

Chapter 25: References

This chapter provides a listing of all the reference documents and other FRA consulted in the preparation of this EIS, including applicable laws and regulations guidance documents, reports, websites and databases, and other sources. The references FRA used are presented to correspond to the chapter of the DEIS and Draft Section 4(f) Evaluation where they were first referenced (the chapter references listed include any references from corresponding appendices). The stakeholders in the Proposed Action (WRY Tenant LLC, Amtrak, and MTA LIRR) developed the design criteria for the various project elements and provided design and construction information and assumptions for FRA's use to prepare the analyses in this EIS and Draft Section 4(f) Evaluation.

25.1 INTRODUCTION

MTA and CPC, Western Rail Yard Project – Final Environmental Impact Statement. October 2009.

Amtrak and FRA, Finding of No Significant Impact, *Environmental Assessment for Construction of a Concrete Casing in the Hudson Yards, New York, New York*. May 2013.

Amtrak and FRA, Finding of No Significant Impact, Supplemental Environmental Assessment for Construction of a Concrete Casing Extension in the Hudson Yards, New York, New York. November 2014.

42 USC 4321 et seq. National Environmental Policy Act of 1969 (NEPA), https://www.govinfo.gov/app/details/USCODE-2010-title42/USCODE-2010-title42-chap55-sec4321. Accessed November 18, 2020.

40 CFR parts 1500–1508, 23 CFR part 771, and 23 U.S.C. 139. Council on Environmental Quality NEPA regulations. https://www.govinfo.gov/app/details/CFR-2011-title40-vol33/CFR-2011-title40-vol33-part-id1102. Accessed November 18, 2020.

FRA Procedures for Considering Environmental Impacts (FRA's Environmental Procedures, 64 FR 28545, May 26, 1999, as updated in 78 FR 2713, January 14, 2013). https://railroads.dot.gov/elibrary/fra-procedures-considering-environmental-impacts. Accessed November 18, 2020.

FRA, September 2020, *Western Rail Yard Infrastructure Project Scoping Summary Report*, found at http://westernrailyardinfrastructure.com/library.html or at www.regulations.gov (using Docket Number FRA-2020-0039).

23 CFR Part 771. Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) Environmental Impact and Related Procedures. https://www.govinfo.gov/app/details/CFR-2016-title23-vol1/CFR-2016-title23-vol1-part771. Accessed November 18, 2020.

54 U.S.C. § 306108. Section 106 of the National Historic Preservation Act (NHPA) of 1966. https://www.achp.gov/sites/default/files/2018-06/nhpa.pdf. Accessed November 18, 2020.

42 U.S.C. § 7401 et seq. Clean Air Act of 1970. https://www.govinfo.gov/content/pkg/USCODE-2010-title42/html/USCODE-2010-title42-chap85.htm. Accessed November 18, 2020.

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33 U.S.C. §§ 1251-138. Clean Water Act of 1972.

https://www.govinfo.gov/app/details/USCODE-2015-title33/USCODE-2015-title33-chap26-subchapl-sec1251. Accessed November 18, 2020.

49 U.S.C. § 303. Section 4(f) of the Department of Transportation Act of 1966. https://www.govinfo.gov/app/details/USCODE-2012-title49/USCODE-2012-title49-subtitle1-chap3-subchap1-sec303. Accessed November 18, 2020.

16 U.S.C. § 1531. Endangered Species Act of 1973.

https://www.govinfo.gov/app/details/USCODE-2011-title16/USCODE-2011-title16-chap35-sec1531. Accessed November 18, 2020.

Executive Order 11988 and USDOT Order 5650.2 on Floodplain Management. https://www.fema.gov/executive-order-11988-floodplain-management-0. Accessed November 18, 2020.

Executive Order 11990 on Protection of Wetlands. https://www.fws.gov/policy/613fw2.html. Accessed November 18, 2020.

16 U.S.C. ch. 33 § 1451 et seq. Coastal Zone Management Act of 1972.

https://www.govinfo.gov/content/pkg/USCODE-2012-title16/html/USCODE-2012-title16-chap33-sec1451.htm. Accessed November 18, 2020.

Executive Order 12898 on Environmental Justice.

https://www.transportation.gov/sites/dot.gov/files/docs/eo12898.pdf. Accessed November 18, 2020.

2014 City Environmental Quality Review (CEQR) Technical Manual, New York City Department of City Planning. https://www1.nyc.gov/assets/oec/technical-manual/2014_ceqr_technical_manual_rev_04_27_2016.pdf. Accessed on November 18, 2020.

23 USC 139. Fixing America's Surface Transportation Act of 2015 (FAST Act). https://www.govinfo.gov/app/details/USCODE-2011-title23/USCODE-2011-title23-chap1-sec139. Accessed on November 18, 2020.

MTA and CPC. Western Rail Yard Project - Final Environmental Impact Statement, October 2009.

25.2 PURPOSE AND NEED

MTA – About Us – The MTA Network: Public Transportation for the New York Region. http://web.mta.info/mta/network.htm. Accessed January 15, 2021.

New York Times article, published November 25, 2020; Updated December 16, 2020. https://www.nytimes.com/2020/11/25/nyregion/mta-budget.html. Accessed January 15, 2021.

