

**ATTACHMENT A**

**CASE INVENTORY DOCUMENT (CID)**

	A	B	D	E	F	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	Case Name: Berry Lane Park																			
2	PI #: 568229																			
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4	Case Inventory Document Version 1.3 06/25/14																			
5	AOC ID	AOC Type	AOC Details	Confirmed Contamination	AOC Status	Status Date	Incident #	DEP AOC Number	Contaminated Media	Contaminants of Concern	Additional Contaminants of Concern	Additional Contaminants of Concern	Applicable Remediation Standard	Exposure Route	Additional Exposure Route	RA Type	Additional RA Type	Additional RA Type	Was an Order of Magnitude Evaluation Conducted?	Activity
6	AOC1	Discharge and disposal area - Historic fill material area/other fill area	Former Morris Canal	Yes	RAR	6/22/2016			Mixed Media	Metals			Remediation Standards	Ground Water	Ingestion/Dermal	Excavation				RIRRAW (Jan 2012) - Remedial Investigations delineated soil concentrations exceeding the 2008 NJDEP RDCSRS and/or NRDCSRS for the following Chromate Chemical Production Waste (CCPW) with their respective highest concentrations: Hex. chromium - 5,400ppm; total chromium - 383ppm; antimony - 0.814Jppm; nickel - 841ppm; thallium - 0.355Jppm; vanadium - 383ppm. Soil impacts of CCPW related contaminants have been horizontally and vertically delineated. Metals associated with Historic Fill have been horizontally and vertically delineated. Groundwater - Existing permanent monitoring wells MW-3-1, MW-3-2, MW-4-1, MW-5-1, MW-5-2, MW-6-1, MW-7-1, MW-7-2, MW-8-1, MW-9-1, MW-10-1, MW-12-1 were sampled in May and/or June 2011. Results identified groundwater concentrations exceeding the NJDEP GWQC for the following COC with their respective highest concentrations: Hex. chromium - 14,500ppb (June MW-5-2) ; total chromium - 15,100ppb (June MW-5-2); dieldrin-0.035ppb (June MW-8-1). Completion of the delineation is proposed to be conducted upon removal of the source chromium soils. The NJDEP approved the RIRRAW on 2/10/12. RAR (May 2015) – The excavation was sheet piled into four (4) distinct cells. The horizontal and vertical extent of the former Morris Canal was excavated in accordance with the NJDEP approved RAW. Approximately 49,000 tons of soil was disposed offsite at a permitted disposal facility (EQ). As approved in the RAW existing in-situ delineation samples served as post-excavation samples but as a pre-cautionary measure confirmatory samples were collected and analyzed for hexavalent chromium, Eh and pH. Approximately 1,228,000 gallons of water generated within the remedial excavation was pumped to onsite 20,000-gallon holding tanks pending transport to 900 Garfield Avenue where it was treated with an onsite treatment system under their existing permits. Certified clean fill was placed from the base of the excavation to elevation 5.5, in-situ backfill (i.e.: historic fill reuse soil) was placed from elevation 5.50 to 10.5 and imported clean fill was placed from 10.50 to grade (which varied from 13.33 to 13.50). Update of the receptor evaluation did not identify any new receptors. Completion of the ground water investigation is still pending. An Unrestricted Use Area of Concern Soils Only Response Action Outcome was issued for this AOC.
