

APPENDIX K

Significant Industrial Sources, Municipal Discharges, and
Historical Spills in Newark Bay





REMEDIAL INVESTIGATION REPORT APPENDIX K – SIGNIFICANT INDUSTRIAL SOURCES, MUNICIPAL DISCHARGES, AND HISTORICAL SPILLS IN NEWARK BAY

Newark Bay Study Area
Newark Bay, New Jersey

May 2022

REMEDIAL INVESTIGATION REPORT
APPENDIX K – SIGNIFICANT INDUSTRIAL SOURCES, MUNICIPAL DISCHARGES, AND HISTORICAL
SPILLS IN NEWARK BAY

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Information in this appendix is taken from "Report on Investigation of Sources of Pollutants and Contaminants" prepared by Tierra Solutions, Inc. on September 15, 2006.

Table K-1
Newark Bay Waterfront Sources Inventory

Parcel #	Name of PRP	Street Address	City	Years of Operation	Products, Operations and/or Processes	Subject Waterway	Proximity to Waterway	Known Discharge Mechanisms (Direct/CSO/Storm)	Documented Discharge to Newark Bay and/or Tributary	Other Documented Discharges	Site Contamination if Known	Notes
NEWARK												
BAY29	Center Terminal Co Motiva Enterprises Ironbound International Industries	352 Doremus Ave	Newark	Present	Trucking operations.	Newark Bay						Windshield survey
BAY30	Unknown - confirmed car lot; no visible signage or identification		Newark	Present	Automobile storage	Newark Bay						Windshield survey
BAY31	Unknown - warehouse		Newark	Present		Newark Bay						Windshield survey
BAY34	Newark Industrial Complex Toys R Us Tomae Const. Corp. Conrail Auto Terminal Firmenich Rockrete Recycling Chem Fleur International	Doremus Ave	Newark	Present	Multi-tenant commercial and industrial operations complex	Newark Bay					Three USTs were removed from Conrail Auto Terminal as per CPIP Report.	Windshield survey Regulatory file
BAY35	Airborne Freight		Newark	Present	Freight operations	Newark Bay						Windshield survey
BAY36	Unknown - warehouse		Newark	Present		Newark Bay						Windshield survey
BAY37	Donjon Marine Warehousing	Doremus Ave	Newark	Present	Warehouse. Operating in Berth 5.	Newark Bay						Windshield survey
BAY40	Toyota Logistical Service & Toyota Motor Sales USA	390 Port Street	Newark	Present	Automobile storage	Newark Bay						Windshield survey
BAY41	BP Oil BP North America Petroleum, Inc. BP Marine Americas, Inc. (a/k/a "Coastal Oil")	350 Coastal Street	Newark	1983 - Present Coastal Oil Company, Division of BP, sold to COC Corporation 4/1/83. BP North America merged into BP Exploration & Oil Inc 1/1/93.	Onsite storage and transfer terminal for #2 fuel oil, bunker oil, and kerosene and diesel products. BP Oil leases property from the PANJ, which it operates its marine fuels terminal and docking facility.	Newark Bay	Less than 0.5 mile to Newark Bay. Less than 0.4 mile to the Port Newark Channel.	NJPDES Permit #NJ 0034231 Surface water discharge via storm sewer outfalls to Newark Bay.	1984 – U.S. Coast Guard reported that 44,000 gallons of bunker oil spilled due to a tank rupture. USEPA noted in 1985 Preliminary Assessment Report that oil leaking into the Port Newark Channel could harm aquatic life.	In 1970, spill at BP site located at 350 Coastal Ave in Newark: spill may be responsible for high levels of TPHC found at Naparano site. Circa 1980 timeframe: the City of Newark was aware of a spill of approximately 4M gallons from the rupture of Tank #108, into an un-lined containment basin, at the BP Oil Newark site. In 1983, 40,000 gallons of #6 fuel oil spilled into drainage ditches and earthen dike area due to a rupture in a storage tank. In 1992, the Port Authority found evidence in soil and groundwater of a petroleum release that occurred most likely from the 1979-80 oil spill. Also in 1992, 300 gallons of #6 fuel oil was discharged to Newark Bay. In 1995, during the removal of a 2,000-gallon UST, a sheen was noticed on the groundwater. In January 1999, approximately 300 gallons of #6 fuel oil spilled onto paved surface roads. In 2005, due to a leak in a pipe, approximately 200 gallons of #2 fuel oil spilled onto facility grounds.	USEPA noted in 1985 that soil, groundwater, and surface waters were contaminated due to leaking and spilled fuel and waste oils. Soil samples taken in 1992 revealed the presence of TPHCs, VOCs, BNAs, and lead. The following contaminants have been identified in site soils: TPHC, lead, VOC, BNA, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, and chrysene. The following contaminants were identified in site groundwaters: arsenic, lead, cadmium, chromium, benzene, toluene, ethylbenzene, and xylenes. Three USTs were removed; two USTs were closed in place - per CPIP Report.	Regulatory file
BAY42	U.S. Navy Shipyards (same site as BP Oil/Coastal Oil)	Port Street and Navy Street	Newark	1930-1963. Port Authority leased 33 acres of the former Federal Shipyard property, now owned by the Navy Dept, for 10 years starting 9/1/48.	U.S. Navy disassembled ships on this site from 1930-1963.	Newark Bay	Less than 0.5 mile to Newark Bay. Less than 0.4 mile to the Port Newark Channel.	Surface water discharge via storm sewer outfalls to Newark Bay.				Regulatory file
BAY42	Submarine Boat Corp.	On former property for U.S. Navy Shipyards	Newark	Circa 1918-early 1930s	Manufactured submarines for Great Britain. The company leased property from the Federal Government.	Newark Bay						Media reports
BAY42	Kent Steel, Building #304	Navy Street	Newark			Newark Bay					Per CPIP Report, two USTs for gasoline storage were removed.	Regulatory file

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BAY42	FAPS Inc.	371 Craneway St. Also, facility on former property for U.S. Navy Shipyards.	Newark	Present	One of several locations for company. Vehicle importing and distribution.	Newark Bay						Windshield survey
BAY43	Belgian Block Sales Co	Marsh St	Newark	Present	Stone. Construction materials.	Newark Bay						Windshield survey
BAY44	Container Services and Marine Transport Depot	Marsh St	Newark	Present	Distribution, warehousing and trucking.	Newark Bay						Windshield survey
BAY45	Amrod	305A Craneway Street / On former property for US Navy Shipyards	Newark	Present	Metal products and distribution.	Newark Bay						Windshield survey
BAY45	FAPS Inc.	Suez & Marsh Ave	Newark	Present	One of several locations for company. Vehicle importing and distribution.	Newark Bay						Windshield survey
BAY46	M.J. Rudolph, a Kinder Morgan Co.	181 Marsh St	Newark	Present	Petroleum bulk storage operations.	Newark Bay						Windshield survey
BAY47	Naporano	Berth 10-12	Newark	Present	Scrap metal recycling. Now operated by NMI.	Newark Bay						Regulatory file
BAY48	Tarheels Enterprises	Marsh St	Newark	Present	Construction. Road and transportation improvements contractor.	Newark Bay						Windshield survey
BAY49	American Steve Doring Inc	Marsh St	Newark	Present	Cargo operations	Newark Bay						Windshield survey
BAY50	Seaport Auto Services, Inc.	151 Corbin Street	Newark	Present		Newark Bay						Windshield survey
BAY52	BB Granite	148 Marsh St	Newark	Present	Granite block sales	Newark Bay						Windshield survey
BAY53	Gulf Gas Station	Marsh Street	Newark	Present	Retail gas station	Newark Bay						Windshield survey
BAY53	Port Authority Treatment Works	Corbin St	Newark	Present	Pumping station. Wastewater treatment.	Newark Bay						Windshield survey
BAY54	Cargill Salt	150 Marsh St	Newark	Present	Multiple locations for this company. Salt and salt products distribution.	Newark Bay						Windshield survey
BAY55	Koppers Inc.	Maritime & Tyler Street	Newark	Koppers from 1954-1988; BNS Acquisitions (sub. of Beazer PLC) acquired at least 90% of Koppers common stock in 11/88. 12/88 - assets were sold to KII. In 1989, name was changed to Beazer Materials & Services. In 1990, the name was changed to Beazer East, Inc.	This is an 8-acre site. Koppers leased site from City of Newark and later from PANYNJ. The company was involved in wood treating operations and utilized creosote, chromated copper arsenate, and a Koppers trademark chemical named NCX. NCX contained formaldehyde, phosphoric acid, and melamine.	Newark Bay	Within 1,000 feet of Newark Channel, which is part of Newark Bay	Two different outfalls; storm sewers discharged to Newark Bay.		7/11/84 - 50 gallons of effluent from the creosote/water separator spilled to the ground. 3/16/89 - NJDEP noted that spills of hydraulic fluids, #2 fuel oil, and creosote were found in various areas of the site. 8/10/90 - An oily sheen was observed in stormwater runoff and a \$500 penalty was assessed against the site.	Arsenic, chromium, and copper are present in tank farm area site soils. Several violations were noted from the hazardous and regulated materials database listings per the CPIP Report 2005 - most recent in 1989. Site was contaminated with creosote and later remediated and capped. Groundwater is being monitored in association with DNAPL removal.	Regulatory file
BAY56	Shimazki	Tyler St	Newark	Present	Transportation of imported Honda vehicles	Newark Bay						Windshield survey

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BAY57	Aarhus United, J.J. Pease Warehouse	Marsh Street	Newark	Present	Warehousing and distribution	Newark Bay						Windshield survey
BAY58	Port of New York and New Jersey		Newark	Present	Warehousing and overseas distribution	Newark Bay						Windshield survey
BAY62	Hudson Tank Terminals	173 Export St	Newark	Present	Liquid deepwater bulk storage and distribution. Vegetable, animal, and marine oils and fats.	Newark Bay						Windshield survey
BAY63	Port Newark Refrigerated Warehouse	Tyler St	Newark	Present	Refrigerated warehousing and distribution	Newark Bay						Windshield survey
BAY64	PNCT	Corbin St	Newark	Present	Container terminal and distribution	Newark Bay						Windshield survey
BAY65	Cargrill Salt	Marsh Street	Newark	Present	One of several locations for company. Salt and salt products distribution.	Newark Bay						Windshield survey
BAY66	Essex Cement Company	Marsh St	Newark	Present	Under construction	Newark Bay						Windshield survey
BAY67	Maher Warehouse Corp.	Fleet Street and Tripoli Street	Newark	Present	Multiple locations in Port Newark. Container warehousing and distribution operations.	Newark Bay					Per CPIP Report: three USTs removed, three are still active.	Windshield survey Regulatory file
BAY68	Judge Organization Amex Shipping Agent P Judge & Sons Trucking	201A Export & Calcutta Streets	Newark	Present	Warehousing, distribution, and trucking operations.	Newark Bay						Windshield survey
BAY69	Naparano Iron & Metal Company	Multiple locations in Port Newark. Primary locations include Berth 10-12, Berth 30 & 32, and Berth 63.	Newark	Site is on 19.25 acres of land. Land owned by City of Newark, leased to Port Authority; subleased by Naparano since 1979. Company operating in Newark since 1907; from 1907-1979 not exactly sure where in Port Newark Terminal operations were. 1998 Metal Management purchased Naparano. Nimco Shredding Co of 252 Doremus Ave, also owned by Naparano.	From 1983-1990, primarily used Berth 63; 1990-1994 used Berths 10, 12, and 14; 1994 ceased using 10, 12, and 14, continued using 63, 28, and 30. As of 1998, using 30, 32, 34, 61, and 63. Also operates an 8-acre shredding center a couple of berths away with Newark Bay access and locomotive recycling. F61	Newark Bay		In 1993, applied for permit for two storm outfalls that discharge to Newark Bay. Mention of a permit application for a stormwater outfall discharging into Elizabeth Channel. Stormwater flows directly into the channel due to lack of onsite collection system. Historical maps show several sewer outfalls onsite.		In 1970, spill at BP site located at 350 Coastal Ave in Newark; spill may be responsible for high levels of TPHC found at Naparano site.	Low levels of contamination discovered on non-contiguous portion of site, 4/1995. NJ Marine Terminal report from 10/13/95 indicates historically high levels of metal contamination onsite; due to salvage operations. NJDEP sampling from 9/1994 show primary contaminants associated with onsite operations. Elevated PCB levels found in Newark Bay and channel sediment near site. Soil samples show elevated levels of one SVOC.	Regulatory file
BAY69	Metal Management Inc.	Located off of Export Street. Operating in the former Naparano Iron & Metal site. Berths 30 & 32.	Newark	Present		Newark Bay						Regulatory file

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BAY70	Port Newark / Newark Port Authority Marine Terminal	Includes the following streets: Distribution, East Port, Kellogg, Viking, Neptune, Marsh, Tyler, Suez, Calcutta, and Export.	Newark	Present		Newark Bay					Several violations were noted from the hazardous and regulated materials database listings per the CPIP Report 2005 - most recent in 1995. Onsite sources of contamination exist.	Regulatory file
BAY71	Naporano Iron & Metal Company	Multiple Locations in Port Newark. Primary locations include Berths 10 to 12, Berths 30 and 32, and Berth 63.	Newark	Mid-1990s	Scrap metal recycling	Newark Bay						Regulatory file
ELIZABETH												
BAY72	Port Jersey Logistics	1400 Polaris	Elizabeth	Present	Distribution, warehousing and trucking	Newark Bay						Windshield survey
BAY72	Tyler Distribution FTZ	1400 Polaris	Elizabeth	Present	Distribution, warehousing and trucking	Newark Bay						Windshield survey
BAY73	Cargill Salt	Off Polaris Street	Elizabeth	Present	Multiple locations for this company. Salt and salt products distribution.	Newark Bay						Windshield survey
BAY74	LMD Integrated Logistics	Off Polaris Street	Elizabeth	Present	Warehousing and distribution	Newark Bay						Windshield survey
BAY75	ASA Apple	Bay Ave/193 Maraciabo Street	Elizabeth	Present	Warehousing and distribution	Newark Bay						
BAY76	Unidentified Truck Terminal	Off McClester Street. Indicator on spreadsheet shows facility entrance and truck scale area only.	Elizabeth	Present	Warehousing and distribution	Newark Bay						Windshield survey
BAY77	Maher Chassis Depot	Multiple locations	Elizabeth	Present	Multiple locations for this company. Vehicle auto body parts storage.	Newark Bay						Windshield survey
BAY78	East Coast Warehouse	1150 Polaris St	Elizabeth	Present	Warehousing and distribution	Newark Bay						Windshield survey
BAY79	IKEA	1000 Ikea Drive	Elizabeth	Present	Retail furniture and households complex	Newark Bay						Windshield survey Media reports
BAY80	Select Cargo Services Inc. (a/k/a "Contem")	5130 McClester Street	Elizabeth	Present		Newark Bay					One violation was noted from the hazardous and regulated materials database listings per the CPIP Report 2005 - most recent in 2000.	Windshield survey

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BAY81	Kapkowski Landfill Site	Kapkowski Road and McClester Street	Elizabeth	Early 1950s to early 1970s	From early 1950s to the early 1970s, approximately 133 acres of the site west of Kapkowski Road was utilized as an uncontrolled municipal dump	Newark Bay	Within 5,000 feet of Newark Bay. Bordered by ditch to Elizabeth Channel.	Underdrains west of Kapkowski Road discharged groundwater to ditch to the Elizabeth Channel. Underdrains east of Kapkowski Road discharge into a culvert under McClester Street and ultimately discharges into Newark Bay.	Contaminated oil in groundwater - an estimated 3M gallons of oil is in the groundwater/water table. Oil is contaminated with high levels of PCBs and metals. In November 1976, samples of water from the drainage ditch identified heavy metals.			Regulatory file
BAY82	Rexplex Sports Plaza	Ikea Drive	Elizabeth	Present	Sports entertainment complex	Newark Bay						Windshield survey
BAY85	Port Elizabeth/Elizabeth Port Authority Marine Terminal	Off McClester Street	Elizabeth	Early 1900s to Present	Multi-tenant commercial, industrial, warehousing, and distribution operations. Integrated marine terminal and cargo operations. 2,100-acre facility.	Newark Bay	Waterfront to Newark Bay					Windshield survey USACE maps
BAY86	Toys R Us	Ikea Drive	Elizabeth	Present	Retail toys	Newark Bay						Windshield survey
BAY87	Performance Food Group/ PFG-AFI Food Services	1 Center Drive/ 1 Ikea Drive	Elizabeth	Present	Fish and shellfish warehousing and distribution	Newark Bay						Windshield survey
BAY88	Seaport International	228 North Avenue E.	Elizabeth	Present		Newark Bay						Windshield survey
BAY89	New England Motor Freight	1-71 North Avenue East	Elizabeth	Present	Trucking operations	Newark Bay					Six violations were noted from the hazardous and regulated materials database listings per the CPIP Report 2005 - most recent in 2003. Onsite restrictions. Four USTs/diesel/gasoline removed.	Windshield survey
BAY90	Maersk	Berths 88 - 89.	Elizabeth	Present	Distribution, warehousing and trucking	Newark Bay						Windshield survey
BAY91	APM Terminals - Maersk Sealand Horizonlines TMM Lines Lykes Lines Seastar Line Evergreen Yang Ming Lallanca PNO & Ned Lloyd Nor Asia UASC Hamburg SCD American President Lines Cosco North America Hanjin Shipping Co. Universal Maritime	5080 McLester Ave	Elizabeth	Present	Multi-tenant commercial and industrial operations complex	Newark Bay					Several violations were noted from the hazardous and regulated materials database listings per the CPIP Report 2005 against Universal Maritime - most recent in 2000.	Windshield survey
BAY92	Expressport Plaza 1180 Paragon Federal Credit Union B121 Swissray America Elizabeth Fire Dept Training Center Mid America Overseas Inc Sambonet	1180 McLester Ave	Elizabeth	Present	Multi-tenant commercial and industrial operations complex	Newark Bay						Windshield survey

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BAY92	Expressport Plaza 1160 PA of NY Testing & Training U Ocean USA Corp. Best Transportation Durfy EJE Rail MMMCA-PTTI-ECC Hudson News	1160 McLester Ave	Elizabeth	Present	Multi-tenant commercial and industrial operations complex	Newark Bay						Windshield survey
BAY92	Expressport Plaza 1170 Consotech Industries Pertech Corp K & E Printing Wayfarer Transit Systems Tokyo Kaneku International The PA of NY & NJ	1170 McLester Ave	Elizabeth	Present	Multi-tenant commercial and industrial operations complex	Newark Bay						Windshield survey
BAY93	New England Motor Freight	North Avenue	Elizabeth	Present	Trucking operations	Newark Bay						Windshield survey
BAY95	Allied Chemical	100 North Avenue East	Elizabeth	Site purchased in 1954 by Esso Standard Oil; 1956 Allied purchased site. Began developing sulfuric acid plant that operated until 1981. Sold to Ausimont on 1/22/86. Repurchased plant in 1989. City of Newark took ownership 10/1/93. Cleanup responsibility transferred to Continental Airlines in 9/1999 when they purchased the site (see file for more detail).	Acid production and distribution	Newark Bay	Within 2,000 feet of Newark Bay	Drainage ditch system surrounds plant; post-treatment acid transferred to public ditch before discharge to Newark Bay. Lagoon onsite used for storage of wastewater and strong acid waste. 1993, unpermitted overflow pipe bypassing treatment system. 5/26/76, industrial waste ditch approximately 1,000 feet from discharge point. Two outfalls reported onsite. Surface water lines discharge directly onto North Ave. Former effluent ditch receives runoff from adjacent ACOE site, several industrial sites, stormwater runoff, City of Elizabeth dump site. Two onsite settling ponds eventually discharged to public ditch, 1977.	4/19/68 inspection reveals wastewater discharging into the Passaic River Basin, including Newark Bay. 12/1/71, wastewater effluent discharged into Newark Bay. 7/1971, NJDEP cited company for not meeting water quality standards in discharges to Newark Bay.	Discharges from 1957-1971 were not permitted. Various oil spills reported in mid to late 1980s. 1981, sulfur trioxide spill from ruptured tank release valve. Explosion in 1987 may have discharged contaminants into groundwater. 7/20/87 truck leaks 25 lbs of perchloroethylene. 3/11/68, noted discharge to Newark Bay of a highly polluted effluent. Through 1960s, "weak" acid discharged to onsite chemical lagoon.	2/2/99, high levels of radioactivity detected in groundwater. Site soils have reportedly been contaminated with VOCs, BNAs, cadmium, copper, lead, zinc, antimony, petroleum hydrocarbons and 1,1,2,2-tetrachloroethane. Groundwater is reported to have been contaminated with VOCs, acetone, carbon tetrachloride, chloroform, 1,2-dichloroethane, freon TF, methylene chloride, methyl isobutyl ketone, naphthalene, 1,1,2,2-tetrachloroethane, tetrachloroethene, trichloroethene, trichlorofluoromethane, trichlorotrifluoromethane, trichlorotrifluoroethane, and chloroform.	Regulatory file
BAY95	Catellus Commercial Group	10 North Avenue	Elizabeth	Present	177-acre site to be developed into 1.2M square foot warehouse on 69 acres. The site is a registered brownfield.	Newark Bay	Within 2,000 feet of Newark Bay					Windshield survey

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BAY100	OENJ Elizabeth	Kapkowski Road	Elizabeth	1992	OENJ acquired this site in 1992 for redevelopment. After remediation, the site was eventually developed, and is the current home of the Jersey Gardens Mall, a retail shopping outlet. Dredge spoil dumping occurred onsite in the late 1930s/early 1940s, and between 1960 and 1972 the site was operated by unnamed private waste haulers who disposed municipal, commercial, and residential waste with no controls in place regarding dumping location. Wastes were dumped directly into streams and the Great Ditch.	Newark Bay	Within 2,000 feet of Newark Bay	NPDES permit #NJ0107841 authorized five outfalls to Newark Bay that conveyed stormwater runoff. The permit was revoked in 2002 due to cessation of industrial activity. The Great Ditch ran across the site and discharged to Newark Bay until 1998.	From 1960 to 1998, contaminated leachate had been discharging into Newark Bay via the Great Ditch. In June 1998, NJDEP issued a Notice of Violation against OENJ for the unpermitted discharge associated with dewatering a pond at the north end of the site directly to Newark Bay. Also in June 1998, NJDEP observed discharge of landfill leachate from the perimeter of the property to Newark Bay. On June 5, 1998, OENJ was cited for assembling pipes and pumps for the direct discharge of groundwater/landfill leachate from accumulation around the Great Ditch to Newark Bay.		The following constituents of concern have been identified onsite: VOCs, lead, TPHCs, PCBs, lead, methylene chloride, 2-butanone, 1,2-dichloroethane, 2-heaxanone, toluene, ethylbenzene, and xylenes. Leachate samples from the site contained lead, arsenic, chromium, mercury, nickel, silver, zinc, cyanide benzene, and bis(2-ethylhexyl)phthalate. In 1984, Great Ditch surface water onsite contained tetrachloroethylene, mercury, lead, and cyanide.	Windshield survey Regulatory file
BAY101 A	Nuodex Incorporated	830 Magnolia Avenue	Elizabeth	1940-1985	This 20-acre site was developed for the production of metallic napthenates for paint and varnish drying; mercury-based fungicides, and other various metal soaps that were used as driers for paints, catalysts, fuel oil additives, vinyl stabilizers, and fungicides. Among these products was tetrachlorophenol, a Class I compound associated with dioxin.	Newark Bay		The Nuodex facility is located within the Trumbull Street CSO district that discharges to the Newark Bay.	Site catch basins and sumps were shown to be contaminated with numerous hazardous substances, including elevated levels of 2,4,6-trichlorophenol and 2,4-dichlorophenol, both Class I compounds associated with dioxins. Site drains discharge to the Trumbull Street CSO, which overflows to Newark Bay in wet weather.	Numerous plant exceedances of applicable limitations for cadmium, copper, nickel, lead, zinc, mercury, and pH were reported in 1980. On June 20, 1980 an unidentified person opened various valves in the East Tank Farm resulting in the release of approximately 7,000 lbs of Nuoplaz 850, a plasticizer, 2,400 lbs of Texanol Isobutyrate, 5,100 lbs of Neodol 25, and 1,800 gallons of #6 fuel oil to the ground; an unknown quantity of these materials reached the sewer drain and discharged to the Joint Meeting Sewer. On January 15, 1981, approximately 275 gallons of kerosene reached the Joint Meeting Sewer after an accidental spill. In June 1982, approximately 200 gallons of crude napthenic acid overflowed from a tank during refilling; approximately 60 gallons drained to a laboratory sump and discharged to the Joint Meeting Sewer.	Site soils have been shown to contain cadmium, barium, zinc, mercury, lead, benzene, ethylbenzene, tetrachloroethene, toluene, bis(2-ethylhexyl)phthalate, petroleum hydrocarbons, PCB 1248, and dieldrin. Site groundwater has been shown to contain benzene, chlorobenzene, trichloroethene, ethylbenzene, toluene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, chloromethane, chloroethane, PCB 1248, xylenes, base neutral compounds, arsenic, cadmium, chromium, copper, lead, mercury, nickel, and zinc.	Regulatory file