MTA – Transparency – Financial & Budget Statements; "MTA 2021 Budget and 2021-2024 Financial Plan Adoption Materials." https://new.mta.info/document/25291 Accessed January 15, 2021.

MTA – Transparency – Financial & Budget Statements; "MTA 2021 Final Proposed Budget November Financial Plan 2021-2024." https://new.mta.info/transparency/financial-information/financial-and-budget-statements Accessed January 15. 2021.

USDOT – What We Do – Mission: https://www.transportation.gov/about Accessed January 15, 2021.

25.3 ALTERNATIVES

23 USC 139. Fixing America's Surface Transportation Act of 2015 (FAST Act). https://www.govinfo.gov/app/details/USCODE-2011-title23/USCODE-2011-title23-chap1-sec139. Accessed on November 18, 2020.

40 CFR parts 1500–1508. Council on Environmental Quality NEPA regulations. https://www.govinfo.gov/app/details/CFR-2011-title40-vol33/CFR-2011-title40-vol33-part-id1102. Accessed November 18, 2020.

Amtrak Tunnel Encasement Final Report, May 2011.

Tutor Perini Corporation and Parsons Brinckerhoff. Amtrak Gateway Project – Hudson Yards Study Final Report, 2012 (2012 Hudson Yards Study Final Report). https://railroads.dot.gov/sites/fra.dot.gov/files/fra_net/3051/HudsonYardsEA_AppendixA_TutorPeriniPBstudy.pdf. Accessed November 18, 2020.

Penn Station New York Major Support Facilities and Potential Improvements between the Hudson River and Seventh Avenue, Preliminary Track Alignment Design and Impacted Disciplines, Phase I – Section 1 (2011).

Penn Station New York Major Support Facilities and Potential Improvements Between the Hudson River and Seventh Avenue, Preliminary Track Alignment Design and Impacted Disciplines, Phase 1 – Section 2A (2012).

Amtrak Gateway Project, High Speed Rail Penn Station, New York Feasibility Study, Phase 1 – Section 2B (2012).

1989 MTA Master Plan. *Metropolitan Transportation Authority, Master Plan, Caemmerer West Side Yard, New York, NY.* August 1989.

Design Report LIRR 30% Design Report (Resubmission), Hudson Yards – WRY Platform & Associated Project, Kohn Pedersen Fox Associates. April 15, 2019.

Hudson Yards L.I.R.R. West Rail Yard- 30% Design Report (Resubmission). Related Oxford. April 15, 2019.

2402 Hudson Yards Platform-LIRR "Building C" – 60% Design Submission Memorandum. Kohn Pedersen Fox Associates. December 21, 2018.

MTA and CPC. Western Rail Yard Project – Final Environmental Impact Statement, October 2009.

NFPA 130. National Fire Protection Association's Standard for Fixed Guideway Transit and Passenger Rail Systems. 2020.

FRA, Emergency Preparedness Guidelines for Passenger Trains. https://railroads.dot.gov/rail-network-development/passenger-rail/passenger-train-emergency-preparedness. Accessed January 22, 2021.

25.4 ANALYSIS FRAMEWORK

42 USC 4321 et seq. National Environmental Policy Act of 1969 (NEPA), https://www.govinfo.gov/app/details/USCODE-2010-title42/USCODE-2010-title42-chap55-sec4321. Accessed November 18, 2020.



40 CFR parts 1500–1508. Council on Environmental Quality NEPA regulations. https://www.govinfo.gov/app/details/CFR-2011-title40-vol33/CFR-2011-title40-vol33-part-id1102. Accessed November 18, 2020.

23 CFR Part 771. Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) Environmental Impact and Related Procedures. https://www.govinfo.gov/app/details/CFR-2016-title23-vol1/CFR-2016-title23-vol1-part771. Accessed November 18, 2020.

23 USC 139. Fixing America's Surface Transportation Act of 2015 (FAST Act). https://www.govinfo.gov/app/details/USCODE-2011-title23/USCODE-2011-title23-chap1-sec139. Accessed on November 18, 2020.

2014 City Environmental Quality Review (CEQR) Technical Manual, New York City Department of City Planning.https://www1.nyc.gov/site/oec/environmental-quality-review/technical-manual.page. Accessed November 18, 2020.

MTA and CPC. Western Rail Yard Project – Final Environmental Impact Statement, October 2009.

Amtrak and FRA. Finding of No Significant Impact, *Environmental Assessment for Construction of a Concrete Casing in the Hudson Yards, New York, New York*. May 2013.

Amtrak and FRA. Finding of No Significant Impact, Supplemental Environmental Assessment for Construction of a Concrete Casing Extension in the Hudson Yards, New York, New York. November 2014.

Correspondence with New York City Department of City Planning Manhattan Office related to future private development proposed in the Study Area (May 2020, June 2020, October 2020).

25.5 LAND USE, LAND PLANNING, AND PROPERTY

42 U.S.C. 4601-4655. Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended. https://www.federalregister.gov/d/2015-18159. Accessed on January 22, 2021.

23 CFR Part 771. Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) Environmental Impact and Related Procedures. https://www.govinfo.gov/app/details/CFR-2016-title23-vol1/CFR-2016-title23-vol1-part771. Accessed November 18, 2020.

2014 City Environmental Quality Review (CEQR) Technical Manual, New York City Department of City Planning. https://www1.nyc.gov/site/oec/environmental-quality-review/technical-manual.page. Accessed November 18, 2020.

