## Peak Hour Diagram

Intersection:
Site ID:
Count Date:

Kirby Rd \& Dufferin St
1936100004
Nov 02, 2019

## Specified Period

| From: | 14:00:00 | From: | $14: 30: 00$ |
| :--- | :--- | :--- | :--- |
| To: | $19: 00: 00$ | To: | $15: 30: 00$ |

** Signalized Intersection ** Major Road: Dufferin St runs N/S


[^2]O-a - Trucks

## Peak Hour Summary

## Ontario Traffic Inc.

| Intersection: | Kirby Rd \& Dufferin St |
| :--- | :--- |
| Count Date: | Nov 02, 2019 |
| Period: | $14: 00-19: 00$ |







缡 0000


Timing Pattern Summary Report - Intersection

| Mode | Cycle Splits (sec) |
| :---: | :---: |
| TBC | $14000100004000100004 C$ |
| Free | 00000000000000000 |
| TBC | 1400090005000900050 |

Intersection Name :
Pattern Name
AM Peak
Free Plan
PM Peak

Regional Municipality of York Centralized Traffic Control System Controller Scheduler Summary - Intersection

Intersection Name : Dufferin st. - Kirby Rd.
Weekly Plan : Dufferin at Kirby

| Time of Day | Timing Pattern | MON | TUE | WED | THU | FRI | SAT | SUN |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $07: 00$ | AM Peak | X | X | X | X | X | - | - |
| $10: 00$ | Free Plan | X | X | X | X | X | - | - |
| $16: 00$ | PM Peak | X | X | X | X | X | - | - |
| $20: 00$ | Free Plan | X | X | X | X | X | - | - |


| Annual Calendar:Dufferin at Kirby <br> Default Weekly Schedule : <br> Date$\quad$Dufferin at Kirby |
| :--- |



| 2 | 1=Sequential, 2= Dual Ring, 3-7= Spec, 8=Lead/Lag |
| :---: | ---: |


Codes: 1 = No Reversal, 2 = Always Reverse, 3 = Rev. by CSO or Clock

| LEAD/LAG BARRIERS (MM-2-2-3-2-PGDN-PGDN...only if lead/lag |
| :--- |
| LEAD/LAG BARRIERS ARE: |

On = Barriers after each ring 1 and 2 phase pair in a vertical column
SPECIAL INCOMPATIBILITIES (MM-2-2-3-3)

| PHASE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| INCOMPAT PH 1-8 |  |  |  |  |  |  |  |  |
| INCOMPAT PH 1-8 |  |  |  |  |  |  |  |  |

INITILAIZE / FLASH (MM-2-2-4)

|  | INITILIZE | ENTER FL | EXIT FL |
| :---: | :---: | :---: | :---: |
| RING 1 PHASE | 2 | 2 | 2 |
| RING 2 PHASE | 6 | 6 | 6 |
| INTERVAL | 1 | 1 | 1 |

NOTE: Enter flash interval is permanently set to 1 (RED)
POWER-UP RESTART TIMINGS (MM-2-2-4-PGDN)

| MINIMUM FLASH |  | $(0-9.9$ or 127 SECONDS) |
| :---: | :---: | :---: |
| 1ST ALL RED AFTER FLASH | $\mathbf{5 . 0}$ | $(0-9.9$ or 127 SECONDS) |

Blanks $=0, \mathrm{OFF}$, or controller default values
Page 1


> Regional Municipality of York
> Centralized Traffic Control System Controller Scheduler Summary - Intersection

Intersection Name : Keele St. - Kirby S/R
Weekly Plan : Keele St. at Kirby

| Time of Day | Timing Pattern | MON | TUE | WED | THU | FRI | SAT | SUN |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $06: 30$ | AM/PM Peak | X | X | X | X | X | - | - |
| $09: 30$ | Free Plan | X | X | X | X | X | - | - |
| $16: 00$ | AM/PM Peak | X | X | X | X | X | - | - |
| $19: 00$ | Free Plan | X | X | X | X | X | - | - |

Annual Calendar:
Keele St. at Kirby
Default Weekly Schedule :
Keele St. at Kirby
Date
Schedule ( If blank, use the default weekly schedule)

$$
\begin{aligned}
& \text { Ped. Recalls } \\
& \text { NNNN } \\
& \text { Spec. O/P } \\
& \text { NNNN } \\
& * * * * * * * \\
& \text { Pagion } \\
& \text { Pase } 1 \text { of } 1
\end{aligned}
$$



Installation Date:
March 22, 2005

Program Date: $\quad$ April 28, 2015
Address $\qquad$

Programmed by:
T. Hanrahan

INTERSECTION NAME: Keele St. (YR 6) @ Kirby Rd. Phasing:

1. Not Used
2. Not Used
3. Southbound
4. Northbound
5. Not Used
6. Not Used
7. Westbound

UTILITIES ACCESS

CODE $=9999$
CODES: Four Digits (0000-9999)
PHASE DATA - VEHICLE TIMINGS

|  | PHASE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Basic <br> Times | Minimum Green | 0 | 30 | 0 | 10 | 0 | 30 | 0 | 10 |
|  | Passage | 0 | 0 | 0 | 3.0 | 0 | 0 | 0 | 3.0 |
|  | Maximum No. 1 | 0 | 30 | 0 | 19 | 0 | 30 | 0 | 19 |
|  | Maximum No. 2 | 0 | 30 | 0 | 19 | 0 | 30 | 0 | 19 |
|  | Yellow Change | 0 | 5.0 | 0 | 4.5 | 0 | 5.0 | 0 | 4.5 |
|  | Red Clearance | 0 | 2.5 | 0 | 2.5 | 0 | 2.5 | 0 | 2.5 |


| Density Times | Seconds/Actuation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Maximum Initial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Time Before Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Cars Before Reduction | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Time To Reduce | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Minimum Gap | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

PHASE DATA - PEDESTRIAN \& VEHICLE CONTROL

|  | PHASE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pedestrian | Walk | 0 | $\mathbf{7}$ | 0 | $\mathbf{7}$ | 0 | $\mathbf{7}$ | 0 | $\mathbf{7}$ |
|  | Times | Pedestrian Clearance | 0 | $\mathbf{1 8}$ | 0 | $\mathbf{2 1}$ | 0 | $\mathbf{1 8}$ | 0 |


| Pedestrian Control | Flashing Walk | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Extended Ped Clear | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Actuated Rest In Walk | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |


| Vehicle | Non Lock Memory | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Dual Entry | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
|  | Last Car Passage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Conditional Service | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | No Simultaneous Gap | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Pedestrian \& Vehicle Control Entry: "1" = Yes \& "0" = No


Regional Municipality of York Centralized Traffic Control System Controller Scheduler Summary - Intersection

Intersection Name : Keele St. - Peak Point Blvd.

| Weekly Plan : | Keele At Peak Point |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time of Day | Timing Pattern | MON | TUE | WED | THU | FRI | SAT |
| $07: 00$ | AM Peak | X | X | X | X | X | - |
| $09: 00$ | Free Plan | X | X | X | X | X | - |
| $16: 00$ | AM Peak | X | X | X | X | X | - |
| $19: 00$ | Free Plan | X | X | X | X | X | - |

Annual Calendar: Keele -Peak Point

Default Weekly Schedule :
Keele At Peak Point
Date

INTERSECTION NAME: Keele St. (YR 6) and Peak Point Boulevard PROGRAMMED BY:

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MEMORY | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| EXT RECALL | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| MAX RECALL | OFF | ON | OFF | OFF | OFF | ON | OFF | OFF |
| PED RECALL | OFF | OFF | OFF | OFF | OFF | ON | OFF | OFF |
| CNA I | OFF | ON | OFF | OFF | OFF | ON | OFF | OFF |
| CNA II | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| FL WALK | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| SOFT RECALL | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| WALK REST | OFF | OFF | OFF | OFF | OFF | ON | OFF | OFF |
| COND PED | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| FWTPCL | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
|  |  |  |  |  |  |  |  |  |
| $1-$ Not Used <br> $2-$ Southbound <br> $3-$ Not Used <br> $4-$ Peds Only |  |  |  | $\begin{aligned} & 5- \\ & 6- \\ & 7- \\ & 8- \end{aligned}$ | Not Used |  |  |  |
|  |  |  |  |  | Northbound |  |  |  |
|  |  |  |  |  | Not Used |  |  |  |
|  |  |  |  |  | Westbound |  |  |  |


|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MIN GREEN | 0 | 30 | 0 | 10 | 0 | 30 | 0 | 10 |
| PASSAGE | 0 | 0 | 0 | 3.0 | 0 | 0 | 0 | 3.0 |
| YELLOW | 0 | 5.0 | 0 | 4.0 | 0 | 5.0 | 0 | 4.0 |
| RED | 0 | 2.5 | 0 | 2.5 | 0 | 2.5 | 0 | 2.5 |
| MAX I | 0 | 30 | 0 | 19 | 0 | 30 | 0 | 19 |
| MAX II | 0 | 50 | 0 | 30 | 0 | 50 | 0 | 30 |
| WALK | 0 | 0 | 0 | 7 | 0 | 7 | 0 | 7 |
| PED CLEAR | 0 | 0 | 0 | 20 | 0 | 20 | 0 | 20 |
| S/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TBR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TTR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MIN GAP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MAX VI | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MAX EXT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AUTO MAX | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AMR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Range: 0-9.9 or 127 except max times and auto max which are $0-255$ secs.

## Appendix B. Existing (2019) Synchro Reports

HCM Signalized Intersection Capacity Analysis
1: Jane Street \& Kirby Road


HCM Unsignalized Intersection Capacity Analysis
2: Kirby Road \& Mid Ontario Truck Center Access

|  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |


|  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

HCM Signalized Intersection Capacity Analysis
4：Keele Street \＆Kirby Road

|  | 4 | $\rightarrow$ | $\checkmark$ | 7 | $4$ | 4 | 4 | 4 | 7 | $\rangle$ | $\frac{1}{7}$ | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | 4 | 「 | ${ }^{7}$ | $\uparrow$ |  |  | ¢4 | 「 |  | ¢4 | 「 |
| Traffic Volume（vph） | 56 | 114 | 118 | 339 | 200 | 42 | 48 | 351 | 84 | 17 | 1607 | 129 |
| Future Volume（vph） | 56 | 114 | 118 | 339 | 200 | 42 | 48 | 351 | 84 | 17 | 1607 | 129 |
| Ideal Flow（vphpl） | 1900 | 2000 | 1900 | 2000 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time（s） |  | 5.0 | 7.0 | 4.0 | 7.0 |  |  | 7.5 | 7.5 |  | 7.5 | 7.5 |
| Lane Util．Factor |  | 1.00 | 1.00 | 1.00 | 1.00 |  |  | 0.95 | 1.00 |  | 0.95 | 1.00 |
| Frt |  | 1.00 | 0.85 | 1.00 | 0.97 |  |  | 1.00 | 0.85 |  | 1.00 | 0.85 |
| Flt Protected |  | 0.98 | 1.00 | 0.95 | 1.00 |  |  | 0.99 | 1.00 |  | 1.00 | 1.00 |
| Satd．Flow（prot） |  | 1725 | 1445 | 1746 | 1697 |  |  | 3055 | 1247 |  | 3311 | 1458 |
| Flt Permitted |  | 0.76 | 1.00 | 0.58 | 1.00 |  |  | 0.60 | 1.00 |  | 0.95 | 1.00 |
| Satd．Flow（perm） |  | 1327 | 1445 | 1058 | 1697 |  |  | 1849 | 1247 |  | 3140 | 1458 |
| Peak－hour factor，PHF | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 |
| Adj．Flow（vph） | 57 | 116 | 120 | 346 | 204 | 43 | 49 | 358 | 86 | 17 | 1640 | 132 |
| RTOR Reduction（vph） | 0 | 0 | 30 | 0 | 7 | 0 | 0 | 0 | 34 | 0 | 0 | 52 |
| Lane Group Flow（vph） | 0 | 173 | 90 | 346 | 240 | 0 | 0 | 407 | 52 | 0 | 1657 | 80 |
| Heavy Vehicles（\％） | 18\％ | 14\％ | 13\％ | 10\％ | 8\％ | 21\％ | 17\％ | 19\％ | 31\％ | 29\％ | 10\％ | 12\％ |
| Turn Type | Perm | NA | Perm | Perm | NA |  | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases |  | 4 |  |  | 8 |  |  | 6 |  |  | 2 |  |
| Permitted Phases | 4 |  | 4 | 8 |  |  | 6 |  | 6 | 2 |  | 2 |
| Actuated Green，G（s） |  | 33.0 | 33.0 | 33.0 | 33.0 |  |  | 72.5 | 72.5 |  | 72.5 | 72.5 |
| Effective Green，g（s） |  | 35.0 | 33.0 | 36.0 | 33.0 |  |  | 72.5 | 72.5 |  | 72.5 | 72.5 |
| Actuated g／C Ratio |  | 0.29 | 0.28 | 0.30 | 0.28 |  |  | 0.60 | 0.60 |  | 0.60 | 0.60 |
| Clearance Time（s） |  | 7.0 | 7.0 | 7.0 | 7.0 |  |  | 7.5 | 7.5 |  | 7.5 | 7.5 |
| Vehicle Extension（s） |  | 3.0 | 3.0 | 3.0 | 3.0 |  |  | 3.0 | 3.0 |  | 3.0 | 3.0 |
| Lane Grp Cap（vph） |  | 387 | 397 | 317 | 466 |  |  | 1117 | 753 |  | 1897 | 880 |
| v／s Ratio Prot |  |  |  |  | 0.14 |  |  |  |  |  |  |  |
| v／s Ratio Perm |  | 0.13 | 0.06 | c0．33 |  |  |  | 0.22 | 0.04 |  | c0．53 | 0.05 |
| v／c Ratio |  | 0.45 | 0.23 | 1.09 | 0.52 |  |  | 0.36 | 0.07 |  | 0.87 | 0.09 |
| Uniform Delay，d1 |  | 34.6 | 33.6 | 42.0 | 36.8 |  |  | 12.1 | 9.8 |  | 19.9 | 9.9 |
| Progression Factor |  | 1.00 | 1.00 | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Incremental Delay，d2 |  | 0.8 | 0.3 | 77.3 | 1.0 |  |  | 0.9 | 0.2 |  | 5.9 | 0.2 |
| Delay（s） |  | 35.4 | 33.9 | 119.3 | 37.7 |  |  | 13.0 | 10.0 |  | 25.8 | 10.1 |
| Level of Service |  | D | C | F | D |  |  | B | A |  | C | B |
| Approach Delay（s） |  | 34.8 |  |  | 85.3 |  |  | 12.5 |  |  | 24.7 |  |
| Approach LOS |  | C |  |  | F |  |  | B |  |  | C |  |