7	AOC2	Discharge and disposal area - Historic fill material area/other fill area	Chromium Site 121	Yes	RAR	6/22/2016			Mixed Media	Metals			Remediation Standards							RIRRAW (Jan 2012) - Remedial Investigations identified soil concentrations exceeding the 2008 NJDEP RDCSRS and/or NRDCSRS for the following CCPW contaminants with their respective highest concentrations: vanadium - 119ppm. Additional soil sampling is required to delineate the vanadium exceedance at 121-B1_4.5. Groundwater - Existing permanent monitoring wells MW-4-1 and MW-6-1 were sampled in May and/or June 2011. Results did not identify groundwater concentrations exceeding the NJDEP GWQC for any CCPW related contaminants. The NJDEP approved the RIRRAW on 2/10/12. RAR (May 2015) - On February 20, 2013 a limited excavation was advanced to remove a previous exceedance of hexavalent chromium identified in soil sample P4-SB4(3.0-4.0) collected as part of the site investigation and later delineated during the remedial investigation by soil samples SB-121-B9 through SB-121-B12. The proposed excavation was marked out in the field by Weber using New Jersey State Plane Coordinates obtained during the remedial investigation. Excavated soil was disposed offsite at a permitted disposal facility (EQ). The excavation was approximately 10 feet wide by 10 feet long by 5 feet deep. Delineation samples served as sidewall post excavation samples. One (1) soil sample (121-BOTTOM) was collected from the base of the excavation at 5.0/5.5 ft bgs to document vertical compliance. The sample was analyzed for hexavalent chromium, Eh and pH. Results were complaint of non-residential chromium soil cleanup criteria of 20 mg/kg subsequently no additional remediation was warranted. The NJDEP approved RAW proposed that CCPW related vanadium would remain within Chromium Site 121 and would be remediated via the implementation of an engineering and institutional control. The concentrations of these contaminants were later evaluated in accordance with the NJDEP September 2012 Technical Guidance for the Attainment of Remediation Standards and Site-Specific Criteria, Version 1.0. Based on compliance averaging, and supported by groundwater sampling results, vanadium contamination in soil on Chromium Sites 121 was determined not to be at levels which require soil containment or other remedial action, subsequently implementation of an engineering and institutional control was judged not warranted. The memorandum prepared by PPG's technical consultant, AECOM, and entitled PPG Sites 121 and 207 (Berry Lane Park), Compliance Averaging Analysis - CCPW Impacts in Site Soils. An Unrestricted Use Area of Concern Soils Only Response Action Outcome was issued for this AOC.
8	AOC3	Discharge and disposal area - Historic fill material area/other fill area	Chromium Site 207	Yes	RAR	6/22/2016			Mixed Media	Metals			Remediation Standards							RIRRAW (Jan 2012) - Remedial Investigations delineated soil concentrations exceeding the 2008 NJDEP RDCSRS and/or NRDCSRS for the following CCPW contaminants with their respective highest concentrations: thallium - 8.23ppm; vanadium - 141ppm. Additional soil sampling is required to delineate the thallium exceedance at 207-B4_5.5 and 207-B5_9.5. Groundwater - Existing permanent monitoring wells MW-5-1 and MW-5-2 were sampled in May and June 2011. Results identified groundwater concentrations exceeding the NJDEP GWQC for the following COC with their respective highest concentrations: Hex. chromium - 14,500ppb; total chromium - 15,100ppb. Delineation of these gw impacts is proposed to be conducted upon removal of the source chromium soils. The NJDEP approved the RIRRAW on 2/10/12. RAR (May 2015) - The NJDEP approved RAW proposed that CCPW related metals (nickel, vanadium and thallium) could remain within Chromium Sites 121 and 207 at concentrations above the RDCSRS and/or NRDCRS and would be remediated via the implementation of an engineering and institutional control. The concentrations of these contaminants were later evaluated in accordance with the NJDEP September 2012 Technical Guidance for the Attainment of Remediation Standards and Site-Specific Criteria, Version 1.0. Based on compliance averaging, and supported by groundwater sampling results, nickel, thallium, and vanadium contamination in soil on Chromium Sites 121 and 207 was determined not to be at levels which require soil containment or other remedial action, subsequently implementation of an engineering and institutional control was judged not warranted. The memorandum prepared by PPG's technical consultant, AECOM, and entitled PPG Sites 121 and 207 (Berry Lane Park), Compliance Averaging Analysis - CCPW Impacts in Site Soils. An Unrestricted Use Area of Concern Soils Only Response Action Outcome was issued for this AOC.