Amtrak, Amtrak Vision for the Northeast Corridor 2012 Update Report; A Vision for High-Speed Rail in the Northeast Corridor, 2010; and FRA, Northeast Corridor Future Program Studies, 2013.

Amtrak, Penn Station New York Major Support Facilities and Potential Improvements Between the Hudson River and 7th Avenue, Preliminary Track Alignment Design and Impacted Disciplines, Phase I – Section 1, Final Report (2011).

Amtrak, Penn Station New York Major Support Facilities and Potential Improvements Between the Hudson River and 7th Avenue, Preliminary Track Alignment Design and Impacted Disciplines, Phase 1 – Section 2A, Draft Report. 2012.

Amtrak, Amtrak Gateway Project, High Speed Rail Penn Station, New York Feasibility Study, Phase 1 – Section 2B, Final Report. 2012.

Amtrak and FRA, *Northeast Corridor Infrastructure Master Plan* (*NEC Master Plan*). May 2010. https://nec.amtrak.com/project/the-gateway-program/. Accessed November 18, 2020.

New York Metropolitan Transportation Council's (NYMTC) Regional Transportation Plan 2045. https://www.nymtc.org/Portals/0/Pdf/RTP/Plan%202045%20Final%20Documents/Plan%202045%20Full%20Main%20document/Full%20Main%20Plan%202045_R_6-27-17.pdf. Accessed November 18, 2020.

NYC Zoning Handbook,

https://www1.nyc.gov/assets/planning/download/pdf/about/publications/zoning-handbook/zoning-handbook.pdf. Accessed November 18, 2020.

Mayor's Office for Long Term Planning and Sustainability, OneNYC 2050. April 2019.

New York City Department of City Planning, Vision 2020: New York City Comprehensive Waterfront Plan.

1989 MTA Master Plan, Metropolitan Transportation Authority, Master Plan, Caemmerer West Side Yard, New York, NY. August 1989.

NYC Dept. of City Planning MapPLUTO 20v7 and AKRF, Inc. Study Area Field Survey

25.6 TRANSPORTATION

40 CFR § 1508.27. Council on Environmental Quality NEPA regulations. https://www.govinfo.gov/app/details/CFR-2011-title40-vol33/CFR-2011-title40-vol33-part-id1102. Accessed November 18, 2020.

2014 City Environmental Quality Review (CEQR) Technical Manual, New York City Department of City Planning.https://www1.nyc.gov/site/oec/environmental-quality-review/technical-manual.page. Accessed November 18, 2020.

Port Authority of NY & NJ, Port Authority Bus Terminal Draft Environmental Impact Statement. 2018.

2019 CBD Tolling ATR Central Business District (CDB) EIS – Metropolitan Transportation Authority, Central Business District Tolling Program Environmental Assessment

Metropolitan Transportation Authority, No. 7 Subway Extension–Hudson Yards Rezoning and Development Program. FGEIS, 2005. New York Times Building, In-Person Construction Survey, AKRF, Inc. (April 2006)

Transportation Research Board. Highway Capacity Manual, 2000.

NYCDOT Parking Regulations https://data.cityofnewyork.us/Transportation/Parking-Regulation-Locations-and-Signs/xswq-wnv9 and WSP Field Observations (2020/2021)

25.7 AIR QUALITY, GREENHOUSE GAS EMISSIONS, AND RESILIENCE

2014 City Environmental Quality Review (CEQR) Technical Manual, New York City Department of City Planning.https://www1.nyc.gov/site/oec/environmental-quality-review/technical-manual.page. Accessed November 18, 2020.

42 U.S.C. § 7401 et seq. Clean Air Act of 1970. https://www.govinfo.gov/content/pkg/USCODE-2010-title42/html/USCODE-2010-title42-chap85.htm. Accessed November 18, 2020.



Climate Leadership and Community Protection Act (CLCPA), New York State, 2019. https://climate.ny.gov/. Accessed November 18, 2020.

USEPA. Motor Vehicle Emission Simulator (MOVES), User Guide for MOVES2014a, November 2015.

USEPA. Compilations of Air Pollutant Emission Factors AP-42, Fifth Edition, Volume I: Stationary Point and Area Sources, Ch. 13.2.1, NC. http://www.epa.gov/ttn/chief/ap42, January 2011

NYSDOT. 2009 NHTS, New York State Add-On. Key Tables. Table 3: Average Travel Day Person-Trip Length By Mode and Purpose, trip-to work distance for SOV in NYMTC 10-county area (2011).

EPA. Emission Factors for Greenhouse Gas Inventories. 19 November 2015.

The Portland Cement Association. Life Cycle Inventory of Portland Cement Manufacture. 2006.

Arpad Horvath et al. Pavement Life-cycle Assessment Tool for Environmental and Economic Effects, Consortium on Green Design and Manufacturing. UC Berkeley. 2007.

USEPA. Inventory of U.S. Climate Change and Sinks: 1990–2009. April 15, 2011.

Arthur T. DeGaetano, Christopher M. Castellano. *Future projections of extreme precipitation intensity-duration-frequency curves for climate adaptation planning in New York State*. Climate Services, Volume 5. January 2017.

