Red Hook Traffic and Truck Study

Kickoff Meeting

March 14, 2023
Red Hook Traffic and Truck Study

Agenda

• Study Background
• Study Area Boundaries
• Goals & Objectives
• Study Process & Areas of Analysis
• Public Outreach / Coordination with Other Agencies
• Next Steps
Red Hook Traffic and Truck Study

A Policy and Program Framework

NYC Streets Plan
December 1, 2021

Delivering Green: A vision for a sustainable freight network serving New York City
December 2021

Gowanus: A Framework for a Sustainable, Inclusive, Mixed-use Neighborhood
June 2019

Borough Pedestrian Safety Action Plans
UPDATE

Red Hook
A Plan for Community Regeneration
Moving People & Goods: 
Freight Mobility: Truck Traffic, Marine, Rail

Marine freight demand measures should be encouraged to reduce truck traffic throughout the city and in Red Hook.

- Off-Hour Deliveries
- Truck Route Management
- Expand Loading Zones
- Conflict reducing designs
- Commercial Cargo Bike Program
- Truck Safety Education, Outreach, & Partnerships
- Truck Electrification
- Blue Highways
- Micro-distribution Hubs

Manage Demand
Enhance safety, network connectivity & curb access
Promote sustainable last-mile delivery ecosystem
Stakeholders

City Agencies
NYCDOT, NYSDOT, DCP, EDC, DEP, Parks, DOHMH

NYNJ Port Authority

Elected Officials
Congress, State Senate, Assembly Members, Brooklyn Borough President Office, City Council

Community Organizations
NGOs / Not for Profits

Community Boards (CB6/CB7)

Manufacturing & Industrial Businesses

NYMTC - RTP
Study Area – Regional Context
Traffic Study Area

- Red Hook Channel
- Buttermilk Channel

CD6
CD2
CD7

Study Area
Community District
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
Areas of Analysis / Elements of the Study

- Traffic Analysis
- Existing Zoning and Land Use
- Trucks and Goods Movement
- Parking
- Demographics
- Crash/Safety
- Pedestrians and Bikes
Demographic Analysis

- Population
- Household Size
- Household Income
- Vehicle Ownership
- Journey to Work
- Employment

Sources: Census/CTPP
Existing Zoning and Land Use

Use, Density and Trip Generation Characteristics

- **Zoning** (Zoning Districts & Recent Rezoning)
- **Land Use** (Residential, Commercial, Industrial / IBZ)
  - Trip Generation, Institutional, Community Facilities, LMDC
Last Mile Development in Red Hook & Sunset Park, Brooklyn

1. **55 Bay Street** – Amazon - 83,000 SF
2. **270 Richards** – Amazon – 305,000 SF
3. **640 Columbia** – Amazon – 336,000 SF
4. **722-750 Court** – RXR – TBD
5. **50 21 Street** – SIP Holdings – 1.3 Mil SF
6. **73 20 Street** – Bridge Industrial – 47,280 SF
7. **64 20 Street** – Bridge Industrial – 218,566 SF
8. **202-240 Coffey St** – UPS – 1.2 Million SF
9. **63 Ferris/145 Wolcott** – Cushman & Wakefield – 379,000 SF

Source: DCP Brooklyn Office, February 2023
Traffic Data Collection

• ATRs & Video Turning Movement Counts
  • Classifications – Auto, Commercial Van, Box Truck, Medium Truck, Tractor Trailer, Bus

• Pedestrian/Bike Counts

• Travel Speed

• Signal Timing

• Street Inventory (Geometry)

• Other Sources:
  • INRIX, STREETLIGHT, DOT TIMS, NYSDOT (AADT), MTA Bus Travel Time, GPS, ATRI, Truck Travel Time
Traffic

Traffic Analysis

• Traffic Capacity Analysis - AM & PM Peak Hours
  • Level of Service (LOS)
  • Intersection Delays

• Trip O/D (Generation / Distribution / Assignment)