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BAY102	Conrail Terminal Rail Yards (old Central Railroad of New Jersey property) - adjoins BAY103	123 Dowd Avenue - Situated north of Trumbull Street/Puleo Plaza, to the east of the NJ Turnpike. Bounded by Newark Bay on the east and Schiller Street/NJ Turnpike on its western boundary.	Elizabeth	1901-1988	85-acre inactive train yard site utilized for railroad maintenance and service operations. A larger Conrail Elizabethport yard consisted of several hundred acres. Site used for repair/cleaning of railroad cars/engines. CNJ ceased operating as a business in 1976; it became federally owned/operated by the Consolidated Rail Corporation (Conrail). Other tenants leased parts of site: Armin Polyfilm Co., Kawasaki Kisen, Kaisha, Ltd., (aka "K-Line).	Newark Bay Peripheral Ditch	Waterfront to Newark Bay	Surface water runoff to Newark Bay	Drainage and spills from the yard were reportedly channeled into a nearby tidal marsh adjacent to Newark Bay.	A drainage ditch originating from a former oil-water separator discharged to an unknown location.	Contaminants present in site soils include benzene 4,6-dinitro-2-methylphenol, 2,6-dinitrotoluene, fluoranthene, fluorene, naphthalene, N-nitrosodiphenylamine, pentachlorophenol, phenanthrene, pyrene, tetrahaloroethylene, 1,1,1-trichloroethane, toluene, dibromochloromethane, dichlorobromoethane, heptane, octane, nonane, cumene, butylbenzylphthalate, and #6 fuel oil.	Regulatory file Sanborn Maps, 1950, 1963 Internet databases Library research Windshield survey
BAY103	Central Railroad of New Jersey - CNJ (a/k/a "Elizabethport train station and rail yard; aka "Conrail") - adjoins BAY102	At Trumbull Street, to the west of the NJ Turnpike. Bounded by York and Division Streets.	Elizabeth	1901-1988	At least 100+ acres. Site used for passenger and freight rail and switching operations. Train station was located near York and Division Streets. Many freight tracks were also located north and east of Trumbull Streets to the east of the NJ Turnpike (BAY102). Many rails lead into the adjacent Singer property and other waterfront industrial areas.	Newark Bay Peripheral Ditch						Regulatory file Library research Windshield survey
BAY104	Elizabethtown Gas Company - South Street Coal Gas Site	406 South Street	Elizabeth	Operations conducted circa 1855-1901 (company chartered in 1855)	MGP. Former facility buildings still present in 1991. Involved in gas manufacturing and distribution. Approximately ½-acre of site adjacent to river was modified by USACE for City of Elizabeth flood control.	Elizabeth River Arthur Kill Newark Bay	Waterfront to Elizabeth River				Soil contaminants: phenolic compounds, coal tar and coal tar residuals, VOCs, metals and PAHs. Groundwater contaminants: phenolic compounds, VOCs, metals and PAHs.	SSR 1992 KCS - 2001 Media reports

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BAY105	The Singer Company. Corporate successors/ assigns to Singer are: Singer Company N.V.; SSMC, Inc. N.V. and Semi-Tech Global Corp. This site was also used as a multi-tenant facility after Singer sold the property in 1984. See site file for listing of site occupants post 1984. Also, see listing immediately below.	321 First Avenue (this site is also listed as "107 Trumball Street")	Elizabeth	1873-1982	Sewing machine manufacturing and operations consisted of cast iron and aluminum casting, machining, heat treating, tumbling, plating, painting, and parts cleaning. Hydraulic fluids containing PCBs were used at the site.	Arthur Kill Newark Bay	Waterfront - Arthur Kill is adjacent to the site east and south	Six outfalls to Newark Bay: 60-inch City of Elizabeth CSO; an 18-inch combined storm and sanitary outfall; and 36-inch combined storm, sanitary, and industrial waste outfall; a 30-inch combined storm, sanitary, and industrial waste outfall; a 36-inch combined storm, sanitary, and industrial waste outfall; a 24-inch storm sewer outfall.	Prior to 1965, all wastewater discharged directly to Newark Bay through three outfalls. As of 1965, Singer continued to discharge untreated sewage to the AK at the foot of Trumball Street. Post-1967, some process wastewater discharged to the City of Elizabeth Joint Meeting Wastewater Treatment Plant. For approximately 10 years until 1978/9, Singer approved nighttime dumping allegedly occurred. Th waste was conveyed via a large pipe to a concrete "holding tank" behind building W-3 to Arthur Kill and consisted of plating wastes.	Site runoff to Newark Bay; floor drains from site discharged process rinsewater to a neutralizing pit that discharged to a 36-inch sewer to Newark Bay.	Soil: Heavy metals and PCBs Groundwater: Heavy metals	Sanborn Maps, 1950, 1963, 1980 Regulatory file Industrial directories
BAY105	Consolidated Plastechs, Inc.	28-36 Slater Drive	Elizabeth	Circa 1999-2001		Arthur Kill & Newark Bay	Waterfront					KCS - 2001
BAY106	Moore Brothers Company - Machine Shop & Foundry	225 Front Street (this business also operated out of the 47 Bond Street address)	Elizabeth	Circa 1950s-1960s	Machine shop, iron foundry	Arthur Kill Newark Bay	Waterfront - adjacent to the Arthur Kill - separated by RR tracks					Sanborn Maps, 1950, 1963, 1980 Industrial directories
BAY107	Dragon Cement Co.	So. Front Street and Court St	Elizabeth	Circa 1963 through possibly 1980	Cement products	Arthur Kill Newark Bay	Waterfront - bordered on east by Arthur Kill					Sanborn Maps, 1963, 1980 ACOE Map No. 50 dated June-October 1965.
BAY107	Marina Village Development Project	144 Front Street and Broadway	Elizabeth	Circa 2000	Housing	Arthur Kill Newark Bay	Waterfront					KCS - 2001
BAY107	Marina Village Development Project	70 to 80 South Park Street	Elizabeth	Circa 2000	Housing	Arthur Kill Newark Bay	Waterfront					KCS - 2001
BAY107	Marina Village Development Project	80 to 84South Park Street	Elizabeth	Circa 2000	Housing	Arthur Kill Newark Bay	Waterfront					KCS - 2001
BAY108	RO/Son Inc.	217-231 Front Street	Elizabeth	Circa 1970s	Residential lighting fixtures	Arthur Kill Newark Bay	Waterfront					Industrial directories
BAY109	Elizabeth Marina (Note: properties located at ID Numbers "BAY109 through BAY111", "BAY113" and portions of "BAY115" are presently occupied by the City of Elizabeth and the Elizabeth Marina).	71-155 Front Street	Elizabeth	Circa 1997	Marina	Arthur Kill Newark Bay	Waterfront					KCS - 2001
BAY109	Pittsburgh Plate Glass (PPG) Chemical Division (a/k/a American Chrome & Chemicals)	South Front Street and Court Street (AC&C at 155 Front Street)	Elizabeth	Circa 1963	Chromium chemicals	Arthur Kill Newark Bay	Waterfront - bordered on east by Arthur Kill					Sanborn Maps 1963, 1980 ACOE Map #50 dated June-October 1965
BAY110	Iron Oxide Corp.	125 Front Street	Elizabeth	1958 Iron Oxide purchased the site; 1966-1982 red iron oxide production; Sept. 1982, City of Elizabeth purchased the site	Production of inorganic pigments and oxides; chrome pigments; lead pigments; zinc oxide pigments; and inorganic salts of chromium, nickel, and silver used.	Arthur Kill Newark Bay	Waterfront	Pipes discharged wastewater directly to Arthur Kill; groundwater flow to Arthur Kill	Site owners pleaded guilty to charges related to dumping an alleged 40M gallons of acid waste into Arthur Kill; tank trucks discharged unknown chemicals into pipes at site that discharged directly to Arthur Kill.	Waste lime slurry stored in unlined pit; surface runoff from areas with spills on site was observed in 1979.	Soil: VOCs, PAHs, BNA compounds, heavy metals	Sanborn Maps, 1950, 1963, 1980 ACOE Map No. 50 dated June-October 1965. Regulatory file KCS - 2001 Industrial directories
BAY111	City of Elizabeth		Elizabeth	City-owned property	Recreational	Arthur Kill Newark Bay	Waterfront					ACOE Map No. 50 dated June-October 1965

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BAY112	Waterfront Home Sites	100 - 114 Front Street	Elizabeth	Circa 1999-2001	Housing	Arthur Kill Newark Bay	Waterfront					KCS - 2001
BAY113	Empire Petroleum Co.	So. Front Street and Fulton St	Elizabeth	Circa 1965	Oil storage and distribution facility	Arthur Kill Newark Bay	Waterfront - bordered on east by Arthur Kill					ACOE Map No. 50 dated June-October 1965.
BAY113	Hartol Terminal Corporation	Intersection of Front Street and Fulton Street	Elizabeth	Circa 1950s-1960s	Oil storage and distribution facility	Arthur Kill Newark Bay	Waterfront					Sanborn Maps, 1950, 1963, 1980
BAY114	Imperial Weld Ring, Corp.	80 Front Street	Elizabeth	Circa 1975	General industrial machinery and equipment	Arthur Kill Newark Bay	Facility is located within 1 city block west of Arthur Kill					Industrial directories
BAY114	Johnson Process Co.	80 Front Street	Elizabeth	Circa 1955-1970	Reclaimers of used x-ray photo film; transparent plastics	Arthur Kill Newark Bay	Located within 1 city block west of Arthur Kill					Industrial directories
BAY115	Bethlehem Steel Co.	So. Front Street and Marshall St (also listed at 51 First Street as per Ind. Directory) 71-155 Front Street. The facility was located on both sides of So. Front Street.	Elizabeth	Circa 1950	Manufacturers of steel	Arthur Kill Newark Bay	Waterfront - eastern section of facility is bordered by Arthur Kill					Sanborn Maps, 1950, 1963, 1980 ACOE Map No. 50 dated June-October 1965. Industrial directories
BAY116	T.E. Barrett (Division of Allied Chemical & Dye Corp.)	86 Elizabeth Avenue	Elizabeth	Circa 1950-1960	Manufacturers of roofing paper	Arthur Kill Newark Bay	Waterfront					Sanborn Maps, 1950 Industrial directories
BAY117	J. Kerzman & Son	3 Front Street	Elizabeth	Circa 1955	Scrap iron dealer	Arthur Kill Newark Bay	Located within 1 city block west of Arthur Kill					Industrial directories
BAY118	Thomas & Betts Company	36 Butler Street	Elizabeth	1917-1995	Machine shop; electrical fittings, conduit, cable	Arthur Kill Newark Bay	Within 450 feet of the Elizabeth River and within 850 feet of Arthur Kill	Wastewater from the site was discharged via CSO to Arthur Kill and Elizabeth River at the confluence of Arthur Kill. Onsite catch basin sediments are contaminated with TCE, cis-1,2-dichloroethene, xylenes, benzo(a)pyrene, benzo(a)anthracene, benzo(k)fluoranthene, dibenz(ah)anthracene, idenol(1,2,3-cd)pyrene, antimony, arsenic, cadmium, copper, lead, and zinc.		Free product oil in basement of Building One seeped into site soils. A degreaser drain in the area of Pit 25 discharged to the ground surface near the former drum storage area.	Site soil is contaminated with TCE, cadmium, zinc, TPHC, PAHs, antimony, copper, lead, zinc, benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, and VOCs. Onsite catch basin sediments are contaminated with TCE, cis-1,2-dichloroethene, xylenes, benzo(a)pyrene, benzo(a)anthracene, benzo(k)fluoranthene, dibenz(ah)anthracene, idenol(1,2,3-cd)pyrene, antimony, arsenic, cadmium, copper, lead, and zinc. Site groundwater is contaminated with TCE, cis-1, 2-dichloroethene, PCE, chloride, 1,1-dichloroethene, vinyl chloride, cadmium, arsenic, antimony, and lead.	Sanborn Maps, 1950, 1963 NJPDDES database Regulatory file Industrial directories
BAY119	Monarch Fuel Oil Co.	So. Front Street and Elizabeth Ave.	Elizabeth	Circa 1946		Arthur Kill Newark Bay	Waterfront - bordered on east by Arthur Kill					ACOE Map No. 50 dated June-October 1965.

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BAY120	General Steel & Supply Co.	So. First Street and Elizabeth Ave.	Elizabeth	Circa 1965		Elizabeth River	Waterfront - bordered on southeast by confluence of Elizabeth River and Arthur Kill					ACOE Map No. 50 dated June-October 1965
BAY121	Richfield Oil Co. (a/k/a "Arco")	intersection of South Front Street and Elizabeth Avenues	Elizabeth	Circa 1960s-1980s	Oil storage and distribution facility	Elizabeth River Arthur Kill Newark Bay	Waterfront					Sanborn Maps, 1950, 1963
BAY122	P. Feldman & Sons, Inc. (occupied a portion of Cycle Chem Co. prior to Cycle Chem's operations)	211 South First Street	Elizabeth	Circa 1955	Scrap iron and metals	Elizabeth River Arthur Kill Newark Bay	The facility is located within 1 block of the Elizabeth River					Industrial directories
BAY123	Mark All Ink Co., Inc.	11 So. Front Street	Elizabeth	Circa 1965	Chemical products	Arthur Kill Newark Bay	Waterfront to the Elizabeth River and within 1 city block or less to the west of Arthur Kill					Industrial directories
BAY124	Apex Chemical Corp	200 South First Street	Elizabeth	1917-1994	Manufacturing of specialty chemicals for the textile industry. Principal products produced: surface active agents and flame-retardant chemicals. Company was also listed as a manufacturer of paradichlorobenzene and pyrethrins. This facility utilized antimony compounds certain glycol ethers, decabromodiphenyl oxide, and benzyl chloride.	Elizabeth River Arthur Kill Newark Bay	Waterfront to Elizabeth River	NJPDES Permit #NJ0122424 Process waters were neutralized before entering the sanitary sewer on South First Street via CSO to the Joint Meeting of Essex and Union Counties POTW, circa 1957. Prior discharge mechanisms unknown. Bordered on east by Elizabeth River. CSO overflows to Elizabeth River during wet weather.		ERNS report from 4/90 noted that drain pipes for the chemical mixing tanks were broken and were not repaired.		Sanborn Maps, 1950, 1963 NJPDES database Regulatory file Industrial directories Database records ACOE Map No. 50 dated June-October 1965 KCS - 2001
BAY125	Albemarle Lumber Co. (previous owner/operator at the Chemical Control site)	South Front Street	Elizabeth	Circa 1950s	Lumber supply	Elizabeth River Arthur Kill Newark Bay	This company backs up to the Elizabeth River and is in within 200-300 yards of the Arthur Kill					Sanborn Maps, 1950
BAY126	Cycle Chem, Inc. (This company is affiliated with Perk Chemical, which was its corporate predecessor.) Clean-Venture Inc. is the parent company of Cycle-Chem.	217 South First Street	Elizabeth	Cycle Chem. operated at this site circa 1987-present. Perk Chemical operated at this address circa 1965-1987.	This company is a hazardous waste treatment storage disposal facility. This facility used or generated metals, benzene, chlorinated solvents, and waste solvents for recycling/disposal. File information indicates that Perk Chemical received drums from Chemical Control, after Chemical Control ceased operations.	Elizabeth River Arthur Kill Newark Bay	The facility is located within 1 block of the Elizabeth River	NJPDES Permit #NJ0122637		4/21/94 - A hazardous waste spill, (not classified), discharged from a trailer and was reported to NJDEP.		NJPDES Database Regulatory File Industrial Directories Database Records

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BAY126	Elizabeth Steel Baling Corp. - occupied same site previous to Cycle- Chem operations.	217 South First Street	Elizabeth	Circa 1950	Junkyard	Elizabeth River Arthur Kill Newark Bay	Within one block west of the Elizabeth River and is also located approximately 1,000 feet west of Arthur Kill					Sanborn Maps, 1950 Industrial directories
BAY127	Martin Dickson Inc.	12 South Front Street	Elizabeth	Circa 1950	Lumber, piles creosoted and untreated, and tiles	Elizabeth River Arthur Kill Newark Bay	Waterfront location to both Elizabeth River and Arthur Kill					Sanborn Maps, 1950 Industrial directories
BAY128	Elizabethtown Gas Company - Erie Street Coal Gas (ETG) (a/k/a "Elizabeth Consolidated Gas Company")	Erie Street & Third Ave & Florida Street. (was also listed at 200 - 234 Third Avenue)	Elizabeth	Operations conducted circa 1892-1976. Buildings demolished in 1976; site appeared on the KCS list in 1992.	Producers of illuminating gas	Elizabeth River Arthur Kill Newark Bay	This facility backs up to the Elizabeth River and is several blocks away from Arthur Kill	NJPDES Permit #NJ0063746				KCS - 2001 NJPDES database Industrial directories Media reports
BAY129	Clean Ventures, Inc. (this company is affiliated with Cycle- Chem)	226-304 S. First Street	Elizabeth	Present		Elizabeth River Arthur Kill Newark Bay	Waterfront to Elizabeth River	NJPDES Permit #NJ0136841 NJPDES Permit #NJ0122637				NJPDES database
BAY129	Heidritter Lumber Co. (previous occupier of Clean Venture Site)	South First Street	Elizabeth	Circa 1950s		Elizabeth River Arthur Kill Newark Bay	This company backs up to the Elizabeth River and is within 800 feet west of Arthur Kill					Sanborn Maps, 1950
BAY130	D&M Trucking	491 South First Street	Elizabeth	Circa 1999	Trucking	Elizabeth River Arthur Kill Newark Bay	Waterfront to Elizabeth River					KCS - 2001
BAY131	Loizeaux Builders Supply Co.	There were several different locations: one parcel was located at 2 - 74 South Front Street. Loizeaux purchased property formerly occupied by Martin Dickson Inc. Another separate parcel was located at South First Street (yet another listing, further inland, indicates a 140 Third Street location).	Elizabeth	Circa 1950	Lumber supply	Elizabeth River Arthur Kill Newark Bay	The South Front Street properties are located on the waterfront of Arthur Kill. The other property on South First Street backs up to the Elizabeth River.	NJPDES Permit #NJ0124036				ACOE Map No. 50 dated June-October 1965 NJPDES database Sanborn Maps, 1950, 1963, 1980 Industrial directories

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BAY132	Chemical Control Corp. (CCC)	23 South Front Street	Elizabeth	1972-1979	CCC accepted various chemicals for storage and disposal, including acid, bases, arsenic, cyanides, flammable solvents, PCBs, compressed gases, biological agents, shock-sensitive chemicals pyrophoric materials, and pesticides.	Elizabeth River Arthur Kill Newark Bay	Site backs up to the Elizabeth River. It is within 200-300 yards of Arthur Kill.	Direct discharge via hidden pipe to river and discharge to river via sewer system due to cross-connection between sanitary sewer line and storm sewer system.	Waste drums ruptured and blown into river during explosion/fire in 1980; runoff from fire-fighting activities during fire/explosion 1980; runoff from leaking drums to river. A 1978 inspection indicated thirty 50,000-gallon drums adjacent to the Elizabeth River. Many drums were severely deteriorated, leaking, and discharges migrated to the river.	Discharge of waste solvents to ground and subsequent sit flooding, which allowed transport to river.	Soil: pesticides, VOCs, metals, PCBs. Groundwater: pesticides, VOCs, metals. Cleanup of the site under Superfund was completed 12/14/93.	Regulatory File KCS - 2001 SSR 1992
BAY132	Northeast Pollution Control Corp.	23 South Front Street	Elizabeth	Circa 1975	Manufacturers of air pollution control equipment	Elizabeth River Arthur Kill Newark Bay	This company backs up to the Elizabeth River. It is within 200-300 yards of Arthur Kill.					Industrial directories
BAY132	Chemical Waste Disposal	30 South Front Street	Elizabeth	Not known. Known to be in operation 7/71.		Elizabeth River Arthur Kill Newark Bay		Reports of alleged discharges directly to the Elizabeth River and into sewers on South Front Street.	Reports of alleged discharges directly to the Elizabeth River and into sewers on South Front Street.			Regulatory file
BAY133	Russo Salvage Yard	South Front Street	Elizabeth	Circa 1980	Salvage yard	Elizabeth River Arthur Kill Newark Bay	Waterfront to the Elizabeth River and within 1 city block west of Arthur Kill.					Regulatory file
BAY133	Abbott Steel Drum & Barrel Works (located on same site as Russo Salvage)	25 South Front Street	Elizabeth	Circa 1965	Steel drum manufacturers	Elizabeth River Arthur Kill Newark Bay	Waterfront to the Elizabeth River and within 1 city block west of Arthur Kill.					Industrial directories
BAY134	Chevron USA, Inc.	330 South Front Street and 666 South Front Street	Elizabeth	Circa 1965	Large quantity generator of oils and greases	Arthur Kill Newark Bay	Waterfront - bordered on east by Arthur Kill.	NJPDES Permit #NJ000264 and #NJ0104973	7/7/90 - "Heavy globs of oil sighted on the Arthur Kill." In 12/82, Chevron personnel noticed an oil sheen, adjacent to the west yard storage area, on the Elizabeth River and notified the U.S. Coast Guard and NJDEP. Containment booms were deployed.			ACOE Map No. 50 dated June-October 1965. NJPDES database Regulatory File Industrial directories KCS - 2001 Windshield survey
BAY134	New York Lubricating Oil Company	330 South Front Street and 666 South Front Street	Elizabeth	Circa 1950	Large quantity generator of oils and greases heating oil, fuel oil asphalt	Arthur Kill Newark Bay	Waterfront - bordered on east by Arthur Kill.					Sanborn Map, 1950 Industrial directories
BAY134	California Oil Company	330 South Front Street	Elizabeth	Circa 1960s-1980	Lubricating oils and greases, heating oil, fuel oil, asphalt	Arthur Kill Newark Bay		Bordered on east by Arthur Kill				Sanborn Maps, 1963, 1980 Industrial directories
BAY135	New York Oil Company (note - this is a different site than the "New York Lubricating Oil Co." site listed above). The present occupant at this site was noted as "Allchem".	534 South Front Street	Elizabeth	Circa 1946 through 1956. Former owners and operators at this site were: H.C. Cooke & C.O. McCord - 1879 1940.	Storage, canning, barreling, vegetable oils, and tallow	Arthur Kill Newark Bay	Waterfront - bordered on east by Arthur Kill.			Discharge to site soil: 1983: oil spills; 1984: paramins; 1986: tertiary dodecyl mercaptan; 1986: heptanoic acid; and 1989: lube oil	Soil: TPHC greater than 10,000 ppm; PCE; TCE; 2,4-dimethylphenol; methylene chloride; cis-1,2-dichloroethane; 2-chlorophenol; phenol; PCE; benzene; xylenes; n-nitroso-di-n-propylamine	Sanborn Maps, 1950 Industrial directories Windshield survey

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BAY135	The Midland Storage Co. (also called the "Croda Storage Inc." site).	534 South Front Street	Elizabeth	Circa 1956-1990s. (also, Mary Gadek, circa 1968, - at block 4, lot 39)	Warehousing facility for the storage of industrial, custom, and exotic chemicals and oils. Croda was involved in wholesales of tar products and chemicals.	Arthur Kill Newark Bay	Waterfront	Stormwater, non-contact cooling water, and collected blow down discharged via sump and storm sewer line to Arthur Kill. NJPDES Permit #NJ0056707		Discharge to site soil:1983: oil spills; 1984: paramins; 1986: tertiary dodecyl mercaptan; 1986: heptanoic acid; and 1989: lube oil	Soil: TPHC greater than 10,000 ppm; PCE; trichloroethane;2,4-dimethylphenol; methylene chloride; cis-1,2-dichloroethane; 2- chlorophenol; phenol; benzene; xylenes; n-nitroso-di-npropylamine	Regulatory file NJPDES database KCS - 2001 Sanborn Maps, 1963, 1980 ACOE Map No. 50 dated June-October 1965
BAY135	Archer Daniels Midland Co. (Werner G. Smith Company Division)	554 South Front Street	Elizabeth	Circa 1950-through possibly 1980	Refiner of marine and vegetable oils	Arthur Kill Newark Bay	Waterfront - bordered on east by Arthur Kill					Sanborn Maps, 1950, 1963, 1980 ACOE Map No. 50 dated June-October 1965. Industrial directories
BAY136	Joint Meeting Essex - Union Sewage Treatment Plant	500 South First Street	Elizabeth	The Joint Meeting Essex Union Counties (JMEUC) was created in 1901. A brick trunk sewer line extending from Summit and West Orange to Arthur Kill was completed and began operating in 1904. The original outfall of the system was at the foot of Bayway Avenue. By 1937, the actual sewage treatment plant was built. The JMEUC then used an outfall at Clifton Street, which is situated north of the Goethals Bridge. The City of Elizabeth continued to use the Bayway Avenue outfall.	This POTW handles up to 75 mgd of sewage per day. Its effluent discharges mainly through Outfall #001, which is located north of the Goethal's Bridge at Clifton Street. This sewage treatment facility has at least 30 CSO points that discharge to the Elizabeth River and five CSOs that discharge to Arthur Kill. This plant services 11 municipalities that are located in Essex and Union Counties.	Elizabeth River Arthur Kill Newark Bays	The facility is located along the Elizabeth River and is within approximately 1,500 feet of Arthur Kill	NJPDES Permit #NJ0024741, #NJ0108740, and #NJ0122696	Bypasses to Arthur Kill have been documented by NJDEP primarily due to high flow caused by rain events. Other bypass events were caused by equipment malfunctions and operator error. The facility was cited for violating permitted standards for floatable solids in their effluent in 1979. The facility was also cited for exceeding permitted standards for BOD and TSS in 1992. Contaminants detected in facility effluents between 1984-1992 included metals, VOCs, and SVOCs.	A leaking chlorination system was reported in 1981 that resulted in high concentrations of non-floating solids visible in the effluent.		NJPDES database Regulatory file KCS - 2001
BAY137	J & J Recycling Company	At or near 647 South Front Street. The other side of this facility may also be located near 636 Amboy Avenue. (Note: this company also operated at another separate location at 833 Flora Street - which is situated further inland.)	Elizabeth	Circa 1997 for the South Front Street location. Also known to be in operation between 11/88 -1/89 at the Flora Street location.	Recycling	Arthur Kill Newark Bay	Facility is located within 1 city block west of Arthur Kill					Regulatory file