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9	AOC4	Discharge and disposal area - Historic fill material area/other fill area	Historic Fill (All Properties)	Yes	RAW	5/1/2012			Mixed Media	PAHs	Metals		Remediation Standards	Ground Water	Ingestion/Dermal					PA – each of the eleven properties (which make up Berry Lane Park) identified historic fill as an AOC. It is well documented by the NJDEP that the area was reclaimed and historic deposition of contaminated fill was used within Hudson County. Site investigations were recommended. SIR/RIR – Soil and groundwater samples collected at each of the eleven properties identified concentrations of PAHs and metals typically attributed with historic fill. The horizontal extent of the fill extends across the entire eleven properties and the maximum vertical extent of the historic fill was determined to be down to elevation 5.5. RAW – historic fill at each of the eleven properties was proposed to remediate via the implementation of an engineering control (two feet of clean fill) and an institutional control (deed notice). The NJDEP approved the RAW approach at each of the eleven properties.
10	AOC5	Storage tank and appurtenance - Unregulated Under ground storage tank	one 550-gallon unregulated heating oil UST (Property No. 2)	No	SI	5/1/2011														During first half of 2011 the Jersey City Incinerator Authority removed one 550 gallon unregulated heating oil tank. Upon removal it was judged that the tank did not discharge. As the tank was unregulated no sampling was warranted. No further investigation is warranted.
11	AOC6	Storage tank and appurtenance - Federal Regulated Under ground storage tank	one 2,000-gallon leaded gasoline UST (Property No. 3)	No	SI	5/1/2011	10-10-19-1659-41		None	Not Applicable			Remediation Standards							UST Closure Report (May 2011) - UST and associated piping removed 10/19/2010, one hole was observed in base of UST, stained soil noted along base of excavation, Four sidewall samples collected and analyzed for TCL-VO+10 and lead. Results revealed benzene and 1,2,4-trichlorobenzene > NJDEP IGWSSL. Exceedances delineated using existing soil data. Groundwater sample from temp. well analyzed for TCL-VO+10 and lead; lead identified in excess of GWQC. Permanent well installed in same location and sampled for lead, concentration below NJDEP GWQC. Original concentration attributed to turbidity from temp. well point. No further investigation recommended.The NJDEP approved the investigations.
12	AOC7	Storage tank and appurtenance - Unregulated Under ground storage tank	Potential USTs (Property No. 8)	No	SI	4/1/2010			None	Not Applicable										PA (Nov 2008) - identified asphalt patch in north central portion of property. SIR (Nov 2008) - geophysical did not identify anomalies indicative of a tank. SIR (April 2012) – second geophysical conducted once site cleared of buses did not identify anomalies indicative of a tank. No further investigation recommended. The NJDEP approved the investigations.
13	AOC8	Storage tank and appurtenance - Above ground storage tank	One heating oil AST and one waste oil AST (Property No. 1)	No	PA	3/1/2012			None	Not Applicable										PA (March 2012) – Sanborn maps depicted a fuel oil tank on northern portion of Site, not present during site inspection no signs of discharge. Previous ESA report (by Crest Engineering Associates) identified one heating oil and one waste oil AST in 2005; no signs of discharge were noted. Concrete slab was observed in 2012 which was believed to be where ASTs were previously located; no signs of discharge were noted. Site investigations not recommended. The NJDEP approved the investigations.
14	AOC9	Storage tank and appurtenance - Above ground storage tank	two 275 gallon waste oil ASTs (Property No. 3)	No	SI	11/1/2008			None	Not Applicable			Remediation Standards							PA (Oct 2007) – two 275-gallon waste oil ASTs identified during site visit. No staining observed. Site investigations recommended. SIR (Nov 2008) – one soil sample was collected at 6.0/7.0 feet bgs and analyzed for TPH, VO+10, BN+15, PP metals, and PCBs. Results identified concentrations of benzene, naphthalene >NJDEP's RDCSRS and IGWSSL and lead, ethylbenzene, toluene, and t. xylenes >IGWSSL. One groundwater sample was collected and analyzed for VO+10; benzene, ethylbenzene, t.xylenes, and toluene >NJDEP's GWQC. Concentrations were judged to be associated with AOC6 and AOC32 not a release from the former ASTs. No further investigations were recommended.
