

# East Side Coastal Resiliency Construction Update

East River Neighbors

In-Person

May 16, 2023



Mayor's Office of  
Resiliency

# Highlights

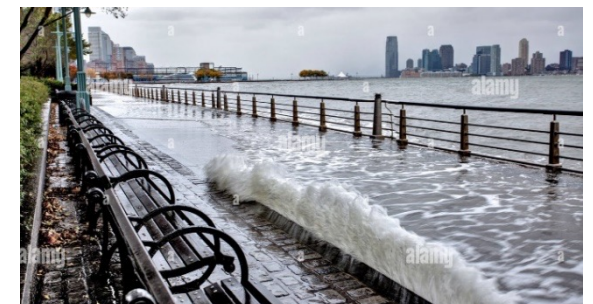
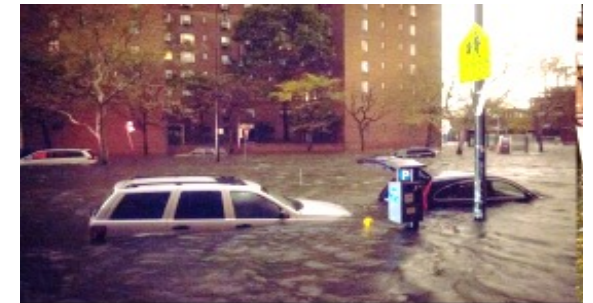
- Project Need
- Project Resources
- Environmental Compliance
- Overview of Contracts
  - PA2 Construction Progress
  - PA1 Construction Progress
  - PC Construction Progress



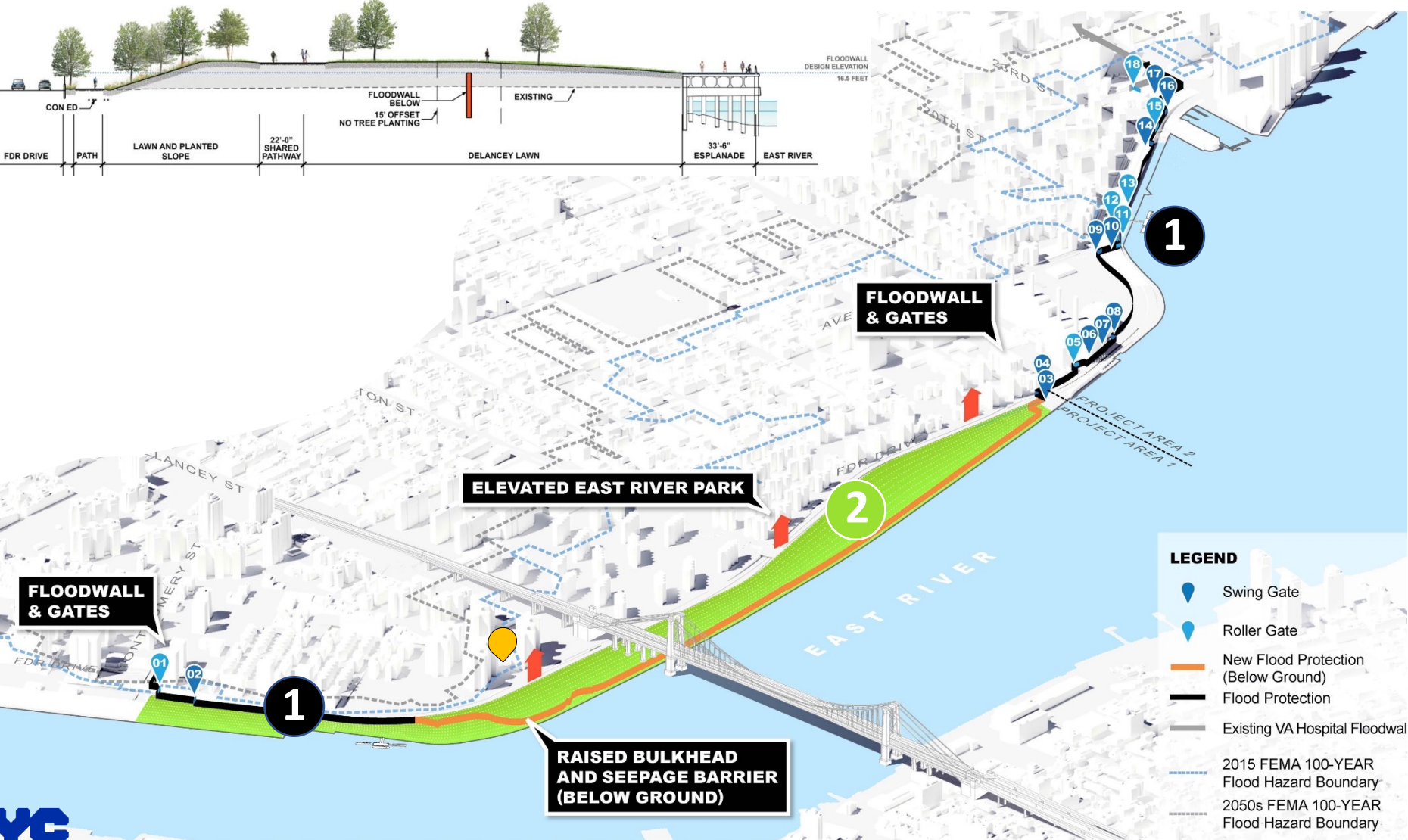
# ESCR | Project Need



2012 Hurricane Sandy, NYC



# ESCR | Flood Protection



The elements of ESCR's INTEGRATED flood protection :

- 1** Floodwalls & Floodgates
- 2** Raised Parkland
- 3** Interior drainage improvements (throughout project area)



# ESCR | Project Benefits

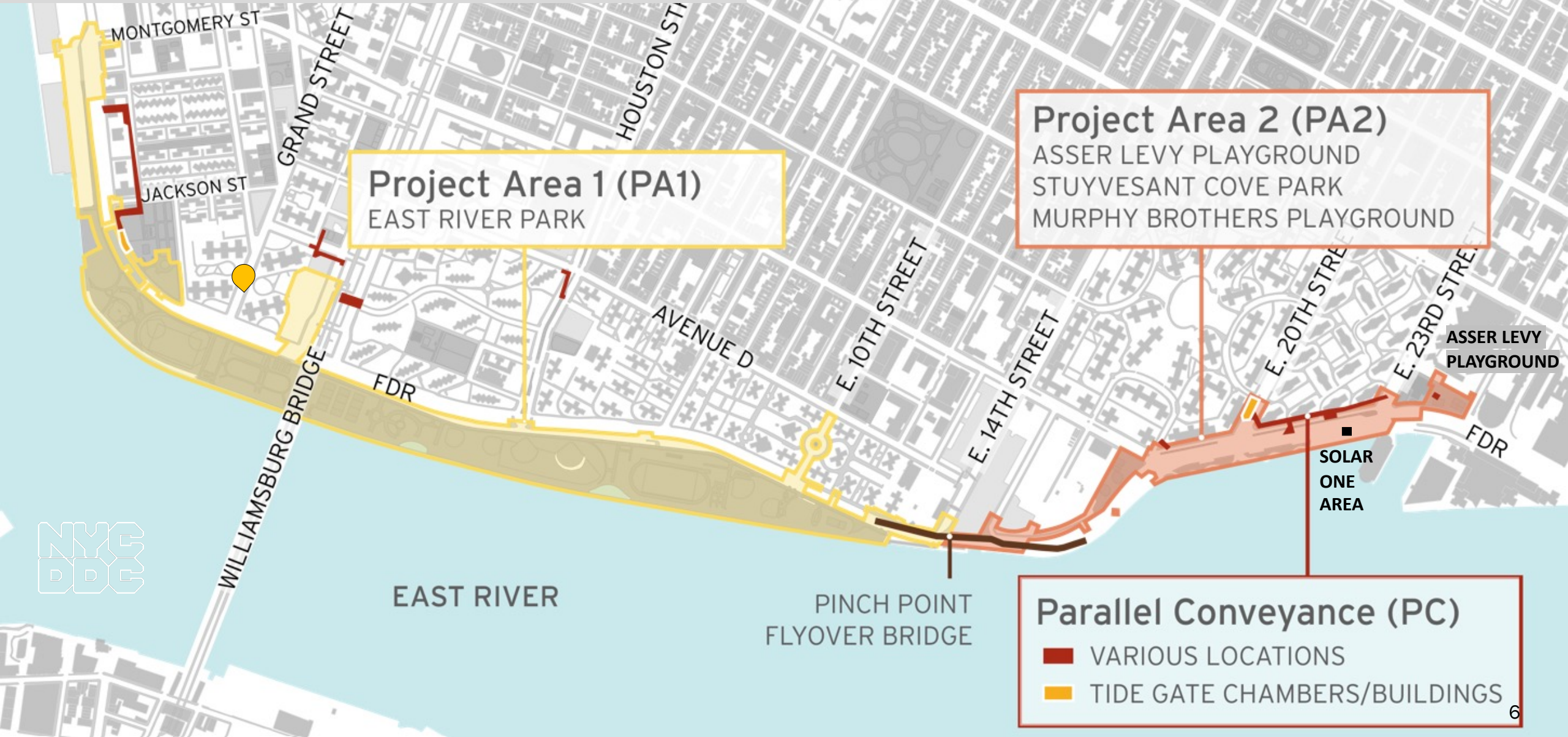


## Benefits

- Protect New Yorkers from the impacts of Climate Change
- Reduce flood risk to communities, infrastructure and public space
- Improve accessibility, ecological diversity
- Reconstructed resilient park
- Build new recreation amenities



# Project Area Overview





# ESCR Improvements around East River Housing



# ESCR Resources





# ESCR Website

<https://www.nyc.gov/escr>

## East Side Coastal Resiliency

The East Side Coastal Resiliency (ESCR) Project is a coastal protection initiative, jointly funded by the City of New York and the federal government, aimed at reducing flood risk due to coastal storms and sea level rise on Manhattan's East Side from East 25th Street to Montgomery Street. The boundaries of this project correspond with the natural "pinch-points" in the 100-year floodplain: areas where the land is higher along the coastline, making it easier to close the system off from water entering from the north and south. The project design integrates flood protection into the community fabric, improving waterfront open spaces and access, rather than walling off the neighborhood. Construction on the East Side Coastal Resiliency project began in Fall 2020 and will continue through 2026.