NRCC/NYSERDA. *Intensity Duration Frequency Curves for New York State: Future Projections for a Changing Climate*. http://ny-idf-projections.nrcc.cornell.edu. Accessed May 2017.

FEMA. Flood Insurance Rate Map, New York County, New York—Preliminary. Panel 69 of 457. Map 3604970069G. December 5, 2013.

USEPA, Additional Clarification Regarding Application of Appendix W Modeling for the 1-hour NO₂ National Ambient Air Quality Standard, March 11, 2011.

New York State Air Quality Report Ambient Air Monitoring System, NYSDEC, 2017–2019.

Climate Change 2014: Synthesis Report. Contribution of Working Groups I, II and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. Intergovernmental Panel on Climate Change. 2014.

Climate Change Impacts in the United States: The Third National Climate Assessment. U.S. Global Change Research Program. October 2014.

Advancing Tools and Methods for Flexible Adaptation Pathways and Science Policy Integration. New York City Panel on Climate Change 2019 Report. March 2019.

European Commission. *Impacts of Climate Change on Transport: A Focus on Road and Rail Transport Infrastructures.* Available: http://ftp.jrc.es/EURdoc/JRC72217.pdf. 2012.

FHWA. U.S. Climate Change Science Program Synthesis and Assessment Product 4.7: Impacts of Climate Change and Variability on Transportation Systems and Infrastructure: Gulf Coast Study, Phase I. March 2008.

The City of New York Mayor's Office of Long-Term Planning and Sustainability. *Inventory of New York City Greenhouse Gas Emissions in 2019*. https://nyc-ghg-inventory.cusp.nyu.edu/

25.8 NOISE AND VIBRATION

2014 City Environmental Quality Review (CEQR) Technical Manual, New York City Department of City Planning. https://www1.nyc.gov/site/oec/environmental-quality-review/technical-manual.page. Accessed November 18, 2020.

New York City Zoning Resolution. https://www1.nyc.gov/site/planning/zoning/access-text.page. Accessed November 18, 2020.

FTA Guidance Manual, Transit Noise and Vibration Impact Assessment (FTA Report No. 0123), September 2018.

Transit Noise and Vibration Impact Assessment, FTA-VA-90-1003-06, May 2006.

New York City Administrative Code, Section 24, Chapter 2, as amended by Local Law 113 for the year 2005, (commonly referred to as the New York City Noise Control Code), https://www1.nyc.gov/site/dep/environment/noise-code.page. Accessed January 15, 2021.

25.9 CULTURAL RESOURCES

23 CFR Part 771. Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) Environmental Impact and Related Procedures. https://www.govinfo.gov/app/details/CFR-2016-title23-vol1/CFR-2016-title23-vol1-part771. Accessed November 18, 2020.

36 CFR § 800.8. Coordination With the National Environmental Policy Act. https://www.govinfo.gov/app/details/CFR-2012-title36-vol3/CFR-2012-title36-vol3-sec800-8. Accessed on January 22, 2021.

40 C.F.R. § 1508.8. Effects. https://www.govinfo.gov/content/pkg/CFR-2002-title40-vol28/pdf/CFR-2002-title40-vol28-sec1508-8.pdf. Accessed on April 13, 2021.

54 USC § 306108. National Historic Preservation Act.

https://uscode.house.gov/view.xhtml?req=(title:54%20section:306108%20edition:prelim)#:~:text =%C2%A7306108.,of%20undertaking%20on%20historic%20property&text=The%20head%20of%20the%20Federal,L.&text=Pub.,-L. Accessed November 18, 2020.

Advisory Council on Historic Preservation. *NHPA: A Handbook for Integrating NEPA and Section* 106. March 2013.

NHPA: A Handbook for Integrating NEPA and Section 106

National Register Bulletin 36, *Guidelines for Evaluating and Registering Archeological Resources*, prepared by the National Park Service.

https://www.nps.gov/subjects/nationalregister/upload/NRB36-Complete.pdf. Accessed November 18, 2020.

Metropolitan Transportation Authority, 2004 Hudson Yards Final Generic Environment Impact Statement (FGEIS). 2004.

OPRHP, Kathy Howe, Resource Evaluation, New York Improvement & Tunnel Extension of the Pennsylvania Railroad from NJ to Manhattan to LIC Queens, USN: 06101.018103, March 11, 2011.

Amtrak and FRA. Finding of No Significant Impact, *Environmental Assessment for Construction of a Concrete Casing in the Hudson Yards, New York, New York*. May 2013.

TPPN #10/88 – New York City Department of Building's Technical Policy and Procedure Notice #10/88



Preservation Tech Notes, Temporary Protection #3: Protecting a Historic Structure during Adjacent Construction – guidance document by the National Park Service, 2001.

Protection Programs for Landmarked Buildings – guidance document by the New York City Landmarks Preservation Commission

25.10 PARKS AND RECREATION AREAS

2014 City Environmental Quality Review (CEQR) Technical Manual, New York City Department of City Planning.https://www1.nyc.gov/site/oec/environmental-quality-review/technical-manual.page. Accessed November 18, 2020.

NYC Parks, HRPT, Friends of the High Line. Block 675 East Final Environmental Impact Statement. April 2918.

FRA and NJ TRANSIT. Hudson Tunnel Draft Environmental Impact Statement and Draft Section 4(f) Evaluation. June 2017.