15	AOC10	Storage tank and appurtenance - Above ground storage tank	two 275 gallon waste oil ASTs (Property No. 5)	No	RAW	4/1/2010			None	Not Applicable			Remediation Standards							PA (Oct 2007) – two 275-gallon waste oil ASTs identified during site visit. Staining on concrete pad observed. Site investigations recommended. SIR (Nov 2008) – one soil sample was collected at 3.0/4.0 feet bgs and analyzed for TPH and hexavalent chromium. Results <NJDEP's TOCSCC of 10,000 mg/kg. One groundwater sample was collected and analyzed for VO+10; TBA >NJDEP's GWQC. Remedial investigations recommended. RIRRAW (April 2010) – one soil sample was collected at 0.0/0.5 feet bgs and analyzed for waste oil UST closure parameters (TPH-QAM025, TCL VO+10, TCL BN+20, PCBs, TAL metals). Results identified concentrations of select PAHs and metals >NJDEP's RDCSRS, NRDCSRS and IGWSSL. One monitoring well installed in previous temp. well location, sampled for TBA. Results <GWQC. Previous TBA exceedance attributed to turbidity and soil exceedances to AOC4 Historic Fill. It should be noted that after completion of above investigations one of the ASTs was punctured and oil flowed to the adjacent soil filled storm water basin. The oil and underlying soil was removed and disposed. The RAW stipulated additional investigations of the storm water basin would be conducted upon removal of the basin at the time the site was redeveloped. The RAW was approved by the NJDEP on Jan. 23, 2012.
16	AOC11	Other areas of concern - Any area suspected of containing contaminants	Previous Site Operations - McConnel Coal and Oil and Roberto's Boat Repair (Property No. 1)	Yes	RAW	5/1/2012			Soil	Pesticides			Remediation Standards	Ingestion/Dermal						PA (March 2012) – previous site operations included a coal and heating oil storage and delivery yard (McConnell Coal and Oil) and a boat storage and repair (Roberto's Boat Repair). Site investigations recommended. SIRRAW (April 2012) – three soil samples were collected and analyzed for TPH, TCL VO+10, TCL BNA+20, PCBs, pesticides, TAL metals, hex. chromium. Results identified PAHs, pesticides, metals >NJDEP's RDCSRS, NRDCSRS and/or IGWSSL. One groundwater sample was collected and analyzed for TCL VO+10, TCL BNA+20, PCBs, pesticides, TAL metals, hex. chromium; results identified select metals >NJDEP's GWQC. PAHs and metals were judged to related to historic fill. RAW proposed horizontal and vertical soil delineation of dieldrin and installation of a monitoring well to determine if dieldrin had impacted groundwater and confirm metal exceedances. Additional remedial investigations recommended. NJDEP approved the RAW on 5/1/2012.

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17	AOC12	Other areas of concern - Any area suspected of containing contaminants	Previous Site Operations - Historical Cleaners (Property No. 3)	No	SI	11/1/2008			None	Not Applicable			Remediation Standards							PA (Oct. 2007) – site identified as historical dry cleaners, Sanborn maps confirm operations as standard laundry. Site investigations recommended. SIR (Nov. 2008) – seven soil samples were collected and analyzed for TPH, VO+10, BN+20, PCBs, PP metals hex. chromium. Two groundwater samples were collected and analyzed for TCL VO+10. Soil and groundwater results did not identify chlorinated solvents indicative of dry cleaners operation. No further investigation recommended. The NJDEP approved the investigations.
18	AOC13	Other areas of concern - Any area suspected of containing contaminants	Previous Site Operations - Automotive Salvage Yard (Property No. 3)	Yes	RAW	5/1/2012			Soil	PCBs			Remediation Standards	Ingestion/Dermal						RIRRAW (3/1/2012) – not identified in PA but investigated later. Five shallow soil samples collected and analyzed for TPH-QAM025 with contingent TCL VO+10, TCL BN+20, PCBs, TAL metals. TPH results <NJDEP's Ecological Screening Level and TOCSCC but PCBs, PAHs, metals >NJDEP's RDCSRS, NRDCSRS, IGWSSL. PAHs and metals consistent with area wide historic fill but PCBs required further delineation. Additional soil sampling delineated PCBs. PCBs <EPA High Occupancy of 10 mg/kg. RAW proposed the excavation of PCBs and reuse in a PCB Management Area within the future proposed park. The area would be remediated with a TSCA engineering and institutional control. NJDEP approved the RAW on 5/1/2012. 30 Day Notice submitted to USEPA documenting PCB delineation and proposed remediation. No comment received within 30 day.