• Corridors Travel Time/Speed
Pedestrians & Bicycles

Safety, Performance, Accessibility

**Pedestrian**
- Crosswalk Analysis (LOS- Ped/sq ft)
- Safety Issues at Intersections & along Corridors

**Bicycles**
- Bike Network / Greenways
- Existing Facilities & Needs
Goods Movement/Truck Traffic

Truck Needs/Activity/Compliance

- Truck Routes (Through & Local)
- Manufacturing Uses
- Commercial Corridors
- Loading & Unloading
- Curb Utilization
- Truck Safety
Last Mile Distribution Centers
Trip Generation Study/Surveys

Examine various types of facilities to determine potential effects

• Video Survey – 24 Hours
• Number & type of trips
• Temporal distribution of trips
• Origin/Destination

FedEx Maspeth Facility – 2019 Survey

55 Bay St – Amazon Flex (opened 2021)

270 Richards St – Opened 2022
Crash/Safety Analysis

Location, Frequency and Characteristics

- Crash History (3 most recent years)

- Vision Zero Priority Intersections, Corridors and Areas
  - Court Street Corridor
  - Court Street @ Hamilton Ave

- Types of Crashes, Frequency, and Severity

- Fatalities/High Crash Locations
Parking Analysis

On/Off Street Parking

- **On Street Parking** (along major and commercial corridors)
  - Parking Regulations
  - Parking Supply & Demand
  - Price Structure
  - Truck Parking

- **Off Street Parking**
  - Lots/Garages, Event Parking
  - Capacity, Utilization, & Price Structure
Public Transit / MTA Bus Network Redesign Process

Bus, Subway & Others

- Bus Ridership & Frequency
- Bus Stops, Transfer Points
- Bus Travel Time
- Subway Ridership & Stations
- Coordinate transit activities with MTA/NYCT
- Other Modes (Ferry, Commuter Van, Taxi)
Means of Community Input - Concerns, Issues & Ideas

- Public Meeting
- Technical Advisory Committee
- Community Board
- Last Mile Working Group
- Public Engagement Unit Survey/ Workshops
- Elected Officials
- Web Portal / Email
What We’ve Heard

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

Evaluation of Halleck Street and Conover/Bowne St as Potential Truck Routes

Truck Related Issues

- Safety
- Air Quality
- Building Structural Integrity
- Noise

Need for Truck Enforcement and Better Signage

- Oversized vehicles
- Off-Route Trucks

Pedestrian Safety

- Difficult crossing 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)

Environmental and Social Justice

Red Hook is home to a large population of residents of public housing, with a lower median income than city average. Advocates have suggested that the concentration of distribution centers near public housing raises traffic safety, environmental justice and equity concerns. (source DCP)
Ongoing/Planned Studies & Projects - Context

• Red Hook Coastal Resiliency Project
• BQE Corridor Vision
  * Upcoming Workshops: 3/21/23 & 3/30/23
• Brooklyn Bus Network Redesign
• 3rd Ave Study/Project
  * Upcoming Workshops: 4/18/23 & 4/27/23
• Harold Ickes Skate Park
• NYC Parks 5 Phased Reconstruction
• Water Tunnel #3 Construction (Hamilton Avenue)
• Brooklyn Greenway
• Gowanus Neighborhood Plan/POA
• Columbia Street Reconstruction Area (Capital)
• 3rd Avenue Reconstruction (Capital)
Major Initiatives

IKEA
Greenway
Pedestrian Safety
Gowanus Neighborhood Plan
Resiliency Project
Capital Reconstruction
3rd Ave Study/Project
Study Timeline

Draft Scope of Work & Kickoff TAC Meeting

Complete Data Collection

Complete Existing Conditions Analysis

TAC Mtg #2 Public Mtg #2

Complete Future Conditions Analysis & Recommendations

TAC Mtg #3 Public Mtg #3

Draft Final Report

We are Here

Oct - Dec 2022
Mar 2023
May 2023
Sept 2023
Sept - Nov 2023
Jun 2024
Jun - Sept 2024
Oct 2024

Amendment: Continuous data collection for seasonal variation
Thank You!

Discussion

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

Contact: redhookstudy@dot.nyc.gov