| Approach LOS | C | F | B |  |
| :--- | ---: | :--- | :---: | :---: |
| Intersection Summary |  |  | C |  |
| HCM 2000 Control Delay | 35.1 | HCM 2000 Level of Service | D |  |
| HCM 2000 Volume to Capacity ratio | 0.97 |  | 14.5 |  |
| Actuated Cycle Length（s） | 120.0 | Sum of lost time（s） | F |  |
| Intersection Capacity Utilization | $99.1 \%$ | ICU Level of Service |  |  |

Analysis Period（min）
C Critical Lane Group

HCM Unsignalized Intersection Capacity Analysis
5: Ravineview Drive \& Kirby Road

|  | $\rightarrow$ | 7 | 7 |  | 4 | $p$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |  |
| Lane Configurations | $\uparrow$ |  |  | $\uparrow$ | * |  |  |
| Sign Control | Stop |  |  | Stop | Stop |  |  |
| Traffic Volume (vph) | 193 | 22 | 59 | 563 | 18 | 105 |  |
| Future Volume (vph) | 193 | 22 | 59 | 563 | 18 | 105 |  |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |  |
| Hourly flow rate (vph) | 205 | 23 | 63 | 599 | 19 | 112 |  |
| Direction, Lane \# | EB 1 | WB 1 | NB 1 |  |  |  |  |
| Volume Total (vph) | 228 | 662 | 131 |  |  |  |  |
| Volume Left (vph) | 0 | 63 | 19 |  |  |  |  |
| Volume Right (vph) | 23 | 0 | 112 |  |  |  |  |
| Hadj (s) | 0.31 | 0.19 | -0.31 |  |  |  |  |
| Departure Headway (s) | 5.4 | 4.8 | 5.7 |  |  |  |  |
| Degree Utilization, x | 0.34 | 0.88 | 0.21 |  |  |  |  |
| Capacity (veh/h) | 631 | 662 | 593 |  |  |  |  |
| Control Delay (s) | 11.2 | 32.7 | 10.3 |  |  |  |  |
| Approach Delay (s) | 11.2 | 32.7 | 10.3 |  |  |  |  |
| Approach LOS | B | D | B |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |
| Delay |  |  | 25.0 |  |  |  |  |
| Level of Service |  |  | D |  |  |  |  |
| Intersection Capacity Utilization |  |  | 62.0\% |  | CU Level | Service | B |
| Analysis Period (min) |  |  | 15 |  |  |  |  |

HCM Unsignalized Intersection Capacity Analysis
6: Foot Hills Road \& Kirby Road

|  | $\rightarrow$ |  | 7 |  | 4 | $>$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |  |
| Lane Configurations | 1 |  |  | $\uparrow$ | \% |  |  |
| Sign Control | Stop |  |  | Stop | Stop |  |  |
| Traffic Volume (vph) | 285 | 12 | 6 | 560 | 53 | 10 |  |
| Future Volume (vph) | 285 | 12 | 6 | 560 | 53 | 10 |  |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |  |
| Hourly flow rate (vph) | 303 | 13 | 6 | 596 | 56 | 11 |  |
| Direction, Lane \# | EB 1 | WB 1 | NB 1 |  |  |  |  |
| Volume Total (vph) | 316 | 602 | 67 |  |  |  |  |
| Volume Left (vph) | 0 | 6 | 56 |  |  |  |  |
| Volume Right (vph) | 13 | 0 | 11 |  |  |  |  |
| Hadj (s) | 0.25 | 0.16 | 0.28 |  |  |  |  |
| Departure Headway (s) | 5.1 | 4.7 | 6.3 |  |  |  |  |
| Degree Utilization, x | 0.44 | 0.78 | 0.12 |  |  |  |  |
| Capacity (veh/h) | 683 | 760 | 523 |  |  |  |  |
| Control Delay (s) | 12.0 | 22.2 | 10.1 |  |  |  |  |
| Approach Delay (s) | 12.0 | 22.2 | 10.1 |  |  |  |  |
| Approach LOS | B | C | B |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |
| Delay |  |  | 18.1 |  |  |  |  |
| Level of Service |  |  | C |  |  |  |  |
| Intersection Capacity Utilization |  |  | 44.5\% | ICU Level of Service |  |  | A |
| Analysis Period (min) |  |  | 15 |  |  |  |  |



HCM Signalized Intersection Capacity Analysis
8: Dufferin Street \& Kirby Road

|  | * |  | 4 |  | $\downarrow$ | 4 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |  |
| Lane Configurations | ${ }^{7}$ | 「 | ${ }^{7}$ | 4 | 4 | 「 |  |
| Traffic Volume (vph) | 107 | 225 | 255 | 329 | 552 | 315 |  |
| Future Volume (vph) | 107 | 225 | 255 | 329 | 552 | 315 |  |
| Ideal Flow (vphpl) | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |  |
| Total Lost time (s) | 6.5 | 6.5 | 3.0 | 8.0 | 8.0 | 8.0 |  |
| Lane Util. Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |  |
| Frt | 1.00 | 0.85 | 1.00 | 1.00 | 1.00 | 0.85 |  |
| Flt Protected | 0.95 | 1.00 | 0.95 | 1.00 | 1.00 | 1.00 |  |
| Satd. Flow (prot) | 1674 | 1384 | 1560 | 1715 | 1746 | 1585 |  |
| Flt Permitted | 0.95 | 1.00 | 0.38 | 1.00 | 1.00 | 1.00 |  |
| Satd. Flow (perm) | 1674 | 1384 | 623 | 1715 | 1746 | 1585 |  |
| Peak-hour factor, PHF | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 |  |
| Adj. Flow (vph) | 111 | 234 | 266 | 343 | 575 | 328 |  |
| RTOR Reduction (vph) | 0 | 209 | 0 | 0 | 0 | 61 |  |
| Lane Group Flow (vph) | 111 | 25 | 266 | 343 | 575 | 267 |  |
| Heavy Vehicles (\%) | 9\% | 18\% | 17\% | 12\% | 10\% | 3\% |  |
| Turn Type | Prot | Perm | pm+pt | NA | NA | Perm |  |
| Protected Phases | 4 |  | 1 | 6 | 2 |  |  |
| Permitted Phases |  | 4 | 6 |  |  | 2 |  |
| Actuated Green, G (s) | 14.8 | 14.8 | 110.7 | 110.7 | 96.9 | 96.9 |  |
| Effective Green, g (s) | 14.8 | 14.8 | 110.7 | 110.7 | 96.9 | 96.9 |  |
| Actuated g/C Ratio | 0.11 | 0.11 | 0.79 | 0.79 | 0.69 | 0.69 |  |
| Clearance Time (s) | 6.5 | 6.5 | 3.0 | 8.0 | 8.0 | 8.0 |  |
| Vehicle Extension (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |  |
| Lane Grp Cap (vph) | 176 | 146 | 564 | 1356 | 1208 | 1097 |  |
| v/s Ratio Prot | c0.07 |  | c0.04 | 0.20 | 0.33 |  |  |
| v/s Ratio Perm |  | 0.02 | c0.34 |  |  | 0.17 |  |
| v/c Ratio | 0.63 | 0.17 | 0.47 | 0.25 | 0.48 | 0.24 |  |
| Uniform Delay, d1 | 60.0 | 57.0 | 5.0 | 3.8 | 9.9 | 8.0 |  |
| Progression Factor | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |  |
| Incremental Delay, d2 | 7.2 | 0.6 | 0.6 | 0.4 | 1.3 | 0.5 |  |
| Delay (s) | 67.1 | 57.6 | 5.6 | 4.3 | 11.2 | 8.5 |  |
| Level of Service | E | E | A | A | B | A |  |
| Approach Delay (s) | 60.6 |  |  | 4.9 | 10.2 |  |  |
| Approach LOS | E |  |  | A | B |  |  |
| Intersection Summary |  |  |  |  |  |  |  |
| HCM 2000 Control Delay |  |  | 17.8 |  | HCM 2000 | evel of Service | B |
| HCM 2000 Volume to Capacity ratio |  |  | 0.50 |  |  |  |  |
| Actuated Cycle Length (s) |  |  | 140.0 |  | Sum of lost | ime (s) | 17.5 |
| Intersection Capacity Utilization |  |  | 66.9\% |  | CU Level | Service | C |
| Analysis Period (min) |  |  | 15 |  |  |  |  |
| c Critical Lane Group |  |  |  |  |  |  |  |

