Red Hook Traffic and Truck Study

Status Update/Public Meeting #2

December 7, 2023
Meeting Agenda

• Introduction (Goals, Study Process, Study Area)
• Public Outreach
• Data Collection/Findings
• Coordination Efforts
• Next Steps
• Discussion
Study Goal and Objectives

Goal - Improve travel conditions for all street users (motorists, cyclists, and pedestrians), while enhancing safety and the quality of life for residents in the area.

Objectives

• To evaluate existing and future traffic conditions and develop quantitative measures to assess the effect of truck traffic
• To facilitate extensive public participation through TAC and public meetings / workshops-web portal
• Generate recommendations & develop improvement measures to address community concerns, reduce congestion, facilitate other modes of travel and enhance safety
• To coordinate various projects/initiatives in the study area
Study Process/Status

Study Initiation & Draft Scope of Work

Review of existing studies/projects/plans

Data Collection

Community Input

Existing Conditions Analysis 2022 – 75% Complete
Problem Identification

Future Conditions Analysis 2032 (Long Term Recommendations)

Develop and Evaluate Improvement Measures

Draft Report

Final Report

Outstanding Tasks
- Parking Survey
- Summer Data Analysis
- Trip Generation Survey

Feedback

Project Development, Design, and Implementation

We Are Here
Major Projects/Initiatives/Concerns

- BQE Vision Corridor (BQE)
- Red Hook Coastal Resiliency
- Brooklyn Waterfront Greenway (BWG)
- Last Mile Distribution Center
- Columbia Street Capital Project
- 3rd Avenue Safety Study
- Brooklyn Cruise Terminal
Zoning & Land Use
Public Outreach

• Public Meeting #1 (March 2023)
• Public Meeting #2 (Dec 7. 2023)

Field Surveys

• Travel Needs Survey (July 2023)
  • 8 locations over 4 days – 372 Responses
• IBZ Curb Usage Survey (Oct. 2023)
  • 16 Square Blocks covered – 50 Responses

Online Surveys

• Web Portal (Ongoing) - 77 Responses
• Online Survey (Complete) – 243 Responses
Web Portal – Issues (77 Comments)

- Complex intersections @Container Port Entrance
- Desired Completion of protected bike/Greenway route
- High volume of commercial vehicles often off-route
- BQE Bypass traffic on local streets
- Difficult crossings
- Difficult crossing
- High Activity Curb Usage Conflicts with Bike, Ped and Vehicle access
What We’ve Heard

From Community Forums, Previous Studies, Agency Coordination (TAC)

Truck Related Issues

• Safety, Air Quality, Noise
• Alternative Truck Routes
• Better Truck Enforcement (Oversized Vehicles)
• Better Signage (Off Route Trucks)

Pedestrian Safety

• Hamilton Avenue (Court St, 9th St)
• Van Brunt (@ Pioneer, Sullivan and Wolcott)
• Clinton St (@ Hamilton, Lorraine and Bay)
• Columbia (@ West 9th, Lorraine, Bay)
• Richards St (@ Sullivan and Wolcott)
Focus Topics

- Traffic Analysis
- Truck Analysis
  - Last Mile Distribution Centers
    (Trip Generation Surveys)
- Crash/Safety
- Bikes
- Pedestrians
- Transit
Data Collection Plan

Peak Hours
AM: 8am-9am
MD: 11am-Noon
PM: 4pm-5pm
Sat MD: 1pm-2pm
Data Collection Plan – Summer (Community Request)
Corridor Speeds – AM Peak Hour

Travel Speed Corridors
- Van Brunt St
- Columbia St
- Clinton St
- Lorraine St
- Bay St
- Beard St
- Hamilton Ave

Speed
Min: 10.1 MPH
Max: 19.9 MPH
Avg: 14.7 MPH
Traffic Volume – AM Peak Hour

- Highest Volume on Hamilton Ave
- Local Streets vary from 100 to 400 vehicles
Traffic Analysis – AM Peak Hour LOS

- 3 Intersections with LOS D/E/F
- 12 Approaches LOS E/F
- All LOS issues occur on Hamilton Ave
Truck Volume – AM Peak Hour

- Highest Truck Volume on Hamilton Ave
- Local Streets vary from 10 to 35 trucks
- Varies from 8% - 20% of total traffic on the corridor

XX
- Truck Volume
- Through Truck Route
- Local Truck Route
Truck and Van Traffic – Van Brunt Street

Percent Truck and Van Traffic (Van Brunt St)

<table>
<thead>
<tr>
<th>Time Period</th>
<th>Truck (%)</th>
<th>Van (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM (8-9)</td>
<td>7.8%</td>
<td>9.1%</td>
</tr>
<tr>
<td>MD (11:00am-Noon)</td>
<td>7.8%</td>
<td>20.8%</td>
</tr>
<tr>
<td>PM (4:15-5:15)</td>
<td>5.2%</td>
<td>5.1%</td>
</tr>
<tr>
<td>Saturday MD (1-2)</td>
<td>2.3%</td>
<td>2.8%</td>
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</table>
Truck Trips to Red Hook - Trip Origin within New York City

- Medium duty truck (i.e., box trucks and parcel carrier trucks) trips destined for the Red Hook area have localized origins in Brooklyn, Long Island City in Queens, South of 60th St in Manhattan, and the West Shore of Staten Island.