### Construction Progress

**Construction Notices**  
View our most recent community presentations for updates as we prepare for upcoming construction activities.

### Resiliency & Flood Protection

**Resiliency and Flood Protection**  
Learn more about ESCR's resiliency and the forward-thinking flood protection measures being implemented to protect 110,000 New Yorkers from the impacts of climate change.

### Project Background & Goals

**Project Background and Goals**  
Read about the history and background of ESCR, and the goals driving this technically complex infrastructure project.

### Project Design

**Project Design**  
From flood protection measures to bike lanes and ball fields, the ESCR project is improving open spaces and access in the Lower East Side while strengthening the city's coastline.

### Work With Us

**Work With Us**  
Learn about training, careers, and contracting opportunities with the ESCR project.

### Parks Neighborhood Recreational Resources

**NYC Parks Map**  
Resource for park goes looking for spaces to play and relax while the project is in construction.

### Environmental & Related Documents

**Environmental and Related Documents**  
The City's environmental review process ensures

### NYC DOT's Street Closure Map

**NYCDOT Street Closures**  
Access the NYC DOT's street closure map for ESCR-related closures due to construction activities.



NYC East Side Coastal Resiliency
311 Search all NYC.gov websites

The East Side Coastal Resiliency Project

Home
About
Project Updates
Community Engagement
Contact

## Project Updates

- PA1 Construction Notices
- PA2 Construction Notices
- PC Construction Notices
- Environmental Monitoring
- Presentations
- Newsletters
- Gallery

## Construction Project Areas for East Side Coastal Resiliency

### Project Area 1

The contract for PA1 (SANDRESM1), was awarded to IPC Resiliency Partners, the low bidder in a competitive bidding process. IPC received Notice to Proceed (NTP) on August 16, 2021. In October of 2021, the City presented the PA1 Preliminary Construction Approach to the community and in July of 2022 presented a more detailed PA1 Construction Timeline at the July 2022, Community Board 3 Parks Committee Meeting. The construction for East River Park will be phased so that a minimum of 42% of open space will be available to the community throughout construction to minimize the loss of park space.

# ESCR Inquiry Tool

[https://pima.ddccr.com/public/comment/project-comment-dynamic?project\\_id=14047](https://pima.ddccr.com/public/comment/project-comment-dynamic?project_id=14047)

**NYC East Side Coastal Resiliency**

The East Side Coastal Resiliency Project

**Project Updates**

PA1 Construction Notices

PA2 Construction Notices

PC Construction Notices

Environmental Monitoring

Presentations

Newsletters

Gallery

### Construction Project Areas for East Side Coastal Resiliency

**Project Area 1 (PA1)**  
EAST RIVER PARK

**Project Area 2 (PA2)**  
ASSER LEVY PLAYGROUND  
STUYVESANT COVE PARK  
MURPHY BROTHERS PLAYGROUND

**Parallel Conveyance (PC)**  
VARIOUS LOCATIONS  
TIDE GATE CHAMBERS/BUILDINGS

### Project Area 1

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Phase	Activity	Start	End
Phase 1	East River Park: South of Grand Street	June 2022	June 2023
	East River Park: Grand Street to Stanton Street	June 2022	June 2024
	Delancey Street Bridge	June 2022	June 2023
	Carthers Hook Bridge & Carthers Hook Park	June 2022	June 2023
Phase 2	East River Park: Stanton Street to E. 4th Street	June 2023	June 2024
	East River Park: E. 4th Street to E. 5th Street	June 2023	June 2024
	East River Park: north of E. 5th Street	June 2023	June 2024
	East River Park: South of Grand Street	June 2023	June 2024

Home About Project Updates Community Engagement **Contact** Search

## Contact

**Emergency Preparedness**

Would you like to learn more about the East Side Coastal Resiliency (ESCR) project or ask a question to the project team? There are several ways to reach us, so pick the one that works best for you!

**Work With Us**

**Online Inquiry**

Submit an inquiry and our team will respond a question to the project team? There are several ways to reach us, so pick the one that works best for you! Our community outreach team Spanish and Chinese.

**Submit an Inquiry**

Select Language

Powered by Google Translate

### East Side Coastal Resiliency (ESCR)

The ESCR Project is a coastal protection initiative aimed at reducing flood risk due to coastal storms and sea level rise on Manhattan's East Side from Montgomery Street to East 25th Street. The project will strengthen 2.4 miles of urban coastline against floods and rising sea levels while providing social and environmental benefits to the community.

Open Project Documents -

1) Please enter your inquiry below. **Required**

Please do not place any personally identifiable information (name, phone, or email) within your comment.

2) Select any of the following topics that apply to your inquiry: (Select up to 3)

Accessibility/ADA Buildings/Bridges Bicycle Communications/Outreach Construction Site Environmental Flood Protection Systems Noise, Dust, Vibration Parks & Recreation Pedestrian Access Pest Control Planting/Trees/Wildlife Resiliency Safety Sidewalk & Street Closures Sustainability Traffic Transportation Utilities Other

3) Do you have a specific question or concern that you would like a response to?

Send me a response

4) Browse our project map to zoom and pan around, and if applicable, add a pin by tapping the location that relates to your inquiry. You can also type an address, intersection, or park location to drop a pin. Instructions: Tap another location to move your pin. Use arrow keys to pan around. Use + or - keys to zoom in and out. Click the layers icon to turn off the proposed project rendering.

Map showing project area with REACH A, B, C, D, E1, E2 markers and a red pin.





# Community Resources

- Visit Us at: [www.nyc.gov/escr](http://www.nyc.gov/escr)
- Community Construction Liaisons:
  - PA1: Joyce Xin (929) 844-0408  
PA1: Vanessa Gomez (347) 628-8724  
Email: [ESCRCL1@ddccr.com](mailto:ESCRCL1@ddccr.com)
  - PC: Tannia Wokoun (914) 313-6863  
Email: [BMCR.CCL@gmail.com](mailto:BMCR.CCL@gmail.com)
- Inquiry Tool: [www.nyc.gov/escr/contact](http://www.nyc.gov/escr/contact)
- CB 3 Parks Meetings
- Community Advisory Group (CAG)
- On-site signage

The collage displays digital and physical resources for the East Side Coastal Resiliency project. Digital elements include website screenshots for 'Contact', 'PA1 Construction Notices', and 'About' pages, along with a 'Flood Risk Reduction' graphic highlighting 'Improved Access' and 'Enhanced Open Spaces'. Physical elements include a 'ESCR COMMUNITY NOTIFICATION' sign with project factsheets and a QR code, and a 'GREENWAY CLOSED' sign with directions to the Esplanade, E 9th St. Bridge, E 10th St. Bridge, and Restroom.



# Community Resources

**ESCR NEWS**  
www.nyc.gov/escr/news  
Issue Date: 8/2021

**East Side Coastal Resiliency**

The East Side Coastal Resiliency (ESCR) project is a coastal protection initiative, jointly funded by the City of New York and the federal government, aimed at reducing flood risk due to coastal storms and sea level rise. The ESCR project will protect 1,000,000 New Yorkers from the impacts of climate change by reducing flood risk to communities, properties, businesses, critical infrastructure, and public open spaces. In addition to providing flood protection, the project will strengthen and enhance waterfront systems on Manhattan's East Side by improving accessibility, increasing ecological diversity, and delivering improved recreational amenities to a vibrant and highly diverse community. The ESCR project is among the largest and most technologically complex infrastructure projects in New York City's history.

ESCR will create a 2.4 mile flood protection system that will consist of floodwalls and levees that are designed to flood into the spaces of the community by integrating with local streets, the elevated East River Park, and the new landscape surrounding Coopers Park, Mulry Brothers Playground, Stowman Cove Park, and Asser Levy Playground. The project will also include significant investments in underground interior drainage improvements that will improve the capacity of the sewer system.

**Project Area 2**  
Construction in ESCR's Project Area 2 (PA2) encompasses work between East 15th and East 20th Streets and includes Asser Levy Playground, Stowman Cove Park, Mulry Brothers Playground, as well as local streets around the East 15th Street Con Edison facility. This work will be broken into three main phases over the course of the project.

**Work Required** in order to build this project, all utility relocation and construction work must be completed and approved by the City of New York and the Department of Design and Construction. This session will provide a step-by-step review of how to join PCC's directory of subcontractors for current and future opportunities.