HCM Signalized Intersection Capacity Analysis
1: Jane Street \& Kirby Road


C Critical Lane Group


|  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

HCM Signalized Intersection Capacity Analysis
4: Keele Street \& Kirby Road

|  | 4 | $\rightarrow$ | $\checkmark$ | 7 | $4$ | 4 | 4 | $\dagger$ | \% | , | $\frac{1}{1}$ | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations |  | * | 7 | ${ }^{7}$ | $\uparrow$ |  |  | *4 | F |  | ¢4 | 「 |
| Traffic Volume (vph) | 55 | 223 | 46 | 100 | 142 | 23 | 90 | 961 | 288 | 35 | 344 | 39 |
| Future Volume (vph) | 55 | 223 | 46 | 100 | 142 | 23 | 90 | 961 | 288 | 35 | 344 | 39 |
| Ideal Flow (vphpl) | 1900 | 2000 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Total Lost time (s) |  | 7.0 | 7.0 | 7.0 | 6.0 |  |  | 7.5 | 7.5 |  | 7.5 | 7.5 |
| Lane Util. Factor |  | 1.00 | 1.00 | 1.00 | 1.00 |  |  | 0.95 | 1.00 |  | 0.95 | 1.00 |
| Frt |  | 1.00 | 0.85 | 1.00 | 0.98 |  |  | 1.00 | 0.85 |  | 1.00 | 0.85 |
| Flt Protected |  | 0.99 | 1.00 | 0.95 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Satd. Flow (prot) |  | 1776 | 1396 | 1587 | 1725 |  |  | 3269 | 1526 |  | 3202 | 1328 |
| Flt Permitted |  | 0.77 | 1.00 | 0.34 | 1.00 |  |  | 0.85 | 1.00 |  | 0.77 | 1.00 |
| Satd. Flow (perm) |  | 1384 | 1396 | 568 | 1725 |  |  | 2788 | 1526 |  | 2473 | 1328 |
| Peak-hour factor, PHF | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Adj. Flow (vph) | 59 | 240 | 49 | 108 | 153 | 25 | 97 | 1033 | 310 | 38 | 370 | 42 |
| RTOR Reduction (vph) | 0 | 0 | 32 | 0 | 5 | 0 | 0 | 0 | 105 | 0 | 0 | 15 |
| Lane Group Flow (vph) | 0 | 299 | 17 | 108 | 173 | 0 | 0 | 1130 | 205 | 0 | 408 | 27 |
| Heavy Vehicles (\%) | 20\% | 11\% | 17\% | 15\% | 9\% | 9\% | 13\% | 11\% | 7\% | 18\% | 13\% | 23\% |
| Turn Type | Perm | NA | Perm | Perm | NA |  | Perm | NA | Perm | Perm | NA | Perm |
| Protected Phases |  | 4 |  |  | 8 |  |  | 6 |  |  | 2 |  |
| Permitted Phases | 4 |  | 4 | 8 |  |  | 6 |  | 6 | 2 |  | 2 |
| Actuated Green, G (s) |  | 27.7 | 27.7 | 27.7 | 27.7 |  |  | 77.8 | 77.8 |  | 77.8 | 77.8 |
| Effective Green, g (s) |  | 27.7 | 27.7 | 27.7 | 28.7 |  |  | 77.8 | 77.8 |  | 77.8 | 77.8 |
| Actuated g/C Ratio |  | 0.23 | 0.23 | 0.23 | 0.24 |  |  | 0.65 | 0.65 |  | 0.65 | 0.65 |
| Clearance Time (s) |  | 7.0 | 7.0 | 7.0 | 7.0 |  |  | 7.5 | 7.5 |  | 7.5 | 7.5 |
| Vehicle Extension (s) |  | 3.0 | 3.0 | 3.0 | 3.0 |  |  | 3.0 | 3.0 |  | 3.0 | 3.0 |
| Lane Grp Cap (vph) |  | 319 | 322 | 131 | 412 |  |  | 1807 | 989 |  | 1603 | 860 |
| v/s Ratio Prot |  |  |  |  | 0.10 |  |  |  |  |  |  |  |
| v/s Ratio Perm |  | c0.22 | 0.01 | 0.19 |  |  |  | c0.41 | 0.13 |  | 0.16 | 0.02 |
| v/c Ratio |  | 0.94 | 0.05 | 0.82 | 0.42 |  |  | 0.63 | 0.21 |  | 0.25 | 0.03 |
| Uniform Delay, d1 |  | 45.3 | 35.9 | 43.8 | 38.6 |  |  | 12.5 | 8.6 |  | 8.9 | 7.6 |
| Progression Factor |  | 1.00 | 1.00 | 1.00 | 1.00 |  |  | 1.00 | 1.00 |  | 1.00 | 1.00 |
| Incremental Delay, d2 |  | 34.0 | 0.1 | 32.5 | 0.7 |  |  | 1.6 | 0.5 |  | 0.4 | 0.1 |
| Delay (s) |  | 79.3 | 36.0 | 76.4 | 39.3 |  |  | 14.1 | 9.0 |  | 9.3 | 7.6 |
| Level of Service |  | E | D | E | D |  |  | B | A |  | A | A |
| Approach Delay (s) |  | 73.2 |  |  | 53.3 |  |  | 13.0 |  |  | 9.1 |  |
| Approach LOS |  | E |  |  | D |  |  | B |  |  | A |  |


| Intersection Summary |  |  |  |
| :--- | ---: | :--- | ---: |
| HCM 2000 Control Delay | 25.2 | HCM 2000 Level of Service | C |
| HCM 2000 Volume to Capacity ratio | 0.71 |  | 14.5 |
| Actuated Cycle Length (s) | 120.0 | Sum of lost time (s) | G |
| Intersection Capacity Utilization | $100.4 \%$ | ICU Level of Service |  |
| Analysis Period (min) | 15 |  |  |
| C Critical Lane Group |  |  |  |

HCM Unsignalized Intersection Capacity Analysis
5: Ravineview Drive \& Kirby Road

|  | $\rightarrow$ |  | 1 | 4 | 4 | $p$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |  |
| Lane Configurations | $\uparrow$ |  |  | $\uparrow$ | * |  |  |
| Sign Control | Stop |  |  | Stop | Stop |  |  |
| Traffic Volume (vph) | 509 | 36 | 97 | 257 | 8 | 67 |  |
| Future Volume (vph) | 509 | 36 | 97 | 257 | 8 | 67 |  |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |  |
| Hourly flow rate (vph) | 585 | 41 | 111 | 295 | 9 | 77 |  |
| Direction, Lane \# | EB 1 | WB 1 | NB 1 |  |  |  |  |
| Volume Total (vph) | 626 | 406 | 86 |  |  |  |  |
| Volume Left (vph) | 0 | 111 | 9 |  |  |  |  |
| Volume Right (vph) | 41 | 0 | 77 |  |  |  |  |
| Hadj (s) | 0.12 | 0.21 | -0.46 |  |  |  |  |
| Departure Headway (s) | 4.8 | 5.1 | 5.8 |  |  |  |  |
| Degree Utilization, x | 0.84 | 0.58 | 0.14 |  |  |  |  |
| Capacity (veh/h) | 735 | 685 | 567 |  |  |  |  |
| Control Delay (s) | 27.2 | 14.9 | 9.8 |  |  |  |  |
| Approach Delay (s) | 27.2 | 14.9 | 9.8 |  |  |  |  |
| Approach LOS | D | B | A |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |
| Delay |  |  | 21.4 |  |  |  |  |
| Level of Service |  |  | C |  |  |  |  |
| Intersection Capacity Utilization |  |  | 62.5\% |  | CU Level of | Service | B |
| Analysis Period (min) |  |  | 15 |  |  |  |  |

HCM Unsignalized Intersection Capacity Analysis

## 6: Foot Hills Road \& Kirby Road

|  | $\rightarrow$ | \% | 4 |  | 4 | $p$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |  |
| Lane Configurations | t |  |  | $\uparrow$ | * |  |  |
| Sign Control | Stop |  |  | Stop | Stop |  |  |
| Traffic Volume (vph) | 520 | 49 | 8 | 328 | 32 | 7 |  |
| Future Volume (vph) | 520 | 49 | 8 | 328 | 32 | 7 |  |
| Peak Hour Factor | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |  |
| Hourly flow rate (vph) | 571 | 54 | 9 | 360 | 35 | 8 |  |
| Direction, Lane \# | EB 1 | WB 1 | NB 1 |  |  |  |  |
| Volume Total (vph) | 625 | 369 | 43 |  |  |  |  |
| Volume Left (vph) | 0 | 9 | 35 |  |  |  |  |
| Volume Right (vph) | 54 | 0 | 8 |  |  |  |  |
| Hadj (s) | 0.08 | 0.14 | 0.23 |  |  |  |  |
| Departure Headway (s) | 4.6 | 4.9 | 6.3 |  |  |  |  |
| Degree Utilization, x | 0.79 | 0.50 | 0.08 |  |  |  |  |
| Capacity (veh/h) | 773 | 722 | 518 |  |  |  |  |
| Control Delay (s) | 22.4 | 12.6 | 9.9 |  |  |  |  |
| Approach Delay (s) | 22.4 | 12.6 | 9.9 |  |  |  |  |
| Approach LOS | C | B | A |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |
| Delay |  |  | 18.4 |  |  |  |  |
| Level of Service |  |  | C |  |  |  |  |
| Intersection Capacity Utilization |  |  | 40.3\% |  | ICU Level of | Service | A |
| Analysis Period (min) |  |  | 15 |  |  |  |  |



HCM Signalized Intersection Capacity Analysis
8: Dufferin Street \& Kirby Road


## Appendix B. Existing (2019) Synchro Reports

HCM Signalized Intersection Capacity Analysis
1: Jane Street \& Kirby Road


Future Do Nothing Conditions
AM Peak Hour
Page 1

HCM Unsignalized Intersection Capacity Analysis
2: Street 4 \& Kirby Road


Future Do Nothing Conditions
AM Peak Hour

HCM Signalized Intersection Capacity Analysis
4: Keele Street \& Kirby Road


HCM Unsignalized Intersection Capacity Analysis
5: Ravineview Drive \& Kirby Road


HCM Unsignalized Intersection Capacity Analysis

## 6: Foot Hills Road \& Kirby Road

|  | $\rightarrow$ |  | $\checkmark$ | 4 | 4 | 7 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |  |
| Lane Configurations | $\uparrow$ |  |  | $\uparrow$ | * |  |  |
| Sign Control | Stop |  |  | Stop | Stop |  |  |
| Traffic Volume (vph) | 565 | 25 | 23 | 727 | 54 | 11 |  |
| Future Volume (vph) | 565 | 25 | 23 | 727 | 54 | 11 |  |
| Peak Hour Factor | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |  |
| Hourly flow rate (vph) | 601 | 27 | 24 | 773 | 57 | 12 |  |
| Direction, Lane \# | EB 1 | WB 1 | NB 1 |  |  |  |  |
| Volume Total (vph) | 628 | 797 | 69 |  |  |  |  |
| Volume Left (vph) | 0 | 24 | 57 |  |  |  |  |
| Volume Right (vph) | 27 | 0 | 12 |  |  |  |  |
| Hadj (s) | 0.25 | 0.16 | 0.27 |  |  |  |  |
| Departure Headway (s) | 5.3 | 5.1 | 7.2 |  |  |  |  |
| Degree Utilization, x | 0.92 | 1.14 | 0.14 |  |  |  |  |
| Capacity (veh/h) | 675 | 705 | 490 |  |  |  |  |
| Control Delay (s) | 39.7 | 99.1 | 11.3 |  |  |  |  |
| Approach Delay (s) | 39.7 | 99.1 | 11.3 |  |  |  |  |
| Approach LOS | E | F | B |  |  |  |  |
| Intersection Summary |  |  |  |  |  |  |  |
| Delay |  |  | 70.1 |  |  |  |  |
| Level of Service |  |  | F |  |  |  |  |
| Intersection Capacity Utilization |  |  | 67.2\% | ICU Level of Service |  |  | C |
| Analysis Period (min) |  |  | 15 |  |  |  |  |



HCM Signalized Intersection Capacity Analysis
8: Dufferin Street \& Kirby Road




## 23: Kirby GO Access \& Kirby Road



## Appendix C. Future (2031) Synchro Reports

HCM Signalized Intersection Capacity Analysis
1: Jane Street \& Kirby Road

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

HCM Unsignalized Intersection Capacity Analysis
2: Street 4 \& Kirby Road


Future Conditions
AM Peak Hour

HCM Signalized Intersection Capacity Analysis
4: Keele Street \& Kirby Road

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

HCM Unsignalized Intersection Capacity Analysis
5: Ravineview Drive \& Kirby Road


Future Conditions
AM Peak Hour

HCM Unsignalized Intersection Capacity Analysis
6: Foot Hills Road \& Kirby Road


Future Conditions
AM Peak Hour

HCM Unsignalized Intersection Capacity Analysis
7: Laurentian Boulevard \& Kirby Road


Future Conditions
AM Peak Hour

HCM Signalized Intersection Capacity Analysis
8: Dufferin Street \& Kirby Road

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

HCM Unsignalized Intersection Capacity Analysis
13: Street 5 \& Kirby Road


Future Conditions
AM Peak Hour



Future Conditions
AM Peak Hour

HCM Signalized Intersection Capacity Analysis
1: Jane Street \& Kirby Road


HCM Unsignalized Intersection Capacity Analysis
2: Street 4 \& Kirby Road


HCM Signalized Intersection Capacity Analysis
4: Keele Street \& Kirby Road


HCM Unsignalized Intersection Capacity Analysis
5: Ravineview Drive \& Kirby Road