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BAY138	Crown Central Petroleum Co.	450 Front Street	Elizabeth	Circa 1950-Present	Facility located on both sides of South Front Street	Arthur Kill Newark Bay	Waterfront - eastern section of facility is bordered on east by Arthur Kill. Western section of facility is bordered on northwest by Elizabeth River.					Sanborn Maps, 1950, 1963, 1980 ACOE Map No. 50 dated June-October 1965. KCS - 2001 Industrial directories
BAY138	LORCO Federal Terminal	450 South Front Street	Elizabeth	Not known. Known to be in operation 6/04-9/04	Petroleum terminal	Arthur Kill Newark Bay	Waterfront	NJPDES Stormwater discharge		NJPDES Discharge to Groundwater (lagoon) - sample J01J taken at the inlet to the lagoon prior to DSN003		NJPDES database Windshield survey
BAY139	Bowker Fertilizer Co.	So.Front Street	Elizabeth	Circa 1889-1922	Fertilizers	Arthur Kill Newark Bay	Waterfront					Regulatory file
BAY139	Borne Chemical Co (a/k/a "Borne- Scrymser Co.")	600 - 616 South Front Street. Mailing address is at 632 South Front Street	Elizabeth	1917-circa 1984	This company was involved with the blending and mixing of petroleum hydrocarbons and additives into lubricants. It was also involved with the mixing of tanning and dye products, and the packaging of chemical-based products that were stored onsite. Facility is divided by train tracks into north and south sections. This facility also generated and utilized the following substances: solvents, benzene, heavy metals cresols, cresylic acid, lindane, and PCBs. The company declared bankruptcy circa 1984-1986.		Waterfront	Surface runoff; one storm sewer to Arthur Kill that may have tied into the 72-inch brick trunk sewer at Bayway; two onsite surface water drainage pipes. There is a sewer outfall operated by Joint Meeting of Essex and Union Counties Sewage Treatment Plant at the end of Clifton Street to Arthur Kill. North and south sections both bordered on east by Arthur Kill. South section bordered at far south by Port Authority and Goethals Bridge.	Circa 3/65 – ISC claimed that Borne was discharging wastes of a "polluting nature" into Arthur Kill. 6/7/67 – Outfall discharge of approximately 5,000 gpd to Arthur Kill with "heavy oil" noted in the discharge. During the remedial investigation in 1991 it was noted that subsequent to release of oil from Tank Farm, the "shore line, tanks, and pipes in the Tank Farm remain contaminated with oil." Oil was analyzed and determined to be characteristic RCRA hazardous for borium and TCE.	Unlined surface impoundment (lagoon) reportedly used for oil-water separation. Two "surface water drainage pipes leaving the Borne site." SWRO circa 12/12/83 – "There exist[s] pooled oily liquids on the ground and there are soils saturated with oil in the vicinity of the tank farm, lagoon, drum storage area, and within an around the process buildings which indicate a release to the environment of these potentially hazardous materials." Circa 12/78 – soils around storage tank "noticeably strained with spillage" of nitrobenzene. Leaking AGSTs, drums, etc: "The hazardous substances contained in the elevated tanks . . . containers. . . are or may be discharging onto the lands and into the grounds and surface waters at the site."	Analysis of surface soil samples: petroleum hydrocarbons; VOCs, base/neutral compounds, and heavy metals In 1989, 19 companies entered into a Consent Decree to clean up the site. Those companies were: AGIP, USA, Inc. of NY, AT&T, Buckeye Pipe Line Co., Chesebrough Pond's Inc., Conrail, E.I duPont; Elf Marine (London) International Services, Exxon Corp., Getty Oil Co., Marisol Inc., Mobil Oil Corp., National Lead Industries, Orange Rockland Utilities, Inc., Phelps Dodge Copper Products Co., Public Service Electric & Gas Co, Texaco Refining & Marketing Inc., Thomas & Betts Corp., and Wakefern Food Corp. RTK records noted that sediments contained PCE, TCE, and vinyl chloride. RTK records noted that soils contained arsenic, barium, and lead.	Sanborn Maps, 1950, 1963, 1980 ACOE Map No. 50 dated June-October 1965 Regulatory file Database records Industrial directories KCS - 2001 SSR - 1992
KEARNY												
BAY140	Columbia Terminals Inc.	49 Central Avenue	Kearny	Early 1940s-January 2003	Primarily a bulk chemicals storage and transfer facility; there were two affiliated companies at this location: American Chemicals Corporation and Amcol Realty, Incorporated.	Hackensack River Newark Bay		Holder of NJPDES Wastewater Discharger Permit #NJ0025631. Outfall Number #001 discharges to the Hackensack River. The company has admitted, during litigation, (Superior Court - Hudson County), that it did not have safeguards in place to prevent hazardous waste runoff from discharging to the site grounds and/or groundwater.	Columbia has a history of unpermitted and non- compliant discharges of hazardous materials including NJPDES limit excursions for COD, TSS, PHCs, and pH as documented in company discahrg monitoring reports . In 2001, Columbia was charged criminally with violating the New Jersey Water Pollution Control Act by recklessly constructing a system for collection of pollutants in a manner in which those pollutants were not treated by the facility's water treatment plant.	3/86 - Media reports indicate that an explosion of a 110,000-gallon storage tank occurred at the CTI site. The lid of the tank blew off and sent flames 100 feet into the air. The tank was holding approximately 2,000 gallons of a solvent, ethyl acetate - prior to the explosion. 6/99 - Another onsite fire occurred at this facility; details were not reported. The company admitted that it had improperly stored hazardous wastes onsite (circa 1999).		Regulatory file
BAY140 A	Veckridge Chemical Co.		Kearny			Hackensack River Newark Bay						Windshield survey

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BAY141	Town of Kearny Municipal Utilities Authority	Central Avenue	Kearny	Through 1980s	Municipal wastewater treatment. POTW.	Hackensack River Newark Bay	Site is waterfront to the Hackensack River	Former plant outfall - direct to Hackensack/Newark Bay.	Discharges associated with this facility are separately detailed in Section 3 of this report.			Regulatory file
JERSEY CITY												
BAY142	Continental Tile	Route 440	Jersey City	Present		Hackensack River Newark Bay	Site is waterfront to the Hackensack River					Windshield survey
BAY142	Colonial Concrete	Route 440	Jersey City	Present		Hackensack River Newark Bay	Site is waterfront to the Hackensack River					Windshield survey
BAY143	Jersey City Department of Public Works	Route 440	Jersey City	Present		Hackensack River Newark Bay	Site is waterfront to the Hackensack River					Windshield survey
BAY144	Jersey City Municipal Utilities Authority Pump Station (former sewage treatment plant)	555 Route 440	Jersey City	1957 - Present	Formerly operated as the "West Side" sewage treatment plant constructed circa 1957 to service JC's western CSO interceptor system. It was later modified to a "pumping station" circa 1990 and at that time, all sewerage was pumped through pipes situated beneath the Newark Bay for transfer and treatment to the PVSC treatment plant in Newark.	Hackensack River Newark Bay	Site is waterfront to the Hackensack River	NJPDES Permit #NJ0108723.	The ISC identified Jersey City as early as 1943 for discharging untreated sewage into its "District Waters".	Prior to 1957, sewage from Jersey City's west side combined sewer system discharged directly to the Newark Bay. During heavy precipitation events combined sewage prior to treatment is discharged to the Hackensack River/Newark Bay.		Regulatory file
BAY 145	Jersey City Incinerator	501 Route 440	Jersey City	1957 - circa 1997	Large-scale incinerator capable of incinerating 600 tons of refuse per day. This was a 6-acre site. Incineration of industrial wastes, commercial establishment wastes, contractors' debris, and domestic wastes took place here.	Hackensack River Newark Bay	Site is waterfront to the Hackensack River	Contact cooling water discharged to the storm sewers. Surface water runoff.		Incinerator residue and ashes from the furnaces of the incinerator plant were placed on the disposal site in the marshlands at the rear of the plant.	It has been determined by USEPA that CDDs/CDFs are released into the atmosphere from municipal solid waste incineration operations.	Regulatory file

Table K-1
Newark Bay Waterfront Sources Inventory

Parcel #	Name of PRP	Street Address	City	Years of Operation	Products, Operations and/or Processes	Subject Waterway	Proximity to Waterway	Known Discharge Mechanisms (Direct/CSO/Storm)	Documented Discharge to Newark Bay and/or Tributary	Other Documented Discharges	Site Contamination if Known	Notes
BAY146	Mallinckrodt Chemical Works Site (a/k/a "M.I. Holdings, Inc." - a wholly owned subsidiary of Avon Products, Inc.)	223 West Side Avenue	Jersey City	1887-late 1980s	This is a 11.65-acre lot comprised of three separate parcels. Company was engaged in the manufacture of food preservatives, diagnostic chemicals, and surfactants. Pre-1940s it produced inorganic chemicals consisting of salts or oxides of iron and mercury. The company worked with the U.S. Government in the 1940s testing uranium trioxide. Post-1940, the company continued to produce mercury compounds and inorganic chemicals, including zinc acetate, potassium sulfate, potassium chloride, ferrous sulfate, ferric chloride, and sodium nitrate.	Newark Bay	Site is 2,000 feet west of the Hackensack River/Newark Bay.				Soils were contaminated with mercury at the eastern portion of this site; soils were excavated as part of remediation work circa 1993 per MOA with NJDEP and disposed offsite. The soils along the southern and western borders are contaminated with chromium. Other contaminants of concern at this site include arsenic, cadmium, chromium, lead, mercury, thallium, antimony, methylene chloride, dichloroethenes, vinyl chloride, TCE, benzene, and xylenes.	Regulatory file Industrial directory
BAY147	Baldwin Steel	West Side Avenue	Jersey City		Metal Processors; formerly operated by Ryerson Steel.	Newark Bay Hackensack River	Site is approximately 3,000 feet east of Hackensack River/Newark Bay.					Windshield survey
BAY148	Allied Chemical/Honeywell Site	Route 440	Jersey City	1905-1954	Mutual Chemical operated from approximately 1905-1954. In 1954, Allied acquired all stock in Mutual Chemical. Site was used for the disposal of chromium processing ore (COPR).	Newark Bay Hackensack River	Site is waterfront to the confluence of the Hackensack River and Newark Bay.	Surface flow occurs overland to storm sewers and ditches leading to the Hackensack River. The site is located within two CSO districts that bypass to the Hackensack River and Newark Bay.			Soils are contaminated with chromium and hexavalent chromium. Groundwater contains elevated levels of chromium, hexavalent chromium, cyanide, heavy metals, and Phenols. Sediment offshore of the site contained heavy metals, SVOCs, pesticides, and PCBs. Analysis conducted on Hackensack River sediments adjacent to the site indicate total chromium at up to 33,500 ppm and hexavalent chromium at up to 56.5 ppm.	Regulatory file
BAY149	Reliable Machinery Service and Truck Repair	Route 440	Jersey City	Present		Newark Bay Hackensack River	Site is waterfront to the Hackensack River/Newark Bay.					Windshield survey
BAY150	Droyers Point/Society Hill	Route 440	Jersey City	Present	Residential housing - townhomes.	Newark Bay Hackensack River	Site is waterfront to the Hackensack River/Newark Bay.					Windshield survey
BAYONNE												

Table K-1
Newark Bay Waterfront Sources Inventory

Parcel #	Name of PRP	Street Address	City	Years of Operation	Products, Operations and/or Processes	Subject Waterway	Proximity to Waterway	Known Discharge Mechanisms (Direct/CSO/Storm)	Documented Discharge to Newark Bay and/or Tributary	Other Documented Discharges	Site Contamination if Known	Notes
BAY151	Pharma Chem "Plant 1"	169 West 52nd Street	Bayonne	1918-1957 as Pharma Chem; 1957-1981 Verona Chemical Corp., Bay Chem Corp, Mobay Chem Corp., and Mobay Corp.	Produced textile dyestuffs. DDT was produced for Federal Government during WWII.	Newark Bay	Within 900 feet to Newark Bay	Three outfalls; surface overflow	Correspondence from the ISC in 1954 indicated that this facility had three outfalls that led to the Newark Bay. Studies conducted by the ISC revealed that effluent from these three outfalls contained acids. Additional ISC correspondence in 1955 indicated that Pharma Chem discharged exhausted dyes, vat wastes, and floor washings to Newark Bay.	December 1954: a continuous flow of red waste water was observed emanating from the site to "Interstate Sanitation Commission District Waters"	Site groundwater has been shown to contain chlorobenzene, 1,2-dichlorobenzene, 1,4- dichlorobenzene, ethylbenzene, benzene, 2,4-dichlorophenol, 1,2,4-trichlorobenzene, toluenr. and TCE.	Regulatory file media reports
BAY152	Efka Plastics	163 Avenue A Block 457, Lot 22A	Bayonne	1960-1985	Manufacturer of vinyl tablecloths and related items. Prior owners/operators at this site: Elco Naval Works, Elco Boat Works, Electric Dynamic Works, and Electric Boat Company - engaged in the manufacture of military vessels. The companies were subsidiaries of General Dynamics. Current owner is Baker Residential, the developer of townhomes at the site called; "Boatworks at Bayonne"	Newark Bay	Waterfront to Newark Bay	This facility has an NJPDES permit for seven discharge overflow points. One discharge overflow is for non-contact cooling water and the remaining overflow points for stormwater. Stormwater runoff; floor drains to an unlined area beneath the building. The ISC noted in 1956 that the old Elco plant was not tied into the Bayonne sewer system that tied into the sewage treatment plant.	In 1954, the ISC noted that Electro Dynamic Corp. was discharging sanitary wastes and that their outfalls were not connected to the Bayonne city interceptor. In 1979, NJDEP detected high zinc concentrations and sanitary sewage discharges emanating from the non-contact cooling water outfall at Efka Plastics.	Between 1970-1975, a citizen's group, called "Bayonne Citizens for Clean Water Committee" noted discharges from the Efka plant to the Newark Bay. In 1975, the same citizen's group noted that a clear odorous discharge was detected emitting into Newark Bay from a pipeline coming from the Efka plant grounds. In 1981, the Mayor of Bayonne alleged that Efka Plastics was issued a fine for dumping chemical pollutants into the Newark Bay.	The following substances were identified in site soils: acenaphthene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, fluorene, phenanthrene, pyrene, ethylbenzene, methylene chloride, toluene, xylene, and lead. The following substances were found in groundwater: benzene, xylenes, toluene, ethylbenzene.	Regulatory file media reports Sanborn maps
BAY152	Polytex	163 Avenue A	Bayonne	At least 1963	Manufacturer of lace plastic tablecloths.	Newark Bay	Waterfront to Newark Bay					Media reports
BAY152	Englander Company (became a subsidiary of Union Carbide Corporation in 1964)	163 Avenue A	Bayonne	1954	Production of mattresses, box springs, and convertible bedding. Operated at the former Efka/Elco site.	Newark Bay	Waterfront to Newark Bay					Media reports Sanborn maps
BAY153	Bergen Point Brass Foundry	179-185 West 5th Street	Bayonne	Circa 1950-Present/Defunct	Brass and bronze assemblies, sub-assemblies and specialty items, including mailboxes and gavels, swimming pool equipment.	Newark Bay	Within 1,000 feet of Newark Bay					Sanborn maps Windshield survey
BAY154	Nacirema Industries	211-217 West 5th Street	Bayonne		Demolition contractors; excavating, recycling, and crushing; hazardous waste management and removal.	Newark Bay	Within 500 feet of the Newark Bay					Database reports
BAY155	Swan Michigan Oil	180 West 5th Street	Bayonne		Manufacture of cutting oils.	Newark Bay	Within 500 feet of Newark Bay					Internet databases
BAY156	Palmer Asphalt	196 West 5th Street	Bayonne		Lube blending and light products terminal.	Newark Bay	Waterfront to Newark Bay				Site is listed under the NJDEP UST Contamination Site database.	Internet databases

Table K-1
Newark Bay Waterfront Sources Inventory

Parcel #	Name of PRP	Street Address	City	Years of Operation	Products, Operations and/or Processes	Subject Waterway	Proximity to Waterway	Known Discharge Mechanisms (Direct/CSO/Storm)	Documented Discharge to Newark Bay and/or Tributary	Other Documented Discharges	Site Contamination if Known	Notes
BAY157	Best Foods (Subsidiary of CPC International) (a/k/a "Nucoa Butter Company" and "Unilever")	99 Avenue A	Bayonne	1906-Present	Food manufacturing, including mayonnaise and vegetable oil, dried and dehydrated fruits, pickled fruits and vegetables, vegetable sauces and seasonings, wet corn meal, bread and other bakery products, shortening, and table oils.	Newark Bay	Waterfront to Newark Bay	Facility has an NJPDES permit identified as #NJ0057673 File information indicates the following chemicals were discharged to the Bayonne Sewage Treatment Plant between 1987 and 1988: phosphoric acid, sodium hydroxide, sulfuric acid. Of those, only phosphoric acid was also discharged to PVSC after 1990.	Letter of violation for non-compliance dated 8/26/87.	1984 – Eight broken and corroded 45-gallon drums were unearthed during an excavation. They were found to contain xylene, toluene, methyl chloride, and TCE, all of which were leaking into site soils.		Media reports Industrial directories Library research
BAY158	Baker Castor Oil/NL Industries/Caschem/Rutherford Chemicals	35 Avenue A; 40 Avenue A near intersection of Gertrude Street; (Block #s 360, 361, 362 - Lots 1,12, 3)	Bayonne	1978-Present. Baker Castor Oil began operations in 1857; Oil Seeds Co. operated 1900-10; Barclay & Co./John O'Leary operated at site 1900-10; F.W. Fitch Co. operated 1910-15; Baker Castor Oil Co. operated 1910-1975 (1905 National Lead Industries received equity interest), acquire all of Baker in 1970s, CasChem bought National Lead in 1981 and operated through 2003; Rutherford Chemicals 2003-Present.	Manufacturing, refining, storage, and distribution of castor beans/castor oil. It produced approximately 200 castor oil specialty chemicals. These chemicals included polymerized oils, dehydrated oils, fatty acids, etc.; urethane; NL was a supplier of drilling instruments, fluids, and tools used in oil and gas exploration.	Newark Bay	Waterfront to Newark Bay	Floor to drains in oil-water separator area lead to Bayonne Waste Water Treatment Plant. NJDEP inspections from 6/13/86 indicate a series of storm sewers in the rear of facility could allow spillage to flow directly to water body. The facility purportedly contained a 24-inch main discharge pipe to Newark Bay. It also contained a 4-foot pipe for discharge of coolant water and a 3-inch pipe for drainage of the cooling tower. Facility has an NJPDES permit identified as #NJ0000949. Also have a Water Discharge Permit identified as #NJ0131423. File also indicates the following discharge: SW Discharge DSN001. Facility known to have discharged suspended soils, oil and grease, and TOC.	Caustic cleaning oil/castor oil spill/caustic soda/soap spills of various sizes into Newark Bay, 1/27/85, 12/2/85, 6/11/86, 9/5/86, 5/28/87, 3/22/90, 6/21/90, 10/17/90, 11/15/90, 3/15/92, 1/18/93, 9/21/95, and 10/19/95. Outfall 001 samples indicate TOC exceeded permit limitations, 7/24/86. Turbid wastewater discharged, eventually to Newark Bay via Outfall 001, 1/6/88. Violation regarding pollution discharge into Newark Bay via Outfall 001A, 5/18/90 Company cited for TSS discharge to Newark Bay in 1990.	10/82 - Approximately 20,000 lbs of methyl ricinoleate leaked from a line in the yard. Discharges non-contact cooling water and stormwater runoff through outfall DSN001. Broken pipe leads to discharge into storm sewer of 5% caustic soap and 200 gallons of castor oil, 12/4/85. A spill of 25 to 100 gallons of TDI flowed to ground, 6/11/86. Discharge of Caspol 1715 12/16/87. Truck spills 65 gallons of fuel, entered site drains, 11/1/90. NJDEP reports methyl ricmolate found in monitoring well. On 1/5/90 due to overflow of storage tank, 5 gallons of ethylene diamine spilled to ground. USEPA database records indicate that the following chemicals were released into environment: dIIsocyanates, toluene, xylene. The following chemicals listed as being transferred to POTWs: ethylene glycol, methanol, sodium hydroxide, sodium sulfate, sulfuric acid, bis(2-ethylhexyl)adipate, dIIsocyanates, methyl ethyl ketone, methylenebis(phenylisocyanate), N-butyl alcohol, toluene, xylene. Adipate, dIIsocyanates, methyl ethyl ketone, methylenebis(phenylisocyanate), N-butyl alcohol, toluene, xylene.	NJDEP notes poor housekeeping that may lead to contamination of surface waters onsite, 9/11/91. NJDEP issues warning regarding storage of non-palletized drums, 4/9/90. NJDEP reports 7,000 drums onsite, some leaking there for more than 4 years, 11/3/89. 12/91 - Xylene was detected at 2.02 ppm near hazardous waste USTs. Site is listed under the NJDEP UST Contamination Site database.	Regulatory file Media reports Industrial directories
BAY159	John Boyle & Co.	Juliette Street and Avenue A	Bayonne			Newark Bay						Library research
BAY159	Present Day Tenants: -Val's Construction - -Value Window & Door Co -JP's Plumbing & Heating	54 Juliette Street	Bayonne			Newark Bay						Windshield survey
BAY160	F.W. Fitch Co.	Gertrude Street, off Avenue A	Bayonne									Library research

Table K-1
Newark Bay Waterfront Sources Inventory

Parcel #	Name of PRP	Street Address	City	Years of Operation	Products, Operations and/or Processes	Subject Waterway	Proximity to Waterway	Known Discharge Mechanisms (Direct/CSO/Storm)	Documented Discharge to Newark Bay and/or Tributary	Other Documented Discharges	Site Contamination if Known	Notes
BAY161	Texaco/Texas Oil Company	37 Avenue A	Bayonne	1909-1985 (Chevron-Texaco is still the owner of the site, although operations ceased 20 years ago)	Lube blending and light products terminal	Newark Bay Kill Van Kull	Waterfront to Kill Van Kull and Newark Bay. 2 miles from Arthur Kill.	Historically this site had five discharge points and one emergency discharge point. Stormwater runoff from the tank farm and recovery wells was discharged via Outfall 001L to the Bayonne City Sewer System. During periods of heavy rain, stormwater runoff was allowed to discharge directly to Newark Bay via emergency Outfall 001. Discharge points 002, 003, and 004 conveyed stormwater runoff from the Tank Farm area to Newark Bay. Discharge 005 conveyed stormwater runoff from non-Tank Farm areas to Kill Van Kull.	On February 4, 1972, Texaco was convicted of the unlawful discharge of gasoline refuse into Newark Bay on 8/10/70. From July 1975 to December 1981, the U.S. Coast Guard cleaned up at least nine spills from this site to Newark Bay and Kill Van Kull.	In 1954, the ISC reported a violation concerning a 24-inch cast iron outfall leading from this site. The company was ordered to tie the sewer into the Bayonne City sewer system, in which it did comply by 1956.	Site groundwater is known to be contaminated with petroleum hydrocarbons, VOCs, metals, and base neutral extractable compounds. Site soil is known to be contaminated with petroleum hydrocarbons, metals, and VOCs.	Media reports Sanborn Maps 1950, 1979 Library research
BAY162	Texaco/Texas Oil Company	37 Avenue A	Bayonne	1909-1985 (Chevron-Texaco is still the owner of the site, although operations ceased 20 years ago)	Lube blending and light products terminal	Newark Bay Kill Van Kull	Waterfront to Kill Van Kull and Newark Bay. 2 miles from Arthur Kill.		30,000-40,000 gallons of gasoline spilled from a Texaco tanker to Kill Van Kull (date not known). A 1980 incident involving an illegal cross connection at the site almost resulted in salt water contaminating the city water supply.	On July 4, 1900, there was a fire at the site that destroyed 10 oil storage tanks.	In 1993, Texaco was issued an emergency Pollutant Discharge Elimination System permit to add nutrients to the soil to accelerate the site's bioremediation pursuant to an ECRA site cleanup.	Media reports Sanborn Maps 1950, 1979 Library research
BAY163	General Cable (a/k/a Pirelli Cable Co.)	236 West First Street	Bayonne	1886 to 1978 (Originally part of Safety Wire and Cable Co., which merged with other firms to form General Cable in 1927) Pirelli Cable Co-operated onsite from 1978 to 1992.	Manufacturer of electric power cable and other fabricated wire products. Drawing and insulating of non-ferrous wire; manufacture of fabricated wire products.	Newark Bay Kill Van Kull	Waterfront to the Newark Bay and Kill Van Kull	All process, cooling, boiler and storm wastewater is discharged via one 24-inch outfall to the Kill Van Kull. It is also known that historically there were at least four other discharge points from the site to the Kill Van Kull, including two 18-inch sewers one east of the 24-inch drain and one west of the 24-inch drain and two visible outfalls, one near the east property line and shore and the second near the fire pump house and shore. All sanitary wastes, approximately 10,000 gpd, are discharged to the city sewer system.	Criminal charges filed in U.S. District Court related to the unlawful discharge of oil and grease refuse into the Kill Van Kull on five different occasions between 10/24/69 and 8/25/70. On June 4, 1979, 1,000 gallons of wire drawing solution overflowed to the storm sewer and through the wastewater monitoring station creating a discharge to the Kill Van Kull that was white in appearance.	File information indicates that approximately 22 incidences of bypass of the onsite wastewater treatment facility occurred during the period between 7/17/78-7/29/80. In most cases, the bypasses were due to heavy rainfall. In June 1978, it was noted that a facility collection sump design allowed a sluice valve to open automatically during wet weather events. When this valve opened, the entire pump "heavy with oil" drained to the Kill Van Kull. The plant manager was ordered to disable the bypass. In April 1979, Chemical Oxygen Demand exceeded permitted limits at the 24-inch outfall.	Site soil sampling indicates the presence of benzene, TCE, PCE, TPH, lead, beryllium, zinc, copper, nickel, arsenic, PCBs, cadmium, chromium, antimony, and PAHs. Groundwater sampling conducted onsite indicates the presence of lead, arsenic, VOCs, SVOCs, antimony, chromium, zinc, cadmium, copper, mercury, nickel, beryllium, and TCE.	Media reports Sanborn Maps 1942 Library research Database reports Regulatory file
STATEN ISLAND												
BAY164	Scara Mix Co.	2537 Richmond Terrace	Staten Island	Present		Newark Bay	Waterfront to Newark Bay					Windshield survey