- Nearly 80% of medium duty truck trips traveling to Red Hook originate in some part of Brooklyn.
Truck Trips From Red Hook - Trip Destination within NYC

- 64% of medium duty truck trips are destined for locations within Brooklyn and 14% are destined for Staten Island.

- Most medium duty truck trips are bound for neighborhoods with a high concentration of commercial, industrial or manufacturing related uses including Sunset Park, Downtown Brooklyn, Red Hook, Williamsburg, Bay Ridge and the North Shore of Staten Island.

- Approximately 6% and 2% of medium and heavy truck trips that start in Red Hook respectively, also end within the Red Hook area.

Medium duty trucks traveling from Red Hook provide goods and services to many neighborhoods within Brooklyn, Lower Manhattan, Staten Island and portions of Western Queens.
Crash/Safety Data

- 2 Fatalities from 2017 to 2023
- 1 Vision Zero Corridor (Court St)
- 1 Vision Zero Intersection (Court St @ Hamilton Ave)

Source: NYPD
Crash/Safety Data

Study Area Injuries (170 intersections)

<table>
<thead>
<tr>
<th>Year</th>
<th>Motor Vehicle</th>
<th>Bike</th>
<th>Pedestrians</th>
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<tbody>
<tr>
<td>2020</td>
<td>88</td>
<td>9</td>
<td>8</td>
</tr>
<tr>
<td>2021</td>
<td>132</td>
<td>15</td>
<td>12</td>
</tr>
<tr>
<td>2022</td>
<td>105</td>
<td>15</td>
<td>17</td>
</tr>
</tbody>
</table>

Source: NYPD

Injuries/Year
Work Trips – Origin and Destination (24 hours)

- Demographics (90% Complete)
  - 2020 Population: 15,880
  - 40% in Red Hook Houses
  - 21% of residents work in the study area

- Land Use (90% Complete)
  - 60% Industrial
  - 20% Residential
  - 20% Parks

- Brooklyn is the dominant origin and destination of work trips
- Approximately 21% (1K) of residential workers work in Red Hook

Source: Census (CTPP)

<table>
<thead>
<tr>
<th>Destination In</th>
<th>Destination Out</th>
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<tbody>
<tr>
<td>Bk/Rockland/Westchester/Conn</td>
<td>50</td>
</tr>
<tr>
<td>Mn.</td>
<td>150</td>
</tr>
<tr>
<td>Queens</td>
<td>2500</td>
</tr>
<tr>
<td>Bk.</td>
<td>100</td>
</tr>
<tr>
<td>S.I.</td>
<td>100</td>
</tr>
<tr>
<td>N.J.</td>
<td>100</td>
</tr>
<tr>
<td>Nassau/Suffolk</td>
<td>50</td>
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- 13500 Work Trips In. 6000 Work Trips Out.
Work Trips by Mode (2020)

- Walk/Bike is nearly 3 times the average of Bk and NYC
- Work from Home is also high in the study area

Source: Census
Bike Routes and Citi Bike Trip Origin (August 2023)

- 20 Citi Bike Stations, 13,000 Monthly Trips
- Highest Trip Starts occur on Van Brunt and On Columbia St
Pedestrian Volume - PM Peak Hour

- Highest Pedestrian Volume on Hamilton Ave @ 9th St
- Lorraine St @ Columbia St is second highest location
Transit

• Three existing bus lines; B61, B57, B37

• Closest subway station is F/G at Smith and 9th Street and the R at Prospect Ave.

• MTA Brooklyn Bus Redesign (Proposed):
  • B27 (new) replaces B57 in Red Hook to Downtown Bk.
  • B81 (new) from Red Hook to Kensington/Midwood
Coordination/Meetings with Elected Officials/Agencies

- **Last-Mile Distribution Centers** - CM Aviles Community Forum (6/23/22)
- **Brooklyn Bus Redesign** - CB6 Workshop (1/26/23)
- **NYC Parks Red Hook Recreation Facilities** - Construction Update (5/17/23)
- **BQE Corridor Vision Workshops**
  - Round 2 (3/2/23)
  - Round 3 (10/30/23 - 11/8/23)
- **3rd Ave Safety Study**
  - Workshop (4/27/23)
  - Presented to CB7 Transportation Committee (11/2/23)
- **Red Hook Coastal Resiliency (RHCR)**
  - 60% Design (6/16/22)
  - 90% Design (11/1/23)
Next Steps

• **Existing Conditions** (75% Complete)
  • Parking Surveys
  • Summer Data Analysis
  • Trip Generation Surveys

• **Future Conditions Analysis**

• **Recommendations**

• **Public Meeting #3**
Questions!

Project Portal, Feedback Map and Study Documents:
https://nycdotprojects.info/project/red-hook-traffic-and-truck-study

Contact: redhookstudy@dot.nyc.gov