HCM Unsignalized Intersection Capacity Analysis
6: Foot Hills Road \& Kirby Road

|  | $\rightarrow$ | 7 | 4 |  | 4 | $p$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |  |
| Lane Configurations | 中 ${ }^{\text {a }}$ |  |  | ¢4 | ${ }^{7}$ | 「 |  |
| Traffic Volume (veh/h) | 1117 | 98 | 60 | 669 | 54 | 7 |  |
| Future Volume (Veh/h) | 1117 | 98 | 60 | 669 | 54 | 7 |  |
| Sign Control | Free |  |  | Free | Stop |  |  |
| Grade | 0\% |  |  | 0\% | 0\% |  |  |
| Peak Hour Factor | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |  |
| Hourly flow rate (vph) | 1227 | 108 | 66 | 735 | 59 | 8 |  |
| Pedestrians |  |  |  |  |  |  |  |
| Lane Width (m) |  |  |  |  |  |  |  |
| Walking Speed (m/s) |  |  |  |  |  |  |  |
| Percent Blockage |  |  |  |  |  |  |  |
| Right turn flare (veh) |  |  |  |  |  | 6 |  |
| Median type | None |  |  | None |  |  |  |
| Median storage veh) |  |  |  |  |  |  |  |
| Upstream signal (m) |  |  |  |  |  |  |  |
| pX, platoon unblocked |  |  |  |  |  |  |  |
| vC , conflicting volume |  |  | 1335 |  | 1780 | 668 |  |
| vC 1 , stage 1 conf vol |  |  |  |  |  |  |  |
| vC 2 , stage 2 conf vol |  |  |  |  |  |  |  |
| vCu , unblocked vol |  |  | 1335 |  | 1780 | 668 |  |
| tC, single (s) |  |  | 4.3 |  | 6.8 | 6.9 |  |
| tC, 2 stage (s) |  |  |  |  |  |  |  |
| tF (s) |  |  | 2.3 |  | 3.5 | 3.3 |  |
| p0 queue free \% |  |  | 86 |  | 9 | 98 |  |
| cM capacity (veh/h) |  |  | 482 |  | 65 | 406 |  |
| Direction, Lane \# | EB 1 | EB 2 | WB 1 | WB 2 | NB 1 |  |  |
| Volume Total | 818 | 517 | 311 | 490 | 67 |  |  |
| Volume Left | 0 | 0 | 66 | 0 | 59 |  |  |
| Volume Right | 0 | 108 | 0 | 0 | 8 |  |  |
| cSH | 1700 | 1700 | 482 | 1700 | 73 |  |  |
| Volume to Capacity | 0.48 | 0.30 | 0.14 | 0.29 | 0.91 |  |  |
| Queue Length 95th (m) | 0.0 | 0.0 | 3.6 | 0.0 | 35.2 |  |  |
| Control Delay (s) | 0.0 | 0.0 | 4.6 | 0.0 | 172.0 |  |  |
| Lane LOS |  |  | A |  | F |  |  |
| Approach Delay (s) | 0.0 |  | 1.8 |  | 172.0 |  |  |
| Approach LOS |  |  |  |  | F |  |  |
| Intersection Summary |  |  |  |  |  |  |  |
| Average Delay |  |  | 5.9 |  |  |  |  |
| Intersection Capacity Utilization |  |  | 67.6\% |  | ICU Level of | Service | C |
| Analysis Period (min) |  |  | 15 |  |  |  |  |

HCM Unsignalized Intersection Capacity Analysis
7: Laurentian Boulevard \& Kirby Road


HCM Signalized Intersection Capacity Analysis
8: Dufferin Street \& Kirby Road


HCM Unsignalized Intersection Capacity Analysis
13: Street 5 \& Kirby Road




## Memo

```
Date: Friday, April 17, 2020
Project: City of Vaughan - Kirby Road Widening (Jane Street to Dufferin Street) EA
To: Hilda Esedebe, P.Eng.
From: Jonathan Chai, P.Eng. Azadeh Heydari, P.Eng.
```

Subject: Transportation and Traffic Analysis - Preferred Alternative
HDR has been retained by the City of Vaughan to undertake a Schedule 'C' Class Environmental Assessment (EA) study for the Kirby Road corridor between Jane Street and Dufferin Street. Prior to this study, the North Vaughan and New Communities Transportation Master Plan (NVNCTMP) study identified the need for infrastructure improvements to Kirby Road between Jane Street and Dufferin Street including roadway widening, road-rail grade separation and intersection jog elimination at Jane Street. While the NVNCTMP satisfies Phases 1 and 2 of the Municipal Class EA process from the infrastructure improvements from a broad network perspective, further more detailed analysis was required to reconfirm the specific needs for the corridor.

To this end, a separate Transportation and Traffic Report (dated January 10, 2020) was completed to reconfirm the NVNCTMP findings through additional more detailed analysis of intersection operations, pedestrian and cyclist level of service, collisions, and review of the Metrolinx Traffic Impact Study for Kirby GO station. This report confirmed the NVNCTMP recommendations for roadway widening, road-rail grade separation and intersection jog elimination at Jane Street. In addition, the need for improved active transportation facilities for pedestrians and cyclists was also identified.

Based on the above, the purpose of this memorandum is to document further analysis required to identify a preferred alternative to be carried forward to inform Alternative Designs (Phase 3) and Preliminary Design of the preferred design (Phase 4) in of the EA process. This will include recommendations for intersection lane configurations as well as continuous active transportation facilities. Active transportation treatments at intersections will be confirmed during the preliminary design phase of the study.

## Preferred Alternative Traffic Analysis

The preferred alternative analysis and findings presented in this section reflects a 4-lane widening scenario between Jane Street and Dufferin Street for the 2031 horizon year, as recommended in the NVNCTMP and as confirmed in the Transportation and Traffic Report.

## Intersection Volumes

Future traffic volume growth to 2031 is derived from the York Region EMME model version used for the NVNCTMP. The methodology and the results in developing 2031 peak hour traffic within the study area were carried out during the previous phase of the study and are documented in
the Section 5.2 of Transportation and Traffic Report (January 10, 2020). Key improvements and assumptions in the model include:

- No GTA West Corridor Freeway
- No new freeway interchange at Kirby Road at Highway 400
- No new freeway interchange at 19th Avenue at Highway 404
- Kirby GO station
- Kirby Road extension
- Teston Road missing link
- Jane Street widening (Teston Road to Kirby Road)

A screenline capacity analysis was completed for Kirby Road (inclusive of the recommended widening to four lanes) and the two parallel arterial roads, King-Vaughan Road and Teston Road. Table 1 summarizes the 2031 screenline traffic growth (east-west), across four traffic screenlines - east of Jane Street, west and east of Keele Street, and west of Dufferin Street. The purposes of this screenline analysis is to identify growth rates to be applied to intersection turning movement volumes.

Once the model was refined, 2011 to 2031 growth (AM peak hour) were extracted from the refined model and applied to observed turning movement counts (TMCs) along Kirby Road. The 2031 PM peak hour turning volumes were then developed using the patterns observed in existing travel and the future EMME model. Manual adjustments were then made to the projected volumes, accounting for the redistribution of traffic due to new improvements and development and to appropriately balance the volumes along Kirby Road.

The percentage of trucks on the roadways were assumed to be 10\% as per York Region's direction. This percentage was identified based on a review of goods movement corridors in Peel Region and York Region in order to avoid over-estimation of truck volumes with increases in total traffic.

Figure 1 and Figure 2 illustrate projected traffic volumes at key study area intersections. The location of Streets 4, 5 and 6 refer to the Block 27 Secondary Plan, which is illustrated in Figure 3.

Table 1: Screenline Analysis

| Screenline: | AM Peak <br> Volumes | Hour | Capacity |  | V/C Ratio |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| East of Jane Street | Existing | 2031 <br> Model | Existing | 2031 <br> Model | Existing | 2031 <br> Model |
| King-Vaughan Road | 400 | 700 | 700 | 700 | 0.57 | 1.00 |
| Kirby Road | 300 | 1300 | 700 | 1400 | 0.43 | 0.93 |
| Teston Road | 1,190 | 1,750 | 1,800 | 1,800 | 0.66 | 0.97 |
| Total | 1,890 | 3,100 | 3,200 | 3,200 | 0.59 | 0.96 |
| West of Keele Street |  |  |  |  |  |  |
| King-Vaughan Road | 410 | 700 | 700 | 700 | 0.59 | 1.00 |
| Kirby Road | 310 | 1300 | 700 | 1400 | 0.44 | 0.93 |
| Teston Road | 820 | 1,500 | 1,800 | 1,800 | 0.46 | 0.83 |
| Total | 1,540 | 3,500 | 3,200 | 3,200 | 0.48 | 0.90 |
| East of Keele Street |  |  |  |  |  |  |
| King-Vaughan Road | 610 | 750 | 700 | 700 | 0.87 | 1.07 |
| Kirby Road | 470 | 1200 | 700 | 1400 | 0.67 | 0.86 |
| Teston Road | 80 | 1,600 | 400 | 1,800 | 0.20 | 0.89 |
| Total | 1,160 | 3,550 | 1,800 | 3,200 | 0.64 | 0.91 |
| West of Dufferin Street |  |  |  |  |  |  |
| King-Vaughan Road | 620 | 750 | 700 | 700 | 0.89 | 1.07 |
| Kirby Road | 400 | 1200 | 700 | 1400 | 0.57 | 0.86 |
| Teston Road | 20 | 1,600 | 400 | 1,800 | 0.05 | 0.89 |
| Total | 1,040 | 3,550 | 1,800 | 3,200 | 0.58 | 0.91 |

-32 City of Vaughan | Kirby Road Widening EA -Transportation and Traffic Analysis - Preferred Alternative
City of
Memo

Figure 1: 2031 Future Turning Movement Volumes - AM Peak Hour


Figure 2: 2031 Future Turning Movement Volumes - PM Peak Hour



Figure 3: Block 27 Secondary Plan

## Traffic Operations and Intersection Capacity

Synchro/SimTraffic 9 was utilized to conduct a Highway Capacity Manual (HCM) level of service (LOS) and queue analysis at each intersection. A detailed assessment including LOS, delay, volume to capacity ratios (V/C), and $95^{\text {th }}$ percentile queue length analysis to inform storage requirements was conducted at each intersection for AM and PM peak hours. The traffic operational analysis results for the intersections along Kirby Road are summarized in Table 2. Critical delays (LOS F) and v/c ratios greater than 1.00 are highlighted. It should be noted that signal timing splits were optimized to reflect future traffic volume projections. Detailed Synchro reports are provided in Appendix A.

Table 2: Synchro Results - Preferred Alternative

| Intersection | Approach/Movement |  | AM Peak Hour |  |  | PM Peak Hour |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Delay (s) | LOS | v/c | Delay <br> (s) | LOS | v/c |
| Kirby Road at Jane Street (Signalized with Jog Elimination) | EB | EBL | 40.2 | D | 0.56 | 18.4 | B | 0.40 |
|  |  | EBTR | 46.6 | D | 0.83 | 63.2 | E | 0.98 |
|  | WB | WBL | 29.1 | C | 0.64 | 56.2 | E | 0.78 |
|  |  | WBTR | 45.7 | D | 0.90 | 25.2 | C | 0.26 |
|  | NB | NBL | 44.4 | D | 0.26 | 29.8 | C | 0.05 |
|  |  | NBT | 47.0 | D | 0.57 | 79.0 | E | 0.98 |
|  |  | NBR | 37.5 | D | 0.14 | 30.8 | C | 0.13 |
|  | SB | SBL | 37.5 | D | 0.51 | 59.5 | E | 0.48 |
|  |  | SBT | 58.5 | E | 0.89 | 41.2 | D | 0.61 |
|  |  | SBR | 30.9 | C | 0.16 | 31.7 | C | 0.18 |
|  | Overall Intersection |  | 45.7 | D | 0.95 | 52.0 | D | 0.97 |
| Kirby Road at Street 4 <br> (Unsignalized) | EB | EBTR | 0 | - | 0.31 | 0 | - | 0.32 |
|  | WB | WBLT | 1.6 | A | 0.37 | 4.3 | A | 0.13 |
|  | NB | NBL | 170.3 | F | 1.27 | 27.6 | D | 0.12 |
|  |  | NBR | - | - | - | - | - | - |
|  | Overall Intersection |  | 19.6 | C | 0.65 | 1.0 | A | 0.49 |
| Kirby Road at Street 5 <br> (Unsignalized) | EB | EBTR | 0 | - | 0.26 | 0 | - | 0.28 |
|  | WB | WBLT | 0.3 | A | 0.33 | 4.0 | A | 0.15 |
|  | NB | NBL | 60.5 | F | 0.88 | 13.6 | B | 0.04 |
|  |  | NBR | - | - | - | - | - | - |
|  | Overall Intersection |  | 8.0 | A | 0.42 | 0.9 | A | 0.46 |
|  | EB | EBTR | 0 | - | 0.25 | 0 | - | 0.27 |