19	AOC14	Other areas of concern - Any area suspected of containing contaminants	Previous Site Operations - Automotive Salvage Yard (Property No. 5)	No	RI	4/1/2010			None	Not Applicable			Remediation Standards							PA (Oct. 2007) – previous site operations included an automotive salvage yard. Small areas of soil staining observed. Petroleum contaminated storm water observed in low lying areas. Site investigations recommended. SIR (Nov. 2008) – ten soil samples were collected and analyzed for TPH and hex. chromium and select samples analyzed for PP+40 or PP metals. Results identified PAHs and metals >NJDEP's RDCSRS, NRDCSRS and/or IGWSSL. Four groundwater samples collected and analyzed for TCL VO+10; results identified TBA >NJDEP's GWQC at one location. Remedial investigations recommended. RIRRAW (April 2010) – five shallow soil samples collected and analyzed for TPH-QAM025. Results <NJDEP's Ecological Screening Level and TOCSCC. Monitoring well installed at previous TBA exceedance location, one sample collected and analyzed for TBA; results <GWQC; previous exceedance of TBA associated with turbity from temporary well.. Exceedances of PAHs and metals attributed to AOC4 Historic fill. No further investigation recommended. NJDEP approved the investigations.
20	AOC15	Other areas of concern - Hazardous substance storage or handling area	Drums and containers (Property No. 1)	No	PA	3/1/2012			None	Not Applicable										PA (March 2012) – Empty kerosene containers were observed in 1 story building, minor staining noted on concrete floor but floor in good condition/no compromises. Four unlabeled drums, no staining or paths to soil or groundwater. Recommended drums properly disposed. No further investigation recommended. The NJDEP approved the investigations.
21	AOC16	Other areas of concern - Hazardous substance storage or handling area	Potentially hazardous materials (auto paints, reducers, etc..) (Property No. 5)	No	RI	4/1/2010			None	Not Applicable			Remediation Standards							PA (Oct. 2007) – potentially hazardous substances observed in auto repair garage during site visit as well as in the auto salvage area. 55-gallon drums and 5-gallon pails were scattered throughout the junk yard. No evidence of release was observed around each but site investigations were recommended. SIR (Nov. 2008) – ten soil samples were collected and analyzed for TPH and hex. chromium and select samples analyzed for PP+40 or PP metals. Results identified PAHs and metals >NJDEP's RDCSRS, NRDCSRS and/or IGWSSL. Four groundwater samples collected and analyzed for TCL VO+10; results identified TBA >NJDEP's GWQC at one location. Remedial investigations recommended. RIRRAW (April 2010) – five shallow soil samples collected and analyzed for TPH-QAM025. Results <NJDEP's Ecological Screening Level and TOCSCC. Monitoring well installed at previous TBA exceedance location, one sample collected and analyzed for TBA; results <GWQC; previous exceedance of TBA associated with turbity from temporary well. Exceedances of PAHs and metals attributed to AOC4 Historic fill. No further investigation recommended. The NJDEP approved the investigations.
22	AOC17	Other areas of concern - Any area suspected of containing contaminants	Adjacent Properties (Property No. 1)	No	SI	3/1/2012			None	Not Applicable			Remediation Standards							PA (March 2012) – four adjacent properties were listed in regulatory files as having potential to impact the Site (1) Chromate Site 121, (2) Chromate Site 186, (3) Chromate Site 199, and (4) Chromate Site 207. Site investigations were recommended. SIR (April 2012) – three soil samples were collected and analyzed for hexavalent chromium, all samples were ND. No further investigations recommended. The NJDEP approved the investigations.