**Presenters include:**

- Wayne Lambert, Chief Diversity Officer, NYC Department of Design and Construction
- Joseph Nascimbeno, Perpetto Contracting Co. Inc. Area 2 General Contractor
- Desiree Gazzo, HNTB-LiRo, Community Engagement

**Pre-Registration is not required. Sign up below to receive the registration link if you are not already an email subscriber.**

**To learn more about working with the East Side Coastal Resiliency (ESCR) team and the event please visit:**  
<https://www1.nyc.gov/site/escr/contact/work-with-us.page>

ESCR Department of Design and Construction  
NYC DOT NYC

(quarterly)

**ESCR NEWS**  
www.nyc.gov/escr/news  
Issue Date: 8/2021

**East Side Coastal Resiliency**

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ESCR Department of Design and Construction  
NYC DOT NYC

**Work With Us**  
www.nyc.gov/escr

(as needed)

**Community Advisory**

**Project # SANDRESM2 | Borough: Manhattan | Issue Date: 6/4/2021**  
The East Side Coastal Resiliency (ESCR) Project is an initiative to provide long-term flood protection on the east side of Manhattan.

**South Side Crosswalk Closure @ E 23<sup>rd</sup> St. under FDR Dr. Begins the week of June 14, 2021, for approximately eight (8) weeks**

To facilitate the construction of the floodwall, the crosswalk on the south side at E 23<sup>rd</sup> St. underneath the FDR Dr. will be temporarily closed. This area is adjacent to the BP Gas Station. Pedestrians may use the newly reopened northside crosswalk.

**PEDESTRIAN CLOSURES**  
CHANGE TO TRAFFIC PATTERNING

**EAST SIDE COASTAL RESILIENCY**

For more information, contact the ESCR Project Area 2 Construction Liaison (CCCL) at [ESCRCCL2@ddccr.com](mailto:ESCRCCL2@ddccr.com) or call 311.

**Subcontracting and Local Hiring Virtual Information Session**

**Wednesday, July 28, 2021, 8:30am-9:30am**

The East Side Coastal Resiliency (ESCR) project is a coastal protection initiative, jointly funded by the City of New York and the federal government, aimed at reducing flood risk due to coastal storms and sea level rise on Manhattan's East Side from East 25th Street to Montgomery Street.

Join the ESCR project team along with our Project Area 2 contractor, Perpetto Contracting Co., for a virtual information session on subcontracting opportunities.

Learn about the East Side Coastal Resiliency Project (ESCR), as well as subcontracting and hiring opportunities through the Project Area 2 General Contractor, Perpetto Contracting Co. (PCC). This session will provide a step-by-step review of how to join PCC's directory of subcontractors for current and future opportunities.

**Presenters include:**

- Wayne Lambert, Chief Diversity Officer, NYC Department of Design and Construction
- Joseph Nascimbeno, Perpetto Contracting Co. Inc. Area 2 General Contractor
- Desiree Gazzo, HNTB-LiRo, Community Engagement

**Pre-Registration is not required. Sign up below to receive the registration link if you are not already an email subscriber.**

**To learn more about working with the East Side Coastal Resiliency (ESCR) team and the event please visit:**  
<https://www1.nyc.gov/site/escr/contact/work-with-us.page>

ESCR Department of Design and Construction  
NYC DOT NYC

**East Side Coastal Resiliency**  
www.nyc.gov/site/escr

## Construction Bulletin

Numbers on the map below show the approximate location of the construction operations described on the first page. For more detailed information, see Advisories released for each detour/traffic pattern change posted on the website: [www.nyc.gov/escr/notices](http://www.nyc.gov/escr/notices)

**East Side Coastal Resiliency**  
www.nyc.gov/site/escr

## Construction Bulletin

**PROJECT AREA 2 – Two Week Look Ahead**  
08/02/21 – 08/13/21

**PROJECT#: SANDRESM2 | BOROUGH: MANHATTAN | DATE ISSUED: 07/30/21**

The following is an anticipated work schedule for the upcoming week. **However, due to unforeseen field and weather conditions**, it may become necessary to change some scheduled work locations, operations, and dates.

Map Key	Date	Work Hours	Location	Operation
1	08/02/21–08/13/21	7:00 am to 3:30 pm	Adjacent to Solar One	Greenway closure continues. Pile installation and flood wall foundation work in progress. Sewer installation is ongoing.
2	08/02/21–08/13/21	7:00 am to 3:30 pm 3:30 pm to 11:00 pm	E. 23 <sup>rd</sup> Street at East Service Road and under the FDR Dr. adjacent to BP gas station	* Traffic Pattern detour at E 23 <sup>rd</sup> Street under the FDR Dr. continues. Con Edison utility work is ongoing. Continued pile installation for the flood wall. Excavation for the flood wall foundation continues.
3	08/02/21–08/13/21	7:00 am to 3:30 pm 3:30 pm to 11:00 pm	Asser Levy Playground	** Evening pile installation starting the week of 8.02.21 Ongoing pile installation for the flood wall. *** Evening pile installation starting the week of 8.09.21

**REMINDERS:** \*Traffic Pattern detour at E 23<sup>rd</sup> Street under the FDR Dr. continues.  
\*\* Starting the week of 8.02.2021 evening pile installation at E 23<sup>rd</sup> Street at the East Service Road and under the FDR Dr. adjacent to the BP gas station  
\*\*\* Evening pile installation at Asser Levy Playground to begin the week of 8.09.2021

**For More Information:** Contact **Nadine Harris** at (347) 572-3057, [ESCRCCL2@ddccr.com](mailto:ESCRCCL2@ddccr.com), or via web inquiry: [www.nyc.gov/escr/contact](http://www.nyc.gov/escr/contact)  
During non-construction hours, please contact the New York City Government Services and Information Hotline at 311.

**EAST SIDE COASTAL RESILIENCY**  
Department of Design and Construction  
Office of Community Outreach & Notification

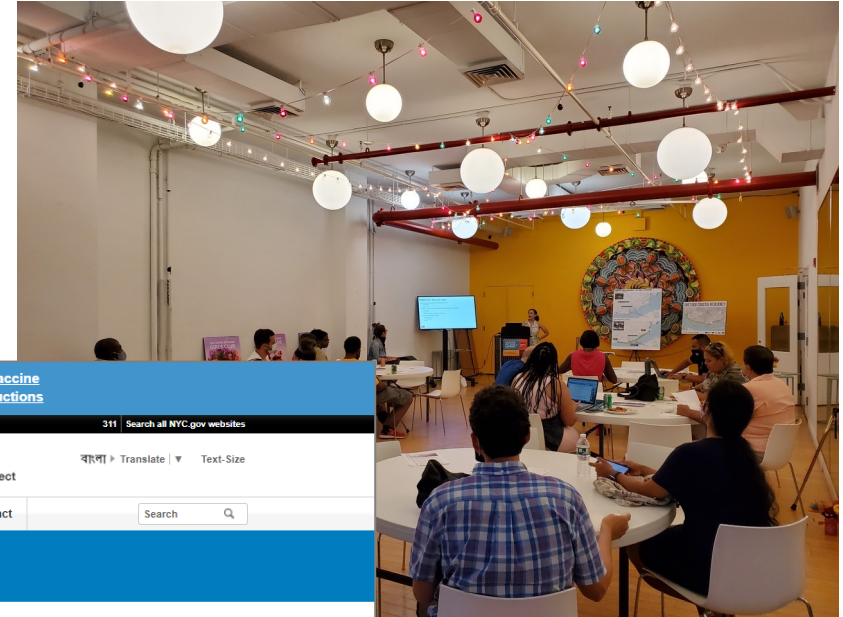
NYC DOT NYC

(weekly)



# Presentations to the Community

- Weekly
  - Directly affected stakeholders, dependent on area of active work
- Monthly
  - Community Boards
  - **Community Advisory Group (CAG)**
  - City Team
  - Tenant Association Meetings (CCL)
- Monthly to Bi-monthly
  - Specific stakeholder groups
  - NYCHA, LES Coops, etc.
- Quarterly to less frequent
  - Focused events: ex. hiring outreach



Get the latest on the COVID-19 Vaccine  
Agency service suspensions/reductions

NYC East Side Coastal Resiliency 311 Search all NYC.gov websites

The East Side Coastal Resiliency Project

Presentations

Construction Progress

Construction Notices

Environmental Monitoring

Presentations

Newsletters

Community Advisory Group (CAG)

The Community Advisory Group (CAG) is an independent, community-based entity serving in an advisory role to the project team during the ESCR construction phase. The CAG will serve as an ongoing vehicle for information-sharing, bridging the community and the project team. Per the CAG guidelines, the public is invited to observe these meetings only; no questions or comments will be taken from the public during the meetings. Visit the [Community Events](#) page for upcoming CAG meetings and links for livestreaming.