| Intersection | Approach/Movement |  | AM Peak Hour |  |  | PM Peak Hour |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Delay <br> (s) | LOS | v/c | Delay (s) | LOS | v/c |
| Kirby Road at Street 6 <br> (Unsignalized) | WB | WBLT | 1.9 | A | 0.27 | 6.7 | A | 0.21 |
|  | NB | NBL | 52.2 | F | 0.87 | 14.8 | B | 0.04 |
|  |  | NBR | - | - | - | - | - | - |
|  | Overall Intersection |  | 9.3 | A | 0.56 | 1.9 | A | 0.49 |
| Kirby Road at <br> Kirby GO <br> Access <br> (Unsignalized) | EB | EBTR | 0 | - | 0.27 | 0 | - | 0.28 |
|  | WB | WBLT | 10.3 | B | 0.44 | 1.9 | A | 0.22 |
|  | NB | NBL | 53.6 | F | 0.88 | 19.0 | C | 0.56 |
|  |  | NBR | - | - | - | - | - | - |
|  | Overall Intersection |  | 9.4 | A | 0.61 | 5.0 | A | 0.47 |
| Kirby Road at Keele Street (Signalized) | EB | EBL | 47.0 | D | 0.65 | 33.0 | C | 0.53 |
|  |  | EBT | 37.9 | D | 0.45 | 54.1 | D | 0.90 |
|  |  | EBR | 35.8 | D | 0.11 | 34.0 | C | 0.05 |
|  | WB | WBL | 38.1 | D | 0.71 | 41.3 | D | 0.70 |
|  |  | WBTR | 67.8 | E | 0.97 | 42.6 | D | 0.64 |
|  | NB | NBL | 26.5 | C | 0.45 | 15.7 | B | 0.33 |
|  |  | NBT | 25.4 | C | 0.37 | 33.0 | C | 0.82 |
|  |  | NBR | 21.6 | C | 0.06 | 22.1 | C | 0.36 |
|  | SB | SBL | 15.3 | B | 0.47 | 23.1 | C | 0.42 |
|  |  | SBT | 39.0 | D | 0.92 | 23.9 | C | 0.40 |
|  |  | SBR | 17.2 | B | 0.08 | 19.7 | B | 0.06 |
|  | Overall Intersection |  | 40.6 | D | 0.95 | 35.6 | D | 0.86 |
|  | EB | EBTR | 0 | - | 0.26 | 0 | - | 0.52 |


| Intersection | Approach/Movement |  | AM Peak Hour |  |  | PM Peak Hour |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Delay <br> (s) | LOS | v/c | Delay <br> (s) | LOS | v/c |
| Kirby Road at Ravineview Drive (Unsignalized) | WB | WBTL | 2.1 | A | 0.43 | 8.1 | A | 0.27 |
|  | NB | SBLR | 20.4 | C | 0.37 | 62.1 | F | 0.63 |
|  | Overall Intersection |  | 1.8 | A | 0.68 | 3.8 | A | 0.69 |
| Kirby Road at Foot Hills Road (Unsignalized) | EB | EBTR | 0 | - | 0.30 | 0 | - | 0.48 |
|  | WB | WBLT | 0.9 | A | 0.44 | 4.6 | A | 0.29 |
|  | NB | NBL | 42.9 | E | 0.42 | 172.0 | F | 0.91 |
|  |  | NBR | - | - | - | - | - | - |
|  | Overall Intersection |  | 1.7 | A | 0.55 | 5.9 | A | 0.68 |
| Kirby Road at Laurentian Boulevard (Unsignalized) | EB | EBTR | 0 | - | 0.30 | 0 | - | 0.47 |
|  | WB | WBLT | 0.5 | A | 0.44 | 2.1 | A | 0.32 |
|  | NB | NBLR | 12.7 | B | 0.21 | 26.0 | D | 0.09 |
|  | Overall Intersection |  | 0.8 | A | 0.52 | 0.5 | A | 0.52 |
| Kirby Road at Dufferin Street (Signalized) | EB | EBL | 46.1 | D | 0.28 | 32.7 | C | 0.17 |
|  |  | EBT | 69.3 | E | 0.94 | 50.8 | D | 0.89 |
|  |  | EBR | 40.6 | D | 0.05 | 29.1 | C | 0.02 |
|  | WB | WBL | 67.3 | E | 0.88 | 31.5 | C | 0.46 |
|  |  | WBTR | 43.6 | D | 0.84 | 30.8 | C | 0.56 |
|  | NB | NBL | 31.0 | C | 0.29 | 20.3 | C | 0.10 |
|  |  | NBT | 23.6 | C | 0.19 | 57.6 | E | 0.96 |
|  |  | NBR | 21.7 | C | 0.05 | 20.7 | C | 0.14 |
|  | SB | SBL | 17.1 | B | 0.18 | 38.2 | D | 0.53 |
|  |  | SBTR | 44.3 | D | 0.91 | 20.8 | C | 0.15 |


| Intersection | Approach/Movement | AM Peak Hour |  |  | PM Peak Hour |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Delay <br> (s) | LOS | v/c | Delay <br> (s) | LOS | v/c |
|  | Overall Intersection | 48.8 | D | 0.97 | 43.2 | D | 0.92 |

Based on the intersection capacity analyses presented in Table 2, the majority of signalized and unsignalized intersections within the study area are operating at overall LOS D or better with some unsignalized intersections experiencing delay in the northbound direction during the AM peak hour. The unsignalized intersections were tested using Ontario Traffic Manual (OTM) traffic signal warrant methodology but are not warranted as the turning volumes on the major road are not significantly high. Despite the findings of the signal warrant analysis however, it is recommended that a traffic signal be considered at unsignalized intersection(s) with Kirby Road to minimize the crossing distance for pedestrians, cyclists and transit users and to provide a protected crossing in between the 2 km spacing of the signalized Regional intersections. This recommendation will be carried forward into the Alternative Design development for further consideration. National Association of City Transportation Officials (NACTO) ${ }^{1}$ recommends that signalized crosswalks be permitted at a minimum of 200 foot (approximately 60 m ) spacing. The presence of active transportation facilities or other potential destinations should therefore also be considered for warranting a traffic signal. Figure 4 and Figure 5 illustrate the intersection LOS at each of the intersections.

[^3]- 2 City of Vaughan | Kirby Road Widening EA -Transportation and Traffic Analysis - Preferred Alternative

Figure 4: Future Intersection LOS Results - AM Peak Hour


Figure 5: Future Intersection LOS Results - PM Peak Hour


## Storage Lengths and Queuing

Table 3 summarizes the $203195^{\text {th }}$ percentile queues from Synchro and recommended storage lengths at all intersections between Jane Street and Dufferin Street.

Table 3: 2031 Peak Hour 95 ${ }^{\text {th }}$ Percentile Queues

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| Intersection | Approach/Movement |  | Queue Length |  | Storage <br> Length <br> Preferred <br> Alternative |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | AM | PM |  |
|  | NB | NBL | 60.5 | 0.9 | - |
|  |  | NBR | 60.5 | 0.9 | 65 |
| Kirby Road at Street 6 (Unsignalized) | EB | EBTR | 0 | 0 | - |
|  | WB | WBLT | 1.1 | 5.9 | - |
|  | NB | NBL | 62.9 | 1.1 | - |
|  |  | NBR | 62.9 | 1.1 | 65 |
| Kirby Road at Kirby GO Access (Unsignalized) | EB | EBTR | 0 | 0 | - |
|  | WB | WBLT | 17.0 | 1.0 | - |
|  | NB | NBL | 58.7 | 27.1 | - |
|  |  | NBR | 58.7 | 27.1 | 60 |
| Kirby Road at Keele Street (Signalized) | EB | EBL | 25.2 | 34.2 | 40 |
|  |  | EBT | 57.1 | 136.2 | - |
|  |  | EBR | 14.9 | 4.1 | 20 |
|  | WB | WBL | 61.5 | 43.3 | 65 |
|  |  | WBTR | 149.2 | 71.9 | - |
|  | NB | NBL | 10.6 | 24.2 | 30 |
|  |  | NBT | 59.3 | 169.2 | - |
|  |  | NBR | 1.0 | 46.1 | 50 |
|  | SB | SBL | 37.7 | 12.3 | 50 |




As shown in Table 3, addition and/or extension of storage lanes are recommended at the following intersections:

- Kirby Road at Jane Street: eastbound left, northbound left, southbound left, and southbound right
- Kirby Road at Street 4: northbound right
- Kirby Road at Street 5: northbound right
- Kirby Road at Street 6: northbound right
- Kirby Road at GO Station Access: northbound right
- Kirby Road at Keele Street: eastbound left, eastbound right, westbound left, northbound left, northbound right, southbound left and southbound right
- Kirby Road at Foot Hills Road: northbound right
- Kirby Road at Dufferin Street: eastbound left, eastbound right, westbound left, northbound left, northbound right, and southbound left

York Region's Designing Great Streets (2019) and Access Guideline for Regional Roads (2007), states that the minimum spacing recommended between signalized intersections for a commuter road such as Kirby Road is 215 m 2 . It should be noted that the spacing between Keele Street and GO Station Access on Kirby Road does not meet this requirement, however traffic signals are not warranted at this location.

## Roundabout Screening

A roundabout is an alternative traffic control measure that can be considered that are proven to be safer than traditional intersection controls due to lower operating speeds, the elimination of the "Beating the Light" mentality, the reduction of angle collision, and one-way travel.

[^4]The following criteria are used to assess the feasibility of implementing roundabouts at intersections in the study corridor. An intersection must fulfill all three requirements in order for a roundabout design to be carried forward at the location:

- Number of lanes required based on intersection volumes: Roundabouts are not recommended if the candidate intersection requires more than 2 lanes in any direction;
- Proximity to nearest intersection, access or rail crossing: Roundabouts are not recommended if the nearest intersection is less than 215 m away, as queuing can adversely affect operations; and,
- The need for a signalized pedestrian crossing: Roundabouts are not recommended if there is high demand for pedestrian or a need for a pedestrian crossing at the candidate intersection.

At all the intersections along the study corridor, roundabouts will not be carried forward as treatment for intersection improvements due to spacing consideration, anticipation of future pedestrian demand as a result of future Kirby GO station, and future grade separation at the Barrie GO Rail crossing of Kirby Road.

## Recommended Lane Configuration and Traffic Control

Figure 6 illustrates the recommended lane configuration for the preferred alternative. As shown in the figure, the all-way stop signs at both Ravineview Drive and Foot Hills Road are recommended to be modified to side-street stops. Furthermore, dedicated right and left turn lanes have been added at the Regional intersections of Kirby Road at Jane Street, Keele Street, and Dufferin Street.

It is also noted that prior to a road-rail grade separation of Kirby Road, this analysis finds that a side-street stop condition for the Kirby GO station access at Kirby Road will operate acceptably. As identified in the NVNCTMP however, an alternate configuration may need to be considered to provide adequate spacing between Keele Street, the Kirby GO station access and the proposed road-rail grade separation.

As noted previously it is recommended to consider a traffic signal at unsignalized intersection(s) with Kirby Road to minimize the crossing distance for pedestrians, cyclists and transit users and to provide a protected crossing in between the 2 km spacing of the signalized Regional intersections.

## Figure 6: 2031 Future Lane Configuration



## Active Transportation Alternatives

As identified in the Transportation and Traffic Report, the preferred alternative considers continuous active transportation facilities across Kirby Road. The alternatives depicted in Figure 7 show typical cross-sections which consider pedestrian and cycling facilities to be considered and evaluated in Phase 3 - Alternative Designs.