23	AOC18	Other areas of concern - Any area suspected of containing contaminants	Adjacent Properties (Property No. 8)	No	SI	11/1/2008			None	Not Applicable										PA (Nov. 2008) – Gipson & Sons was identified as a UST and LUST Site with contamination in more than one env. media. This property is located 200 feet from Property No. 8. Site investigations were recommended. SIR (Nov. 2008) – two groundwater samples were collected from temp. wells and analyzed for VO+10, all results were ND. No further investigations recommended. The NJDEP approved the investigations.



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24	AOC19	Other areas of concern - Any area suspected of containing contaminants	Current Site Operations - Paint Booth (Property No. 5)	No	SI	4/1/2012			None	Not Applicable			Remediation Standards							PA (Nov. 2007) – LANGAN observed a three inch diameter cast iron pipe filled with water in the auto paint booth. The hole was covered with a metal cap and LANGAN could not determine if this was a floor drain. No evidence of spills or releases of potentially hazardous substances was observed in the vicinity of the drain pipe. Site investigations were recommended. SIR (Nov 2008) – During site investigation it was determined that the drain pipe discharges to storm water catch basin which discharges to the storm water line in Garfield Avenue. Two soil samples collected outside the auto body paint booth and analyzed for TPHC, hexavalent chromium and PP+40. Results identified PAHs and lead >NJDEP's RDCSRS, NRDCSRS and/or IGWSSL. Additional site investigations during site redevelopment were recommended. RIRRAW (April 2008) - one soil sample was collected in the vicinity of the floor drain and analyzed for TPHC, VO+10, BN+25, PCBs, hexavalent chromium. Results identified PAHs >NJDEP's RDCSRS, NRDCSRS and/or IGWSSL. It should be noted that as no exceedances of chlorinated volatile organics (typically associated with automotive paint and solvents) were identified above the NJDEP's SRS and the concentrations of PAHs in soil were consistent with surrounding properties; these compounds were judged to be associated with AOC4 Historic Fill and will be investigated under AOC4 Historic Fill. No further remediation was recommended for this AOC and the proposed sampling of the storm water detention systems will be addressed under AOC-19: Storm water collection system (Property No. 5).
25	AOC20	Other areas of concern - Any area suspected of containing contaminants	Current Site Operations - Garfield Junk Yard (Property No. 6)	No	SI	11/1/2008			None	Not Applicable			Remediation Standards							PA (Oct. 2007) – site occupied and operated by Garfield Junkyard, Inc used for the storage of used auto parts. Site investigations were recommended. SIR (Nov 2008) – two soil samples collected and analyzed for TPHC with PP+40 or PP Metals. Results identified select PAHs and metals >NJDEP's RDCSRS, NRDCSRS and/or IGWSSL. One groundwater sample was collected from a temporary well point installed in soil boring P6-SB2; analyzed for VO+10. No exceedances of the NJDEP's GWQC. It should be noted that as no exceedances of fuel oil or gasoline related compounds (typical of an auto salvage) were identified above the NJDEP's SRS or GWQC and the concentrations of PAHs and metals in soil were consistent with surrounding properties these compounds were judged to be associated with Historic Fill and will be investigated under AOC4 Historic Fill. No further remediation was recommended for this AOC. NJDEP approved the investigations.
26	AOC21	Other areas of concern - Any area suspected of containing contaminants	Railroads/Rail Tracks (Property No. 1)	Yes	RAW	4/1/2012			Soil	Pesticides			Remediation Standards							PA (March 2012) - Based on Sanborn maps, rail tracks were previously present on the western portions of Property No. 1. No tracks were identified during the site reconnaissance. Site investigations were recommended. SIRRAW (April 2012) - one soil sample was collected and analyzed for TCL-VO+10, TCL-BNA+20, PCBs, Pesticides, TAL Metals and hexavalent chromium. Results identified concentrations of dieldrin, select PAHs and metals >NJDEP's RDCSRS, NRDCSRS and/or IGWSSL. The RAW stipulated that: 1) the select metals were judged to be related to Historic Fill and would be remediated via the implementation of an engineering and institutional control, and 2) horizontal and vertical delineation as well as the installation of a permanent monitoring well was proposed to investigate dieldrin exceedances. The NJDEP approved the RAW on May 1, 2012.