Table K-1
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BAY165	Standard T. Chemical Co.	2600 Richmond Terrace (this company also operated another facility at: 1312 Elizabeth Ave, Linden, NJ)	Staten Island	1925-1985	Principal product is the manufacture of paint - up to 4,800 gpd	Newark Bay	Waterfront to Newark Bay	This facility has an NPDES permit allowing for two discharge outfalls. DSN001 for boiler blowdown discharges to an unnamed creek that flows to Kill Van Kull. DSN002 is for domestic sewage discharge that discharges directly to Kill Van Kull.			NYSDEC noted that Standard T utilized polybrominated biphenyls (PPB) as a flame retardant in its paint manufacturing processes. Sampling of air, soil, and water was suggested circa the 1977 time period. Boiler blowdown may have discharged PPBs in the past to local waterways. USEPA noted in a 1977 newsletter that PBBs were found in samples of sediment, soils, water, plants, and human hair taken in close proximity to the Standard T plant.	Regulatory file SSR
BAY166	Great Lakes Dredge and Drydock	Richmond Terrace	Staten Island	Present	Marine ship repair	Newark Bay	Waterfront to Newark Bay					Windshield survey
BAY167	Arlington Rail Yards		Staten Island	Unknown - terminated operations circa 1990	Freight yard rail operations	Newark Bay Arthur Kill Old Place Creek	Within 3,000 feet of Newark Bay					Regulatory file
BAY168	Bethlehem Steel Company Shipbuilding Division.	Richmond Terrace between South Ave and Harbor Road	Staten Island	1938-1965; as of 1965, site operated by J.M.L Trading Corp.	Shipbuilding plant, drydock, marine repair plant, ship hull washing, ion exchange, regeneration, boiler blowdown, cooling waters, and sanitary. No treatment provided. 1965 USACE map indicates that the site is operated by J.M. L. Trading Corporation. It is unclear how long they operated on the site. The occupant of the site in 1997 was Harbor Marina.	Newark Bay Arthur Kill	Waterfront to Arthur Kill					USACE Maps 1942, 1965 1965 Report entitled "New York Harbor Industrial Discharges" by the U.S. Department of Health Regulatory file
BAY169	May Ship Repair	Richmond Terrace	Staten Island	Present	Marine ship repair	Newark Bay	Waterfront to Newark Bay					Windshield survey
BAY170	Unique Coffee	Richmond Terrace	Staten Island	Present	Commercial coffee production	Newark Bay	Waterfront to Newark Bay					Windshield survey
BAY171	Bethlehem Steel Company Shipbuilding Division.	Off Richmond Terrace	Staten Island	1938-1965; as of 1965, site operated by J.M.L Trading Corp.	Facility located 7 blocks inland from Bethlehem Steel waterfront operations	Newark Bay	Waterfront to Arthur Kill					USACE Maps 1942, 1965 1965 Report entitled "New York Harbor Industrial Discharges" by the U.S. Department of Health Regulatory File
BAY172	Clean Water of NY	3249 Richmond Terrace	Staten Island	Present	Hazardous material and waste management	Newark Bay	Waterfront to Newark Bay					Windshield survey
BAY173	Spearin Preston & Barrows	Richmond Terrace	Staten Island	Present	Marine construction	Newark Bay	Waterfront to Newark Bay					Windshield survey
BAY174	City of New York/NYC DOT Bridge Preventative Maintenance	Richmond Terrace	Staten Island	Present	Bridge preventative maintenance. Road and bridge repair depot.	Newark Bay	Waterfront to Newark Bay					Windshield survey

Table K-1
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BAY175	Proctor & Gamble Manufacturing Co.	40 Western Ave. and Richmond Terrace	Staten Island	1907-1991	Manufacturer of detergent, soaps, shortenings, oil, and baking mixes. Also formulator of pesticides.	Newark Bay Arthur Kill	Waterfront - bordered on north by Arthur Kill and on west and south by New Creek Channel.	Cooling water, stormwater, and boiler blowdown discharge to Bridge Creek. Cooling water and stormwater discharged to Arthur Kill. Process wastewater to municipal sewer system.		1983: P&G reported that 1,000 gallons of 5% HCL cleaning solvent was discharged to the sewer. Spill of caustic to sewer system and spill of concentrated perfume cause illnesses to treatment works workers. A memo dated 9/15/86 indicated that during the May-June DMR period, blowdown from the woodboiler scrubber water recirculation system containing high concentrations of woodash overflowed into an outfall sampling station via a railroad track storm drain. In 1989, regulatory agencies discovered a daily discharge of 80 lbs of zinc and 50 lbs of lead prior to discharge to the public sewer system. USEPA's 2005 CPIP Report noted that contamination of the soil and groundwater at the site occurred due to the leakage of petroleum products at this site. The site is presently undergoing remediation as part of New York's "Voluntary Clean-up Program"		Sanborn Maps, 1951, 1981, 1992 ACOE Map No. 50 dated June - October 1965. Regulatory file
BAY176	Howland Hook Marine Terminal	300 Western Avenue	Staten Island	Circa 1960	Bulk shipping container/marine terminal located on a 187-acre site. The terminal was built by American Export Lines and purchased by the City of New York in 1973. The PANYNJ leased the site from the City in 1985. In 1995, the Howland Hook Marine Terminal was leased to Howland Hook Container Terminal, Inc. It is currently operated as the New York Container Terminal.	Newark Bay Arthur Kill	Waterfront - bordered on west by Arthur Kill					Windshield survey Database reports
BAY177	R. Baker & Sons Machinery Dismantlers	250 South Washington Avenue	Staten Island		Dump site – salvager of transformers.	Newark Bay Arthur Kill Old Place Creek	Site is located adjacent to the Goethals Bridge on 3 acres of filled-in wetlands – within 1,500-2,000 feet east of Arthur Kill			Soil samples taken circa 1977 confirmed PCB contamination in the salvage area. Sediments and groundwater were also found to be contaminated with PCBs.		Regulatory file

Note: Information in table is from *Report on Investigation of Sources of Pollutants and Contaminants* (Tierra 2006).

Acronyms and Abbreviations:

ACOE = Army Corps of Engineers
BOD = biological oxygen demand
BNA = base neutral and acid extractables
CDD = polychlorinated dibenzo-*p*-dioxins
CDF = polychlorinated dibenzofurans
CPIP = Comprehensive Port Improvement Plan
CSO = combined sewer overflow
DNAPL = dense non-aqueous phase liquid
DMR = Discharge Monitoring Report
DOT = Department of Transportation
ECRA = Environmental Cleanup Responsibility Act
gpd = gallons per day
HCL = hydrochloric acid

KCS = Known Contaminated Sites
KII = Koppers Industries, Inc.
lbs = pounds
M = million
mgd = million gallons per day
MGP = manufactured gas plant
MOA = memorandum of agreement
NJDEP = New Jersey Department of Environmental Protection
NJPDES = New Jersey Pollutant Discharge Elimination System
NPDES = National Pollutant Discharge Elimination System
PAH = polycyclic aromatic hydrocarbon
PANJ = Port Authority of New Jersey
PCB = polychlorinated biphenyl

PCE = tetrachloroethene
ppm = parts per million
POTW = publicly owned treatment works
PRP = potentially responsible party
PVSC = Passaic Valley Sewerage Commissioners
RCRA = Resource Conservation and Recovery Act
RR = railroad
SVOC = semivolatile organic compound
TCE = trichloroethene
TDI = toluene diisocyanate
TOC = total organic carbon
TPH = total petroleum hydrocarbon
TPHC = total petroleum hydrocarbon

TSS = total suspended solid
USACE = U.S. Army Corps of Engineers
USEPA = U.S. Environmental Protection Agency
UST = underground storage tank

Newark Bay Study Area Remedial Investigation
Remedial Investigation Report
May 2022

Table K-2
CSOs that Discharge to the NBSA

City and State	CSO Identification Number	CSO Name
Newark, NJ	N-022	Roanoke Avenue
	N-023	Adams Street
	N-025	Peddie Street
	N-026	Queen Street
	N-027	Waverly District
	N-030	Avenue A
Jersey City, NJ	JC-002	Manhattan Avenue
	JC-003	St. Paul's Avenue
	JC-004	Howell Street
	JC-005	Broadway
	JC-006	Sip Avenue
	JC-007	Duncan Avenue
	JC-008	Clendenny Avenue
	JC-009	Claremont Avenue
	JC-010	Fisk Street
	JC-011	Cherry Street
	JC-013	Mina Drive
Bayonne, NJ	B-002	5th Street Pumping Station
	B-003	1st Street Pumping Station
	B-004	Lord Avenue
	B-008	East 5th Street
	B-009	Broadway at East 1st Street
	B-010	Avenue C at East 1st Street
	B-011	West 3rd Street
	B-012	West 5th Street
	B-013	Edwards Court
	B-014	West 16th Street
	B-015	West 22nd Street
	B-016	West 24th Street
	B-017	West 25th Street
	B-018	West 30th Street

Table K-2
CSOs that Discharge to the NBSA

City and State	CSO Identification Number	CSO Name
	B-019	Lincoln Parkway
	B-020	West 59th Street
	B-022	Zabriskie Avenue
	B-024	Humphrey's Avenue
	B-026	Veterans Park
	B-028	Lincoln Parkway
	B-029	West 37th Street
	B-030	West 54th Street
	B-034	Bayview Court
Elizabeth, NJ	E-002	Dowd Avenue
	E-003	Westfield Avenue
	E-005	Westfield Avenue
	E-008	Grant Street/Price Street
	E-010	Murray / Cherry Street
	E-012	Rahway Avenue
	E-013	Rahway Avenue/Burnet Street
	E-014	Broad Street / Rahway Avenue
	E-016	Edgar Road / Pearl Street
	E-021	Spring Street / Third Avenue
	E-022	South Street
	E-026	John Street
	E-027	Summer Street / Arnett Street
	E-028	Summer Street / Arnett Street
	E-029	South Front Street
	E-030	East Jersey / Front Street
	E-031	Livingston Street / Front Street
	E-032	Magnolia Avenue / Front Street
	E-034	Atalanta Place
	E-035	Third Avenue / South Front Street
	E-036	Orchard Street / Dod Court
	E-037	Bayway

Table K-2
CSOs that Discharge to the NBSA

City and State	CSO Identification Number	CSO Name
	E-038	Third Avenue
	E-039	Trunbull Street / Fourth Street
	E-040	Pulaski Street / Clifton Street
	E-041	Morris Avenue / Sayre Street
	E-042	Bridge Street / Elizabeth Street
	E-043	Army Flood Control Structure
Staten Island, NY	PR-002	Taylor Street
	PR-003	Broadway
	PR-004	Bard Avenue
	PR-005	Kissel Avenue
	PR-006	Clinton Avenue
	PR-007	Sailor Snug Harbor
	PR-008	Franklin Avenue
	PR-009	Jersey Street
	PR-024	Holland Avenue
	PR-025	South Avenue
	PR-026	Harbor Road
	PR-027	Union Avenue
	PR-028	Houseman Avenue
	PR-029	Nicholas Street
	PR-033	Elizabeth Avenue
	PR-034	Bement Avenue
	PR-035	Bodine Street
	PR-036	Rector Street
	PR-037	Richmond Avenue

Acronyms and Abbreviations:

CSO = combined sewer overflow

NBSA = Newark Bay Study Area

Table K-3
POTW Releases of Untreated Water to the NBSA

Municipality	Year	POTW Release
Newark	1979/1980	PVSC discharged primary effluent[1] into Newark Bay at Outfall # DSN-002 during construction of the PVSC tunnel to New York Harbor (1980 NJDEP ACO). In addition, PVSC was discharging "in excess of 200 million gallons per day (MGD) of primary effluent into Newark Bay through DSN-002." Conditional approval for the discharge was authorized by NJDEP as of August 28, 1979. Sampling results "submitted by the Passaic Valley Sewerage Commissioners" as required by the authorization have shown a "severe degradation of the water quality of Newark Bay (1980 NJDEP ACO)"
	2012	PVSC lost electrical power on October 29, 2012 during Hurricane Sandy and regained power during the weekend of November 3, 2012. During this time, PVSC was discharging approximately 300 to 500 MGD of raw sewage to Newark Bay (Strunsky 2012a; Clunn 2012; WaterWorld 2012). Even as PVSC brought its damaged equipment back on-line in a sequential process, it was still discharging approximately 240 to 250 MGD of partially treated sewage to Newark Bay and New York Harbor until all treatment equipment was restored (Strunsky 2012b; Parry 2012).
Elizabeth	1991 - 2004	Approximately 144 secondary bypass events from the Joint Meeting of Essex-Union County (JMEUC) POTW facility were reported by JMEUC to NJDEP. Bypasses occurred due to factors related to high flow rates, storms, equipment malfunction and electrical system power failures/outages. Additional bypassing events at other JMEUC trunk sewer locations were also noted, usually associated with precipitation events (JMEUC 2004).

Notes:

[1] Primary effluent is generally considered by authorities to be effluent in which heavy solids have been allowed to settle in a basin for removal prior to discharge. This level of treatment does not include a biological process to remove dissolved and suspended organic compounds, and the sewage is not disinfected chemically or physically by microfiltration.

POTW = Publicly Owned Treatment Work

References:

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Table K-4
Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Arthur Kill	1975-1986, 1979, 1984	American Cyanamid	At least 40 documented spills or releases to the facility or adjacent waterways between 1975 and 1986. A majority of those incidents involved sulfuric acid, oleum, caustic soda, acids, acrylamides, malathion, sodium hydroxide or cyanides. 1000 gallons of No. 2 fuel oil was spilled to the Arthur Kill on May 15, 1979. A 1984 spill of dithio phosphorous acid resulted in the release of 8000 lbs. to the Arthur Kill. A 1984 spill resulted in the release of approximately 275 gallons of toluene to the Rahway River. Elevated levels of organic, sulphur, sulfide, phosphorous and pesticides were detected in samples taken from Building 69, which discharged to the Rahway River.	Tierra 2006
Arthur Kill	1978, 1980	Chemical Control Corp. (CCC)	Waste drums ruptured and blown into river during explosion/fire; runoff from firefighting activities during the fire/explosion and runoff from leaking drums to river. A 1978 inspection indicated 30-50,000 drums adjacent to the Elizabeth River. Many drums were severely deteriorated; leaking and discharges migrated to the river.	Tierra 2006
Arthur Kill	1978, 1994	FMC Corp.	Criminal action filed by Sepal regarding phosphoric acid spill to the Arthur Kill - as observed by U.S. Coast Guard - 1978 hydrogen sulfide spill reached local waterway - 1994.	Tierra 2006
Arthur Kill	1983	ExxonMobil	Two barges collided discharging 40,000 gallons of home heating fuel into the Arthur Kill.	Tierra 2006
Arthur Kill	9/12/1988, 09/28/1988	Merck & Co., Inc.	09/12/1988 - discharge of 10,000 gallons of untreated wastewater to Kings Creek from facility process water treatment plant. 09/28/1988 - discharge of 500 gallons of untreated wastewater to Kings Creek from facility process water treatment plant.	Tierra 2006
Arthur Kill	1990	General Motors Corp.	1990 - Tri records indicated 250 lbs. of zinc reportedly released in 1990 to West Brook Creek.	Tierra 2006
Arthur Kill	1995-2000	GATX Terminals Corp.	Reported Gate facility spills between 1995 and 2000 reported to discharge to Arthur Kill and/or adjacent wet lands.	Tierra 2006
Arthur Kill	10/30/2004	Kinder Morgan Liquid Terminals	Media reports indicated that up to 50,000 gallons of sodium hydroxide (lye) spilled into the Arthur Kill due to the collapse of an on-site 450,000-gallon chemical storage tank.	Tierra 2006
Arthur Kill	2/25/2005	Donjon Marine	A hydraulic line from an excavator on the Dredge Jpg Boisseau broke and released oil into the water. Hydraulic oil.	U.S. Coast Guard 2017. Incident # 751066
Arthur Kill	3/18/2005	CJ Murphy Inc.	Driver was pulling up to barge to unload, the truck slid into water after hitting black ice. An 8-ft gash in the truck caused the marine lube oil to enter the Arthur Kill. The capacity of vehicle was 7,500 gallons. Driver escaped without injury. No damage done to barge.	U.S. Coast Guard 2017. Incident # 753029
Arthur Kill	3/21/2005	Reinauer Transportation	Reporting a material release from a vessel due to a tank overflow during transfer procedures. Oil, fuel: No. 2.	U.S. Coast Guard 2017. Incident # 753355
Arthur Kill	10/8/2005	Shelby Weeks (Weeks Marine)	Called stated due to operator error there was a release of materials from a tug boat. Oil, fuel: No. 2-D.	U.S. Coast Guard 2017. Incident # 775433
Arthur Kill	12/15/2005	Buchanan Marine	Diesel fuel released from fuel vent on a tug boat due to unknown causes. Oil: diesel.	U.S. Coast Guard 2017. Incident # 782559
Arthur Kill	3/23/2006	Unknown	Number two oil spilled into the Arthur Kill from a leaking fuel tank on a barge. Oil, fuel: No. 2-D.	U.S. Coast Guard 2017. Incident # 791794
Arthur Kill	5/30/2006	Great Lakes Dredge & Dock Company	Hydraulic oil spilled into the Arthur Kill from a failed fitting on board a dredge. Hydraulic oil.	U.S. Coast Guard 2017. Incident # 798918
Arthur Kill	9/3/2006	Atlantic Trucking Freight	The caller stated that due to unknown causes, three tractor trailers caught on fire. In the process of extinguishing the fire, the contents of the saddle tanks discharged onto the ground and into a storm drain that leads to the Arthur Kill River. Oil: diesel.	U.S. Coast Guard 2017. Incident # 810174
Arthur Kill	9/16/2006	Unknown	Caller stated there was a release of diesel from a tug boat due to the operator over filling the tank. Oil: diesel.	U.S. Coast Guard 2017. Incident # 811659

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Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Arthur Kill	10/31/2006	Jay Cashman	Caller reporting a machine on a barge ruptured a hydraulic line spilling material into the water.	U.S. Coast Guard 2017. Incident # 816605
Arthur Kill	10/31/2006	New York Terminals	Caller stated while fueling the Ki tug, the motor vessel "Java Sea" discharged oil from their fuel tank onto the deck and into the water due to unknown causes. Oil: diesel.	U.S. Coast Guard 2017. Incident # 816607
Arthur Kill	7/31/2007	Reinauer Transportation Company	Caller reported while M/V Westchester was loading from the dock manifold to the vessel, the dockman removed the hose from the dock before it was done draining and released gasoline into the Arthur Kill River.	U.S. Coast Guard 2017. Incident # 843985
Arthur Kill	11/29/2007	Weeks Marine	Caller stated there was a spill of materials while the vessel was in the process of being fueled. Oil: diesel	U.S. Coast Guard 2017. Incident # 855817
Arthur Kill	12/20/2007	Durocher Marine	Caller stated due to a rigging failure there was a spill of materials into the Arthur Kill. Oil: diesel.	U.S. Coast Guard 2017. Incident # 857719
Arthur Kill	3/25/2008	Morales Trucking	Caller is reporting a material release from two dump trucks due to a transport accident. Caller states there were two vehicles involved in this accident. Oil: diesel.	U.S. Coast Guard 2017. Incident # 865952
Arthur Kill	5/10/2008	Unknown	Diesel fuel has spilled into the Arthur Kill from a transfer hose on board the Barge Ht100. The spill was caused by a failed valve on the transfer hose. Oil: diesel.	U.S. Coast Guard 2017. Incident # 870455
Arthur Kill	9/8/2008	Reinauer Transportation Company	The caller stated that while taking on fuel the barge fuel tank was overfilled spilling into the Arthur Kill. The terminal has started cleanup with absorbents although it appears to be non-recoverable due to the very small quantity.	U.S. Coast Guard 2017. Incident # 883126
Arthur Kill	9/26/2008	American Petroleum	Caller is reporting that Number 2 diesel discharged from the Number 4 tank due to a leak in the tank. As a result, the material is releasing into the water. Oil, fuel: No. 2-D.	U.S. Coast Guard 2017. Incident # 885401
Arthur Kill	11/7/2008	IMTT	Caller is reporting that home heating (# 2) fuel discharged from a hose on the pier due to an operator disconnecting the hose. As a result, the material released into the water.	U.S. Coast Guard 2017. Incident # 889428
Arthur Kill	4/2/2009	USNS Bob Hope	Hydraulic oil discharged from the USNS Bob Hope into Arthur Kill due to a leaky hydraulic cylinder.	U.S. Coast Guard 2017. Incident # 901611
Arthur Kill	6/16/2009	Rogers Surveying PLLC	Caller stated the fuel nozzle on a pump did not stop which caused an overfill on a vessel. Oil: diesel.	U.S. Coast Guard 2017. Incident # 908721
Arthur Kill	6/22/2009	Unknown	Caller is reporting a sheen on the Arthur Kill River from an unknown source. Caller states that the discharge could be up to as much as 100 gallons. Unknown oil.	U.S. Coast Guard 2017. Incident # 909349
Arthur Kill	4/1/2011	New York Terminals	While fueling a vessel, the tank burped and fuel discharged from the vent. Oil: diesel.	U.S. Coast Guard 2017. Incident # 971769
Arthur Kill	12/6/2011	Reinauer Transportation Company	Caller stated due to equipment failure there was spill of hydraulic oil from a barge.	U.S. Coast Guard 2017. Incident # 997270
Arthur Kill	2/1/2012	M/V Miss Brielle	Caller stated diesel fuel released onto the deck of the M/V Miss Brielle due to operator error. Oil: diesel	U.S. Coast Guard 2017. Incident # 1001929
Arthur Kill	2/7/2012	Vopak	***web report*** NRC notification of a continuing discharge that was first discovered on Feb 07, 2012. Notification was made to the Coast Guard but NRC report was never filed. The discharge is from oil contaminated soil from a historic discharge from 1990. The suspected responsible party has taken cleanup action since the discovery of the oil to the current date.	U.S. Coast Guard 2017. Incident # 1045674
Arthur Kill	10/29/2012	Bayway Refinery	Storm surge submerged the facility causing oil from the sewage system and retention basin to float to the surface and release to land within the facility and Morses Creek. Oil slop.	NJDEP 2017. Incident # #445779
Arthur Kill	10/29/2012	Conoco Phillips Bayway Refining Company	Oil sheen spotted in waterway. 2 blocks wide.	NJDEP 2017. Incident #446006