Figure 7: Active Transportation Alternatives
Generally, pedestrian and cyclist level of service (LOS) is improved with greater separation from vehicular travel lanes and provision of dedicated facilities for each mode. Thus pedestrian and cyclist LOS is generally highest in Alternative 1, is slightly lower in Alternatives 2 and 3 and lowest in Alternative 4 particularly for cyclists. Further consideration of these alternatives and how they might change throughout the corridor will be documented in a separated evaluation during Phase of the EA study subject to input and comments public, stakeholders and review agencies. The recommended AT facility type will be carried forward to the preliminary design. As shown on Figure 7, Alternative 3 and Alternative 4 are not supported by City of Vaughan's Pedestrian and Bicycle Master Plan, however, as part of the EA study all alternatives are being considered and eliminated at later stages. It should also be noted that the planned Multi-Use paths considered for Kirby Road Extension (Dufferin Street to Bathurst Street) and Keele Street, south of Kirby Street, will be taken into consideration during the alternative evaluation stage of the study.

## Summary of Recommendations

The following recommendations are carried forward for consideration in the alternative designs (Phase 3) and preferred design (Phase 4) for Kirby Road between Jane Street and Dufferin Street to accommodate the widening to four lanes and continuous active transportation improvements. Implementation of these improvements are subject to review of design constraints and geometric feasibility:

- Exclusive left-turn and right-turn storage bays at Regional arterial intersections to accommodate adequate storage where geometrically feasible;
- All-way stop signs at the Kirby Road intersections with both Ravineview Drive and Foot Hills Road are recommended to be modified to side-street stops.
- Review and adjust signal timings and optimization throughout the corridor regularly and when Kirby Road improvements are implemented.
- Active transportation facility alternatives have been identified but will require further consideration through public and stakeholder consultation as well as preliminary design.
- Prior to a road-rail grade separation of Kirby Road, this analysis finds that a side-street stop condition for the Kirby GO station access at Kirby Road will operate acceptably. As identified in the NVNCTMP however, an alternate configuration may need to be considered to provide adequate spacing between Keele Street, the Kirby GO station access and the proposed road-rail grade separation.
- Consideration of a traffic signal at unsignalized intersection(s) with Kirby Road to minimize the crossing distance for pedestrians, cyclists and transit users and to provide a protected crossing in between the 2 km spacing of the signalized Regional intersections.

In preparing this memorandum, HDR relied, in whole or in part, on data and information provided by the Client and third parties that was current at the time of such usage, which information has not been independently verified by HDR and which HDR has assumed to be accurate, complete, reliable, and current. Therefore, while HDR has utilized its best efforts in preparing this memorandum, HDR does not warrant or guarantee the conclusions set forth in this memorandum which are dependent or based upon data, information or statements supplied by third parties or the client, or that the data and information have not changed since being provided in the memorandum. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that HDR shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party resulting from decisions made or actions taken based on this document.

## Appendix D. Socio-Economic Report



# Kirby Road Widening <br> Environmental Assessment Study 

Jane Street to Dufferin Street
City of Vaughan

Socio-Economic Environment
Existing Conditions Report

September 11, 2020

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## 1 Introduction and Background

The City of Vaughan's Transportation Master Plan (2012) and the York Region Transportation Master Plan (2016) identified the need for Kirby Road improvements. Following completion of those studies the North Vaughan and New Communities Transportation Master Plan (NVNCTMP, 2019) undertook additional transportation planning analysis to support the development of two new community areas in the northern part of Vaughan and the proposed Kirby GO Station. The NVNCTMP identified the need for widening Kirby Road from Jane Street to Dufferin Street, jog elimination of the Kirby Road intersection at Jane Street, and grade separation of Kirby Road at the Barrie GO rail line.

To build on the Kirby Road recommendations from the NVNCTMP, the City of Vaughan retained HDR to conduct a Municipal Class Environmental Assessment study for Kirby Road between Jane Street and Dufferin Street. This EA study is referred to as the Kirby Road Widening EA (Jane to Dufferin) and will reconfirm the recommendations from the NVNCTMP and complete Phases 3 and 4 of the Municipal Class EA process for Schedule ' $C$ ' projects as outlined in the MEA guidelines (October 2000, as amended in 2007, 2011 and 2015). Specifically, the Kirby Road Widening EA Study will reconfirm the need to widen Kirby Road from two to four lanes between Jane Street and Dufferin Street, grade separate the Barrie Go Rail line at Kirby Road and eliminate the jog at the intersection of Kirby Road and Jane Street. The study area is shown in Figure 1-1.

The purpose of the Socio-Economic Environment Report is to review previous studies, existing legislative documents, Provincial, Regional, and Municipal standards, By-laws, Official Plans, Secondary Plans, and other related documents including recommendations, conduct an inventory of local businesses within the study area, conduct a land use assessment within the study area, and review future land development.

Figure 1-1: Study Area


## 2 Planning and Policy Context

A summary of the Provincial, Regional, and Municipal planning and policy context is provided in this section as they related to the Kirby Road Widening EA.

### 2.1 Provincial Planning Context

Provincial planning policies, summarized in Table 2-1, were reviewed to identify their relevance to the Kirby Road Widening EA.

## Table 2-1: Summary of Provincial Planning Policies

| Provincial Planning Document | Directions | Impact to Kirby Road Widening EA |
| :---: | :---: | :---: |
| Provincial Policy Statement, Ontario, 2020 | Description: Provides direction on land use planning and development, and the transportation system. <br> Directions: The most relevant land use and transportation policies) include: <br> - 1.6.7.1 Safe, energy efficient, transportation systems that move people and goods and address projected needs <br> - 1.6.7.2 Use of travel demand management (TDM) strategies to maximize efficiency <br> - 1.6.7.3 A multimodal transportation system that provides connections within and among transportation systems and modes including across jurisdictional boundaries <br> - 1.6.7.4 Land use patterns that minimize length and number of vehicle trips to support transit and active transportation <br> - 1.6.8.2 Protect for major goods movement facilities and corridors <br> - 1.6.8.3 New development should be compatible with the long-term purposes of the corridor | The Kirby Road Widening EA will consider projected needs for both people and goods, encourage travel demand management, and consider all travel modes. |


| Provincial Planning Document | Directions | Impact to Kirby Road Widening EA |
| :---: | :---: | :---: |
| Growth Plan for the Greater Golden Horseshoe (GGH), Ministry of Municipal Affairs, 2006, 2013, 2017, <br> 2019 Update | Description: The Growth Plan for the GGH was released on June 16, 2006, and is a long-term plan that aims to: <br> - Revitalize downtowns <br> - Create complete communities <br> - Provide housing options to meet the needs of people at any age <br> - Curb urban sprawl and protect farmland and green spaces <br> - Reduce traffic gridlock by improving access to a greater range of transportation options <br> The June 2013 amendment extended the growth planning horizon to 2041 while the 2016 update identified new intensification targets. <br> Directions: The Growth Plan defines specific policies for where and how to grow, including the identification of defined urbanized areas versus a protected <br> Greenbelt Area. The plan also identifies Urban Growth Centres across the Greater Toronto Area (GTA), Major Transit Station Areas and Intensification Corridors. <br> There has been a 2019 update to the Growth Plan which replaces the 2017 Growth Plan for the Greater | The study area is at the northern boundary of the urbanized area. The future Kirby GO station, located near the intersection of Kirby Road and Keele Street, is dedicated as a Transit Hub under Block 27 Secondary Plan and transit connections to the greater regional rapid transit network will be considered in the study. |


| Provincial Planning Document | Directions | Impact to Kirby Roa Widening EA |
| :---: | :---: | :---: |
| 2041 Regional Transportation Plan updated in 2018 from The Big Move, Metrolinx, 2008 | Description: The Big Move is the Greater Toronto and Hamilton Area's (GTHA's) multi-modal long-range regional transportation plan. Since 2008 this plan has been providing strategic direction for planning, designing and building a regional transportation network that enhances quality of life, environment, and prosperity. <br> Directions: The Big Move sets the context for the GO Expansion project [formerly known as Regional Express Rail (RER)], a frequent all-day, two-way express rail service on existing GO Rail lines with 15 minute frequencies using future electrification infrastructure. <br> In order to support the expanded services, improvement to infrastructure is needed: <br> - Track expansion, including upgrade of existing structures within corridor such as culverts, bridges <br> - Grade separations <br> - Maintenance and storage facilities <br> - Electrification infrastructure <br> - Station Expansion (parking, building, pedestrian access, etc) <br> - New station(s) along corridor that will optimize ridership and minimize delay <br> As of 2018, the 2008 Big Move has been updated to the 2041 Regional Transportation Plan (RTP) | The Kirby GO Station is included as a new station along the Barrie GO Corridor as part of the GO Expansion project with direct access to Kirby Road within the Kirby Road Widening EA study limits (in the vicinity of Kirby Road and Keele Street intersection). The City will work with Metrolinx to implement transit supportive planning around the station, develop sustainable station access solutions, and support the works required for GO Expansion, including planning for grade separation of rail crossings. |


| Provincial Planning Document | Directions | Impact to Kirby Road Widening EA |
| :---: | :---: | :---: |
| Transit- <br> Supportive <br> Guidelines, <br> Ministry of <br> Transportation, 2012 | Description: Identifies best practices in Ontario, North America and abroad for transit-friendly land-use planning, urban design, and operations. <br> Directions: Key directions relevant to the Kirby Road Widening EA include layout and spacing of arterial and collector streets: <br> - Street networks are fine-grained and interconnected to provide efficient transit services and connections to transit stops <br> - Eliminate unnecessary jogs or breaks in the network <br> - Spacing of arterial and collector roads should support a maximum 400 m walk from the interior of a block to a transit stop, and facilitate higher levels of walking and cycling <br> - Access routes to transit stops, such as pedestrian pathways or local roads, should be spaced no greater than 200 m apart. <br> Key directions for planning around major transit station areas include: <br> - A rational progression of facilities from passenger pick up and drop off / bus transfer / parking areas to ticketing and wayfinding, safe and comfortable waiting areas, and finally to transit loading areas <br> - Organize surface parking areas into smaller modules to facilitate defined walking and cycling paths to the stations and also establish future development parcels over time <br> - Prioritize pedestrian access <br> - Limit free surface parking where frequent feeder transit service is available | The Kirby Road widening shall be planned in consideration of the Transit Supportive Guidelines. |
| \#CycleON: <br> Ontario's <br> Cycling <br> Strategy, <br> Ministry of <br> Transportation, <br> 2013 | Description: Identifies a vision for cycling in the province over the next 20 years where cycling is valued as a core mode of transportation. <br> Directions: Key directions relevant to the Kirby Road Widening EA include: <br> - Partner with municipalities to implement Complete Streets policies and develop active transportation plans <br> - Partner with municipalities / transit agencies to integrate cycling and transit <br> - Develop a funding partnership to build provincial and municipal cycling routes, including pilot program funding to gather data and test new ideas <br> - Create comminities that have a built form that supports and promotes cycling for all trips under 5 km | The Kirby Road Widening EA strives to plan for cycling infrastructure and complete communities in accordance with this plan. |


| Provincial Planning Document | Directions | Impact to Kirby Road Widening EA |
| :---: | :---: | :---: |
| Ontario's <br> Climate <br> Change Action <br> Plan | Description: Identifies a five-year plan to fight climate change, reduce greenhouse gas pollution, and transition to a low-carbon economy. <br> Directions: Specific action areas are identified to meet specific greenhouse gas emission reduction targets: <br> - Transportation: Becoming a North American leader in low-carbon and zero-emission transportation <br> - Increase the use of electric vehicles <br> - Support cycling and walking <br> - Support the accelerated construction of GO Expansion project (formerly known as Regional Express Rail) <br> - Land use planning: Support low-carbon communities <br> - Strengthen climate change policies in the municipal land use planning process <br> - Eliminate minimum parking requirements | The implementation of Active Transportation and Travel Demand Management (TDM) to promote sustainable mode of transportation to increase the number of active transportation trips and reduce the number of single-occupancy vehicles will be considered during the alternative analysis. |
| Greenbelt Plan (2005 updated in 2017) | Description: In concert with the Growth Plan, Niagara Escarpment Plan (NEP) and Oak Ridges Moraine Conservation Plan (ORCMP), and further to the PPS, the Greenbelt Plan establishes land use planning framework for the GGH to support a clean and healthy environment, a thriving economy and social equity. <br> Directions: Identifies areas where urbanization should not occur in order to protect the ecological, agricultural, and hydrological land use. Lands identified in the NEP and ORCMP are also included in the Greenbelt Plan. | Kirby Road Widening EA strives to support the achievement of complete communities and community hubs that are conveniently accessible by active transportation and transit. Infrastructure will integrate with land use planning while minimizing environmental impacts in the Protected Countryside of the Greenbelt Area. <br> There is a watercourse crossing east of Jane Street. If this watercourse falls within private land ownership then the Urban River Valley designation and therefore policies set out in Section 6 of the Greenbelt Plan apply. <br> The goals of the Urban River <br> Valley System include: <br> - Protection of natural and open space lands along river valleys in urban areas which will assist in ecologically connecting the rest of the Greenbelt Area to the Great Lakes and other inland lakes |


| Provincial <br> Planning <br> Document | Directions | Impact to Kirby Road |
| :--- | :--- | :--- |
|  |  | Widening EA |

### 2.2 Regional Planning Context

The York Region Official Plan and York Region Transportation Master Plan build upon provincial planning guidance and provide more specific direction on the need for transportation improvements to support growth in the Region, and these documents are summarized in the following.