27	AOC22	Drainage system and area - Storm sewer collection system	Storm water collection system (Property No. 5)	No	SI	4/1/2010			None	Not Applicable			Remediation Standards							PA (Oct. 2007) – LANGAN observed storm water with a noticeable sheen discharge to a storm water drain located east of the auto repair garage at the edge of the concrete driveway used by Garfield Junkyard. Site investigations were recommended. SIR (Nov. 2008) – one soil sample was collected near the storm water collection system and analyzed for TPHC and hexavalent chromium. Results did not identify TPHC concentrations in excess of the NJDEP's TOCSCC of 10,000 mg/kg. One groundwater sample was collected from a temporary well point and analyzed for VO+10. Results identified concentrations of TBA in excess of the NJDEP's GWQC. Remedial investigations were recommended. RIRRAW (April 2010) – one soil sample was collected and analyzed for waste oil UST closure parameters (TPH-QAM025, TCL VO+10, TCL BN+20, PCBs, TAL metals). Results identified concentrations of select PAHs and metals >NJDEP's RDCSRS, NRDCSRS and/or IGWSSL. One monitoring well (MW-5-1) was installed in the location of LANGAN's soil boring P5-SB5 to confirm the previous exceedance of TBA identified within the groundwater sample collected from this location. One groundwater sample was collected and analyzed for TBA. Results were compliant of the NJDEP's GWQC. It should be noted that after the completion of the above investigation one of the ASTs was inadvertently punctured and oil was noted as running towards the storm drain. Surface soils were removed and disposed offsite but remedial investigations of storm drain are recommended at the point the drain is removed. The RAW stipulated that the storm water collection system and AST discharge would be investigated at the time the buildings were razed and the site redeveloped. The NJDEP on 1/23/2012.

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28	AOC23	Drainage system and area - Storm sewer collection system	Storm water collection system (Property No. 8)	Yes	RAW	4/1/2010			Soil	Pesticides			Remediation Standards							PA (Nov. 2008) - a storm water drain was observed east of the south gate in the parking lot for the bus yard. Asphalt staining was not identified around the storm water grate. It was believed that storm water discharged to the Jersey City combined sanitary sewer system. No further site investigations were recommended. SIR (Nov. 2008) - during LANGAN's site investigation they observed that the storm water collection system discharged off-site to the adjacent property to the east. It was recommended that surficial soil samples be collected at the discharge points. RIRRAW (April 2010) – geophysical investigation located discharge point of drains. Two soil samples were collected and analyzed for TPHC, TCL VO+10, TCL BN+15, TCL Metals, Pesticides, PCBs, hexavalent chromium, total cyanide, pH. Results identified dieldrin, PAHs and metals >NJDEP's RDCSRS, NRDCSRS and IGWSSL. It should be noted that with the exception of dieldrin the exceedances were judged to be associated with Historic Fill and will be investigated under this AOC-16: Historic Fill. The RAW stipulated the collection of one groundwater sample from monitoring well MW-8-1 for dieldrin to determine if the soil exceedance of dieldrin had impacted groundwater.
29	AOC24	Drainage system and area - Building floor drain and piping	Floor Drain (Property No. 5)	No	SI	4/1/2010			None	Not Applicable			Remediation Standards							PA (Oct. 2007) – LANGAN observed a floor drain in the auto repair garage used by Garfield Junkyard, Inc. No evidence of spills or releases was observed in the vicinity of the floor drain. The discharge point of the floor drain could not be confirmed during the site inspection. Site investigations were recommended. SIR (Nov. 2008) one soil sample was collected near the drain and analyzed for TPHC and hexavalent chromium. Results did not identify TPHC concentrations in excess of the NJDEP's TOCSCC of 10,000 mg/kg. As it was determined the drain connected with the exterior storm sewer, it was recommended that remedial investigations be conducted at the time the storm water detention basin was removed. RIRRAW (April 2010) - one soil sample was collected and analyzed for TPH-QAM025, TCL VO+10, TCL BN+20. Results identified concentrations of select PAHs >NJDEP's RDCSRS, NRDCSRS and/or IGWSSL. It should be noted that the concentrations of PAHs in soil were consistent with surrounding properties and these compounds were judged to be associated with Historic Fill and will be investigated under AOC-16: Historic Fill. The RAW stipulated that the storm sewer (AOC19) would be investigated at the time the buildings were razed and the site redeveloped. No further investigations were recommended.