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Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Arthur Kill	12/15/2012	Mv Boston 3	Caller reports that a vessel ran aground and discharged oil. Caller reports that a cleanup was conducted, but was improper or incomplete. additional locations that were impacted include: Atlas Yacht Club, Elco Marina (Bayonne), Marina Harbor Yacht Club, Robbins Reef Yacht Club (Bayonne).	U.S. Coast Guard 2017. Incident # 1048825
Arthur Kill	1/10/2013	IMTT	Caller stated terminal connected a barge hose to the dock. Dock personnel told barge personnel to open the manifold which caused oil to spray out of the connection onto the dock side and water.	U.S. Coast Guard 2017. Incident # 1035298
Arthur Kill	4/13/2013	Unknown	Caller is reporting an unknown sheen in the water.	U.S. Coast Guard 2017. Incident # 1043850
Arthur Kill	4/13/2013	New York Terminals	Equipment failure: hose burst causing spill into the water at the dock. Cleanup in progress.	NJDEP 2017. Incident # 467861
Arthur Kill	4/19/2013	Unknown	The caller is reporting an unknown sheen (white resin) on the Arthur Kill river. the source of the sheen is unknown at this time. The caller stated that the sheen is moving with the current.	U.S. Coast Guard 2017. Incident # 1044472
Arthur Kill	4/19/2013	Unknown	Caller reports a white in color sheen in the waterway.	NJDEP 2017. Incident # 468654
Arthur Kill	5/8/2013	Phillips 66	Caller reported that a sump level got too high and discharged waste oil into the Arthur Kill.	U.S. Coast Guard 2017. Incident # 1046379
Arthur Kill	5/8/2013	Phillips 66 Bayway Refinery	Caller reporting sump went out on pier causing overflow.	NJDEP 2017. Incident # 471406
Arthur Kill	5/8/2013	Phillips 66	Caller reporting a sump level got too high and discharged waste oil into the Arthur Kill	NJDEP 2017. Incident # 471409
Arthur Kill	5/16/2013	Unknown	Caller stated that there is an unknown sheen from an unknown source in the Arthur Kill river.	U.S. Coast Guard 2017. Incident # 1047292
Arthur Kill	5/16/2013	Vopak	Caller stated while emptying a pit during pre-construction, produced water was dumped into the Arthur Kill river, causing a sheen.	U.S. Coast Guard 2017. Incident # 1047341
Arthur Kill	5/21/2013	Reicon	The caller is reporting a discharge of hydraulic fluid (biodegradable) into Arthur Kill. The caller stated that a hose ruptured on a crane that is working off of a barge (Hughes 776).	U.S. Coast Guard 2017. Incident # 1047830
Arthur Kill	7/4/2013	Unknown	Caller is reporting an unknown sheen that looks like black oil. Boom was put out to contain and clean up the material.	U.S. Coast Guard 2017. Incident # 1052743
Arthur Kill	8/9/2013	Unknown	Caller is reporting an unknown sheen discovered on overflight.	U.S. Coast Guard 2017. Incident # 1056569
Arthur Kill	9/9/2013	Unknown	Report of an unknown sheen in the Arthur Kill.	U.S. Coast Guard 2017. Incident # 1059628
Arthur Kill	9/20/2013	Phillips 66	Caller is reporting a release of 1 quart of heating fuel oil into the Arthur Kill when during a routine barge transfer the drain line on a loading hose released the oil when trying to clear it. Oil stayed in the area of containment placed prior to transfer.	U.S. Coast Guard 2017. Incident # 1060787
Arthur Kill	9/20/2013	Phillips 66	Caller reports spill occurred while draining bleeder valve into barge. Area boomed off and cleanup ongoing	NJDEP 2017. Incident # 492730
Arthur Kill	9/26/2013	Unknown	Caller is reporting an unknown sheen coming from an unknown source on the river.	U.S. Coast Guard 2017. Incident # 1061382
Arthur Kill	10/15/2013	Vane Brothers	Caller is reporting a spill of #2 diesel fuel from a tug boat due to unknown causes.	U.S. Coast Guard 2017. Incident # 1063018
Arthur Kill	11/9/2013	Unknown	A mystery sheen was observed in the Arthur Kill from an unknown source. The caller stated that the sheen is possibly a few hundred gallons of product with a "funny" odor.	U.S. Coast Guard 2017. Incident # 1065293
Arthur Kill	11/16/2013	Unknown	Caller is reporting a sheen from an unknown source following dredging operations in the Arthur Kill.	U.S. Coast Guard 2017. Incident # 1065946

Table K-4
Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Arthur Kill	11/16/2013	Unknown	Oil sheen from an unknown source following dredging operations in the Arthur Kill. Sheen described as 200 feet long, 50 feet wide. Containment unknown.	NJDEP 2017. Incident # 500045
Arthur Kill	12/1/2013	Motiva Enterprises, Inc.	Caller stated that there was a release of an unknown oil from the facility that entered the water.	U.S. Coast Guard 2017. Incident # 1067208
Arthur Kill	12/2/2013	Phillips 66	Caller reported that a barge discharged an unknown amount of oil into the water.	U.S. Coast Guard 2017. Incident # 1067330
Arthur Kill	12/2/2013	Phillips 66	Spill from back of barge into water body, cleanup pending	NJDEP 2017. Incident # 501949
Arthur Kill	1/11/2014	Phillips 66	Leaking pipe on the pier released oil into Arthur Kill. Contained mostly in the hard boom around the vessel.	NJDEP 2017. Incident # 505062
Arthur Kill	2/1/2014	Bayway Refinery	Unknown sized sheen discovered in number 1 dock with source unknown. Cleanup in progress.	NJDEP 2017. Incident # 506651
Arthur Kill	6/9/2014	Unknown	Diesel fuel discharged from a vessel due to an unknown source while it was being fueled. Booms were applied; cleanup is underway.	NJDEP 2017. Incident # 520044
Arthur Kill	6/13/2014	Unknown	Caller stated that there is an unknown sheen from an unknown source moving south in the Arthur Kill river.	NJDEP 2017. Incident # 520701
Arthur Kill	7/9/2014	Kirby Offshore Marine	NRC # 1088550 report of a vessel leaking from a crack the hull. fuel was transferred out of the tank and absorbent boom was deployed.	NJDEP 2017. Incident # 524057
Arthur Kill	1/10/2015	Unknown	Report of unknown sheen in Arthur Kill waterway.	NJDEP 2017. Incident # 544666
Arthur Kill	1/19/2015	Unknown	Sheen was noticed at dock 1a stern of vessel B-210. Sheen size is 15 by 15. Booms have applied and absorbents.	NJDEP 2017. Incident # 545291
Arthur Kill	1/29/2015	Unknown	Caller is reporting via third party of an unknown rainbow sheen in the water from an unknown source.	U.S. Coast Guard 2017. Incident # 1106891
Arthur Kill	2/17/2015	Unknown	A mystery sheen was observed on the Arthur Kill, from an unknown source.	U.S. Coast Guard 2017. Incident # 1108305
Arthur Kill	2/22/2015	Unknown	Unknown sheen sighting. Exact source of the sheen is unknown at this time.	U.S. Coast Guard 2017. Incident # 1108747
Arthur Kill	3/2/2015	KT Marine	Hydraulic fluid discharged from an air compressor that broke on a hydraulic line on the edge of the dock.	U.S. Coast Guard 2017. Incident # 1109442
Arthur Kill	3/11/2015	Unknown	Caller stated that there is an unknown sheen from an unknown source being observed in the Arthur Kill river.	U.S. Coast Guard 2017. Incident # 1110241
Arthur Kill	4/9/2015	Unknown	The caller is reporting an unknown sheen in the Arthur Kill, source is unknown.	U.S. Coast Guard 2017. Incident # 1113143
Arthur Kill	4/10/2015	Unknown	Caller stated he observed a sheen at the incident location, source could not be determined.	U.S. Coast Guard 2017. Incident # 1113191
Arthur Kill	5/7/2015	Weeks Marine	Caller is reporting a discharge of #2 diesel fuel from a vessel while taking on fuel there was a burp in the line.	U.S. Coast Guard 2017. Incident # 1115833
Arthur Kill	5/7/2015	Weeks Marina	Caller is reporting a discharge of #2 diesel fuel from a vessel while taking on fuel; there was a burp in the line.	NJDEP 2017. Incident # 556528
Arthur Kill	5/15/2015	M/V Mari Posa	At approximately 23:40 EDT, the M/V Mari Posa was heading north on the Arthur Kill, when he parted the stern lines on the barge "rtc103." The barge was taking on product, which resulted in a release of ethanol. The caller stated that "whatever was in the line" released into the water (possibly a couple hundred gallons).	U.S. Coast Guard 2017. Incident # 1116675
Arthur Kill	7/9/2015	Unknown	Caller is reporting an unknown sheen of unknown sources.	U.S. Coast Guard 2017. Incident # 1122249
Arthur Kill	7/9/2015	Unknown	Caller is reporting the discovery of an unknown sheen from an unknown source in the water.	U.S. Coast Guard 2017. Incident # 1122247

Table K-4
Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Arthur Kill	9/22/2015	Kiewit Weeks Massman	Potentially high-pH water over flowed into boat slip next to Arthur Kill. No cleanup is being done.	NJDEP 2017. Incident # 574148
Arthur Kill	11/3/2015	Buckeye Partners	Caller stated while taking in product, a hose between the facility dock and a vessel sprung a leak at a flange. Caller stated this caused a release of gasoline on the dock and into the Arthur Kill river.	U.S. Coast Guard 2017. Incident # 1132460
Arthur Kill	11/10/2015	Great Lakes Dredge and Dock	Caller stated that an unknown sheen from an unknown source appeared after dredging efforts in the vicinity of the Arthur Kill.	U.S. Coast Guard 2017. Incident # 1133055
Arthur Kill	12/17/2015	Unknown	Caller stated that they noticed an unknown sheen near the shoreline of their facility. After investigation, they confirmed that it is not coming from their facility.	U.S. Coast Guard 2017. Incident # 1136033
Arthur Kill	12/17/2015	Unknown	Caller stated that they noticed a 6-foot-wide silvery sheen stretching the length of the facility, passing the facility from south to north. The source is unknown.	U.S. Coast Guard 2017. Incident # 1136051
Arthur Kill	12/17/2015	Unknown	Unknown sheen noticed near shoreline of caller's facility. After investigation, they confirmed that it is not coming from the facility. Sheen size is 25 miles by 20 feet.	NJDEP 2017. Incident # 583470
Arthur Kill	12/22/2015	Unknown	Caller is reporting the discovery of an unknown sheen from an unknown source.	U.S. Coast Guard 2017. Incident # 1136402
Arthur Kill	12/29/2015	Unknown	Caller stated that there is an unknown sheen from an unknown source being observed in the Arthur Kill river. Caller also stated that the source may be run off from the parking lots at the salt docks. There are visible puddles of sheen.	U.S. Coast Guard 2017. Incident # 1136867
Arthur Kill	1/28/2016	M/V Torm-Kansas	Caller is reporting a release of an unknown material from a vessel for unknown reasons into the Arthur Kill.	U.S. Coast Guard 2017. Incident # 1139139
Arthur Kill	2/14/2016	New York Terminal	Crude oil discharged from a tram car while it was being unloaded due to an unknown cause at this time. The incident occurred on 14-Feb-2016 and the caller was notified of the incident today at 1620.	U.S. Coast Guard 2017. Incident # 1140615
Arthur Kill	2/16/2016	Kinder Morgan	Caller stated a drain line from a secondary containment had 2 gaskets that failed due to ice buildup. This caused storm water mixed with residual product to release into the Arthur Kill river.	U.S. Coast Guard 2017. Incident # 1140559
Arthur Kill	2/19/2016	Phillips 66	Caller is reporting a rainbow sheen in the waterway due to a saltwater main break that flooded the storm sewers. Cleanup is in progress.	NJDEP 2017. Incident # 589753
Arthur Kill	2/21/2016	Buckeye Partners	Caller is reporting a joint on loading arm experienced a dripping leak. This resulted in a discharge of crude oil.	U.S. Coast Guard 2017. Incident # 1141015
Arthur Kill	2/22/2016	KWM	Caller stated a line burst on a pump truck causing the release of hydraulic oil to the water.	U.S. Coast Guard 2017. Incident # 1141086
Arthur Kill	3/8/2016	Unknown	Caller stated there is an unknown sheen from an unknown source in the vicinity of the dock.	U.S. Coast Guard 2017. Incident # 1142241
Arthur Kill	3/8/2016	Unknown	Caller is reporting an unknown sheen in the Arthur Kill river from an unknown source river coming from the north.	U.S. Coast Guard 2017. Incident # 1142237
Arthur Kill	3/17/2016	Unknown	Caller stated that they discovered a 200' long intermittent rainbow sheen on the waters of the Arthur Kill river near Dock A.	U.S. Coast Guard 2017. Incident # 1143126
Arthur Kill	4/7/2016	Unknown	Diesel fuel discharged from a sounding tube on deck due to an unknown cause at this time.	U.S. Coast Guard 2017. Incident # 1144709
Arthur Kill	4/9/2016	Unknown	The caller is reporting a discharge of an oily water mixture due to secondary containment on the vessel not being capped. Caller stated the product discharged into the Arthur Kill river.	U.S. Coast Guard 2017. Incident # 1144857
Arthur Kill	5/6/2016	Unknown	Caller stated there is an unknown sheen from an unknown source in the vicinity of the dock.	U.S. Coast Guard 2017. Incident # 1147109
Arthur Kill	5/6/2016	Unknown	Observed oil sheen near pier. Unknown size. Response team en route.	NJDEP 2017. Incident # 599549
Arthur Kill	5/6/2016	Kinder Morgan	Caller stated there was a leak of an oily-water mixture into the water due to a corroded line in the storm water conveyance piping.	U.S. Coast Guard 2017. Incident # 1147083

Table K-4
Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Arthur Kill	5/7/2016	Unknown	Caller is reporting the discovery of an unknown sheen from an unknown source in the water.	U.S. Coast Guard 2017. Incident # 1147170
Arthur Kill	5/12/2016	Kinder Morgan	Caller is reporting a release of hydraulic oil into the Arthur Kill from a dockside crane due to equipment failure.	U.S. Coast Guard 2017. Incident # 1147619
Arthur Kill	7/1/2016	Buckeye Partners	The RP is reporting a discharge of gasoline due to a "small" pinhole leak on a hose connected to facility piping. RP stated the spill occurred while the fuel was being transferred from the M/V Fidias. The impact is the Arthur Kill waterway.	U.S. Coast Guard 2017. Incident # 1152171
Arthur Kill	7/19/2016	Unknown	Caller is reporting a fuel sheen on the water from an unknown source.	U.S. Coast Guard 2017. Incident # 1153778
Arthur Kill	7/23/2016	Scabra's Armory Restaurant and Banquette	Caller stated that during the night a company was steam cleaning the building and in the process cooking grease was discharged into the Arthur Kill, creating a sheen around Dock Number 9. This is due to drains in the building not being connected to a drainage system.	U.S. Coast Guard 2017. Incident # 1154181
Arthur Kill	7/28/2016	Buckeye Terminals	Caller reported that diesel fuel was discharged into the Arthur Kill river due to an overpressurization.	U.S. Coast Guard 2017. Incident # 1154698
Arthur Kill	8/30/2016	Buckeye Partners	Gasoline discharged from a flange on a ship hose that was hanging from the dock.	U.S. Coast Guard 2017. Incident # 1157651
Arthur Kill	9/2/2016	K T Marine	Caller is reporting that concrete slurry spilled into the river from a pipe.	U.S. Coast Guard 2017. Incident # 1158009
Arthur Kill	10/10/2016	Kinder Morgan	Number 2 fuel oil discharged from an inactive hose that was over-pressurized on the dock.	U.S. Coast Guard 2017. Incident # 1161257
Arthur Kill	11/28/2016	Unknown	A mystery sheen was observed on Arthur Kill from an unknown source. The sheen is sporadic and also under the dock, sheen size listed is approximate.	U.S. Coast Guard 2017. Incident # 1165068
Arthur Kill	12/21/2016	Kinder Morgan	Caller is reporting a discharge of gasoline from a failed dock hose into the Arthur Kill river.	U.S. Coast Guard 2017. Incident # 1166933
Arthur Kill	1/3/2017	M/V Genises Marine 1115	Caller stated m/v genesis marine was draining their bilge when oil contaminated storm water washed over the deck of the vessel into the Arthur Kill river.	U.S. Coast Guard 2017. Incident # 1167674
Arthur Kill	1/20/2017	Unknown	Caller stated there is an unknown sheen in the Arthur Kill.	U.S. Coast Guard 2017. Incident # 1169059
Arthur Kill	1/20/2017	Unknown	Report of an unknown sheen in the Arthur Kill.	NJDEP 2017. Incident # 628817
Arthur Kill	3/1/2017	Kinder Morgan	The RP is reporting a discharge of gasoline due to a leak on a PSE&G pipeline. RP stated that the cause of the leak is currently unknown. No reported injuries or evacuations at this time. The impact is the Arthur Kill.	U.S. Coast Guard 2017. Incident # 1172176
Arthur Kill	3/13/2017	Unknown	The RP is reporting a sheen spotted on the waters of the Arthur Kill, source is currently unknown.	U.S. Coast Guard 2017. Incident # 1173153
Arthur Kill	3/13/2017	Unknown	Caller is reporting a black and rainbow in color sheen in the waterway. Unknown size.	NJDEP 2017. Incident # 633279
Arthur Kill	4/5/2017	Unknown	Caller is reporting that as a result of their vessel being hit by a tug on 29 Mar their vessel has been taking on water slowly. While pumping water from the vessel, engine oil mixed with the water and was discharged into the Arthur Kill.	U.S. Coast Guard 2017. Incident # 1174881
Arthur Kill and Kill van Kull	9/13/2013	Clean Waters Of New York	Caller is reporting a release of possibly No. 4 oil onto Bayonne shoreline from Clean Water of New York, which accepts used waste oil causing a sheen and pockets of black oil; already has impacted the shoreline and the containment at local facilities and vessels for 5 miles of shoreline. It is moving with the tide.	U.S. Coast Guard 2017. Incident # 1060060
Arthur Kill and Morses Creek	1984	Phelps Dodge Copper Products Company	1984 Environmental Cleanup Responsibility Act inspection noted spillage from facility collection pit to river and area of oil soaked ground near tank farm which drains to Arthur Kill.	Tierra 2006

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Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Arthur Kill and Morses Creek	1975, 1984	Phelps Dodge Copper Products Company	1984 Environmental Cleanup Responsibility Act inspection noted spillage from facility collection pit to river and area of oil-soaked ground near tank farm which drains to Arthur Kill; effluent from oil/water separator discharged to storm sewer system in 1975; drain in secondary containment system in tank farm drained to storm sewer.	Tierra 2006
Arthur Kill and Rum Creek	5/1/1985, 3/1986	GATX Terminals Corp.	June 1985 NJDEP incident report noted that 50 gal. of # 2 oil spilled to the Arthur Kill as a result of a valve left open. Also noted that in March 1986 approximately 200 gal. of # 2 fuel oil spilled into the Arthur Kill from this facility as a result of a blown gasket in a 14" pipeline.	Tierra 2006
Arthur Kill, Rahway River	1993, 2005	Conoco Phillips Bayway Refining Company	Spills and discharges reported for the Bayway Refinery, including: 1993 - seeps observed south of Morses Creek from the Bayway Refinery facility. 1993 - NJDEP reported spills to land and water from the facility. 2005 - 80,000 gallons of an oil/water mixture spilled to the Rahway River from the Linden Refinery site due to a leaking valve.	Tierra 2006
Elizabeth Channel	10/31/2014	Unknown	Caller is reporting 1 container that is possibly leaking hydraulic oil.	U.S. Coast Guard 2017. Incident # 1099872
Elizabeth River	4/9/2014	City of Elizabeth	Dry weather overflow at a combined sewer going into the Elizabeth River. Repair pending.	NJDEP 2017. Incident # 512151
Elizabeth River	4/7/2016	Unknown	Electrical oil released from an electrical line due to an unknown cause at this time. Caller states the oil got into the Elizabeth River and there is a sheen that covers majority of the river and it appears to be getting outside the booms that were placed.	U.S. Coast Guard 2017. Incident # 1144716
Elizabeth River	6/15/2016	Unknown	Large discharge of black substance coming from under the boardwalk going into the Elizabeth River.	NJDEP 2017. Incident # 604583
Hackensack River	1970, 1979, 1990, 1991, 1993, 1995, 2003, 2005	PSE&G Hudson Generating Station	1970 - Ash disposal lake overflowed into Hackensack River. 1979 - Discharges of boiler feed and condensate were discharged via cracks in the basement foundation to the Hackensack River during periods of high tide. 1990 - 20 gallons of sulfuric acid discharged to the Hackensack River due to a tanker truck transfer malfunction. 1991 - Approximately 200 gallons of lube oil from a 500-gallon spill entered the Hackensack River. 1993 - 25-50 gallons of fly ash material mixed with potable water entered the Hackensack River from a spill from a vac truck. 1995 - Less than 75 gallons of lube oil entered the Hackensack due to a leak in an air compressor lube oil heat exchanger. 2003 - Approximately 15 gallons of hydraulic oil was released to the Hackensack. 2005 - Approximately 1000 gals of partially treated processed waste water discharged to surrounding soils/Hackensack River.	Tierra 2006
Hackensack River	5/1/1976	Wellen Oil	In May 1976, at least 2 million gallons of # 6 fuel oil spilled into the Hackensack River due to an equipment rupture.	Tierra 2006
Hackensack River	1985	Standard Chlorine Chemical Company	NJDEP documented that on-site wastewater lagoons overflowed to Hackensack; sampling of lagoon sediments identified contamination with numerous site-related hazardous substances as well as 2,3,7,8-TCDD.	Tierra 2006
Hackensack River	10/28/2012-11/7/2012	Jersey City MUA	Pump down discharging to river, sewage.	NJDEP 2017. Incident #445957
Hackensack River	12/9/2013	Suspected-Creamer Environmental Co	Observed 2 coffer dam failures at site allowing release into river.	NJDEP 2017. Incident # 502605
Hackensack River	6/12/2014	15 Minute Car Oil Change Business	Caller stated that a business drains crank case oil. Caller also stated that the individual never saw a company come and pick up the used oil. The business is piping the used oil into the Hackensack River immediately behind the property down low into the river bed.	U.S. Coast Guard 2017. Incident # 1085639
Hackensack River	6/8/2015	United Water	Caller stated that an unknown sheen from unknown source was discovered in the river below the dam.	U.S. Coast Guard 2017. Incident # 1119030

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Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Hackensack River	6/11/2015	PSE&G	Oil sheen 4ft by 4ft in excavation pit near Marion Dock inside of sea wall. Cleanup in progress.	NJDEP 2017. Incident # 560988
Hackensack River	1/9/2017	Unknown	Report of a tractor trailer that over turned and spilled. 5000 gallons on board amount unknown currently being transferred to another trailer.	NJDEP 2017. Incident # 627646
Hackensack River	2/3/2017	Unknown	Caller reporting a white sudsy foam on the water along the shoreline near the walkway.	NJDEP 2017. Incident # 630059
Hackensack River	4/14/2017	PSE&G Fossil	PI # 005301. Caller is reporting a historic spill was located during construction. Cleanup is pending.	NJDEP 2017. Incident # 636424
Kill Van Kull	unknown	Texaco/Texas Oil Company	30,000 - 40,000 gallons of gasoline spilled from a Texaco tanker to the Kill van Kull. (Date not known).	Tierra 2006
Kill Van Kull	10/24/69- 8/25/70, 6/4/1979	General Cable	Criminal charges filed in U.S. District Court related to the unlawful discharge of oil and grease refuse into the Kill van Kull on 5 different occasions between 10/24/69 and 8/25/70. On June 4, 1979, 1000 gallons of wire drawing solution overflowed to the storm sewer and through the wastewater monitoring station creating a discharge to the Kill van Kull that was white in appearance.	Tierra 2006
Kill Van Kull	2/13/70-11/60/70, 7/1980, 1/87, 1987, 1989, 1990	Dow Chemicals Company	Company charged criminally in U.S. District Court for 15 counts of unlawful discharges of acid refuse and alkaline refuse occurring between 2/13/70 and 11/60/70. In January 1987, 547000 gallons of caustic soda were spilled to the ground and to the Kill van Kull. In July of 1980, approximately 360,000 gallons of ethylene glycol and diethylene glycol were discharged to the soil and the Kill van Kull. In 1987, The company was cited for violation of state law by failing to place a dike around a tank, resulting in 500,000 gallons of corrosive lye spilling into the Kill van Kull. In December of 1989, a spill of raw fatty acid to surface water occurred. in 1990, approximately 47,000 gallons of zirconium oxychloride was spilled to the Kill van Kull. In December of 1991, perchloroethylene was spilled from a loading pipe at Tank 16.	Tierra 2006
Kill Van Kull	8/10/1970, 1975-1981	Texaco/Texas Oil Company	On February 4, 1972, Texaco was convicted of the unlawful discharge of gasoline refuse into Newark Bay On 8/10/70. From July 1975 to December of 1981, the United States Coast Guard cleaned up at least 9 spills from this site to the Newark Bay and Kill van Kull.	Tierra 2006
Kill Van Kull	9/22/1972	ExxonMobil	2,100 gallons of wax (Me Feed) was spilled on Pier 1 Kill van Kull Waterway.	Geraghty & Miller 1994b
Kill Van Kull	11/23/1976	ExxonMobil	147 gallons of No. 2 fuel oil were spilt to the Kill van Kull waterway or Upper New York Bay.	Geraghty & Miller 1994b
Kill Van Kull	1977, 1980	Kenrich Petrochemical Company	An accidental chemical reaction occurred causing burning chemicals to shoot into the air. A series of small explosions occurred in a mixing vat after petroleum resin flakes were added to a too hot hydrocarbon mixture.	Tierra 2006
Kill Van Kull	6/28/1978	ExxonMobil	670 gallons of waste oil spilled to the Kill van Kull waterway	Geraghty & Miller 1994b
Kill Van Kull	7/13/1978	ExxonMobil	168 gallons of diesel were spilled to the Kill van Kull waterway or Upper New York Bay.	Geraghty & Miller 1994b
Kill Van Kull	10/10/1978	ExxonMobil	630 gallons of asphalt spilt were spilled to the Kill van Kull waterway or Upper New York Bay.	Geraghty & Miller 1994b
Kill Van Kull	12/25/1978	ExxonMobil	210 gallons of bunker fuel oil were spilled to the Kill van Kull waterway or Upper New York Bay.	Geraghty & Miller 1994b
Kill Van Kull	10/30/1979	ExxonMobil	Between 1,050 to 2,100 gallons of heavy fuel oil were spilled to the Kill van Kull waterway.	Geraghty & Miller 1994b
Kill Van Kull	11/15/1979	ExxonMobil	More than 672 gallons of emulsion flux were spilled into the Kill van Kull waterway.	Geraghty & Miller 1994b
Kill Van Kull	5/1984, 11/1987	Gordon Terminal Service	May 1984, 4000 gallons of 1,1,1 trichloroethane to Kill van Kull. November 1987, a major fire on site released significant amounts of petroleum hydrocarbons, ethylene glycol, polyethylene, and green dye to the Kill van Kull.	Tierra 2006