### 2.2.1 Regional Official Plan (April 2019)

The Regional Official Plan ("The Plan") represents the Region's vision and plan for the way communities are designed, serviced, and supported. The objectives of the Plan include: Sustainable Natural Environment, Healthy Communities, and Economic vitality.

The Plan emphasizes interconnected and accessible mobility systems, with a priority on pedestrian movement, and on transit use and access. Some of objectives related to the widening of Kirby Road include: create an active transportation system and programs that encourage walking, cycling and the use of public transit, provide transit service that is convenient and accessible to all residents and workers of York Region, ensure streets support all modes of transportation including walking, cycling, transit, automobile use, and the efficient movement of goods, plan and protect future urban and rural streets to accommodate transportation demands, and promote a linked and efficient network for goods movement that supports economic vitality and minimizes conflicts with sensitive land uses.

The Plan also developed policies to identify, protect, and enhance the Regional Greenlands System ("The Systems") to ensure a healthy system rich in native biodiversity. York Region's Greenlands are connected to a larger landscape system that stretches across the GTHA, Ontario, and North America. Some of these policies include: achieve ecological gains for the Systems by recommending that enhancements to the Systems as a responsibility to all stakeholders and may include Regional and local greening initiatives, public and private sector partnerships, infrastructure projects and urban development; ensure that infrastructure design and construction be sensitive to the features and functions of the Systems, and include context sensitive design and innovative technologies to minimize impacts and enhance the system. Infrastructure within the system should avoid key natural heritage features and key hydrologic features where possible and shall be subject to the policies of applicable Provincial Plans; and ensure that the planning, design and construction of infrastructure projects within the Systems shall enhance the Systems, including providing passive recreational amenities and environmental restoration where appropriate.

### 2.2.2. Regional Transportation Master Plan (November 2016)

York Region's Transportation Master Plan (YRTMP) Update, 2016 addresses the Region's mobility needs to 2041. It provides a 25 year outlook to:

Create an advanced interconnected system of mobility in the Greater Toronto and Hamilton Area (GTHA) in order to give York Region residents and businesses a competitive advantage, making York Region the best place to live, work and play in the GTHA.

The YRTMP has five objectives:

1. Create a world class transit system
2. Develop a road network fit for the future
3. Integrate active transportation in Urban Areas
4. Maximize the potential of employment areas
5. Make the last mile work

Kirby Road, while currently a City Road, forms part of the Regional concession road grid network. The YRTMP identifies Kirby Road from Highway 27 to Bathurst Street as a candidate to be added to the Regional Road network. In addition, the YRTMP makes specific recommendations for Kirby Road (which extends from Albion Vaughan Road to Dufferin Street in the City of Vaughan) to provide regional east-west connectivity and transportation capacity through or adjacent to the study area including:

- Widening of Kirby Road plus the completion of the Kirby Road missing link
- Designation as a Frequent Transit Network corridor
- Cycling Facilities as a local cycling route of regional significance
- Designation as a strategic goods movement corridor
- Construction of an interchange at Highway 400 and Kirby Road
- Grade Separation at the Barrie GO rail line at Kirby Road

Additional mode-specific details on YRTMP recommendations are provided in the following sections.

## ROAD NETWORK RECOMMENDATIONS

The 2016 York Region TMP update has identified the Regional significance of Kirby Road (currently under jurisdiction of the City of Vaughan) as a frequent transit, vehicular traffic, pedestrian/ cycling, and strategic goods movement corridor. The road phasing and grade separation phasing are scheduled for 2027-2031 as shown in Figure 2-1.

Figure 2-1: 2031 YRTMP Road Network (Source: York Region Transportation Master Plan)


TRANSIT NETWORK RECOMMENDATIONS
As identified in Figure 2-2, York Region is planning for frequent transit service on Kirby Road east of Weston Road within the Kirby Road Widening EA study area. This frequent transit service will connect the development of the New Communities and Highway 400 North Employment Lands to the proposed Kirby GO Station, Vaughan Metropolitan Centre, the rest of Vaughan and the City of Toronto. Frequent Transit Network service is defined as bus service every 15 minutes or less between 6AM and 10PM, seven days a week.

Figure 2-2: 2041 YRTMP Transit Network


CYCLING NETWORK RECOMMENDATIONS
The York Region TMP 2016 recommends cycling infrastructure for a 10-year horizon and for a 25-year horizon. Within the study area and for the 10-year horizon the TMP recommends a Local Cycling Route of Regional Significance (shown in Figure 2-3).

Figure 2-3: Proposed 2041 YRTMP Cycling Network


GOODS MOVEMENT NETWORK RECOMMENDATIONS
York Region's Strategic Goods Movement Network provides a framework for future goods movement within the Study Area. It consists of a hierarchy of corridors, identifying all freeways as Tier 1 (Highway Good Movement Corridors), strategic arterial roads as Tier 2 (Primary Arterial Goods Movement Corridor), such as Kirby Road through the Study Area, and all other roadways as Tier 3 (Secondary Goods Movement Corridors). The Region’s Proposed Strategic Goods Movement Network is illustrated for the Study Area in Figure 2-4.

Figure 2-4: YRTMP Strategic Goods Movement Network


### 2.2.3 Kirby Road Widening Project Sheet

Further to the York Region TMP's mode specific recommendations for Kirby Road, a project sheet in Appendix E to the York Region TMP outlines the problem and opportunity, alternatives considered, and recommendations. It identified the need and opportunity for transportation network improvements to accommodate expansion of the Designated Urban Area. Following the assessment of alternatives the recommendations are to widen the corridor to 4 lanes and construct to an urban arterial standard and realign jogged intersection at Jane Street. These improvements will serve growth in designated built up areas in North Vaughan and elimination of the jogged intersection at Jane Street will improve traffic flow. The corridor is also designated as an Interim Primary Arterial for Goods Movement. Widening provides for continuous 4-lane east-west corridor tying into 19th Avenue to the east with the planned connection of the missing link east of Dufferin Street. There is also an opportunity to improve walking and cycling facilities.

### 2.2.4 Kirby GO Station - Market Driven Approach

On November 29, 2018, the City of Vaughan and York Region received a letter from Metrolinx stating that the Minister of Transportation had asked to assess the status of transit projects and the feasibility of utilizing a Market Drive Approach (Public Private Partnership) to deliver new GO stations. This resulted in a halt on new station work on all new GO stations in the GTHA, including the proposed Kirby GO station in the City of Vaughan. On January 31, 2019, Regional Council made the decision in delivering Kirby GO station by a Market Driven Approach and that

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opportunities to pursue this approach will be investigated in conjunction with the Transit Hub Special Study and related Environmental Assessments.

### 2.3 Municipal Planning Context

### 2.3.1 City of Vaughan Official Plan

The Vaughan Official Plan (VOP) 2010 is the result of an extensive consultation and review process. The Plan was adopted by City Council on September 7, 2010, and was subsequently modified by City Council on September 27, 2011, March 20, 2012 and April 17, 2012. The Plan was endorsed by Regional Council on June 28, 2012. VOP 2010 is part of a Growth Management Strategy "that will shape the future of the City and guide its continued transformation into a vibrant, beautiful and sustainable City."

The following policies, with VOP 2010 references in brackets, are of relevance to the study area:

- To establish a comprehensive transportation network that allows a full range of mobility options, including walking, cycling and transit (4.1.1.1).
- That the street network will be the basis for enhanced transportation opportunities, including transit, walking, cycling, and place making initiatives. Existing rights-of way should be designed to optimize the efficient movement for a variety of modes, potentially resulting in reduced capacity for cars where overall capacity increases can be achieved (4.1.1.5).
- To support the development of a comprehensive network of on-street and off-street pedestrian and bicycle routes, through the implementation of the City's Pedestrian and Cycling Master Plan and York Region's Pedestrian and Cycling Master Plan; and to facilitate walking and cycling and to promote convenience and connectivity (4.1.1.6).
- To plan for a street network that prioritizes safe and efficient pedestrian travel while effectively accommodating cyclists, transit and other vehicles, and to create more pedestrian and transit-friendly street cross-sections (4.2.1.2).
- To provide a minimum of 2 north / south and 2 east / west collector streets in new development where feasible, including grade-separated crossings of 400 -series highways and rail corridors. The purpose of these streets will be to provide for local travel between and within concession blocks without the necessity of traveling on arterial streets and to provide effective routing for transit vehicles. (4.2.1.23)

The majority of the Volume 1 and 2 policies were approved by LPAT Orders (PL111184) on the following dates: August 8, 2013, December 24, 2013, February 21, 2014, October 17, 2014, and March 25, 2015.

Schedule 9 and Schedule 10 in the VOP 2010 identify the City's Future Transportation Network and Major Transportation Network, respectively. It is noted that these schedules were developed prior to the completion of the 2016 York Region TMP, and as such, incorporate Regional plans based upon the previous version of the York Region TMP. Kirby Road is under the jurisdiction of the City and is identified as a 36 m wide minor arterial road, as shown on

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Schedule 9 "Future Transportation Network" of VOP 2010. Some of the key transportation improvements related to the study area or adjacent to it include:

- Completion of the Kirby Road missing link between Dufferin Street and Bathurst Street.
- Jog elimination at Jane Street and Kirby Road,
- Grade separation along the GO Rail Barrie Corridor at Kirby Road subject to coordinated studies by Metrolinx, York Region and the City
- Kirby GO Station


### 2.3.2 Green Directions Vaughan 2009

Green Directions Vaughan is the City's community sustainability and environmental master plan. It identifies actions to ensure the health, well-being and vitality of the community. In relation to the Kirby Road Widening EA, this plan provides direction to ensure that getting around Vaughan is easy and has a low environmental impact as identified in the following two key objectives:

- Objective 3.2 To develop and sustain a network of roads that supports efficient and accessible public and private transit
- Objective 3.3 Reduce Single Occupant Vehicle trips by supporting active transportation, car pooling and public transit

The Kirby Road Widening EA will look to promote sustainable and active transportation in accordance with Green Directions Vaughan.

### 2.3.3 City of Vaughan Transportation Master Plan 2013: A New Path

The Vaughan Transportation Master Plan (VTMP) identifies City-wide transportation needs to the year 2031, including local improvements, strong Regional investments in transit service, and arterial road improvements, sidewalks, on-street and off-street bicycle facilities, and a mix of land uses. Within the study area the timing of recommended improvements identified in the VTMP varies from the YRTMP recommendations given more up-to-date information on timing of development. As an example, the timing for the Kirby Road widening (from 2 to 4 lanes) and the missing link between Keele Street and Bathurst Street is 2021 as per the VTMP versus 2031 as per the YRTMP. It should be noted that the VTMP is currently being updated.

### 2.3.4 City of Vaughan Pedestrian and Bicycle Master Plan

The City of Vaughan adopted the Pedestrian and Bicycle Master Plan in January 2007 and is currently being updated. The Plan has a 20-year horizon. The central intent is to guide improvements to existing and proposed pedestrian and cycling infrastructure in order to create a friendlier environment for residents. The two central goals of the plan are:

- To create new environments and enhance existing ones for both pedestrians and cyclists in the City of Vaughan. These environments should be supported by developing a visible and connected pedestrian and cycling network in Vaughan that integrates, enhances and expands the existing on- and off-road pedestrian and cycling facilities.
- To facilitate an increase in walking and cycling for leisure and utilitarian purposes.