- CAG Virtual Meeting #11 Thursday, July 1, 2021  
Download 07/01/2021 Presentation  
Download Quarter 1 Air Quality  
Stream the Live Recording  
Download Members Roster
- CAG Virtual Meeting #10 Thursday, June 3, 2021

PA2 | CONSTRUCTION PROGRESS

ALL WORK IS SUBJECT TO CHANGE

Typical Construction Activities	PA2: Phase 1 Work Locations (see map below)					Estimated Task Completion Date
	1 Shuyesant Cove Park Solar One Area	2 E 23rd St. under FDR Drive	3 FDR Drive East Service Road	4 FDR Drive West Service Road	5 Asser Levy Playground	
A. Test Pits						Q2 2021
B. Utility Work			(T&P)	(P)		Q2 2021
C. Pile Installation		(T&P)				Q3/4 2021
D. Flood Wall Foundation	(P)				(P)	Q3/4 2021
E. Concrete Flood Wall						Q4 2021
F. Site Restoration						Q1/Q2 2022

LEGEND  
(T) Traffic / (P) Pedestrian Detours  
NEAR COMPLETION  
IN PROGRESS  
★ NIGHT WORK  
ALL WORK SUBJECT TO CHANGE

to go. Yeah. So, that's what I call the northern portion of

COMMUNITY ADVISORY GROUP— East Side Coastal Resiliency Project



# Programmatic Initiatives

- Earth Day 2021 | Seed Paper and coloring sheet tabling event in PA2
- Earth Day 2022 | Rain Barrel give-a-way with DEP and tabling event
- 2021-2022 Call for Art | students and local artists with an associated Certificate Event
- Ongoing tabling events in partnership with City Agencies
- ESCR in YOUR Schools, outreach to local schools
- <https://www1.nyc.gov/site/escr/community-engagement/community-engagement.page>



## Call for Art

[Call for Art](#)

Community Events

Meet Your Community Construction Liaisons

Decorative Fencing Panels

Share

Print

The ESCR sponsored community call for art features K-12 students and local artists in NYC. Artwork was judged on its creativity and responsiveness to given artwork themes centered on community and resiliency. The artwork is displayed on fencing within the project site. Click through the gallery below to view all the panels or visit the site to see them in person!

View the [Panel Location Maps](#) to find the art you wish to view.

View the [DDC Press Release](#) with quotes from the NYC DDC Commissioner, Council Member Rivera and Council Member Powers.

As construction changes, the location of your panel may shift. If you don't see your panel where it is shown on the map? No worries, just email [ESCRCL1@ddccr.com](mailto:ESCRCL1@ddccr.com)



### In Your Community

#### Call for Art Panel Locations

##### Project Area 1- East River Park

- |  |  |   |
|--|--|---|
| <b>Grade 1-4</b> <ol style="list-style-type: none"><li>1. Arielle Cohen, "Community (East)" MISTY, Grade 4</li><li>2. Arianna Cohen, "Community" MISTY, Grade 4</li><li>3. August Johnson, "The Williamsburg Bridge" Chelsea's MISTY, Grade 4</li><li>4. Sean, "US One" MISTY, Grade 4</li></ol> | <b>Grade 5-8</b> <ol style="list-style-type: none"><li>27. Riley Lashburn, "The New York Pkwy" MISTY, Grade 5</li><li>28. Arianna Cohen, "Community" MISTY, Grade 4</li><li>29. August Johnson, "The Williamsburg Bridge" Chelsea's MISTY, Grade 4</li><li>30. Sean, "US One" MISTY, Grade 4</li></ol> | <b>Grade 9-12</b> <ol style="list-style-type: none"><li>31. Arianna Cohen, "Community (East)" MISTY, Grade 4</li><li>32. Arianna Cohen, "Community" MISTY, Grade 4</li><li>33. August Johnson, "The Williamsburg Bridge" Chelsea's MISTY, Grade 4</li><li>34. Sean, "US One" MISTY, Grade 4</li></ol> |
|--|--|---|





# Community Construction Liaisons (CCLs)

- On-site presence
- Neighborhood presence
- Spanish & Chinese
- Maintain NNN List

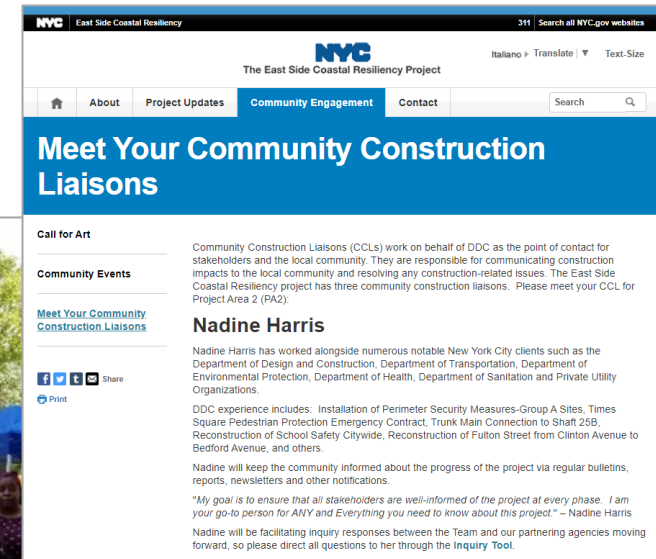
PA1: Joyce Xin (929) 844-0408

PA1: Vanessa Gomez (347) 628-8724

Email: [ESCRCCL1@ddccr.com](mailto:ESCRCCL1@ddccr.com)

PC: Tannia Wokoun (914) 313-6863

Email: [BMCR.CCL@gmail.com](mailto:BMCR.CCL@gmail.com)



# NYC Emergency Management

<https://www.nyc.gov/site/escr/contact/emergency-preparedness.page>

A screenshot of the NYC Emergency Management website. The page has a dark blue header with the NYC logo and 'The East Side Coastal Resiliency Project' text. A navigation bar includes links for 'About', 'Project Updates', 'Community Engagement', and 'Contact'. A search bar is located on the right. The main content area has a blue banner with the title 'Emergency Preparedness'. Below this, there is a section for 'Emergency Preparedness' with a brief description. A 'Work With Us' section includes social media share icons (Facebook, Twitter, LinkedIn, Email) and a 'Print' button. The main heading is 'NYC Emergency Management', followed by sub-sections: 'Preparedness Guides and Apps page', 'Preparedness Tips', and 'Know Your Zone'. The 'Know Your Zone' section contains text about the CERT Program, the Ready New York campaign, and the Train the Trainer program. The 'Community Preparedness' section describes how it helps local networks. The 'Notify NYC' section provides information on signing up for emergency alerts and updates.

NYC East Side Coastal Resiliency 311 Search all NYC.gov websites

NYC The East Side Coastal Resiliency Project

Kreyòl Ayisyen | Translate | Text-Size

Home About Project Updates Community Engagement **Contact** Search

## Emergency Preparedness

[Emergency Preparedness](#)

**Work With Us**

Share Print

### NYC Emergency Management

[Preparedness Guides and Apps page](#)

[Preparedness Tips](#)

[Know Your Zone](#)

**NYC Community Emergency Response Team (CERT) Program** Volunteers are trained to provide basic response skills needed for fire safety, light search and rescue, community disaster support, disaster medical operations, and traffic control in your neighborhood or across the city.

**Ready New York** Ready New York is NYC Emergency Management's public education campaign. Through the program, you can learn about the hazards you may face in New York City and prepare for all types of emergencies by writing an emergency plan, choosing a meeting place, gathering supplies for your home, and preparing a Go Bag in case you need to leave your home in a hurry. For emergency preparedness presentations and events, visit the Ready New York webpage or email [readyny@oem.nyc.gov](mailto:readyny@oem.nyc.gov).

Ready New York also conducts a **Train the Trainer** program for local leaders through which they are trained to conduct emergency preparedness presentations for their communities. This training can be requested by community-based organizations and faith-based organizations by emailing [readyny@oem.nyc.gov](mailto:readyny@oem.nyc.gov).

**Community Preparedness** Community Preparedness helps local networks build capacity within their community to prepare for, respond to, and recover from emergencies.

For more information on the Community Preparedness weekly newsletter and regular emergency management programming for community-based organizations and faith-based organizations, email [communityprep@oem.nyc.gov](mailto:communityprep@oem.nyc.gov).

### Notify NYC

Stay informed by signing up for **Notify NYC**, New York City's official emergency communications program, to receive free emergency alerts and updates in your preferred language. Register for free by visiting [NYC.gov/notifynyc](https://www.nyc.gov/notifynyc), calling 311 (212-639-9675 for Video Relay Service, or TTY: 212-504-4115), following [@NotifyNYC](#), [@NNYCSpanish](#) and [@NNYCChinese](#) on Twitter, or getting the free Notify NYC mobile application for your Apple or Android device.



# Environmental Resources



# Environmental Monitoring

Community health and safety is of the utmost importance to the City of New York, the NYC Department of Design and Construction (NYC DDC), and the East Side Coastal Resiliency (ESCR) team.

There are several reportage methodologies the team provides on the ESCR

Environmental Monitoring Webpage: <https://www.nyc.gov/site/escr/project-updates/environmental-monitoring.page>

1. Fact sheet in 3 languages
2. Quarterly Reports
3. Monthly CAG Summaries

You can listen to the CAG updates on the ESCR CAG page:

<https://www.nyc.gov/site/escr/project-updates/community-advisory-group.page>



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## Environmental Monitoring

PA1 Construction Notices

PA2 Construction Notices

PC Construction Notices

**Environmental Monitoring**

Presentations

Newsletters

Gallery 1

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2

### Air Quality

Community health and safety is of the utmost importance to the City of New York, the NYC Department of Design and Construction (NYC DDC), and the East Side Coastal Resiliency (ESCR) team. The ESCR project is committed to providing the community with quarterly air quality monitoring summaries throughout construction. In addition to the monitoring, the team has implemented a multi-level approach to Air Quality Management, described in greater depth within the report, which includes:

1. Air Quality Management Plan
2. Daily Air Quality Mitigation Techniques
3. Daily Air Quality Monitoring
4. Air Quality oversight by environmental specialists

For a quick overview of Air Quality Monitoring for the East Side Coastal Resiliency Project, see the ESCR Air Monitoring factsheet.