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Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Kill Van Kull	6/4/1989	ExxonMobil	840 gallons of fuel oil were spilled on Pier 1 Kill van Kull waterway.	Geraghty & Miller 1994b
Kill Van Kull	2/9/1990	ExxonMobil	20,000 gallons of No. 2 fuel oil were spilled on Pier 7, Kill van Kull.	Geraghty & Miller 1994b
Kill Van Kull	2/28/1990, 3/1/90	ExxonMobil	Barge owned by Eklof leaked 30,000 gal. of intermediate-grade heating oil. Barge was loaded at Exxon's Bayonne storage facility. Spill of 2,400 gal. at facility during unloading of Texaco barge.	Geraghty & Miller 1994b
Kill Van Kull	6/8/1990	BT Nautilus - Oil Barge	Tanker spilled more than 260,000 gal. of No. 6 oil into the Kill van Kull. Barge was attempting to dock at Coastal Oil terminal in Bayonne.	Tierra 2006
Kill Van Kull	1/7/2006	IMTT	Reporting a release of materials into the Kill van Kull.	U.S. Coast Guard 2017. Incident # 784527
Kill Van Kull	1/15/2006	IMTT	The caller stated that a cargo transfer hole had a small pinhole leak, resulting in a spill of gasoline	U.S. Coast Guard 2017. Incident # 785236
Kill Van Kull	1/17/2006	Unknown	While transferring product from the shore to the ship material released from the hose into the water.	U.S. Coast Guard 2017. Incident # 785454
Kill Van Kull	2/13/2006	IMTT	The material released from a hose on the pier due to pressure on the hose.	U.S. Coast Guard 2017. Incident # 787942
Kill Van Kull	3/3/2006	Reinauer Transportation Company	Caller reporting a tug boat was transferring fuel on board when due to operator error material was pumped overboard.	U.S. Coast Guard 2017. Incident # 789809
Kill Van Kull	3/8/2006	IMTT	Caller is reporting a material release from a hose attached to the pier possibly due to equipment failure. Hose was discovered dripping material.	U.S. Coast Guard 2017. Incident # 790267
Kill Van Kull	3/13/2006	IMTT	Caller stated there was a release of materials from a hose that was connected to a slop tank.	U.S. Coast Guard 2017. Incident # 790694
Kill Van Kull	3/23/2006	American Petro and Transport	Reporting a release of materials into Kill van Kull from a vessel due to unknown causes. Oil: diesel.	U.S. Coast Guard 2017. Incident # 791793
Kill Van Kull	5/8/2006	Moran Towing	Reporting a release of materials into Kill van Kull from a vessel due to equipment failure.	U.S. Coast Guard 2017. Incident # 796513
Kill Van Kull	6/15/2006	IMTT	Caller is reporting a release of lubricating oil from a hose on the mobile pier due to the hose failing when bringing it back to shore from a tug.	U.S. Coast Guard 2017. Incident # 800723
Kill Van Kull	6/29/2006	IMTT	Caller stated there was a release of materials from a hose due to an operator error. This occurred before a transfer was to take place.	U.S. Coast Guard 2017. Incident # 802430
Kill Van Kull	7/11/2006	IMTT	Caller stated there was a release of materials from a hose on a dock due to equipment failure.	U.S. Coast Guard 2017. Incident # 803737
Kill Van Kull	7/31/2006	Bouchard Transportation	The caller stated that a heating unit overflowed some product from it. The material went onto the dock and into the water.	U.S. Coast Guard 2017. Incident # 806148
Kill Van Kull	8/1/2006	IMTT	Caller stated there was a release of materials from a bonnet on a 12" cargo pipeline due to equipment failure at a port facility.	U.S. Coast Guard 2017. Incident # 806327
Kill Van Kull	8/13/2006	K-Sea Transportation Corp.	Reporting a release of materials into the Kill van Kull river from a fuel tank on a vessel due to overfill of the tank.	U.S. Coast Guard 2017. Incident # 807673
Kill Van Kull	9/1/2006	IMTT	Caller is reporting a release of # 6 oil from a pipeline due to a leaky flange on a valve.	U.S. Coast Guard 2017. Incident # 809961
Kill Van Kull	9/8/2006	IMTT	Caller stated there was a spill of materials from the hose on a vacuum truck due to an equipment failure. Caller stated the materials went into the Kill van Kull.	U.S. Coast Guard 2017. Incident # 810777
Kill Van Kull	9/18/2006	Unknown	Caller is reporting a material release from a tug boat due to an overload while taking on fuel. Caller does not know what caused the overload at this time.	U.S. Coast Guard 2017. Incident # 811754
Kill Van Kull	11/6/2006	Kens Booming and Boat Service	The caller is reporting a potential release of materials into the Kill van Kull river from a vessel due to the vessel sinking.	U.S. Coast Guard 2017. Incident # 817342
Kill Van Kull	11/11/2006	IMTT	The caller is reporting a release of materials into the Kill van Kull from a hose due to equipment failure.	U.S. Coast Guard 2017. Incident # 817884
Kill Van Kull	1/22/2007	K-Sea Transportation Corp.	Caller is reporting the tug Odin was loading lube oil and oil came out of the vent and in to water. Cause of oil discharge is unknown at this time.	U.S. Coast Guard 2017. Incident # 824315

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Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Kill Van Kull	2/20/2007	IMTT	The caller stated that a sheen was found in the water which led to the finding of a leaking transfer line. The cause of the leak is unknown at this time.	U.S. Coast Guard 2017. Incident # 826965
Kill Van Kull	2/20/2007	IMTT	The caller states that a leaky flange on a loading arm caused a discharge of Number Six fuel oil onto the dock and into the Kill van Kull waterway.	U.S. Coast Guard 2017. Incident # 827029
Kill Van Kull	3/14/2007	IMTT	Caller reported the dockman Discovered Number 2 oil in the containment boom around Pier 7 Berth 4. The material spilled due to a leaking valve on an oil line near the dock.	U.S. Coast Guard 2017. Incident # 829109
Kill Van Kull	3/14/2007	Morania Oil Tankers, Inc.	Caller reported while approaching the dock, a sheen was sighted on the water near the bow. After docking material was found on the water again. The sheen dissipated. The vessel was checked for any water in the tanks and in the double bottom. No water was found in either compartment. Soon after, another sheen was found near Bulkhead Number 1 and 2. Caller believes there may be a stress crack in the rub rail (cargo).	U.S. Coast Guard 2017. Incident # 829161
Kill Van Kull	3/14/2007	Penn Maritime	Caller stated there is a spill of material from a barge in the Kill van Kull due to equipment failure on the barge.	U.S. Coast Guard 2017. Incident # 829163
Kill Van Kull	3/26/2007	IMTT	Caller stated there was a release of materials from the boom crane on the dock due to the hydraulic line leaking.	U.S. Coast Guard 2017. Incident # 830381
Kill Van Kull	4/8/2007	Allied Towing	Caller is reporting that a bucket of residual number six fuel oil was accidentally knocked over on the Allied barge Erin. It is unknown how much spilled on the deck of the barge, but approximately one pint entered the Kill van Kull waterway.	U.S. Coast Guard 2017. Incident # 831628
Kill Van Kull	4/30/2007	IMTT	Caller is reporting that they were taking on lubricating oil and the tank on the tug boat was overfilled.	U.S. Coast Guard 2017. Incident # 833854
Kill Van Kull	5/11/2007	Unknown	The caller is reporting an unknown sheen in the Kill van Kull. The sheen is coming from west of pier #8.	U.S. Coast Guard 2017. Incident # 835021
Kill Van Kull	5/31/2007	IMTT	Caller stated there was a release of materials from a slop pan due to there being pressure on the line.	U.S. Coast Guard 2017. Incident # 837037
Kill Van Kull	7/31/2007	IMTT	Caller is reporting that hydraulic oil released from a hydraulic arm on Pier One into the water due to equipment problems.	U.S. Coast Guard 2017. Incident # 843966
Kill Van Kull	7/31/2007	IMTT	Caller stated there was a spill of materials from hose on the dock that was being disconnected from the barge.	U.S. Coast Guard 2017. Incident # 843982
Kill Van Kull	8/11/2007	Moran Towing	The caller is reporting a release of materials into the Kill van Kull from a vessel due to unknown causes.	U.S. Coast Guard 2017. Incident # 845267
Kill Van Kull	8/22/2007	Unknown	Caller is reporting an unknown sheen in the Kill van Kull waterway. Caller states that the sheen is near an oil tanker, ID # Dbl22Y, and the sheen is on the hull of the vessel.	U.S. Coast Guard 2017. Incident # 846463
Kill Van Kull	9/8/2007	K-Sea Transportation Corp.	Caller is reporting a discharge of #6 fuel oil from a barge due to overflow of the tank from unknown causes.	U.S. Coast Guard 2017. Incident # 848200
Kill Van Kull	9/18/2007	IMTT	Caller stated due to equipment failure there was a spill of materials from a pier line at the facility.	U.S. Coast Guard 2017. Incident # 849190
Kill Van Kull	11/14/2007	Unknown	Caller is reporting a black sheen with beige-colored bilge spots in the Kill van Kull.	U.S. Coast Guard 2017. Incident # 854580
Kill Van Kull	12/9/2007	Greater New York	Caller is reporting a discharge of #2 fuel oil from a barge due to overfilling a tank.	U.S. Coast Guard 2017. Incident # 856692
Kill Van Kull	12/18/2007	KC Transportation	Caller stated there was a spill of materials from a barge into the water due to unknown causes.	U.S. Coast Guard 2017. Incident # 857522
Kill Van Kull	12/18/2007	K-Sea Transportation Corp.	Caller reported that the tank barge "Essex" was loading fuel oil and had a spill on the deck due to oil leaking out of the #1 cargo pump.	U.S. Coast Guard 2017. Incident # 857519
Kill Van Kull	1/25/2008	Unknown	Rafinate (a blending stock for mixing gasoline) has spilled into the Kill van Kull from a dock transfer hose.	U.S. Coast Guard 2017. Incident # 860589

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Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Kill Van Kull	2/15/2008	Interocean American Shipping Corporation	Caller is reporting a discharge of hydraulic oil due to a leaky fitting caused by vibration.	U.S. Coast Guard 2017. Incident # 862485
Kill Van Kull	4/21/2008	IMTT	Caller is reporting that there was high pressure in a hose that was laying on the pier which caused a leak of heptane.	U.S. Coast Guard 2017. Incident # 868621
Kill Van Kull	4/24/2008	Hess Corp.	Caller stated due to equipment failure on the oil separator there was a sheen discovered on the facility's outfall which goes to the Kill van Kull. Caller stated the discharge to materials to the outfall is part of the facility's normal operations.	U.S. Coast Guard 2017. Incident # 868911
Kill Van Kull	9/8/2008	Unknown	Caller stated there was a spill of materials while fueling a tug boat at the facility. Caller does not know what caused the spill of materials at this time.	U.S. Coast Guard 2017. Incident # 883128
Kill Van Kull	9/16/2008	IMTT	Caller is reporting a discharge of diesel fuel from a product hose due to pressure in the hose caused the product to spill out.	U.S. Coast Guard 2017. Incident # 884054
Kill Van Kull	11/18/2008	IMTT	Caller reported that the slop line on the pier leaked a mixture of No. 2 and No. 6 oil into the Kill van Kull River.	U.S. Coast Guard 2017. Incident # 890355
Kill Van Kull	12/24/2008	IMTT	Caller reported while passing a hose over the water from the facility to a barge heating oil released into the water. This was due to a loose blank on a hose.	U.S. Coast Guard 2017. Incident # 893272
Kill Van Kull	1/24/2009	IMTT	Caller reporting a frozen line was being freed up, when there was a spill of material into the Kill van Kull. The spill was in a contained area.	U.S. Coast Guard 2017. Incident # 895738
Kill Van Kull	1/26/2009	K-Sea Transportation Corp.	The caller stated that an overfill occurred when fueling the tug vessel "Taurus." Absorbents and booms are being used in cleanup.	U.S. Coast Guard 2017. Incident # 895840
Kill Van Kull	2/26/2009	IMTT	Number two fuel oil has spilled into the Kill van Kull from a leaking flange on a pier pipeline.	U.S. Coast Guard 2017. Incident # 898527
Kill Van Kull	4/21/2009	IMTT	Caller reported that while contractors were changing hoses, a hose discharged paramin (lube oil additive) into a spill pan which overflowed into Kill van Kull.	U.S. Coast Guard 2017. Incident # 903363
Kill Van Kull	5/28/2009	Weeks Marine	Caller reported an excavator on a barge broke a hydraulic line and spilled materials into the water.	U.S. Coast Guard 2017. Incident # 906914
Kill Van Kull	5/31/2009	IMTT	Caller is reporting a spill of number six fuel oil from a cargo hose due to operator error. Caller states the material was spilled when the hose was disconnected from the station.	U.S. Coast Guard 2017. Incident # 907143
Kill Van Kull	6/5/2009	Donjon Marine	Caller is reporting a discharge due to a fuel compartment being overflowed during the fueling of the tug.	U.S. Coast Guard 2017. Incident # 907719
Kill Van Kull	6/23/2009	Weeks Marine	Caller stated due to equipment failure there was a spill of materials from a Cat 385 excavator at a construction site. Caller stated hydraulic oil spilled into the Kill van Kull.	U.S. Coast Guard 2017. Incident # 909449
Kill Van Kull	9/14/2009	IMTT	Caller is reporting a discharge of #2 oil from an 8-inch steel pipeline due to an equipment failure (leak).	U.S. Coast Guard 2017. Incident # 917745
Kill Van Kull	9/24/2009	McAllister Towing	Caller is reporting a discharge of hydraulic oil from the vessel due to equipment failure. Hydraulic oil.	U.S. Coast Guard 2017. Incident # 918723
Kill Van Kull	10/31/2009	K-Sea Transportation Corp.	Caller stated due to operator error there was a spill of materials from a tug boat while refueling. The caller stated the tank was overflowed. This resulted in a spill of diesel fuel into the Kill van Kull and a sheen.	U.S. Coast Guard 2017. Incident # 922194
Kill Van Kull	11/16/2009	ExxonMobil	Caller is reporting that contaminated land seeped through the head of the pier causing an oil sheen in Kill van Kull.	U.S. Coast Guard 2017. Incident # 923764
Kill Van Kull	12/7/2009	Weeks Marine Inc.	Caller is reporting that a diesel pump (weighing approx. 3000 pounds) fell off of a barge into the Kill van Kull. Caller stated the pump was being transferred from one barge to another.	U.S. Coast Guard 2017. Incident # 925509
Kill Van Kull	2/24/2010	K-Sea Transportation Corp.	Caller is reporting that while in the process of transferring fuel to the tug "Volunteer" they discovered fuel discharging from the ballast tank due to equipment failure.	U.S. Coast Guard 2017. Incident # 932246
Kill Van Kull	4/28/2010	Great Lakes Dredge & Dock Company	Release of material from a vessel due to a hydraulic hose that ruptured.	U.S. Coast Guard 2017. Incident # 938502

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Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Kill Van Kull	6/3/2010	IMTT	Caller is reporting a discharge from a slop line that created a sheen on the Kill van Kull.	U.S. Coast Guard 2017. Incident # 942693
Kill Van Kull	6/18/2010	IMTT	Caller is reporting the discharge of No 2 oil from a pipeline into the Kill van Kull. Cause is unknown at this time. Cleanup is underway, but source is not secured.	U.S. Coast Guard 2017. Incident # 944580
Kill Van Kull	8/21/2010	KT Marine	Caller stated due to a leak in the steering line on a tug boat there was a spill of hydraulic fluid. Caller stated this was a chartered tugboat.	U.S. Coast Guard 2017. Incident # 951653
Kill Van Kull	8/29/2010	IMTT	Release of material from a dock crane due to a leaking hydraulic line.	U.S. Coast Guard 2017. Incident # 952407
Kill Van Kull	9/7/2010	Eletson Corp.	Caller is reporting that up to 1 barrel of fuel oil discharged from the ballast tank due to unknown causes.	U.S. Coast Guard 2017. Incident # 953256
Kill Van Kull	9/7/2010	Hess Corp.	Caller is reporting a mystery Sheen. Caller stated that the discharge is possibly from there vessel but that has not been determined at this time.	U.S. Coast Guard 2017. Incident # 953255
Kill Van Kull	9/27/2010	Gordon Terminal	Caller is reporting there was a storage tank that was loading a barge and there was a discharge of Number 6 oil near the connection area. Caller stated material went into containment and into the waterway.	U.S. Coast Guard 2017. Incident # 955273
Kill Van Kull	9/27/2010	Gordon Terminal Service	Caller stated there is a spill of materials on the water coming from a neighboring business.	U.S. Coast Guard 2017. Incident # 955275
Kill Van Kull	9/27/2010	Gordon Terminal Service	Caller stated there is a spill in the water next to their tanker barge vessel in the Kill van Kull.	U.S. Coast Guard 2017. Incident # 955279
Kill Van Kull	9/27/2010	K-Sea Transportation Corp.	Caller stated due to equipment failure there was a spill of materials from a tank barge vessel on the Kill van Kull. Caller stated there is a leaky hydraulic valve on the deck of the vessel.	U.S. Coast Guard 2017. Incident # 955242
Kill Van Kull	10/4/2010	IMTT	Caller is reporting a discharge of hydraulic oil from an actuator valve.	U.S. Coast Guard 2017. Incident # 956005
Kill Van Kull	10/23/2010	ExxonMobil	Remediation work being done on Pier 7 has caused a sheen in the water.	U.S. Coast Guard 2017. Incident # 957840
Kill Van Kull	11/16/2010	Unknown	A mystery sheen was discovered in the Kill van Kull near Brady Dock in Bayonne.	U.S. Coast Guard 2017. Incident # 959977
Kill Van Kull	11/18/2010	ExxonMobil	Caller stated due to historical seepage unknown oil/product is releasing to the surface of the Kill van Kull.	U.S. Coast Guard 2017. Incident # 960191
Kill Van Kull	11/23/2010	KC Transportation	Caller is reporting a discharge of #6 fuel oil from the barge deck due to operator error during a loading operation.	U.S. Coast Guard 2017. Incident # 960615
Kill Van Kull	12/7/2010	IMTT	Caller is reporting a discharge of #6 oil from an outfall pipe in their treatment plant due to an equipment failure (leak).	U.S. Coast Guard 2017. Incident # 961603
Kill Van Kull	12/21/2010	IMTT	Caller stated while loading a barge, the vapor hose from the pier leaked hydraulic oil onto the barge and into the water.	U.S. Coast Guard 2017. Incident # 962859
Kill Van Kull	1/7/2011	IMTT	Caller is reporting a spill hydraulic fluid due to equipment failure of a hose.	U.S. Coast Guard 2017. Incident # 963974
Kill Van Kull	3/5/2011	IMTT	Caller states that a disconnected cargo hose released diesel fuel into the water.	U.S. Coast Guard 2017. Incident # 969268
Kill Van Kull	10/27/2011	IMTT	Caller stated due to maintenance on a pipeline there was a spill of low sulphur diesel.	U.S. Coast Guard 2017. Incident # 993743
Kill Van Kull	11/1/2011	Unknown	The caller stated that the tug Beth McAllister was taking on fuel and a broken flange has caused a spill. It is unknown if any water was impacted.	U.S. Coast Guard 2017. Incident # 994262
Kill Van Kull	12/16/2011	Unknown	Caller is reporting an unknown sheen in the water. Sheen appears to be originating from ship docks.	U.S. Coast Guard 2017. Incident # 998324
Kill Van Kull	5/3/2012	IMTT	Caller stated that there was a release of an unknown amount of a mixture of heating oil and fuel oil from a pipe at the facility, the cause is unknown.	U.S. Coast Guard 2017. Incident # 1010433

Table K-4
Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Kill Van Kull	6/29/2012	Gordon Terminal Service	Caller stated due to operator error while removing a plug on a line there was a spill of residual number six oil into the Kill van Kull.	U.S. Coast Guard 2017. Incident # 1016132
Kill Van Kull	8/9/2012	Kirby Offshore Marine	Vessel was taking on fuel in forward fuel tanks. Port forward fuel tank burped and discharged oil in water.	U.S. Coast Guard 2017. Incident # 1020463
Kill Van Kull	10/2/2012	IMTT	Caller stated while changing a valve on a piping on the pier there was a spill of number six oil into the Kill van Kull.	U.S. Coast Guard 2017. Incident # 1026227
Kill Van Kull	10/5/2012	IMTT	Caller is reporting a discharge of 1 pint of diesel fuel from a hose that was being disconnected from a tug after the fueling operations. Caller Also stated that the fuel had some product in it and may still have been under pressure.	U.S. Coast Guard 2017. Incident # 1026574
Kill Van Kull	10/11/2012	IMTT	Caller stated there was a spill of gasoline due to a leaking hose from the dock.	U.S. Coast Guard 2017. Incident # 1026982
Kill Van Kull	10/30/2012	Hess Corp.	Caller is reporting a discharge of #2 oil from a 10-inch pipeline (dock line) due to a small bypass plug that failed.	U.S. Coast Guard 2017. Incident # 1028776
Kill Van Kull	10/30/2012	IMTT	Caller stated that while a USCG survey was being conducted there was a discovery of an oil pan on Pier 4 that had filled with water, allowing an unknown amount of oil to be discharged into the Kill van Kull.	U.S. Coast Guard 2017. Incident # 1028827
Kill Van Kull	12/15/2012	Unknown	Caller is reporting that there was a spill of material overnight and his vessels and docks and shoreline was oiled.	U.S. Coast Guard 2017. Incident # 1033326
Kill Van Kull	2/8/2013	Unknown	Caller stated that a 55-gallon drum is dripping into the water and has been punctured. The drum is leaving a small sheen on the surface. The deckhand was able to secure the drum against their barge so that it does not drift away. Caller stated that they placed an oil sweep around it.	U.S. Coast Guard 2017. Incident # 1037927
Kill Van Kull	2/28/2013	IMTT	A ship on Pier A had a faulty hose connection resulting in a release of gasoline to the water.	U.S. Coast Guard 2017. Incident # 1039664
Kill Van Kull	3/4/2013	IMTT	Caller stated that there was a slop line that let go under the pier and discharged an unknown amount of unknown oil into the water. Caller stated that the line is a mix of different products but did not know what products.	U.S. Coast Guard 2017. Incident # 1040062
Kill Van Kull	3/15/2013	Unknown	Caller stated that a barge at Pier 6 had a compartment that overflowed material into the water due to unknown causes.	U.S. Coast Guard 2017. Incident # 1041106
Kill Van Kull	4/10/2013	IMTT	Caller is reporting a discharge of slop oil from a leaking 4" pipeline.	U.S. Coast Guard 2017. Incident # 1043567
Kill Van Kull	4/10/2013	IT Fuel Storage Facility	Caller is reporting a discharge of slop oil from a leaking 4" pipeline.	U.S. Coast Guard 2017. Incident # 1043567
Kill Van Kull	4/11/2013	Unknown	Caller is reporting an unknown sheen from an unknown source on the Kill van Kull. The sheen is 600 yards across and 50-100 feet wide.	U.S. Coast Guard 2017. Incident # 1043612
Kill Van Kull	4/11/2013	Unknown	Caller is reporting an unknown sheen from an unknown source. in the Kill van Kull. Sheen size is 600 yards by 50 to 100 feet wide.	NJDEP 2017. Incident # 467604
Kill Van Kull	5/6/2013	Unknown	The caller is reporting a sheen discovered on Kill van Kull river. The caller stated that source is unknown at this time.	U.S. Coast Guard 2017. Incident # 1046168
Kill Van Kull	5/6/2013	Unknown	Reporting unknown sheen 500 ft x 100 ft in size.	NJDEP 2017. Incident # 471085
Kill Van Kull	6/5/2013	Barge Double Skin 59	Spill due to broken pipe from the cargo heating system onboard the barge Double Skin 59, causing release on board and into water. Miller Environmental en route for cleanup.	NJDEP 2017. Incident # 476530
Kill Van Kull	7/1/2013	Unknown	Caller stated an unknown sheen was discovered on the Kill van Kull.	U.S. Coast Guard 2017. Incident # 1052322
Kill Van Kull	7/1/2013	Unknown	An unknown sheen was discovered in the Kill van Kull and reported to the NRC.	NJDEP 2017. Incident # 480978