MTA and CPC, Western Rail Yard Project – Final Environmental Impact Statement. October 2009.

U.S. Census Bureau. ACS 2014–2018 5-Year Estimates.

https://www.census.gov/newsroom/press-releases/2019/acs-5-year.html. Accessed November 18, 2020.

OnTheMap Application. https://onthemap.ces.census.gov/. Accessed November 18, 2020.

LEHD Origin-Destination Employment Statistics. https://lehd.ces.census.gov/data/. Accessed November 18, 2020.

23 CFR Part 771. Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) Environmental Impact and Related Procedures. https://www.govinfo.gov/app/details/CFR-2016-title23-vol1/CFR-2016-title23-vol1-part771. Accessed November 18, 2020.

25.11 AESTHETICS AND VISUAL QUALITY

Federal Highway Administration. Guidelines for the Visual Impact Assessment of Highway Projects. January 2015.

25.12 CONTAMINATED MATERIALS

American Society for Testing and Materials (ASTM) Standard E1527-13

Caemmerer Yard Phase IA Environmental Site Assessment, Parsons Brinckerhoff and Louis Berger and Associates, P.C. (LBA), July 2004.

Caemmerer Yard Phase II Environmental Site Investigation, Parsons Brinckerhoff, 2004

Phase I ESA for Western Rail Yard, LBA, January 2009

NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046. https://www.dec.ny.gov/docs/remediation hudson pdf/cpsoil.pdf. Accessed November 18, 2020.

MTA and CPC, No. 7 Subway Extension-Hudson Yards Rezoning and Development Program Final Generic Environmental Impact Statement. 2004.

MTA and CPC, Western Rail Yard Project – Final Environmental Impact Statement. October 2009.

Amtrak and FRA, Finding of No Significant Impact, Environmental Assessment for Construction of a Concrete Casing in the Hudson Yards, New York, New York. May 2013.

Amtrak and FRA, Finding of No Significant Impact, Supplemental Environmental Assessment for Construction of a Concrete Casing Extension in the Hudson Yards, New York, New York. November 2014.

25.13 UTILITIES AND ENERGY

23 CFR Part 771. Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) Environmental Impact and Related Procedures. https://www.govinfo.gov/app/details/CFR-2016-title23-vol1/CFR-2016-title23-vol1-part771. Accessed November 18, 2020.

DSNY Annual Report; New York City Municipal Refuse and Recycling Statistics: Fiscal Year 2018, https://dsny.cityofnewyork.us/wp-content/uploads/2018/10/about_dsny-non-dsny-collections-FY2018.pdf. Accessed November 18, 2020.

Draft Amended Drainage Plan for Districts 3, 2 ½, and 2 in the Hudson Yards Area, City of New York City Department of Environmental Protection, Bureau of Water and Sewer Operations Engineering (October 2009).

Comprehensive Solid Waste Management Plan, September 2006; Attachment IV, Table IV 2-2.

Comprehensive Solid Waste Management Plan, September 2006; Attachment II, Table II 2-6.

Consolidated Edison Annual Report, 2019.

Design Report LIRR 30% Design Report (Re-Submission), Hudson Yards – WRY Platform & Associated Project, Kohn Pedersen Fox Associates. April 15, 2019.

LIRR 30% Design Drawings (Re-Submission), (Potential Utility Conflicts, Removals) Hudson Yards – West Platform, Langan Engineering & Environmental Services, Inc. April 15, 2019.

2014 New York City Plumbing Code, Chapter 3, "General Regulations," Section 301.3, "Connections to the Sanitary Drainage System." (https://up.codes/viewer/new_york_city/nyc-plumbing-code-2014/chapter/3/general-regulations#3), accessed February 3, 2021.

25.14 SOILS AND GEOLOGY

New York City Building Code, 2014 edition. https://www1.nyc.gov/site/buildings/codes/2014-construction-codes.page. Accessed November 18, 2020.

American Society of Civil Engineers 7-10, 2010 edition.

Amtrak and FRA. November 2014. Finding of No Significant Impact, Supplemental Environmental Assessment for Construction of a Concrete Casing Extension in the Hudson Yards, New York, New York.

United States Geological Survey (USGS) 7.5 Minute Topographic Map

USGS National Seismic Hazard Map of New York

USGS maps for southern New York region (bedrock and surficial geologic maps)

United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Soil Survey Geographic Database (SSURGO)

https://websoilsurvey.sc.egov.usda.gov/



25.15 WATER AND NATURAL RESOURCES

Bain, M.B. 1997. Atlantic and shortnose sturgeons of the Hudson River: common and divergent life history attributes. Environmental Biology of Fishes 48: 347-358.

Briggs, P. T. and J. R. Waldman. 2002. Annotated list of fishes reported from the marine waters of New York. Northeastern Naturalist. 9: 47-80.

Brosnan, T.M., and M.L. O'Shea. 1995. New York Harbor Water Quality Survey: 1994. New York City Department of Environmental Protection, Marine Sciences Section, Wards Island, NY.

Cade, T.J., M. Martell, P. Redig, G. Septon, H. Tordoff. Peregrine Falcons in Urban North America. 1996. In: Ed. Bird, D.M., D.E. Varland, J.J. Negro. Raptors in Human Landscapes: Adaptation to Built and Cultivated Environments. Academic Press. San Diego, CA. pp. 3-14.