### Project 1 Area Monitoring Reports

- 4th Quarter 2022 SANDRESM1 Air Quality Monitoring Report  
This report covers the monitoring period of October 2022-December 2022 for Project Area 1.
- 3rd Quarter 2022 SANDRESM1 Air Quality Monitoring Report  
This report covers the monitoring period of July 2022-September 2022 for Project Area 1.
- 2nd Quarter 2022 SANDRESM1 Air Quality Monitoring Report  
This report covers the monitoring period of April 2022-June 2022 for Project Area 1.
- 1st Quarter 2022 SANDRESM1 Air Quality Monitoring Report  
This report covers the monitoring period of January 2022-March 2022 for Project Area 1.

### Project 2 Area Monitoring Reports

- 4th Quarter 2022 SANDRESM2 Air Quality Monitoring Report  
This report covers the monitoring period of October 2022-December 2022 for Project Area 2.
- 3rd Quarter 2022 SANDRESM2 Air Quality Monitoring Report  
This report covers the monitoring period of July 2022-September 2022 for Project Area 2.
- 2nd Quarter 2022 SANDRESM2 Air Quality Monitoring Report  
This report covers the monitoring period of April 2022-June 2022 for Project Area 2.
- 1st Quarter 2022 SANDRESM2 Air Quality Monitoring Report  
This report covers the monitoring period of January 2022-March 2022 for Project Area 2.
- Second Half 2021 Air Quality Monitoring Report  
This report covers the monitoring period of July 2021-December 2021 for Project Area 2.
- First Half 2021 Air Quality Monitoring Report  
This report covers the monitoring period of January 2021-June 2021 for Project Area 2.
- Original Report issued July 1, 2021 (does not include June 2021).

3

Regular air monitoring updates are provided at Community Advisory Group (CAG) Meetings. The summary slides from those meetings have been assembled below:

- Download 2022 PA1 CAG Air Monitoring Summaries
- Download 2022 PA2 CAG Air Monitoring Summaries
- Download 2021 PA2 CAG Air Monitoring Summaries



# Environmental Monitoring Fact Sheet

**空气质量管理**  
 空气质量监测

**Monitoreo de calidad del aire**  
 Resiliencia Costera del Lado Este

**Air Quality Monitoring**  
 Community health and safety is extremely important to the City of New York. The East Side Coastal Resiliency (ESCR) project team is ensuring there is very limited impact on nearby air quality as we construct flood protection for New Yorkers on Manhattan's East Side.

**1. We are constantly monitoring the air quality around our construction activities.**

**WHAT ARE WE MEASURING?**  
 Particulate Matter (PM), or particle pollution, is a term for the solid particles and liquid droplets found in the air.  
**MEASURED SIZES:**  
**PM 2.5:** smaller particles typically from vehicle emission  
**PM 10:** larger particles typically from dust  
 Monitoring machines are placed strategically along the edge of active construction activities.

**NET PARTICULATE MATTER** is the standard metric for monitoring and assessment of construction impacts on air quality, as well as compliance with federal limits.

**2. We are taking steps to control dust and limit emissions during construction.**

**Steps to reduce construction vehicle pollution and emissions:**

- Use barging for large deliveries
- Restrict truck idling time
- Use Ultra-Low Sulfur Diesel fuel
- Minimize use of diesel engines
- Use the best available technology for non-road diesel engines

**Steps to reduce and control dust:**

- Cover and secure loads for all trucks hauling loose material including sand and dirt
- Use water spray for roads, trucks, truck wheels, excavation areas, and stockpiles
- Cover stockpiles with anchored tarps
- Use extra care, including more frequent application of these measures, during dry and high wind periods

These steps are implemented during daily construction activities and are increased if monitoring machines indicate additional action is needed. Visit the ESCR website to view weekly Construction Bulletins and Advisories.

**空气质量监控**

**空气 监控器 B (上风)**  
**空气 监控器 A (下风)**  
**净颗粒物**

监控器 B 直接与设计活动相关的潜在粉尘和颗粒物污染增加  
 监控器 A 反映与施工活动相关的潜在粉尘和颗粒物污染增加

**APOSTAR MATERIA PARTICULADA**  
 Refleja el aumento potencial de contaminación por partículas directamente relacionado con actividades de construcción para monitorear y evaluar los como el cumplimiento de los estándares de la EPA.

**知道吗?** 一艘驳船能够一次性从道路上转移多达 57 辆卡车。

**你知道吗?** 一艘驳船能够一次性从道路上转移多达 57 辆卡车。

¿SABÍAS? Una barcoza tiene la capacidad de desviar hasta 57 camiones de las carreteras locales.

¿SABÍAS? ¿Las máquinas de construcción aumentan si las máquinas de construcción para revisar los boletines y avisos?

**空气质量管理**  
 空气质量管理

**Monitoreo de calidad del aire**  
 Resiliencia Costera del Lado Este

**3. We are guided by federal air quality standards.**

Through careful monitoring with real-time alerts, our team knows when we need to take additional measures during construction to protect air quality for residents.

- The Environmental Protection Agency (EPA) sets National Ambient Air Quality Standards, which define regulatory limits to protect public health called Permissible Exposure Levels (PEL).
- The ESCR Team and Environmental Specialists receive real-time alerts when Particulate Matter (PM) numbers approach an Action Level, which is set below the permissible exposure level.
- If it is determined that the construction is not meeting the standards set by oversight agencies, work will be halted and further assessed to assure protection to residents and park users.

The EPA has set a 24-hour time weighted average (TWA) as standard for evaluating the particle pollution levels, meaning that they average potential exposure to particulate matter over a 24-hour period. The ESCR project evaluates air quality at 15-min TWA intervals, meaning we average exposures over 15-minute periods. This more conservative approach will help the ESCR team to monitor the project's effect on air quality more closely.

**4. Environmental oversight is multi-tiered with checks & balances.**

- Agencies provide regulatory guidance and approve the Contractors' environmental plans at the start of the contract.
- They make regular inspections to ensure compliance throughout construction.
- The PMCM team can stop the Contractors' work or withhold payment if they determine that the contractors are not taking appropriate measures to limit particle pollution.
- The Contractors are responsible for the safety of their workers and the community surrounding the project site.
- The PMCM's environmental specialist is responsible for monitoring work in designated Areas of Concern from historic Manufactured Gas Plants (MGP).
- The Contractors' environmental consultants are responsible for monitoring particle pollution and alerting the project team (City, PMCM and Contractor) if particulate matter reaches the Action Level.

**5. Air quality updates for the community.**

The ESCR Team provides Air Quality Monitoring updates at Community Advisory Group (CAG) meetings and through the ESCR Quarterly Air Quality Monitoring Reports both found on the ESCR website.

While the ESCR Team has been tasked to monitor Air Quality around our construction activities, be advised there are many other impacts affecting air quality in the City. Residents should follow all **Notify NYC** Advisories: <https://a858-nycnotify.nyc.gov/>.

**3. 我们以联邦空气质量标准为指导。**

为了保护居民们的空气质量，通过仔细的监控包括实时警报，团队知道在施工期间，什么时候需要更多措施。

Si se determina que la construcción no está cumpliendo con los estándares establecidos por las agencias de supervisión, el trabajo se detendrá y se evaluará más para garantizar la protección de los residentes y usuarios del parque.

Si se determina que la construcción no está cumpliendo con los estándares establecidos por las agencias de supervisión, el trabajo se detendrá y se evaluará más para garantizar la protección de los residentes y usuarios del parque.

La EPA ha establecido un promedio ponderado de 24 horas (TWA) como estándar para evaluar los niveles de contaminación por partículas, lo que significa que promedian la exposición potencial a la contaminación por partículas durante un periodo de 24 horas. El proyecto ESCR evalúa la calidad del aire en intervalos de TWA de 15 minutos, lo que significa un enfoque más conservador que ayudará al equipo ESCR a monitorear el efecto del proyecto en la calidad del aire más de cerca.

**4. El monitoreo ambiental es multitierado con chequeos y balances.**

Los organismos de supervisión brindan orientación regulatoria sobre los planes ambientales de los contratistas al inicio del contrato. Ellos hacen inspecciones periódicas para asegurar el cumplimiento de los estándares de la EPA. El equipo ESCR puede detener el trabajo de los contratistas o retener el pago si creen que los contratistas no están tomando las medidas adecuadas para limitar la contaminación por partículas. El equipo ESCR puede detener el pago si los contratistas no están tomando las medidas adecuadas para limitar la contaminación por partículas. El equipo ESCR puede detener el pago si los contratistas no están tomando las medidas adecuadas para limitar la contaminación por partículas.

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**5. Actualizaciones de la calidad del aire para la comunidad.**

El equipo ESCR brinda actualizaciones de monitoreo de la calidad del aire en las reuniones del Grupo de Asesoría Comunitaria (GAC) y a través de los Reportes Cuatrimestrales de Monitoreo de la Calidad del Aire que se encuentran en el sitio web de ESCR.