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Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Kill Van Kull	7/22/2013	IMTT-Bayonne	Caller stated that a #6 oil line had a leak, allowing approximately .5 pints of #6 diesel oil into the Kill van Kull.	U.S. Coast Guard 2017. Incident # 1054640
Kill Van Kull	8/3/2013	IMTT-Bayonne	Report that unk oil sprayed unk quantity from a broken flange on surface of Pier 6. Release is secured. Unk if vessel. Cleanup is in process.	NJDEP 2017. Incident # 485166
Kill Van Kull	8/14/2013	IMTT-Bayonne	Caller is reporting a discharge of biodiesel from a leaking hose.	U.S. Coast Guard 2017. Incident # 1057097
Kill Van Kull	8/14/2013	IMTT	Barge was being filled and one of the compartments overflowed into the Kill van Kull. Cleanup in progress.	NJDEP 2017. Incident # 487085
Kill Van Kull	8/19/2013	Unknown	Caller stated that they discovered an unknown sheen from an unknown source in the Kill van Kull.	U.S. Coast Guard 2017. Incident # 1057587
Kill Van Kull	8/19/2013	Unknown	Caller large oil sheen in the water	NJDEP 2017. Incident # 487791
Kill Van Kull	8/28/2013	Kirby Offshore Marine	Caller stated that there was a discharge of 42 gallons of number 6 fuel from a barge that had a gasket that blew out on the seal, some of the oil went into the water.	U.S. Coast Guard 2017. Incident # 1058532
Kill Van Kull	8/28/2013	Kirby	Caller is reporting while loading a barge the gasket on the barge broke causing a discharge of #6 fuel oil.	U.S. Coast Guard 2017. Incident # 1058530
Kill Van Kull	8/28/2013	Kirby Off-Shore Marine	Caller reporting oil spill from a barge due to failure on cargo pump. Remediation is currently underway on cargo pump. All the oil has already been boomed off, but is still in water.	NJDEP 2017. Incident # 489288
Kill Van Kull	8/29/2013	Unknown	Caller is reporting an unknown sheen.	U.S. Coast Guard 2017. Incident # 1058566
Kill Van Kull	9/13/2013	Unknown	Caller is reporting an unknown sheen from an unknown source. The sheen is visible as far as can be seen and it is rainbow in color and has some areas of product that looks like dirty oil. The material is fairly heavy at side berth at a natural collection point.	U.S. Coast Guard 2017. Incident # 1060047
Kill Van Kull	9/13/2013	Unknown	Caller is reporting an unknown sheen from an unknown source that is impacting a barge and boom at the location. The materials came into the facility with the tide and it appears to be a heavy #6 oil. The sheen size was described as large.	U.S. Coast Guard 2017. Incident # 1060053
Kill Van Kull	10/6/2013	Unknown	Caller reporting an unknown sheen, from unknown source at Pier 7 (facility IMTT).	U.S. Coast Guard 2017. Incident # 1062210
Kill Van Kull	10/6/2013	Unknown Source	90 ft long by 5ft wide oil sheen in the water.	NJDEP 2017. Incident # 495288
Kill Van Kull	11/26/2013	IMTT-Bayonne	Caller stated that their hydraulic crane on the pier had a fuel drops come out of the seal and discharged into the water.	U.S. Coast Guard 2017. Incident # 1066886
Kill Van Kull	12/2/2013	Reinauer Transportation	Caller is reporting a diesel fuel spill from a stripping pipe.	U.S. Coast Guard 2017. Incident # 1067329
Kill Van Kull	12/29/2013	Unknown	Caller is reporting an unknown sheen from an unknown source on the Kill van Kull. the sheen is stated to be spotty without a measurable length and width.	U.S. Coast Guard 2017. Incident # 1069637
Kill Van Kull	12/29/2013	Unknown	Unknown sheen from an unknown source in the Kill van Kull. The sheen is stated to be spotty without measurable length and width. Clean up pending	NJDEP 2017. Incident # 504030
Kill Van Kull	1/8/2014	IMTT	Barge was being filled and one of the compartments overflowed into the Kill van Kull. Cleanup in progress.	NJDEP 2017. Incident # 504675
Kill Van Kull	1/16/2014	IMTT-Bayonne	Spill caused by an overflow on containment panel drain hose.	NJDEP 2017. Incident # 545215
Kill Van Kull	2/16/2014	IMTT	Spill occurred during discharge of vessel due to leaking connection, cleanup in progress.	NJDEP 2017. Incident # 507546
Kill Van Kull	2/27/2014	IMTT	Caller is reporting a release due to a leaking 4" line. Clean up is in progress.	NJDEP 2017. Incident # 508416

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Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Kill Van Kull	6/2/2014	IMTT	Fire department calling in spill of gas at least 4000 gals. 100 barrels. R/p filling tank caused overflow came out vent and caused spill in area of tank field.	NJDEP 2017. Incident # 519130
Kill Van Kull	6/17/2014	Exxon Mobile	Calling to report spill from remediation system. Underground line leaked. There is an existing case number for area of concern. PI #005822. Cleanup pending.	NJDEP 2017. Incident # 521161
Kill Van Kull	7/31/2014	Unknown	Reporting an unknown sheen in the Kill van Kull bay. Source is unknown.	NJDEP 2017. Incident # 526928
Kill Van Kull	9/2/2014	Sterling Equipment	Caller reporting a spill of diesel fuel into the Kill van Kull river from RP's tugboat.	NJDEP 2017. Incident # 531056
Kill Van Kull	9/25/2014	Vane Brothers	Caller is reporting that while loading a compartment in the barge. Loader failed to stop at a certain level and caused an overflow of oil # 6 to spill into the river. Spill is boomed in. Vessel is the DS 27.	NJDEP 2017. Incident # 534197
Kill Van Kull	11/15/2014	Imtt-Bayonne	Reporting a leak from a storage tank. Has leaked 1000 barrels contained to facility. Non-emergent. Moving product to another tank. Cleanup in progress.	NJDEP 2017. Incident # 540217
Kill Van Kull	11/22/2014	Unknown	A mystery silvery colored sheen, 2 meters long, was observed on the water from unknown source	NJDEP 2017. Incident # 540876
Kill Van Kull	1/15/2015	IMTT	Hose leaked causing spill into Kill van Kull.	NJDEP 2017. Incident # 545043
Kill Van Kull	1/22/2015	IMTT-Bayonne	Caller stated that a tug over flowed their compartment and released marine diesel fuel into the Kill van Kull river.	U.S. Coast Guard 2017. Incident # 1106299
Kill Van Kull	1/22/2015	Emily Ann	Spill from overflow of vessel during refueling. Cleanup in progress.	NJDEP 2017. Incident # 545622
Kill Van Kull	1/22/2015	Donjon Marine	Spill from overflow of refueling of vessel caused spill. Clean up complete. Ref case # 15-01-22-0910-22.	NJDEP 2017. Incident # 545631
Kill Van Kull	2/26/2015	IMTT	Containment pan of manifold over flowed causing spill into the water. Booms are in place along with absorbents.	NJDEP 2017. Incident # 548379
Kill Van Kull	3/9/2015	IMTT-Bayonne	Bio diesel discharged from a hose leak on the pier.	U.S. Coast Guard 2017. Incident # 1110045
Kill Van Kull	3/9/2015	IMTT	Hose on pier leaked diesel fuel in the Kill van Kull. Cleanup in progress.	NJDEP 2017. Incident # 549196
Kill Van Kull	4/16/2015	Kirby Offshore Marine	Caller is reporting a release of diesel fuel into the Kill van Kull from a towing vessel due to a transfer hose burping while disconnecting.	U.S. Coast Guard 2017. Incident # 1113820
Kill Van Kull	4/21/2015	IMTT-Bayonne	Caller is reporting a discharge of methyl ethyl ketone from a loose flange on a line connected to a ship.	U.S. Coast Guard 2017. Incident # 1114313
Kill Van Kull	4/21/2015	IMTT-Bayonne	Caller is reporting a discharge of methyl ethyl ketone from a loose flange on a line connected to a ship.	NJDEP 2017. Incident # 554342
Kill Van Kull	5/19/2015	Vane Brothers	Caller stated while transferring diesel fuel to the day tank onboard the tug Red Hook, diesel fuel was noticed coming out of the vent of the vessel.	U.S. Coast Guard 2017. Incident # 1116999
Kill Van Kull	6/15/2015	IMTT-Bayonne	Caller stated due to a potential rain overflow of a containment barrel at the facility there was a spill of mixture of gasoline and two oil into the water (Kill van Kull).	U.S. Coast Guard 2017. Incident # 1119769
Kill Van Kull	6/15/2015	IMTT-Bayonne	Heavy rainwater caused overflow spills from containment area. Clean up in progress.	NJDEP 2017. Incident # 561148
Kill Van Kull	6/21/2015	IMTT-Bayonne	Caller stated while discharging coal tar from the pier to a vessel, a leak occurred in a pipe on the pier and discharged material into the water.	U.S. Coast Guard 2017. Incident # 1120510
Kill Van Kull	6/25/2015	IMTT-Bayonne	Caller is reporting a release of fuel oil due to a flange leak. Still under investigation.	U.S. Coast Guard 2017. Incident # 1120871
Kill Van Kull	6/25/2015	IMTT-Bayonne	Spill due to flange leak. Repair crew en route. Booming in progress.	NJDEP 2017. Incident # 562740
Kill Van Kull	7/7/2015	IMTT	Leak in line caused spill from bulk storage container to go into the Kill van Kull. Clean up in progress. Booms have been applied.	NJDEP 2017. Incident # 564257

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Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Kill Van Kull	7/30/2015	Unknown	Caller is reporting an unknown sheen from an unknown source in the Kill van Kull coming from the east.	U.S. Coast Guard 2017. Incident # 1124293
Kill Van Kull	7/30/2015	Unknown	Caller reports an unknown sheen from an unknown source in the Kill van Kull coming from the east.	NJDEP 2017. Incident # 567139
Kill Van Kull	8/1/2015	Vane Brothers	At 21:45 EDT, the barge "ds501" was pulling into the pier; which was missed. the vessel then struck another pier (A), damaging it. This resulted in all the lines breaking, while the c/t Isola Bianca was offloading. An unknown amount of six oil has discharged into Kill van Kull, and possibly #2 oil. No injuries reported. The RP provided limited information.	U.S. Coast Guard 2017. Incident # 1124516
Kill Van Kull	8/1/2015	Vane Brothers - Barge DS 501	Report of a continuous spill of six oil due to barge DS501 hitting a pier, where ship 'Isola Bianca' was docked and discharging. The lines disconnected from the ship when the pier was struck. Team out now trying to contain the spill. Caller states a couple of 100 barrels - 24 gal. per barrel.	NJDEP 2017. Incident # 567425
Kill Van Kull	9/6/2015	IMTT-Bayonne	Caller stated that a vac truck pipe connection leaked less than 1 pint of No. 2 oil into the Kill van Kull. Caller stated the connection is from the facility to the truck.	U.S. Coast Guard 2017. Incident # 1127724
Kill Van Kull	10/6/2015	IMTT-Bayonne	Caller stated a fire pump malfunctioned released motor oil into the nearby river.	U.S. Coast Guard 2017. Incident # 1130206
Kill Van Kull	10/6/2015	IMTT	Fire pump malfunctioned causing spill of oil into the Kill van Kull. Cleanup in progress.	NJDEP 2017. Incident # 575738
Kill Van Kull	11/11/2015	IMTT	A storage tank containing caustic soda released product with in a concrete containment area at the facility. Cleanup pending.	NJDEP 2017. Incident # 579755
Kill Van Kull	12/24/2015	Unknown	Caller is reporting an unknown sheen from an unknown source.	U.S. Coast Guard 2017. Incident # 1136598
Kill Van Kull	12/24/2015	Unknown	NRC fax # 1136598. report of a 10' x 20' unknown sheen from an unknown source.	NJDEP 2017. Incident # 584110
Kill Van Kull	12/29/2015	Unknown	Caller stated there is an unknown sheen from an unknown source in the vicinity of the pier.	U.S. Coast Guard 2017. Incident # 1136847
Kill Van Kull	12/29/2015	Unknown	Caller is reporting an unknown sheen in the Kill van Kull river from an unknown source. This is in the vicinity of their piers.	U.S. Coast Guard 2017. Incident # 1136851
Kill Van Kull	12/29/2015	Unknown	There is an unknown sheen from an unknown source in the vicinity of the pier.	NJDEP 2017. Incident # 584305
Kill Van Kull	1/19/2016	Unknown	Caller is reporting an unknown sheen from an unknown source.	U.S. Coast Guard 2017. Incident # 1138445
Kill Van Kull	2/4/2016	EQ	Caller stated that the boom boat was at Pier 4 East when the vessel blew an oil line causing the discharge of drive oil into the water. The discharge caused a sheen on the waters of the Kill van Kull channel.	U.S. Coast Guard 2017. Incident # 1139773
Kill Van Kull	2/4/2016	E Q Corp	Boom boat ruptured oil hose at site. Sheen observed 100 ft x 2 ft. Cleanup in progress.	NJDEP 2017. Incident # 588098
Kill Van Kull	3/11/2016	Unknown	Caller is reporting an unknown sheen in the Kill van Kull and Hudson River from an unknown source.	U.S. Coast Guard 2017. Incident # 1142518
Kill Van Kull	3/11/2016	Unknown	40-foot sheen in area of IMTT. Not coming from facility. Believed to have come in with the tide. Sweeps are being put in place.	NJDEP 2017. Incident # 592443
Kill Van Kull	4/4/2016	IMTT Fuel Storage Facility	Hydraulic oil discharged from a capstan (part of the loading arm) on their pier due to an unknown cause at this time.	U.S. Coast Guard 2017. Incident # 1144434
Kill Van Kull	4/4/2016	IMTT	Material leaked from capstan on Pier A. Repair and clean up in progress. Sweeps in place.	NJDEP 2017. Incident # 594738
Kill Van Kull	4/7/2016	T/V Joan Turecamo- Moran Towing	The caller is reporting a discharge of diesel fuel due to the vessel's captain missing a connection and overflowing the vessel's compartment. The impact is Kill van Kull.	U.S. Coast Guard 2017. Incident # 1144710

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Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Kill Van Kull	4/7/2016	IMTT	Diesel fuel spill from a 3-inch hose contained by boom boat clean up in progress. two sheens 10x50 and 20x100. Bayonne Fire Dept. en route	NJDEP 2017. Incident # 595333
Kill Van Kull	4/21/2016	Unknown	Unknown sheen sighting. Exact source of the sheen is unknown at this time.	U.S. Coast Guard 2017. Incident # 1145828
Kill Van Kull	4/23/2016	Unknown	Caller is reporting the discovery of an unknown sheen from an unknown source in the water.	U.S. Coast Guard 2017. Incident # 1146013
Kill Van Kull	4/23/2016	Unknown	Caller is reporting the discovery of an unknown sheen from unknown source.	NJDEP 2017. Incident # 597684
Kill Van Kull	5/30/2016	Metropolitan Marine Transportation	Caller is reporting during an internal tank transfer on a tug vessel, an overflow occurred. This resulted in a discharge of diesel.	U.S. Coast Guard 2017. Incident # 1149157
Kill Van Kull	6/4/2016	Unknown	Caller is reporting an unknown sheen in the Kill van Kull from an unknown source.	U.S. Coast Guard 2017. Incident # 1149728
Kill Van Kull	6/4/2016	Unknown	NRC # 1149728 reported an unknown oil sheen from an unknown source.	NJDEP 2017. Incident # 603231
Kill Van Kull	6/5/2016	Unknown	Caller is reporting an unknown sheen from an unknown source in the vicinity of their location.	U.S. Coast Guard 2017. Incident # 1149742
Kill Van Kull	6/5/2016	Unknown	Sheen in the water.	NJDEP 2017. Incident # 603236
Kill Van Kull	6/16/2016	Kirby Offshore Marine	Caller stated while final testing a hydraulic spill occurred from the rudder due to equipment failure.	U.S. Coast Guard 2017. Incident # 1150838
Kill Van Kull	7/15/2016	IMTT	Caller reported that a swivel arm on discharge hose at pier 6 north had an equipment failure and leaked an unknown amount of product with 0.5 pints of alkylate into the water.	U.S. Coast Guard 2017. Incident # 1153431
Kill Van Kull	8/23/2016	Unknown	Caller is reporting an unknown sheen from an unknown source in vicinity of facility.	U.S. Coast Guard 2017. Incident # 1157061
Kill Van Kull	8/23/2016	IMTT	Caller reported a gas hose was not connected and pressure caused some gasoline to spill into the water.	U.S. Coast Guard 2017. Incident # 1157142
Kill Van Kull	8/30/2016	Buckeye	An unknown oil discharged from a hose on the dock due to a flange leak.	U.S. Coast Guard 2017. Incident # 1157650
Kill Van Kull	9/12/2016	Unknown	Caller stated an unknown sheen was discovered in the Kill van Kull.	U.S. Coast Guard 2017. Incident # 1158838
Kill Van Kull	9/12/2016	Unknown	Caller reported a diesel fuel sheen around the tug Joan Moran. Unknown cause. Booms in place. Cleanup in progress.	NJDEP 2017. Incident # 615901
Kill Van Kull	9/21/2016	Reinauer Transportation Company	Caller is reporting a spill of fuel from the tank vent of a tug vessel onto the deck and into the water.	U.S. Coast Guard 2017. Incident # 1159626
Kill Van Kull	9/21/2016	Reinauer Transportation Company	Caller reporting a spill of fuel from the tank vent of a tug vessel onto the deck and into the water.	NJDEP 2017. Incident # 616908
Kill Van Kull	10/17/2016	Unknown	Caller stated that they discovered an unknown sheen from an unknown source come in with the tide on the waters of Kill van Kull.	U.S. Coast Guard 2017. Incident # 1161758
Kill Van Kull	10/17/2016	Unknown	Unknown sheen noticed at locations pier 7 cause and source is unknown. Booms applied around Pier 7 and absorbent sweeps are being deployed.	NJDEP 2017. Incident # 619665
Kill Van Kull	10/21/2016	Weeks Marine	Caller is reporting while fueling a vessel, a discharge of diesel occurred. incident investigation and cleanup are underway.	U.S. Coast Guard 2017. Incident # 1162151
Kill Van Kull	10/24/2016	Unknown	Caller stated that they discovered an unknown sheen from an unknown source on the waters of Kill van Kull that appear to be coming in with the tide.	U.S. Coast Guard 2017. Incident # 1162355
Kill Van Kull	10/24/2016	Unknown	Report of an unknown sheen on the water that appears to be coming in with the tide. unknown size. Cleanup unknown.	NJDEP 2017. Incident # 620418
Kill Van Kull	11/28/2016	Unknown	The RP is reporting a sheen on the waters of the Kill van Kull; source is currently unknown.	U.S. Coast Guard 2017. Incident # 1165070

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Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Kill Van Kull	11/28/2016	Unknown	Vessel Histria Gemma was unloading 6 oil and a sheen was noticed in the water next to the ship and outside of the boom. Cleanup in progress.	NJDEP 2017. Incident # 624133
Kill Van Kull	11/30/2016	Unknown	Caller is reporting via third party of a sheen in the water. This was discovered during loading operation by a barge.	U.S. Coast Guard 2017. Incident # 1165232
Kill Van Kull	12/9/2016	Unknown	Caller is reporting a release of ethyl acetate into the Kill van Kull from a vessel (M/V Sypress) that was offloading to shore when a third-party vessel (MSC Adelaide) created a wake in the channel which caused the disconnection of transfer hoses.	U.S. Coast Guard 2017. Incident # 1165969
Kill Van Kull	12/9/2016	Unknown	Caller is reporting a release of ethyl acrylate into the Kill van Kull from a vessel (M/V Sypress) that was offloading to shore when a 3rd party vessel (MSC Adelaide) created a wake in the channel which caused the disconnection of transfer hoses. The material involved has been corrected to ethyl acrylate.	U.S. Coast Guard 2017. Incident # 1165981
Kill Van Kull	12/9/2016	Unknown	Vessel MSC Adelaide caused vessel at pier to pull away causing release from broken lines and hoses. Cleanup in progress.	NJDEP 2017. Incident # 625291
Kill Van Kull	12/13/2016	Unknown	Sheen noticed in the water no size avail.	NJDEP 2017. Incident # 625691
Kill Van Kull	12/24/2016	Unknown	Calling to report small oil sheen in the NY Harbor. Unknown source.	NJDEP 2017. Incident # 626744
Kill Van Kull	1/4/2017	IMTT	Caller reporting sheen in water. No information as to size or color available.	NJDEP 2017. Incident # 627364
Kill Van Kull	2/5/2017	IMTT-Bayonne	Cargo hose dripped b99 (biodiesel) into waterway. No visible trace in water.	NJDEP 2017. Incident # 630181
Kill Van Kull	2/12/2017	Moran Towing - M/V Brendan Turecamo	The RP is reporting a discharge of marine diesel due to a burp during fuel transfer. RP stated that while the engineer was fueling the day tanks aboard the M/V Brendan Turecamo there was a burp. The impact is the Kill van Kull.	U.S. Coast Guard 2017. Incident # 1170845
Kill Van Kull	2/16/2017	Unknown	Caller is reporting an unknown sheen in the Kill van Kull from an unknown source in the vicinity of the Bayonne Bridge.	U.S. Coast Guard 2017. Incident # 1171182
Kill Van Kull	2/23/2017	Unknown	Caller stated that they discovered an unknown sheen from an unknown source on the waters of Kill van Kull. Caller stated the facility grounds was check as a possible source; however, all possible discharge points on the facility are secure.	U.S. Coast Guard 2017. Incident # 1171742
Kill Van Kull	3/9/2017	IMTT-Bayonne	Caller is reporting that a line on a vapor boom burst resulting in the discharge of hydraulic oil into the Kill van Kull.	U.S. Coast Guard 2017. Incident # 1172866
Kill Van Kull	3/21/2017	Unknown	Caller reported unknown sheen from unknown source on the water next to Pier 6.	U.S. Coast Guard 2017. Incident # 1173786
Kill Van Kull	4/13/2017	Unknown	Caller is reporting while offloading a ship, a leak in a hose was discovered. Leak resulted in a release of capric acid.	U.S. Coast Guard 2017. Incident # 1175664
Kill Van Kull	4/13/2017	Unknown	Report of a spill due to a leak in a hose while offloading. clean up underway. Release contained.	NJDEP 2017. Incident # 636259
Morses Creek	5/2/2014	Phillips 66	Caller reported a small hole in the storm water diversion tank return line.	U.S. Coast Guard 2017. Incident # 1081568
Morses Creek	9/9/2015	Phillips 66	Caller is reporting a release of slop oil due to a pipe leak within the facility.	U.S. Coast Guard 2017. Incident # 1127950
Morses Creek	2/19/2016	Phillips 66	Caller is reporting the discovery of sheening of an unknown oil in Morses Creek due to a water main break from the process sewer.	U.S. Coast Guard 2017. Incident # 1140838
Morses Creek	6/29/2016	Phillips 66	Caller stated a light oil sheen was discovered beyond the dam of their facility from an unknown source.	U.S. Coast Guard 2017. Incident # 1152049
Morses Creek	6/29/2016	Phillips 66	Report spill of unknown size sheen coming from unknown source. Crews are out investigating area. Sheen has past first dam area, towards Arthur Kill.	NJDEP 2017. Incident # 606548
Newark Bay	1984	BP Oil	U.S. Coast Guard reported that 44,000 gal of bunker oil spilled due to a tank rupture.	Tierra 2006