Coastal Environmental Services (Coastal). 1987. Television City Project: Characterization of the aquatic ecology of the site and assessment of potential impacts of the project on the aquatic biota. Prepared for Berle, Cass, and Case, New York, New York; McKeown and Franz, Inc., New York, NY; and The Trump Organization, New York, NY.

EA Engineering, Science, and Technology (EA). 1990. Phase I feasibility study of the aquatic ecology along the Hudson River in Manhattan. Final Report. Prepared for New York City Public Development Corporation, New York, NY. Newburgh, NY.

EEA, Inc. (EEA). 1988. Hudson River Center Site Aquatic Environmental Study. Final Report. Garden City, NY.

Edinger, G.J., D.J. Evans, S. Gebauer, T.G. Howard, D.M. Hunt, and A.M. Olivero. 2014. Ecological Communities of New York State, Second Edition. New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.

FEMA. Flood Insurance Rate Map, New York County, New York—Preliminary. Panel 69 of 457. Map 3604970069G. December 5, 2013.

Geyer, W.R., and R. Chant. 2006. The Physical Oceanography Processes in the Hudson River Estuary. In: J.S. Levinton and J.R. Waldman (eds.) The Hudson River Estuary. Cambridge University Press, New York, NY.

Hudson River Park Trust (HRPT). 2002. Hudson River Park Trust Estuarine Sanctuary Management Plan. September 2002.

Loucks, B.A. and C.A. Nadareski. 2005. Back From the Brink. New York State Conservationist 59:5. April 2005.

McGowan, K. J., and K. Corwin, eds. 2008. The Second Atlas of Breeding Birds in New York State. Cornell University Press. (Available from Buteo Books)

National Marine Fisheries Service (NMFS). 2020. Essential Fish Habitat Mapper. Available from: http://www.habitat.noaa.gov/protection/efh/habitatmapper.html.

National Marine Fisheries Service (NMFS). 2021. Endangered Species Act Section 7 Mapper. Available from:

https://noaa.maps.arcgis.com/apps/webappviewer/index.html?id=1bc332edc5204e03b250ac11f 9914a27

National Oceanic and Atmospheric Administration Office of Coast Survey. January 1, 2020. Chart 12335: Hudson and East Rivers Governors Island to 67th Street. Available from: https://charts.noaa.gov/OnLineViewer/12335.shtml

National Oceanic and Atmospheric Administration (NOAA). 2016. Mean Sea Level Trend, 8518750, The Battery, New York. National Ocean Service. Revised: 10/15/2013. tidesandcurrents.noaa.gov/sltrends/sltrends station.shtml?id=8518750

National Oceanic and Atmospheric Administration (NOAA). 2013. Current station locations and ranges. Available https://www.tidesandcurrents.noaa.gov/currents10/tab2ac4.html. Revised October 15, 2013. Accessed November 18, 2020.

National Oceanic and Atmospheric Administration Office of Coast Survey. May 1, 2011. Chart 12341: Hudson River Days Point to George Washington Bridge. Available from: https://charts.noaa.gov/OnLineViewer/12341.shtml

New York City Department of City Planning (NYCDCP). 2011. Vision 2020: New York City Comprehensive Waterfront Plan. March 2011.

New York City Department of Environmental Protection (NYCDEP). 2018. New York Harbor Water Quality Report for 2018. Available from:

https://www1.nyc.gov/assets/dep/downloads/pdf/water/nyc-waterways/harbor-water-quality-report/2018-new-york-harbor-water-quality-report.pdf. Accessed November 18, 2020.

New York City Department of Environmental Protection (NYCDEP). 2016. Green Infrastructure Performance Metrics Report. June 2016. NYCDEP 2011.

New York City Department of Environmental Protection (NYCDEP). 2007. East River and Open Waters Waterbody/Watershed Facility Plan Report. June 2007.

New York City Department of Environmental Protection (NYCDEP). 2005. "Citywide Comprehensive Floatables Plan – Modified Facility Planning Report," prepared by HydroQual Engineers & Scientists, P.C. for the City of New York Department of Environmental Protection, Bureau of Environmental Engineering, July 29, 2005.

New York State Department of Environmental Conservation (NYSDEC). 2019. Draft List Under Part 182.5 Pre-proposal – October 2019. Available from: https://www.dec.ny.gov/docs/wildlife_pdf/preproposal182.pdf.

New York State Department of Environmental Conservation (NYSDEC). 2020. Environmental Resource Mapper. Available from: https://gisservices.dec.ny.gov/gis/erm/

New York State Department of Environmental Conservation (NYSDEC). 2016. Draft 2016 Section 303(d) List. January 2016.



New York State Department of State (NYSDOS). 1992. Significant Coastal Fish and Wildlife Habitats Program: A part of the New York Coastal Management Program and New York City's approved Waterfront Revitalization Program.

New York Natural Heritage Program. 2020. Online Conservation Guide for *Bombus fervidus*. Available from: https://guides.nynhp.org/yellow-bumble-bee/.

Olson, A.M., E.G. Doyle, and S.D. Visconty. 1996. Light requirements of eelgrass: A literature survey.

PBS&J. 1998. The Hudson River Park, Natural Resources Appendix to Final Environmental Impact Statement. Prepared for the Empire State Development Corporation and the Hudson River Park Conservancy.