Mientras que el equipo ESCR tiene la tarea de monitorear la calidad del aire durante nuestras actividades de construcción, adviértase que existen muchos otros impactos que afectan la calidad del aire en la ciudad. Los residentes deben seguir todas las **Notificaciones** de NYC: <https://a858-nycnotify.nyc.gov/>.

# Environmental Monitoring Locations





# Environmental Monitoring

- Air, noise, and vibration monitors are active **24 hours/day, 7 days/week**
- The project **follows all federal, state and local guidelines**. To date construction activities have not exceeded National Ambient Air Quality Standards
- Monitoring machines are on site to measure particles from construction vehicle emissions and dust as well site conditions such as wind speed and temperature.
- These machines are placed strategically along the edge of active construction activities.

## WHAT ARE WE MEASURING?

**Particulate Matter (PM)**, or particle pollution, is a term for the solid particles and liquid droplets found in the air.

### MEASURED SIZES:

**PM 2.5:** smaller particles

typically from vehicle emission

**PM 10:** larger particles typically from dust

## 3. We are guided by federal air quality standards.

Through careful monitoring with real-time alerts, our team knows when we need to take additional measures during construction to protect air quality for residents.

- The Environmental Protection Agency (EPA) sets National Ambient Air Quality Standards which define regulatory limits to protect public health called **Permissible Exposure Levels (PEL)**.
- The ESCR Team and Environmental Specialists receive **real-time alerts** when Particulate Matter (PM) numbers approach an **Action Level**, which is set below the permissible exposure level.
- If it is determined that the construction is not meeting the standards set by oversight agencies, work will be halted and further assessed to assure protection to residents and park users.

The EPA has set a **24-hour time weighted average (TWA)** as standard for evaluating the particle pollution levels, meaning that they average potential exposure to particulate matter over a 24-hour period.

The ESCR project evaluates air quality at **15-min TWA intervals**, meaning we average exposures over 15-minute periods. This more conservative approach will help the ESCR team to monitor the project's effect on air quality more closely.



## AUGUST 2022 | Summary

### Montgomery Street to Jackson Street:

PM2.5: (4) around 15 minutes; vehicle traffic at FDR on-ramp

PM10: (1) around 15 minutes; vehicle traffic at FDR on-ramp

### Jackson Street to Williamsburg Bridge:

PM2.5: (3) around 15 minutes vehicle traffic and construction activities – dust suppression techniques applied

PM10: (1) 20 & (1) 40 minutes; construction demo activities – dust suppression techniques applied

### Williamsburg Bridge to Northern Project Limit

PM2.5: (2) 15 & (1) 40 minutes; construction activities – dust suppression techniques applied

PM10: 15 minutes; construction activities – dust suppression techniques applied

### ConEd Work/East River Park

PM2.5: 15 minutes; 3<sup>rd</sup> party inside the park grilling – no mitigation

PM10: (2) 15 minutes; overnight – no mitigation and 3<sup>rd</sup> party inside the park grilling

# Environmental Compliance - General

- multi- tiered environmental oversight (agencies, PMCM, environmental subconsultants)
- soil sampled during design
- contractor screens and samples soil prior to excavation to determine how soil is disposed of
  - All soil is screened for evidence of contamination when it is excavated. Screening includes:
    - Looking for visual/olfactory evidence of contamination
    - Screening for organic vapors with a handheld Photo-Ionization Detector (PID), if potential to be in MGP work area
- in conformance with all city, state and federal laws for
  - monitoring
  - handling
  - disposal



Photo-Ionization  
Detector (PID)



# ESCR Mitigation Techniques - Air

## We are taking steps to control dust and limit emissions during construction.

To protect air quality, we are taking extensive preventive measures during daily construction activities, and we will increase these measures if monitoring machines indicate additional action is needed.

### Measures to reduce construction vehicle pollution and emissions:

- Use Ultra-Low Sulfur Diesel fuel
- Minimize use of diesel engines, use the best available technology for non-road diesel engines, and restrict truck idling time
- Use barging for large deliveries. One barge has the capacity to divert up to 57 trucks from local roads.

### Measures to reduce and control dust:

- Cover and secure loads for all trucks hauling loose material including sand and dirt
- Use water spray for roads, trucks, truck wheels, excavation areas, and stockpiles
- Cover stockpiles with anchored tarps
- Use extra care, including more frequent application of these measures, during dry periods and high wind periods



# ESCR Mitigation Techniques - Soil

## We are taking steps to protect NYC waters from construction related sediment pollution.

To mitigate stormwater pollution, we are taking extensive measures during daily construction activities. These activities are standard in the construction industry and are regulated by NYSDEC and NYCDEP.

### New York State Department of Environmental Conservation (NYSDEC) State Pollution Discharge Elimination System (SPEDES) Permit Program:

- Prevent petroleum contaminants and sediment from entering the sewer system (ex. using settling tanks)
- Monitoring volume of water entering the sewer system
- Utilize previously identified and approved discharge locations

### New York City Department of Environmental Protection (DEP) Stormwater Pollution Prevention Plan (SWPPP) manages and mitigates construction pollution through:

- Hay bales and silt barriers cover storm drains and prevent soil particles from entering the sewer system and East River
- Silt fences to prevent soil particles from leaving the site
- Turbidity curtains to trap shoreline and incidental sediment from entering the East River
- Soil stabilization techniques including construction staging, tarps, and hay mats
- Cover stockpiles with anchored tarps, spray construction site with water, and cover all truck loads leaving the site to prevent dust emissions
- Frequent SWPPP inspections



# Overview of Contracts



# Overview of Contracts

## **Project Area 1 (PA1)**

- NTP issued August 2021
- Partial Closures:
  - East River Park south of Stanton St.
  - Greenway closure to E. 10<sup>th</sup> St.
  - Corlears Hook Park & passive lawn
- Delancey St. & Corlears Hook pedestrian bridges under construction. Use Corlears Hook temp. ped bridge
- ongoing ConEd Work
- esplanade removal and deep sewer work in progress
- floodwall construction activities ongoing
- O&M retaining wall in progress

## **Project Area 2 (PA2)**

- NTP issued November 2020
- 1,600 ft of floodwall installed
- **Asser Levy Playground Open**
  - Gate 18 installed
- **Stuyvesant Cove Park** including Solar One Area under construction
  - Gate **13, 14, 17** installed
  - site restoration north of E 20<sup>th</sup> St. underway - Greenway open
  - site restoration & flood gate work in progress south of E 20<sup>th</sup> St. – Greenway closed
- **Murphy Brothers** flood protection construction in progress

## **Parallel Conveyance (PC)**

- NTP issued September 2022
- **subsurface investigations in progress**
- **to begin water main replacement**
- **to begin utility relocation**

### **VISIT PA1 GALLERY:**

<https://www.nyc.gov/site/escr/project-updates/gallery.page>

### **VISIT PA2 GALLERY:**

<https://www.nyc.gov/site/escr/project-updates/gallery.page>



# PA2 | Construction Progress

ALL WORK IS SUBJECT TO CHANGE

## 1. Stuyvesant Cove Park north of E 20<sup>th</sup> St.:

- Greenway open
- floodgate 13 installed
- anticipated to reopen end of May 2023

## 2. E 23<sup>rd</sup> St. Intersection & Asser Levy Playground:

- Asser Levy opened to public
- floodwall and floodgate #18 installed
- floodgate 17 installed

## 3. E 18<sup>th</sup> Street & SB FDR ramp:

- Floodwall construction

## 4. Murphy Brothers Playground

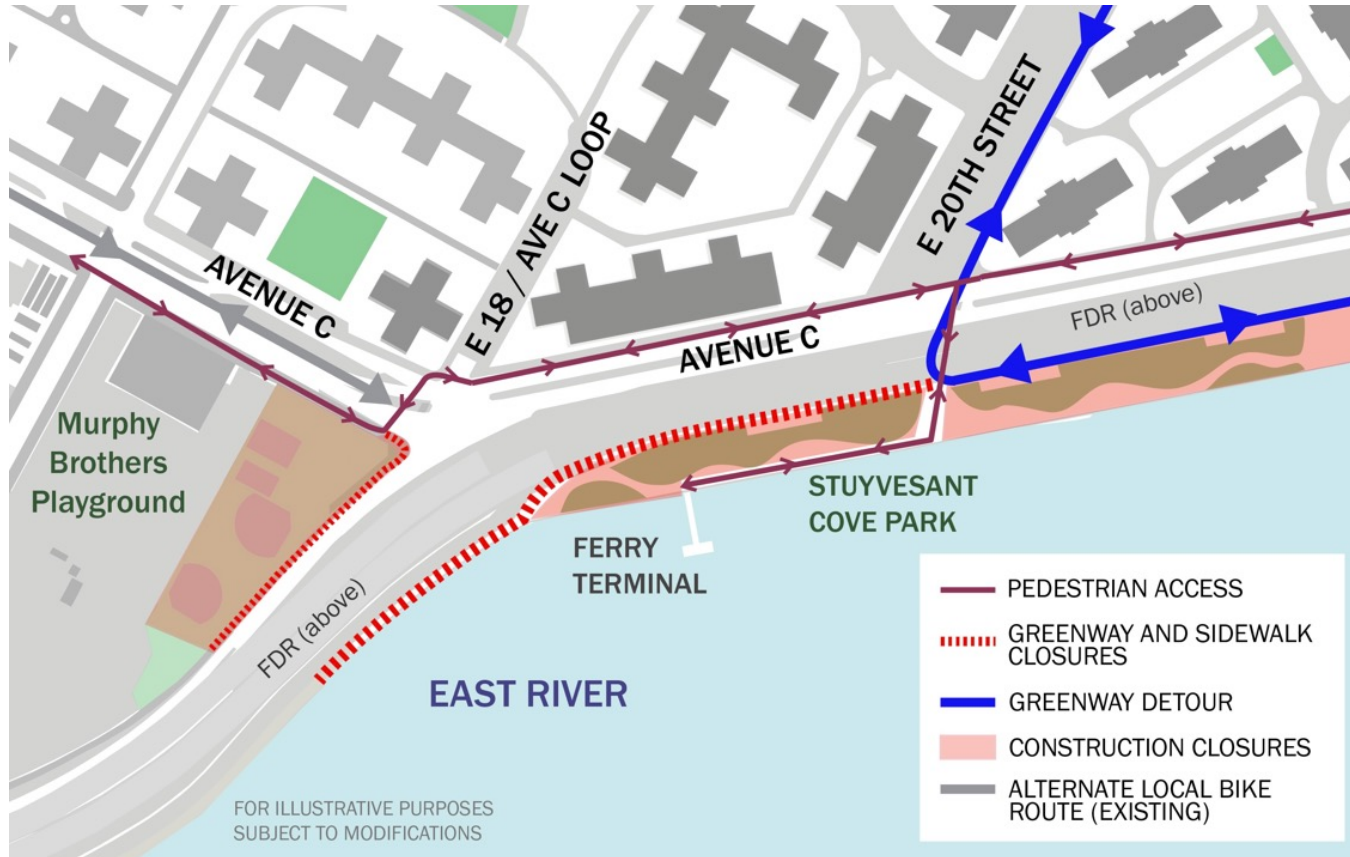
- floodwall construction and pile installation