Cycling facilities in the study area were initially identified in the City's Pedestrian and Bicycle Master Plan and more recently updated for the City-wide TMP.

The Pedestrian and Bicycle Master Plan update endorses the Vaughan Super Trail, a signature active transportation facility that links communities to one another, and increases accessibility for residents and visitors alike to important cultural, natural, heritage, and public space destinations. The Vaughan Super Trail is proposed to run east-west direction located south of the Kirby Road Widening EA corridor. No cycling facilities are, however, identified on Kirby Road Widening EA corridor as shown in Figure 2-5. However, the City of Vaughan policy is to explore active transportation facilities on all arterial roads and this study will explore the need for cycling facilities on Kirby Road.

Figure 2-5: Pedestrian and Cycling Master Plan Update


### 2.3.5 North Vaughan and New Communities Transportation Master Plan (NVNCTMP)

The North Vaughan and New Communities Transportation Master Plan (NVNCTMP) is a longrange plan that supports policies, programs and infrastructure required to meet existing and future mobility needs and provide context for transportation decisions within North Vaughan. The primary and overall study areas are shown in Figure 2-6 .

Figure 2-6: NVNCTMP Primary and Overall Study Area


The objective of the plan is to look at both internal and external factors that contribute to achieving sustainable transportation for residents and businesses while ensuring recommendations of the plan address the transportation network needs from immediate to future growth. The NVNCTMP has satisfied the Phases 1 and 2 of the Municipal Class EA process and recommended completion of an Environmental Assessment Study for Kirby Road from Jane Street to Dufferin Street to satisfy Phase 3 and 4 of the Class EA to address the NVNCTMP recommendations for grade separation at Barrie GO railway, jog elimination at Kirby Road intersection at Jane Street, active transportation improvements, and widening Kirby Road from two to four lanes within a 36m right-of-way to support Block 27 development and the future Kirby GO station.

### 2.3.6 Block 27 Secondary Plan

The NVNCTMP was conducted in parallel and in close coordination with the secondary plan study for the New Community Area of Block 27, bound by Teston Road to the south, Keele Street to the east, Kirby Road to the north and Jane Street to the west. The Secondary plan was adopted by City Council in September 2018. This secondary plan study, subject to modifications, was approved by York Region Council in April 2019.

Figure 2-7: Block 27 Study Area


Source: City of Vaughan - North Vaughan and New Communities Transportation Master Plan
Block 27 is planned to have a mix of low and mid-rise buildings with a blend of residential, commercial and institutional uses. It will be anchored by Kirby GO - Transit Hub Centre that has schools, community facilities, and a transit hub with the future Kirby GO station in the north-east quadrant, as proposed by Metrolinx's GO Expansion project (formerly known as Regional Express Rail ) 2025 and as planned through the Block 27 Secondary Plan by the City.

In addition to the projected growth from the Secondary Plan and the demand generated by the GO Station, this Kirby Road Widening EA study will also need to consider the proposed street connections identified in Figure 2-7, including Street 4, Street 5, Street 6, and a potential access for the Kirby GO Station between the Barrie GO Line and Keele Street.

### 2.3.7 Highway 400 North Employment Lands Secondary Plan

The Highway 400 North Employment Lands Secondary Plan area (Figure 2-8) is bound by Teston Road on the south, Weston Road on the west, King-Vaughan Road on the north and Jane Street on the east. It is just west of the study limits of Kirby Road Widening EA.

Figure 2-8: Block 34 and 35 Plan (Schedule 2D to OPA 450)


The Secondary Plan area has many environmental features and shows future employment areas, mid-block linkages, the Region's widening of Weston Road and Jane Street for transit and active transportation facilities, interchanges at Kirby/Hwy 400 and King- Vaughan/Hwy 400 and potential GTA West Highway Corridor. The plan identifies lands primarily for prestige areas, prestige office and business campuses and general employment areas, with some lands designated as low rise residential and Employment / Commercial mixed use areas.

### 2.3.8 Kirby Road Extension Municipal Class Environmental Assessment

The City of Vaughan completed a Schedule 'C' Municipal Class EA study for the extension of Kirby Road between Dufferin Street to Bathurst Street. The study is referred to as the Kirby Road Extension EA and the Environmental Study Report (September 2019) prepared for the project documents the analyses of the various alignments for the extension. The new roadway (Figure 2-9) is recommended to include a four-lane roadway, a crossing over the significant environmental features within the Oak Ridges Moraine Conservation Plan area and active transportation facilities.

Figure 2-9: Kirby Road Extension EA - Refined Preferred Alternative


Figure 2-10 illustrates the lane configuration for the preferred alternative for the intersection of Kirby Road at Dufferin Street (the eastern study limits of this Kirby Road Widening EA) which will inform the baseline future conditions to be assessed in this Kirby Road Widening EA study.

Figure 2-10: Kirby Road at Dufferin Street Lane Configuration


### 2.3.9 Kirby GO Transit Hub Sub-Study

In early 2016, the City initiated the Kirby GO Transit Hub Sub-Study as an extension of NVNCTMP and the Block 27 Secondary Plan. The purpose of the Kirby GO Transit Hub SubStudy was to develop a vision, based on a robust planning rationale, which will direct future development of the transit hub and integration with the rest of Block 27 and surrounding areas. Key findings from this study were carried forward to the recommendations for the Kirby GO Station documented in NVNCTMP Appendix F. This includes the grade separation of Kirby Road at the Barrie GO Rail line and preliminary recommendations to accommodate a GO Station access at Kirby Road.

## 3 Land Use Assessment

Land uses adjacent to Kirby Road through the study limits are currently rural with residential properties. East of Jane Street there are two residences located north and south of Kirby Road that each have two direct access points to Kirby Road. The residential properties between Keele Street and Dufferin Street have access to Kirby Road through the local street network. Properties on the south have access at Ravineview Drive, Foot Hills Road and Laurentian Boulevard, and the property on the north through Radha Drive. There are no residential properties that directly front onto Kirby Road between Keele Street and Dufferin Street.

Figure 3-1 shows the land use designation along the corridor and surrounding area as listed in the Vaughan Official Plan. Please refer to Schedule B of the New Community Area - Block 27 Secondary Plan for more detailed land use designation south of Kirby Road, between Jane Street and Keele Street.

Figure 3-1: Land Use - Schedule 13 Official Plan (2019)


A land use survey was also undertaken by the study team in December 2019. During the survey both agricultural and other land uses were identified. The survey indicated that the Study Area land use comprises of built up/disturbed areas, common field crop production, forage/pasture lands, recreational areas (Golf Course - Carrickmacross West), linear corridors (roads/rail) and woodlands. The south-eastern portion of the Study Area (south of Kirby Road and east of Keele Street) is predominantly urban land use with some woodland areas. The western portion of the Study Area (west of Keele Street) comprises agricultural lands, a golf course, scrub lands, woodlands and commercial/industrial areas. The commercial/industrial lands are limited to the area located north of Kirby Road, west of Keele Street and east of the rail line. These lands
include a car dealership, restaurants (Tim Horton's and A\&W), gas station with car wash and a transportation/trucking company (Grant Global Logistics). The lands east of Keele Street and north of Kirby Road comprise a mix of agricultural lands, woodlands and scrub lands. The predominant agricultural land use on the Study Area lands is the production of common field crops (corn and soybean). Figure 3-2 illustrates the land use designations and land use definitions within the study area.

Figure 3-2: Land Use within the Study Area


### 3.1 Inventory of Local Businesses

Local businesses directly abutting the Kirby Road right-of-way were identified as shown in Figure 3-3. There are four local businesses on Kirby Road including North Maple Park Soccer Fields, Carrick Macross Golf, Mid Ontario Truck, and a lot including Tim Hortons/ A\&W Canada/ Petro-Canada. All businesses have direct access from Kirby Road with Tim Hortons having a secondary access on Keele Street.

Figure 3-3: Local Businesses within the Study Area


### 3.2 Future Development

This section includes all the planned future developments within and on the boundary of the study area as of February 2019.

### 3.2.1 Areas Subject to Site Specific Plans

As approved by the Ontario Municipal Board on October 3, 2013, specific uses are permitted on Area $A$ and Area $B$ shown for Site 17 (see Figure 3-4 and Figure 3-5).

These uses include an Automobile Gas Bar, an Automobile Service Station, and Eating Establishment Convenience for Area A and Places of worship, Institutional uses, and Transportation and Industrial Uses for Area B. Area A is constructed occupied as noted previously. Area B lands are partially occupied with Transportation and Industrial uses.

Figure 3-4: Site 17


Source: City of Vaughan - Official Plan (2019) https://www.vaughan.ca/projects/policy planning projects/General\%20Documents/Official\%20Pla n\%20Vol\%202/Volume\%202\%20November\%20 2019/VOP\%202010\%20Volume\%202 Chapter\% 2013\%20Sept.\%2025\%202019.pdf

Figure 3-5: Schedule 14-C - Areas Subject to Site Specific Plans


* See Minister's Decision on ORMCP Designation

Source: City of Vaughan - Official Plan (2019)
https://www.vaughan.ca/projects/policy planning projects/General\%20Documents/Officlal\%20Plan\%20Vol\%201/Current\%20VOP\% 202010\%20Schedules/VOP\%202010\%20Consolidated\%20Schedules\%20Nov\%2021\%2019.pdf

### 3.2.2 Highway 400 North Employment Lands

The Highway 400 North Employment Lands Secondary Plan area is bound by Teston Road on the south, Weston Road on the west, King-Vaughan Road on the north and Jane Street on the east. It is just west of the study limits of Kirby Road Widening EA. Refer to Section 2.3.7 for more information.

### 3.2.3 Block 27 Community Area

The City of Vaughan adopted the Block 27 Secondary Plan to provide for the development of a new residential community (Section 2.3.6). At the time of writing of this report the Block 27 Landowners Group is currently in Phase 1 of initiating the application process and draft block plan development to revise and finalize Terms of References for this block plan based on City of Vaughan comments. Formal development application to follow once the Terms of Reference is finalized. New Community Area - Block 27 is located between Kirby Road to the north, Keele Street to the east, Teston Road to the south and Jane Street to the west (shown in Figure 3-6). It has an area of approximately 400 hectares ( 990 acres) made up almost entirely of rural lands. The Block includes a reach of the West Don River and an additional central tributary of the West Don which is included in the Provincial Greenbelt Plan. The TransCanada Pipeline Canadian Mainline also crosses the north portion of the block in an east-west direction, while the GO Rail Line runs north/south west of Keele Street. As well, the hamlet of Teston is located at the northeast corner of Jane Street and Teston Road. Block 27 community area will include a mix of
uses, such as commercial, low- and mid-rise residential housing, and community facilities such as schools and parks ${ }^{1}$.

Figure 3-6: Block 27 Study Area


Source: City of Vaughan - New Community Area - Block 27 https://www.vaughan.ca/projects/policy planning projects/Pages/New-Community-Area---Block-27.aspx

[^5]
## 4 Summary

This report includes a review of previous studies, existing legislative documents, Provincial, Regional, and Municipal standards, By-laws, Official Plans, Secondary Plans, and other related documents including recommendations, an inventory of local businesses within the study area, a land use assessment within the study area, and review future land development within the study area. The next phase of the study will include streetscape designs that promote active transportation and address the needs of all users with priority to non-auto-based modes of travel and attention to the pedestrian realm. During the evaluation of alternatives a review of emergency access, property requirements, quality of life (health and safety), travel time impacts, as well as impacts of heavy truck traffic will also be conducted. Considerations will also be given to community cohesiveness and aesthetics.


[^0]:    Source: Kirby Road Extension Municipal Class Environmental Assessment Environmental Study Report, Appendix D, Rizmi

[^1]:    - Cars

[^2]:    日 - Cars

[^3]:    ${ }^{1}$ NACTO, Urban Street Design Guide: https://nacto.org/publication/urban-street-design-guide/intersection-design-elements/crosswalks-and-crossings/

[^4]:    2 https://www.york.ca/wps/wcm/connect/yorkpublic/60a9e25c-506f-4362-a924-
    f4c77935ea92/DGS_3.3_ConnectorTypology.pdf?MOD=AJPERES\&CVID=mYuSqOc (Page 11, Table 2)

[^5]:    ${ }^{1}$ Source: https://www.vaughan.ca/projects/policy planning projects/Pages/New-Community-Area---Block-27.aspx