Smith, C.L. 1985. The Inland Fishes of New York State. The New York State Department of Environmental Conservation.

Stegemann, E.C. 1999. New York's Sturgeon. NY State Department of Environmental Conservation, Division of Fish, Wildlife and Marine Resources.

United States Army Corps of Engineers (USACE). 2016. Report of Channel Conditions; Hudson River Channel, New York. April 13, 2016.

United States Army Corps of Engineers – New York District (USACE) and the Port Authority of New York & New Jersey (PANYNJ). 2009. Hudson-Raritan Estuary Comprehensive Restoration Plan. Draft. March 2009.

United States Fish and Wildlife Service (USFWS). Oct 1, 2020. National Wetlands Inventory website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. http://www.fws.gov/wetlands/

Woodhead, P.M. 1990. The Fish Community of New York Harbor: Spatial and temporal distribution of major species. Report to the New York–New Jersey Harbor Estuary Program, New York. NY.

25.16 COASTAL ZONE CONSISTENCY

15 CFR Part 923. Coastal Zone Management Program Regulations. https://www.govinfo.gov/app/details/CFR-2012-title15-vol3/CFR-2012-title15-vol3-part923. Accessed on January 22, 2021.

NYC Planning. The New York City Waterfront Revitalization Program: Climate Change Adaptation Guidance. March 2017.

https://www1.nyc.gov/assets/planning/download/pdf/applicants/wrp/revisions-2017/wrp-user-manual.pdf. Accessed November 18, 2020.

New York City Panel on Climate Change (NPCC). 2015. Building the Knowledge Base for Climate Resiliency: New York City Panel on Climate Change 2015 Report. Ann. N.Y. Acad. Sci. 1336(3-5). pp. 1-150.

New York State Department of State (NYSDOS). New York State Coastal Management Program and Final Environmental Impact Statement. 2017. Available from:

https://www.dos.ny.gov/opd/programs/pdfs/NY_CMP.pdf. Accessed November 18, 2020.

New York City Department of City Planning (NYCDCP). The New York City Waterfront Revitalization Program. June 2016. Available from:

https://www1.nyc.gov/assets/planning/download/pdf/planning-level/waterfront/wrp/wrp-2016/nyc-wrp-full.pdf. Accessed November 18, 2020.

25.17 SOCIOECONOMICS

23 CFR Part 771. Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) Environmental Impact and Related Procedures. https://www.govinfo.gov/app/details/CFR-2016-title23-vol1/CFR-2016-title23-vol1-part771. Accessed November 18, 2020.

MTA and CPC, Western Rail Yard Project – Final Environmental Impact Statement. October 2009.

2010 US Census, Population, Income, Age Distribution, Language Proficiency, Employment and Business, Property, and Housing/Vacancy Data; U.S. Census Bureau.

American Community Survey (ACS) 2006–2010 and 2014–2018 5-Year Estimates.

New York Times, January 5, 2020. https://www.nytimes.com/2020/01/05/nyregion/nyc-tech-facebook-amazon-google.html. Accessed November 5, 2020.

https://theshed.org/. Accessed November 18, 2020.

Esri Business Analyst (private subscription-based ARCGIS economics information provider).

NYCDCP FacDB, accessible at:

https://www1.nyc.gov/site/planning/data-maps/open-data/dwn-selfac.page

NYPD Borough and Precinct Crime Statistics from CompStat 2.0 https://www1.nyc.gov/site/nypd/stats/crime-statistics/citywide-crime-stats.page.

25.18 PUBLIC HEALTH

42 USC 4321 et seq. National Environmental Policy Act of 1969 (NEPA), https://www.govinfo.gov/app/details/USCODE-2010-title42/USCODE-2010-title42-chap55-sec4321. Accessed November 18, 2020. 23 CFR Part 771

23 CFR Part 771. Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) Environmental Impact and Related Procedures. https://www.govinfo.gov/app/details/CFR-2016-title23-vol1/CFR-2016-title23-vol1-part771. Accessed November 18, 2020.

2014 City Environmental Quality Review (CEQR) Technical Manual, New York City Department of City Planning. https://www1.nyc.gov/assets/oec/technical-manual/2014 cegr technical manual rev 04 27 2016.pdf. Accessed on November 18, 2020

Appendix C of the New York City Zoning Resolution https://zr.planning.nyc.gov/appendix-c-table-1-city-environmental-quality-review-ceqr-environmental-requirements-e-designations. Accessed November 18, 2020.

25.19 ENVIRONMENTAL JUSTICE

Executive Order (EO) 12898, "Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations," February 11, 1994.



U.S. Department of Commerce, Bureau of Census, American Community Survey 2014–2018 5-Year Estimates. https://www.census.gov/newsroom/press-releases/2019/acs-5-year.html. Accessed November 18, 2020.

25.20 INDIRECT, CUMULATIVE, AND OTHER IMPACTS

40 CFR § 1508. 40 CFR parts 1500–1508. Council on Environmental Quality NEPA regulations. https://www.govinfo.gov/app/details/CFR-2011-title40-vol33/CFR-2011-title40-vol33-part-id1102. Accessed November 18, 2020.