# PA2 | Construction Progress

ALL WORK IS SUBJECT TO CHANGE



# Project Area 1



# PA1 | Early 2023 Construction Activities

## ALL WORK IS SUBJECT TO CHANGE

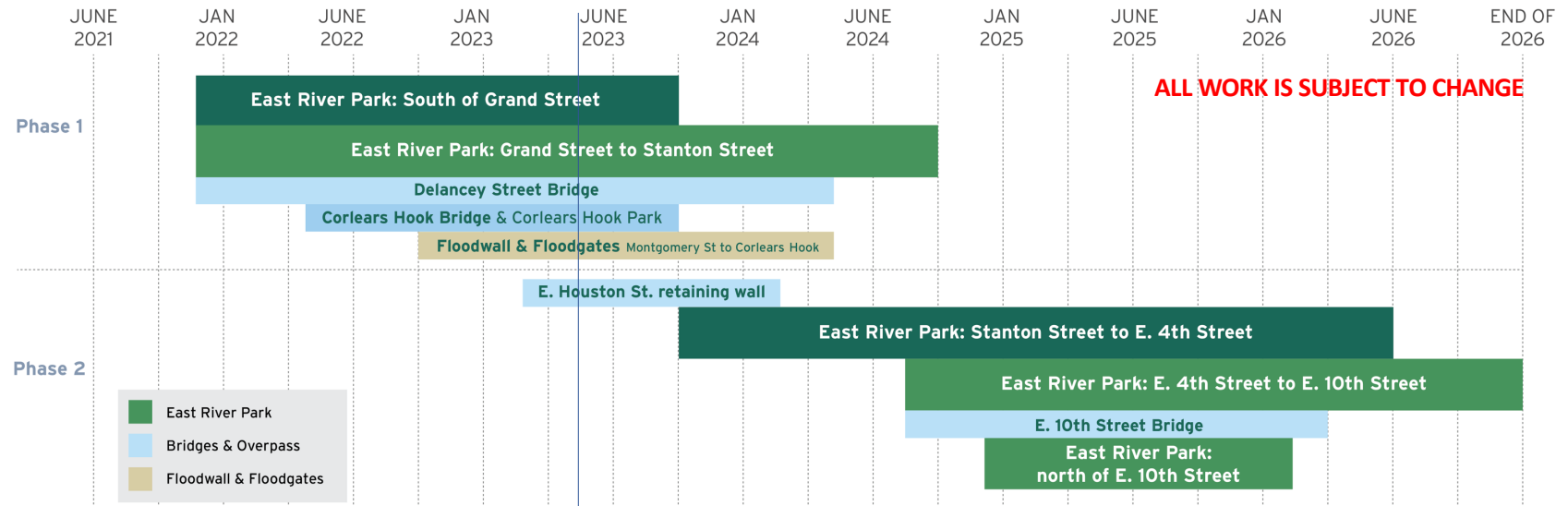
1. Esplanade removal activities along the waterfront.  
Deep sewer activities and pile install.  
Floodwall (Combi-wall) installation.  
Wick Drain Installation.
2. Delancey Street utility, pile and abutment work.
3. Construction for new Corlears Hook bridge.
4. Passive lawn partial closure for utility work.
5. Utility work near Montgomery Street & South Street.  
Begin floodwall construction in 2023.
6. Montgomery St. – Cherry St. Greenway floodwall activities.
7. E. Houston Street south ramp demolition
8. ConEd work in Shared Use Path E. Houston Street to E. 10th Street  
Slip Ramps in use.
9. E 10<sup>th</sup> Street utility work.
10. Ongoing partial FDR lane closures continue at various locations.

Weekly Bulletins & Advisories are issued with construction activities.  
Saturday work is anticipated for some work operations as indicated.



# PA1 | Construction Progress

- Link to PA1 Construction Timeline: <https://www1.nyc.gov/site/escr/project-updates/project-updates.page>





# PA1 | Construction Photos



*Combi-wall construction – April 2023*



*Wick drain installation – April 2023*



# PA1 | Delancey Street Pedestrian Detour

- pedestrian detour on South Street
- to facilitate pier work for the Delancey Street pedestrian bridge
- detour will continue for several months
- signage is posted
- ongoing coordination with DOT to improve signage and access



Community Advisory

EAST SIDE  
COASTAL  
RESILIENCY

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**Project # SANDRESM1 | Borough: Manhattan | Issue Date: 12/16/2022**

The East Side Coastal Resiliency (ESCR) Project is an initiative to provide long-term flood protection on the east side of Manhattan.

## Sidewalk Closure at Delancey Street and FDR Drive

### Starting week of December 27 Ongoing until further notice

Construction activities will necessitate the closure of the sidewalk at Delancey St. between FDR Dr. and Mangin St. This change will be in place 24 hours/day, 7 days/week. Traffic will be maintained and pedestrian detour is in effect. Please follow all signs and directions placed on-site to ensure safety.

FOR ILLUSTRATIVE PURPOSES  
SUBJECT TO MODIFICATIONS

# PA1 | Pedestrian Access Shift at E. Houston Street

ALL WORK IS SUBJECT TO CHANGE

Starting the week of May 8, 2023, ongoing until further notice

- Closure of the E. Houston St. south ramp, overpass south sidewalk, and a portion of the Greenway.
- North ramp will be opened for park access.
- Pedestrians use Baruch Dr. crosswalk to access park
- Park amenities will not be impacted.
- Please follow signage





# PA1 | Pedestrian Access Shift at E. Houston Street

ALL WORK IS SUBJECT TO CHANGE





# PA1 | E. Houston Street Lead Abatement

ALL WORK IS SUBJECT TO CHANGE

- As we begin this work, the public's safety is of utmost priority.
- The team will be handling the potential of lead paint safely, with proper oversight and in accordance with all local, state, and federal guidelines.
- Noise and air monitors are in place around the work area.
- The removal of materials potentially containing lead paint will be completed by a subcontractor certified in lead abatement who will isolate and/or remove lead as needed using several methods which are approved industry standards.

# PA1 | What We've Heard

- **Archaeology Update:** Field investigation work is nearing completion.

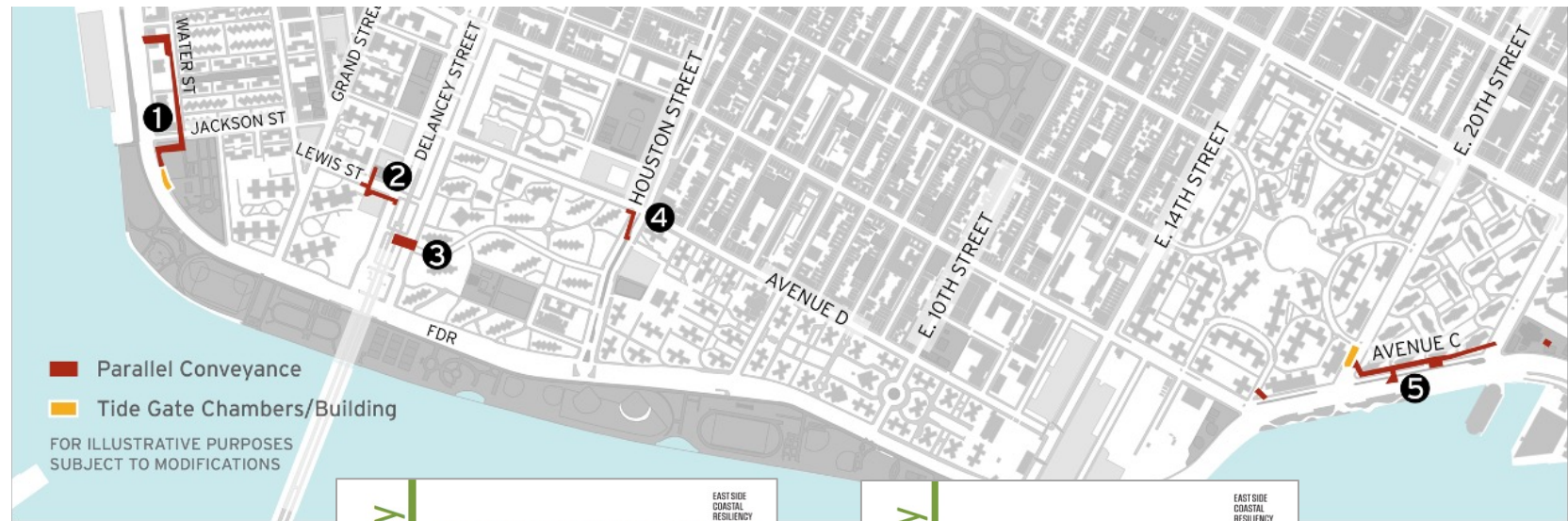
Per LPC: After field work is completed, the public outreach and mitigation plans will be reviewed and approved as per the Programmatic Agreement. Once approved, construction can proceed. The final archaeology report may take 18-24 months to become public due to the size and complexity of the project.