Table K-4
Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Newark Bay	1/27/85, 12/2/85, 6/11/86, 9/5/86, 5/28/87, 3/22/90, 6/21/90, 10/17/90, 11/15/90, 3/15/92, 1/18/93, 9/21/95, 10/19/95.	Baker Castor Oil	Caustic cleaning oil / castor oil spill / caustic soda / soap spills of various sizes into Newark Bay.	Tierra 2006
Newark Bay	5/7/2005	Port Newark Container Terminal	Reporting a material release from the hydraulic system of a "spreader" on the shoreside entry crane due to equipment failure. Hydraulic oil.	U.S. Coast Guard 2017. Incident # 758025
Newark Bay	6/11/2005	Maher Terminals	Diesel fuel spilled onto the pavement and into the Elizabeth Channel from an overfilled crane. Oil: diesel.	U.S. Coast Guard 2017. Incident # 761793
Newark Bay	7/15/2005	M/V Goodsky	While performing cargo operations it was discovered that Cargo Hold #4 had oil that leaked from an unknown source and dripped into the water. Oil, fuel: No. 2-D.	U.S. Coast Guard 2017. Incident # 765628
Newark Bay	7/27/2005	Unknown	Time unknown / caller passing on third hand party information of a HAZMAT spill in the Port of Newark. Unknown oil.	U.S. Coast Guard 2017. Incident # 766986
Newark Bay	7/31/2005	Unknown	Reporting a material release from a vessel due to unknown causes. Number 4 oil.	U.S. Coast Guard 2017. Incident # 767474
Newark Bay	10/2/2005	Mediterranean Shipping Company	The material released from the vessel due to unknown causes at this time. Oil, fuel: No. 2-D.	U.S. Coast Guard 2017. Incident # 774742
Newark Bay	6/8/2006	Unknown	Caller is reporting a material release discovery from a container vessel due to unknown causes. Caller states the vessel is sitting at Berth 60 in Port Elizabeth and continues to release an unknown oil into the water. Unknown oil.	U.S. Coast Guard 2017. Incident # 800012
Newark Bay	6/20/2006	Unknown	Caller stated an unknown sheen was discovered during an overflight. Unknown oil.	U.S. Coast Guard 2017. Incident # 801367
Newark Bay	9/5/2006	M/V Libra Corcovado	Caller states that an unknown sheen is seen around a foreign motor vessel in the Newark Bay, at Berth 51. Unknown oil.	U.S. Coast Guard 2017. Incident # 810298
Newark Bay	11/8/2006	Unknown	Caller stated an unknown sheen was discovered at Port Elizabeth from unknown sources next to their vessel. Unknown oil.	U.S. Coast Guard 2017. Incident # 817521
Newark Bay	12/22/2006	Unknown	The caller is reporting a green substance that is in the water. Unknown oil.	U.S. Coast Guard 2017. Incident # 821833
Newark Bay	1/24/2007	Unknown	The caller is reporting that the water in the Port of Newark/Newark Bay is neon green in color. The source of the material is unknown. Unknown material.	U.S. Coast Guard 2017. Incident # 824550
Newark Bay	3/10/2007	M/V Hoegh Berlin	Caller reported a sheen was found near the forward section of the vessel. There is a bow thruster in that area and could possibly be the source of the spill. There are also contractors working in the area. The source is unknown at the time of the call. Caller stated that the crew is investigating to see if they are the source. At the time of the call, the caller had limited information about the location of the incident.	U.S. Coast Guard 2017. Incident # 828753
Newark Bay	3/19/2007	Unknown	Caller stated there was an unknown sheen discovered in the Port of Elizabeth Bay near their vessel, a car carrier, the Hoegh Asia while the vessel was docked. Unknown oil.	U.S. Coast Guard 2017. Incident # 829610
Newark Bay	5/1/2007	Donjon Marine	Caller stated there was a release of materials from a salvaged vessel on a derrick barge due to the vessel shifting. Oil: diesel.	U.S. Coast Guard 2017. Incident # 833981
Newark Bay	5/24/2007	Donjon Marine	Caller reported the starboard pitch system had a hydraulic leak, which resulted in a discharge of material into the water. Hydraulic oil.	U.S. Coast Guard 2017. Incident # 836473
Newark Bay	6/13/2007	Donjon Marine	The caller states that the fuel tank on a tug boat overflowed discharging materials into Port Newark Channel. The caller is unsure if the discharge occurred as a result of operator or equipment failure. Oil: diesel.	U.S. Coast Guard 2017. Incident # 838465
Newark Bay	6/27/2007	Allied Aviation	Caller is reporting a release of jet fuel from a tanker truck due to equipment failure (the 4-inch sensor line broke during a refueling process).	U.S. Coast Guard 2017. Incident # 840085
Newark Bay	7/25/2007	McAllister Towing	Caller is reporting a release of hydraulic oil from a release valve on a vessel due to a faulty valve. The release went onto the deck and the water. Hydraulic oil.	U.S. Coast Guard 2017. Incident # 843324

Table K-4
Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Newark Bay	9/6/2007	Moran Towing	Caller stated that he noticed a leak from his steering hose. As a result, material released into the water. It is unknown what caused the leak. Hydraulic oil.	U.S. Coast Guard 2017. Incident # 847992
Newark Bay	9/11/2007	Champion Pioneer	Caller is reporting a discharge of an unknown oil from the ship the Champion Pioneer due to unknown causes. The release went into the Newark Channel. Unknown oil.	U.S. Coast Guard 2017. Incident # 848539
Newark Bay	11/5/2007	Hoegh Autoliners	Caller is reporting that a vessel (car carrier) had a discharge of hydraulic oil from a hydraulic line on a stern ramp due to unknown causes. Hydraulic oil.	U.S. Coast Guard 2017. Incident # 853602
Newark Bay	12/30/2007	Unknown	Caller is reporting a large unknown sheen from an unknown source. Unknown oil.	U.S. Coast Guard 2017. Incident # 858444
Newark Bay	12/30/2007	Unknown	Caller is reporting an unknown sheen on Newark Bay in Port Elizabeth, NJ. Sheen was discovered when vessel was moving from one berth to another. Unable to determine the source. Unknown oil.	U.S. Coast Guard 2017. Incident # 858436
Newark Bay	1/10/2008	Unknown	Caller stated a dump truck and a commercial truck had an accident at Port Newark. This incident resulted in the dump truck spilling materials onto the pier. Oil: diesel.	U.S. Coast Guard 2017. Incident # 859277
Newark Bay	1/24/2008	Atlantic Ship	Caller is reporting that the ship Orange Sun Vessel was backing out of the dock and backed into the dredge.	U.S. Coast Guard 2017. Incident # 860541
Newark Bay	2/26/2008	Unknown	Caller is reporting an unknown sheen on the surface of Newark Bay in Bayonne, NJ.	U.S. Coast Guard 2017. Incident # 863353
Newark Bay	3/20/2008	Unknown	Caller stated there is a spill of material from the gas tank of a tractor trailer truck at the Newark Airport. The cause of the spill is unknown at this time. The materials spilled onto the ground and then into the Peripheral Ditch which leads to Newark Bay. Oil: diesel.	U.S. Coast Guard 2017. Incident # 865524
Newark Bay	3/31/2008	APM Terminals	Caller stated there was a release of diesel oil from a ship to shore gantry crane due to unknown causes. They believe that an alarm failed.	U.S. Coast Guard 2017. Incident # 866586
Newark Bay	4/2/2008	Dhonousfa	Caller is reporting a release of ballast water from a vessel due to an overboard discharge which happened by accident. The release went into the Newark Channel and Gilligan Street.	U.S. Coast Guard 2017. Incident # 866804
Newark Bay	5/15/2008	Port Newark Container Terminal	Caller reported while discharging cargo from a vessel a HAZMAT tank container started leaking from the valve onto the shrink piece (area where cargo is unloaded) and into the water. The cause of the leakage is unknown at this time. Dibutylphthalate.	U.S. Coast Guard 2017. Incident # 871031
Newark Bay	7/12/2008	North Star II Fisheries Inc.	Caller is reporting a discharge of material from a fishing vessel that is sitting on top of a barge. A valve to the fuel tank was open which filled the bilge causing a leak through the stern tube. Oil: diesel.	U.S. Coast Guard 2017. Incident # 877039
Newark Bay	7/24/2008	Amerada Hess	The caller reported that while discharging storm water in an unnamed creek, a sheen was noticed. The caller stated that the sheen might be coming from a historic spill. Oil, fuel: No. 2.	U.S. Coast Guard 2017. Incident # 878349
Newark Bay	8/17/2008	Great Lakes Dredge & Dock Company	Caller is reporting a discharge of hydraulic oil from a broken hydraulic hose on the boom of a back hoe dredge.	U.S. Coast Guard 2017. Incident # 880858
Newark Bay	8/27/2008	APM Terminals	A fuel delivery tanker was struck by a ship-to-shore crane. The crane tore a hole in the tanker's hull, resulting in a discharge of marine diesel fuel oil.	U.S. Coast Guard 2017. Incident # 881984
Newark Bay	8/27/2008	Unknown	Caller stated an unknown sheen was discovered during a helicopter overflight of the Newark Bay. Unknown oil.	U.S. Coast Guard 2017. Incident # 881939
Newark Bay	10/22/2008	Great Lakes Dredge & Dock Company	The caller stated that an excavator dredge had a valve leak causing a spill of hydraulic fluid in to the water. The release has been stopped and the material is being contained.	U.S. Coast Guard 2017. Incident # 887862
Newark Bay	2/11/2009	American Presidents Line	Caller is reporting a pinhole leak in the side plating of American Presidents Line, allowing a discharge of ship's fuel oil from the vessel into Newark Channel.	U.S. Coast Guard 2017. Incident # 897162

Table K-4
Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Newark Bay	2/11/2009	M/V Ail Malasia	The caller is reporting the discovery of a small fuel spill from the reporting party's vessel due to unknown causes. No actions have been taken at this time. Oil: diesel.	U.S. Coast Guard 2017. Incident # 897149
Newark Bay	6/10/2009	Unknown	Caller stated due to unknown causes there was a spill of materials from a barge into Newark Bay. Hydraulic oil.	U.S. Coast Guard 2017. Incident # 908159
Newark Bay	7/6/2009	M/V Stolt Capability	The caller is reporting that during testing of their firefighting equipment, an unknown amount of AFFF (aqueous film forming foam) was released into Newark Ship Channel. AFFF.	U.S. Coast Guard 2017. Incident # 910730
Newark Bay	2/13/2010	Unknown	United States Coast Guard received a report of an unknown sheen of about 1000 feet long in the vicinity of APM Terminal Port Elizabeth Pier 92. Unknown oil.	U.S. Coast Guard 2017. Incident # 931204
Newark Bay	2/24/2010	Unknown	Caller is reporting an unknown sheen in the Arthur Kill river and Newark Bay from an unknown source. Unknown oil.	U.S. Coast Guard 2017. Incident # 932175
Newark Bay	3/3/2010	Port Newark Container Terminal	Caller is reporting a discharge of hydraulic fluid from a hydraulic line to a shoreside crane (#9) due to a coupling failure. Hydraulic oil.	U.S. Coast Guard 2017. Incident # 932885
Newark Bay	4/15/2010	Donjon Marine	Caller reported one of the employees was doing maintenance and a pipe hit a valve that caused a spill of materials into the waterway. Oil, fuel: No. 2-D.	U.S. Coast Guard 2017. Incident # 937111
Newark Bay	6/29/2010	Marine Oil Service	A cargo tank on an 82' tanker was overfilled during transfer operation. Oil, misc.: lubricating.	U.S. Coast Guard 2017. Incident # 945949
Newark Bay	2/2/2011	Unknown	Caller states that there was an unknown sheen from an unknown source near the vessel "Champion Trader" Imo 9127667. Unknown oil.	U.S. Coast Guard 2017. Incident # 966392
Newark Bay	3/10/2011	M/V Atlantic Cartier	Caller is reporting there was hydraulic spill on the deck of the vessel at 1825. At 1940, a scupper broke and material was discharged into the water. Hydraulic oil.	U.S. Coast Guard 2017. Incident # 969764
Newark Bay	3/25/2011	Hess Corp.	Caller is reporting a release of diesel fuel during bunkering operations due to equipment failure of a pump. Oil: diesel.	U.S. Coast Guard 2017. Incident # 971195
Newark Bay	8/25/2011	Unknown	Caller is reporting an unknown sheen from an unknown source. Sheen was spotted during an overflight. Caller states the sheen was between green buoy and red buoy 5 and 3 in the Newark Bay. Unknown oil.	U.S. Coast Guard 2017. Incident # 987098
Newark Bay	1/9/2012	Unknown	Caller is reporting an unknown sheen that is possibly coming from a red barge that is anchored in Newark Bay. The sheen is rainbow and more blue-looking around the barge. Coast Guard overflight made initial observation. Unknown oil.	U.S. Coast Guard 2017. Incident # 999912
Newark Bay	3/18/2012	NOCC Atlantic	Caller stated there was a spill of materials from a vessel due to a hydraulic pipe that burst on the vessel. Hydraulic oil.	U.S. Coast Guard 2017. Incident # 1006090
Newark Bay	4/25/2012	Gasoline Delivery Truck	Caller is reporting that the gasoline delivery truck pipe broke and the material was spilling from the tanker truck into the water. The truck has about 2,000 gallons of gasoline as cargo. Gasoline: automotive (unleaded).	U.S. Coast Guard 2017. Incident # 1009602
Newark Bay	6/12/2012	Donjon Marine	Caller stated hydraulic oil released from the vessel into the water due to hose failure. Hydraulic oil.	U.S. Coast Guard 2017. Incident # 1014279
Newark Bay	8/10/2012	Unknown	Report of an unknown sheen in Port Elizabeth, sheen was described as fairly large by the original reporting party. Unknown oil.	U.S. Coast Guard 2017. Incident # 1020589
Newark Bay	10/19/2012	Unknown	Caller is reporting an unknown sheen from an unknown source that was reported by a third party in the area. The sheen was said to be fuel or oil of some kind. The sheen went from IMTT Bayonne to Newark Bay.	U.S. Coast Guard 2017. Incident # 1027776
Newark Bay	2/3/2013	Jay Cashman	Caller stated there is a spill of hydraulic oil coming from a dredging vessel on a daily basis during a dredging operation. Hydraulic oil.	U.S. Coast Guard 2017. Incident # 1037395
Newark Bay	4/17/2013	Unknown	The USCG were notified by third party of yellow fluids in the water. The source was unknown.	U.S. Coast Guard 2017. Incident # 1044228
Newark Bay	5/9/2013	Unknown	A third party reported a rainbow sheen on Newark Bay.	U.S. Coast Guard 2017. Incident # 1046518
Newark Bay	5/22/2013	Unknown	an unknown sheen was sighted in the water between Shooters Island and Staten Island.	U.S. Coast Guard 2017. Incident # 1047938

Table K-4
Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Newark Bay	6/25/2013	Unknown	Report of dark black suspected oil sheen approx. 150 ft x 80 ft in north bay.	NJDEP 2017. Incident # 480303
Newark Bay	9/3/2013	McAllister Towing Of NY	The caller reported that #2 diesel discharged from the day tank due to an overflow, releasing product out of the vent and overboard.	U.S. Coast Guard 2017. Incident # 1059095
Newark Bay	9/13/2013	Unknown	Caller is reporting an unknown sheen in Newark Bay from an unknown source. Caller stated there are several freighters in the area and one of them could possibly be the source.	U.S. Coast Guard 2017. Incident # 1060049
Newark Bay	9/13/2013	Marine Harbor	Caller sees an oil sheen on bay from unknown source.	NJDEP 2017. Incident # 491379
Newark Bay	1/20/2014	Unknown	Caller is reporting a sheen sighting in the Port Elizabeth area. The source is unknown; there are two possible sources nearby.	U.S. Coast Guard 2017. Incident # 1071654
Newark Bay	1/20/2014	Unknown	Caller is reporting a sheen from an unknown source.	NJDEP 2017. Incident # 505750
Newark Bay	3/2/2014	Unknown	The caller is reporting an unknown sheen in the Newark channel, source is unknown at this time. This is a third-party report.	U.S. Coast Guard 2017. Incident # 1075549
Newark Bay	3/2/2014	Unknown	Anonymous caller reporting a heavy oil slick and sheen in the Newark Channel that is expanding with incoming tide. Reports it could be coming from a tanker barge near Berth Slip 17.	NJDEP 2017. Incident # 508540
Newark Bay	4/11/2014	Unknown	Reporting unknown rainbow colored sheen 15'x10'.	NJDEP 2017. Incident # 512398
Newark Bay	4/30/2014	United Water	Caller reporting net failure due to heavy rain caused release. Net replaced and spill terminated at this point.	NJDEP 2017. Incident # 515384
Newark Bay	5/9/2014	Donjon	Caller is reporting an unknown amount of diesel fuel being spilled into the water from a vessel.	U.S. Coast Guard 2017. Incident # 1082251
Newark Bay	5/14/2014	Unknown	Caller reported an unknown sheen coming from an unknown source.	U.S. Coast Guard 2017. Incident # 1082806
Newark Bay	5/14/2014	Unk	NRC # 1082806 unknown sheen from an unknown source in the Newark Bay. Sheen is bluish and about 100 yards long.	NJDEP 2017. Incident # 516944
Newark Bay	7/2/2014	BP	Caller reporting 10'x10' sheen, reporting hydrocarbon smell but not much of a rainbow, it is starting to dissipate, unknown source.	NJDEP 2017. Incident # 523122
Newark Bay	7/2/2014	Donjon Marine	USCG advised RP of line leak from a crane aboard vessel 'Dredge Michigan' at dock.	NJDEP 2017. Incident # 523154
Newark Bay	7/10/2014	Unknown	Caller is reporting an unknown sheen from an unknown source. a sheen in the same spot was reported on 03 July 2014.	U.S. Coast Guard 2017. Incident # 1088614
Newark Bay	7/10/2014	Unknown	It was reported to the NRC that there is an unknown sheen coming from an unknown source. A sheen in the same spot was reported on July 03, 2014. Sheen size is 200 yards by 50 yards.	NJDEP 2017. Incident # 524164
Newark Bay	7/11/2014	Unknown	The caller is reporting an unknown sheen in Newark Bay, source is unknown. This is a third-party report.	U.S. Coast Guard 2017. Incident # 1088751
Newark Bay	7/11/2014	Unknown	Caller is reporting an unknown sheen in the Newark Bay from an unknown source.	U.S. Coast Guard 2017. Incident # 1088752
Newark Bay	7/11/2014	Unknown	Unknown sheen observed. Rainbow colored 400 x 5 meters.	NJDEP 2017. Incident # 524399
Newark Bay	7/21/2014	Unknown	Caller is reporting the discovery of an unknown sheen from an unknown source on the water.	U.S. Coast Guard 2017. Incident # 1089706
Newark Bay	7/21/2014	Unknown	Report of a rainbow-colored sheen from an unknown source. Size is 200' x 80'.	NJDEP 2017. Incident # 525503
Newark Bay	8/2/2014	Unknown	Caller is reporting a sheen from an unknown source in the Port Newark Channel.	U.S. Coast Guard 2017. Incident # 1091033

Table K-4
Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Newark Bay	8/2/2014	Unknown	NRC fax #1091033 report of 100-yard rainbow sheen of diesel from unknown source in Port Newark Channel.	NJDEP 2017. Incident # 527264
Newark Bay	10/10/2014	Unknown	Caller is reporting an unknown sheen in Newark Bay that was approaching a vessel from an unknown source. the vessel is at Pier 12.	U.S. Coast Guard 2017. Incident # 1097935
Newark Bay	10/10/2014	Unknown	Motor vessel J.S. Missouri reporting a mystery sheen while coming in to Newark Bay. Sheen is approximately 30 meters by 30 meters and silvery in color.	NJDEP 2017. Incident # 536154
Newark Bay	11/17/2014	Unknown	Caller is reporting an unknown sheen from an unknown source in the water.	U.S. Coast Guard 2017. Incident # 1101242
Newark Bay	12/17/2014	Unknown	Caller is reporting an unknown sheen.	U.S. Coast Guard 2017. Incident # 1103675
Newark Bay	12/17/2014	Unknown	Caller is reporting an unknown sheen. Size is 50 feet by 1 foot.	NJDEP 2017. Incident # 542917
Newark Bay	2/25/2015	Stolt Tank Containers	Leaking container on ship caused spill on the ship. Clean up complete. Port Authority PD, Customs and NJDEP on scene.	NJDEP 2017. Incident # 548726
Newark Bay	3/2/2015	Unknown	Caller is reporting the discovery of an unknown sheen from an unknown source in the water. There is another vessel that is bunkering in front of them that may be the potential source.	U.S. Coast Guard 2017. Incident # 1109448
Newark Bay	3/2/2015	Unknown	NRC fax# 1109448 report of 5-meter length sheen. Unknown clean up.	NJDEP 2017. Incident # 548698
Newark Bay	3/16/2015	Unknown	Caller stated there is an unknown sheen on Newark Bay Robbin's Reef Yacht Club.	U.S. Coast Guard 2017. Incident # 1110827
Newark Bay	3/16/2015	Unknown	Caller stated there is an unknown sheen on the Newark Bay at Robbin's Reef Yacht Club. Sheen is dark black 300x100.	NJDEP 2017. Incident # 549956
Newark Bay	3/31/2015	Unknown	Caller stated that they were notified of an unknown sheen from an unknown source in the water by a tug passing through the area.	U.S. Coast Guard 2017. Incident # 1112185
Newark Bay	3/31/2015	Unknown	Coast Guard reported to NRC they received a call in regards to an unknown size sheen from an unknown source in the water. Reported by a tugboat passing area.	NJDEP 2017. Incident # 551633
Newark Bay	5/3/2015	Newark Container	Caller stated that the dock crane started leaking hydraulic oil while loading containers on the (Orca One) container vessel. Caller also stated that the deck of the vessel as well as the Newark Bay were impacted.	U.S. Coast Guard 2017. Incident # 1115392
Newark Bay	7/13/2015	Unknown	Caller reported firefighting water runoff that got into the Elizabeth.	U.S. Coast Guard 2017. Incident # 1122647
Newark Bay	8/18/2015	EIC	Caller is reporting a contractor's hydraulic tool broke, resulting in a discharge of hydraulic oil.	U.S. Coast Guard 2017. Incident # 1125960
Newark Bay	11/4/2015	Hachiuma Steamship Co.	Caller stated that a hydraulic hose burst on the stern ramp of the vessel causing material to discharge into the water.	U.S. Coast Guard 2017. Incident # 1132519
Newark Bay	12/30/2015	Unknown	The caller is reporting an unknown sheen in Newark Bay, source is unknown. Caller stated the sheen "smells like oil". This is a third-party report.	U.S. Coast Guard 2017. Incident # 1136989
Newark Bay	12/30/2015	Unk	NRC # 1136989 unknown sheen in the Newark Bay. Smells like oil.	NJDEP 2017. Incident # 584430
Newark Bay	2/23/2016	M/V Syress	Caller is reporting that they were in the middle of testing the inert gas system trying to achieve a high oxygen alarm, and the fuel was not being ignited due to the system having a flame failure. The scrubber water washed some of the fuel overboard and created a noticeable sheen in the water.	U.S. Coast Guard 2017. Incident # 1141161
Newark Bay	2/23/2016	Joe Tankers	Caller is reporting that they were lighting off the igs system during a coc inspection, and they overpressured the fuel supply and there was a mist spray of diesel fuel into the water.	U.S. Coast Guard 2017. Incident # 1141170

Table K-4
Significant Spills that have Occurred in the NBSA

Subject Waterway	Dates	Facility / Vessel	Documented Discharge to Newark Bay and/or Tributary ¹	References
Newark Bay	2/23/2016	M/V Syress	Caller is reporting that they were in the middle of testing the inert gas system trying to achieve a high oxygen alarm and the fuel was not being ignited due to the system having flame failure. The scrubber water washed some of the fuel overboard creating a noticeable sheen in the water. Sheen size is 40 feet by 20 feet. USCG New York en route.	NJDEP 2017. Incident # 590316
Newark Bay	2/23/2016	Joe Tankers	Caller reporting a diesel fuel spill due to equipment failure during test on board the vessel.	NJDEP 2017. Incident # 590325
Newark Bay	5/30/2016	Unknown	Large sheen on the Newark Bay south of Port Elizabeth.	NJDEP 2017. Incident # 602569
Newark Bay	5/31/2016	Maersk Lines Unlimited	Heavy fuel oil discharged from an apparent crack due to equipment failure.	U.S. Coast Guard 2017. Incident # 1149226
Newark Bay	5/31/2016	Maersk Lines Limited	Report of a minor spill from vessel Mearsk Idaho, due to a crack in the bow.	NJDEP 2017. Incident # 602581
Newark Bay	6/6/2016	NSC Shipping	Malfunction on ship's fitter caused a spill. Repairs are finished. Cleanup finished.	NJDEP 2017. Incident # 603274
Newark Bay	8/9/2016	Unknown	Caller is reporting they saw a sheen from an unknown source come by their terminal, moving with the tide.	U.S. Coast Guard 2017. Incident # 1155715
Newark Bay	8/15/2016	Unknown	Caller reported that there was paint spilled into Newark Bay at the dry dock.	U.S. Coast Guard 2017. Incident # 1156297
Newark Bay	1/4/2017	Unknown	Caller is reporting a vessel at the facility is discharging unknown oil from a point towards the stern. It is unknown where the oil is originating from on the ship.	U.S. Coast Guard 2017. Incident # 1167752
Newark Bay	1/4/2017	Unknown	Report of a vessel discharging oil from the stern.	NJDEP 2017. Incident # 627384
Newark Bay	1/16/2017	Port Newark Container Terminal	Hydraulic oil discharged from a ship-to-shore crane spreader due to damage on the spreader.	U.S. Coast Guard 2017. Incident # 1168753
Newark Bay	1/16/2017	Port Newark Container Terminal	NRC incident # 1168753. Reported hydraulic oil discharged from ship-to-shore crane spreader due to damage on the spreader. Sheen on Port Newark Channel is approx. 50 feet by 6 feet. Sheen is secured.	NJDEP 2017. Incident # 628310
Newark Bay	4/1/2017	Unknown	Caller stated that they received a report of a partially submerged barge in the waters of Newark Bay. A sheen has been observed coming from the barge. Contents of the barge are unknown. The barge was used for the reconstruction of the berth.	U.S. Coast Guard 2017. Incident # 1174566
Newark Bay	4/1/2017	Unknown	Report of a partially submerged barge in the Newark Bay. A sheen, approximately 200,' has been observed coming from the barge.	NJDEP 2017. Incident # 634887
Pierson's Creek Newark Bay	1975, 3/86 Or 4/86.	Engelhard Corporation	It is known that an overflow from a sump in Building 8 did at one time discharge to Pierson's Creek. Former employees reported spills in drainage ditch area. In 1975, chemical sewer north of Building 8 overflowed 3,000 gallons; spill drained into Pierson's Creek. Wastewater from automotive catalyst operations discharged into Pierson's Creek. Petroleum spill into Pierson's Creek occurred 3/86 or 4/86.	Tierra 2006
Port Elizabeth	4/6/2017	Harley Marine	Caller reported that a vessel hydraulic steering hose ramp discharged fluid on deck and into the water.	U.S. Coast Guard 2017. Incident # 1175004
Rahway River	2/21/2016	Unknown	Sheen found on Rahway River in the area of the Linden maintenance yard. HAZMAT team was able to contain the sheen. HAZMAT believes it was from a spill in the yard on Wed.	NJDEP 2017. Incident # 590018

Notes:

¹ Information reported is quoted from the U.S. Coast Guard National Response Center Database, New Jersey Department of Environmental Protection Spills Hotline database and from other published sources.

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