MTA and CPC, Western Rail Yard Project – Final Environmental Impact Statement. October 2009

Comprehensive Solid Waste Management Plan, September 2006; Attachment II, Table IV 2-2.

https://www1.nyc.gov/site/oec/green-building/green-building.page. Accessed November 18, 2020.

https://www1.nyc.gov/html/gbee/html/plan/ll88.shtml. Accessed November 18, 2020.

New York City Department of Buildings. Construction permits issued http://a810-bisweb.nyc.gov/bisweb/bispi00.jsp. Accessed November 2020.

Correspondence with New York City Department of City Planning Manhattan Office related to future private development proposed in the Study Area (May 2020, June 2020, October 2020).

2014 City Environmental Quality Review (CEQR) Technical Manual, New York City Department of City Planning.https://www1.nyc.gov/site/oec/environmental-quality-review/technical-manual.page. Accessed November 18, 2020.

25.21 DRAFT SECTION 4(F) EVALUATION

49 USC 303. Section 4(f) of the US Department of Transportation Act of 1966. Accessed from https://www.gpo.gov/fdsys/granule/USCODE-2009-title49/USCODE-2009-title49-subtitle1-chap3-subchap1-sec303/content-detail.html. Accessed November 18, 2020.

23 USC 138. Preservation of Parklands. https://www.govinfo.gov/content/pkg/USCODE-2011-title23/html/USCODE-2011-title23-chap1-sec138.htm. Accessed on November 18, 2020.

23 CFR 774. Parks, Recreation Areas, Wildlife and Waterfowl Refuges, and Historic Sites (Section 4(f) https://www.govinfo.gov/content/pkg/CFR-2012-title23-vol1/pdf/CFR-2012-title23-vol1-part774.pdf. Accessed on January 22, 2021.

New York State Legislature, "Hudson River Park Act," 1998 Sess. NY Legis Ch. 592 (S. 7845), Amended 2005, 2008, 2013, 2018, and 2020.

2013 Amendment to Hudson River Park Act (Chapter 517 of the Laws of 2013), Section 3(m)(v). https://hudsonriverpark.org/app/uploads/2020/03/HRPA_Amendment_- Chapter 517 of the Laws of 2013.pdf. Accessed November 18, 2020.

Section 4(f) Policy Paper

OPRHP, Kathy Howe, Resource Evaluation, New York Improvement & Tunnel Extension of the Pennsylvania Railroad from NJ to Manhattan to LIC Queens, USN: 06101.018103, March 11, 2011.

25.22 MITIGATION MEASURES AND PROJECT COMMITMENTS

40 CFR parts 1500–1508. Council on Environmental Quality NEPA regulations. https://www.govinfo.gov/app/details/CFR-2011-title40-vol33/CFR-2011-title40-vol33-part-id1102. Accessed November 18, 2020.

64 Federal Register 28545, May 26, 1999, as updated in 78 Federal Register 2713, January 14, 2013. https://www.govinfo.gov/content/pkg/FR-1999-05-26/pdf/99-13262.pdf. Accessed November 18, 2020.

MTA and CPC, Western Rail Yard Project – Final Environmental Impact Statement. October 2009.

Amtrak and FRA. Finding of No Significant Impact, *Environmental Assessment for Construction of a Concrete Casing in the Hudson Yards, New York, New York, May* 2013.

Amtrak and FRA. Finding of No Significant Impact, Supplemental Environmental Assessment for Construction of a Concrete Casing Extension in the Hudson Yards, New York, New York.

November 2014.

25.23 PUBLIC INVOLVEMENT AND AGENCY COORDINATION

23 USC 138.Preservation of Parklands. https://www.govinfo.gov/content/pkg/USCODE-2011-title23/html/USCODE-2011-title23-chap1-sec138.htm. Accessed on November 18, 2020.

23 CFR Part 771. Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) Environmental Impact and Related Procedures. https://www.govinfo.gov/app/details/CFR-2016-title23-vol1/CFR-2016-title23-vol1-part771. Accessed November 18, 2020.

40 CFR parts 1500–1508, 23 CFR part 771, and 23 U.S.C. 139.Council on Environmental Quality NEPA regulations. https://www.govinfo.gov/app/details/CFR-2011-title40-vol33/CFR-2011-title40-vol33-part-id1102. Accessed November 18, 2020.

49 U.S.C. § 303. Section 4(f) of the Department of Transportation Act of 1966. https://www.govinfo.gov/app/details/USCODE-2012-title49/USCODE-2012-title49-subtitlel-chap3-subchapl-sec303. Accessed November 18, 2020.

54 USC § 306108.https://www.govinfo.gov/content/pkg/USCODE-2018-title54/pdf/USCODE-2018-title54-subtitleIII-divsnA-app-dup4-chap3061-subchapI-sec306108.pdf. Accessed November 18, 2020.

59 Federal Register 7629, 1994. https://www.govinfo.gov/content/pkg/FR-1994-02-16/pdf/FR-1994-02-16.pdf. Accessed November 18, 2020.

Executive Order 12898 on Environmental Justice.

https://www.transportation.gov/sites/dot.gov/files/docs/eo12898.pdf. Accessed November 18, 2020.

FRA, September 2020, *Western Rail Yard Infrastructure Project Scoping Summary Report*, found at http://westernrailyardinfrastructure.com/library.html or at www.regulations.gov (using Docket Number FRA-2020-0039).

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