- **Pedestrian Signage:** coordinating with NYC DOT on additional signage at E10th Street & Delancey Street
- **FDR Drive Greening Opportunities:** DOT just started the East River Park Mobility and Access Study and recently began to communicate with the CAG.
- **Artificial Turf:** ESCR increases the area of permeable surfaces in East River Park by approximately 7% as compared to the original park design which will enhance the park's drainage and decrease stormwater runoff and ponding within the park. Regarding turf specifically, the park will have almost twice as much natural grass as compared to the area of synthetic turf. Those natural turf areas include passive recreation lawns and some sports fields.

# PC | Construction Progress

ALL WORK IS SUBJECT TO CHANGE

- Location 1 – Jackson St. & Water St.
  - To begin water main replacement
  - To begin utility relocation
- Location 2 – Lewis St. & Delancey St.
- Location 3 – Baruch Dr. & Delancey St.
  - To begin test pit operations
- Location 4 – Houston & Avenue D
  - Continued test pit operations
- Location 5 – Avenue C, E20th to E23rd
  - Project Area Survey
  - Test pit operations



**Community Advisory**

EAST SIDE COASTAL RESILIENCY  
 Project # SANDRESC | Borough: Manhattan | Issue Date: 4/11/2023  
 The East Side Coastal Resiliency (ESCR) Project is an initiative to provide long-term flood protection on the east side of Manhattan.

**Limited Parking**  
 April 13, 2023  
 Ongoing until further notice  
 From 7:00am to 3:30pm

- North side of Delancey St. S. from Lewis to Margin St
- Baruch Dr between Delancey St. North and South
- Intersection of Delancey St. North and Baruch Dr.

These temporary restrictions are necessary to excavate test pits to determine the location of underground structures and utilities. Please follow all posted signs.

FOR ILLUSTRATIVE PURPOSES  
 SUBJECT TO MODIFICATIONS

DELANCEY ST NORTH  
 WILLIAMSBURG BRIDGE ABOVE  
 DELANCEY ST SOUTH  
 BROOME ST  
 LEWIS ST  
 GRAND STREET  
 FDR

Questions? ¿Preguntas? 問題?  
 PC Community Construction Liaison (CCL) | Email: sandrespc.ccl@gmail.com  
 Tania Wolkow, 914-313-6863  
 Inquiries | Consulta en Línea | 線上諮詢: www.nyc.gov/escr/contact

PLEASE NOTE: Due to unforeseen conditions (weather, field conditions, etc.) it may become necessary to change some scheduled work locations and operations. During non-construction hours, emergency situations, please contact the New York City Government Services and Information Hotline at 311 or Universal Emergency Number 911.

Department of Design and Construction  
 Office of Community Outreach & Notification

NYC  
 NYC  
 NYC

**Community Advisory**

EAST SIDE COASTAL RESILIENCY  
 Project # SANDRESC | Borough: Manhattan | Issue Date: 04/06/2023  
 The East Side Coastal Resiliency (ESCR) Project is an initiative to provide long-term flood protection on the east side of Manhattan.

**No Parking**  
 Monday, April 10 - Friday, April 14, 2023  
 7:00 AM - 4:00 PM

- 1) North side of Water St. between Jackson St. and Gouverneur Slip E.
- 2) Both sides of Gouverneur Slip E. between Water St. and South St.

These temporary restrictions are necessary to facilitate sawcutting for Water Mains on the Street. All driveways will remain open. Please follow all posted signs.

FOR ILLUSTRATIVE PURPOSES  
 SUBJECT TO MODIFICATIONS

WATER ST  
 SOUTH ST  
 GOVERNOUR SLIP  
 WATER ST  
 JACKSON ST

Questions? ¿Preguntas? 問題?  
 PC Community Construction Liaison (CCL) | Email: sandrespc.ccl@gmail.com  
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Department of Design and Construction  
 Office of Community Outreach & Notification

NYC  
 NYC  
 NYC



# PC | Typical Construction Sequencing

ALL WORK IS SUBJECT TO CHANGE

Construction Activities have begun in the southern portion of the project and will move north



## LOCATIONS WITHOUT TIDE GATE CHAMBER BUILDINGS

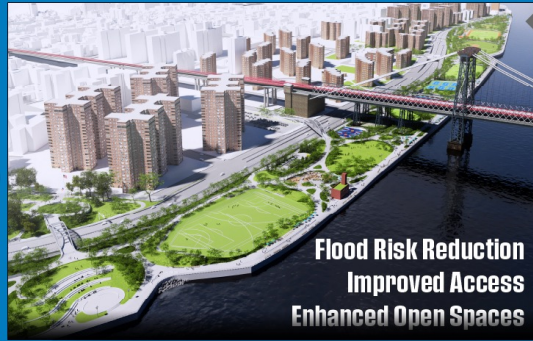
- A. Mobilization & Protection
- B. Test Pits and Site Survey
- C. Utility relocation and upgrades
- D. Install parallel conveyance sewer lines
- E. Final restoration

## LOCATIONS WITH INTERCEPTOR GATE CHAMBER BUILDINGS

- A. Mobilization & Protection
- B. Test Pits and Site Survey
- C. Utility relocation and upgrades
- D. Excavation for Interceptor Gate Chambers
- E. Install parallel conveyance sewer lines
- F. Final restoration

# PC | What We've Heard

- **Drainage Capacity:** [DEP Response from 1/22](#): DEP sewers in the area are designed to handle a rainfall intensity of 1.75 inches per hour. During a rain event, the regulator diverts sanitary flow and a small amount of storm flow to the interceptor. The excess combined flow is discharged through the outfall into open waters. If there's a storm event causing tide gate to close, the excess combined flow cannot be discharged through the outfall and will cause the sewer system to backup. The parallel conveyance sewers are designed to handle this flow and convey it to the interceptor to prevent flooding and sewer backups in the protected area. The Parallel Conveyance system includes small size pipes ranging from 24 to 48 inches in diameter. The hourly capacity is difficult to quantify because of the number of mechanisms to be factored into the equation but it's less than a rainfall intensity of 1.75 inches per hour
- **Water Shutdowns:** We are working with DEP and the contractor to ensure that water shutdowns are clearly communicated to affected buildings in advance. DEP is responsible for routinely testing the city's drinking water.



LEARN MORE

Construction on the East Side Coastal Resiliency project will begin in Fall 2020. Learn more about where construction will occur and how to receive updates throughout the project.

Flood Risk Reduction  
Improved Access  
Enhanced Open Spaces

# NEED MORE INFORMATION?

## VISIT US AT:

[www.nyc.gov/escr](http://www.nyc.gov/escr)

### East Side Coastal Resiliency

The East Side Coastal Resiliency (ESCR) Project is a coastal protection initiative, jointly funded by the City of New York and the federal government, aimed at reducing flood risk due to coastal storms and sea level rise on Manhattan's East Side from East 25th Street to Montgomery Street. The boundaries of this project correspond with the natural "pinch-points" in the 100-year floodplain: areas where the land is higher along the coastline, making it easier to close the system off from water entering from the north and south. The project design integrates flood protection into the community fabric, improving waterfront open spaces and access, rather than walling off the neighborhood. Construction on the East Side Coastal Resiliency project will begin in Fall 2020 and continue through 2025.

 <b>Construction Progress</b>	 <b>Resiliency &amp; Flood Protection</b>	 <b>Project Background &amp; Goals</b>	 <b>Project Design</b>
<p><b>Construction Notices</b> View our most recent community presentations for updates as we prepare for upcoming construction activities.</p>	<p><b>Resiliency and Flood Protection</b> Learn more about ESCR's resiliency and the forward-thinking flood protection measures being implemented to protect 110,000 New Yorkers from the impacts of climate change.</p>	<p><b>Project Background and Goals</b> Read about the history and background of ESCR, and the goals driving this technically complex infrastructure project.</p>	<p><b>Project Design</b> From flood protection measures to bike lanes and ball fields, the ESCR project is improving open spaces and access in the Lower East Side while strengthening the city's coastline.</p>