30	AOC25	Other areas of concern - Any area suspected of containing contaminants	Boiler Room (Property No. 5)	No	SI	11/1/2008			None	Not Applicable			Remediation Standards							PA (Oct. 2007) – Mr. Rja stated that the building is heated via a 275-gallon heating oil AST and associated boiler. However, at the time of the site inspection, the entrance to the room was blocked by several cars that were in disrepair and the room could not be easily moved. Site investigations were recommended. SIR (Nov. 2008) - one soil sample was collected near the ASTs and analyzed for TPHC and hexavalent chromium. Results did not identify TPHC concentrations in excess of the NJDEP's TOCSCC of 10,000 mg/kg. One groundwater sample was collected from a temporary well point and analyzed for VO+10. Results identified TBA >NJDEP's GWQC. TBA is not a fuel oil component but standardly is a component of gasoline. No further investigations were recommended.
31	AOC26	Other areas of concern - Discolored area or spill area	Stained Areas (Property No. 5)	No	PA	11/1/2007			None	Not Applicable										PA (Oct. 2007) – LANGAN observed visible staining on concrete adjoining the two 275 gallon waste oil ASTs identified in AOC 6. The tanks and surrounding concrete appeared to be in fair condition, however, much of the concrete surrounding the tanks was obscured by various car parts and other debris. Site investigations were recommended but as these investigations paralleled the investigations conducted for AOC 6: Aboveground Storage Tanks (ASTs) the investigations will be presented under AOC 6. No further investigations were recommended for this AOC.
32	AOC27	Other areas of concern - Discolored area or spill area	Stained Areas (Property No. 6)	No	SI	4/1/2010			None	Not Applicable			Remediation Standards							PA (Oct. 2007) – LANGAN observed numerous small stains and one larger stain near the front entrance gate to the property. Site investigations were recommended. SIR (Nov. 2008) – two soil samples were collected and analyzed for TPHC with PP+40 or PP Metals. Results identified select PAHs and metals >NJDEP's IGWSSL and arsenic >NJDEP's RDCSRS, NRDCSRS and IGWSSL. RIRRAW (April 2010) – one surficial soil sample was collected in the location presented in LANGAN's SIR as having staining. The sample was analyzed for EPH-DRO with contingent analysis of waste oil tank closure parameters TCL VO+10, TCL BN+20, PCBs and TAL metals. Results identified select PAHs and metals >NJDEP's IGWSSL and arsenic >NJDEP's RDCSRS, NRDCSRS and IGWSSL. It should be noted that as no exceedances of fuel oil or gasoline related compounds (typical of an auto salvage) were identified above the NJDEP's SRS and the concentrations of PAHs and metals in soil were consistent with surrounding properties, these compounds were judged to be associated with AOC4 Historic Fill. No further remediation was recommended
33	AOC28	Other areas of concern - Any area suspected of containing contaminants	Unidentified Pipe (Property No. 3)	No	SI	11/1/2008			None	Not Applicable										PA (Oct. 2007) – during the LANGAN site visit a pipe was observed on the southwestern boundary of Lot 25B. It use was unknown. Site investigations were recommended. SIR (Nov. 2008) – the piping was tracked to a UST and will be investigated under AOC6: Underground Storage Tanks (USTs) (Property No. 3). No further investigation is recommended for this AOC.

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34	AOC29	Other areas of concern - Hazardous substance storage or handling area	Unknown container/55-gallon drums (Property No. 5)	No	SI	11/1/2008			None	Not Applicable			Remediation Standards							PA (Nov. 2008) - LANGAN observed five drums in a storage trailer and one drum containing unknown substance on the south side of the storage trailer. Five empty drums labeled Daxad 30 were observed between the two offices and one empty drum in the northeast corner of the Site. No evidence of spills or releases was observed in the vicinity of the drums. Site investigations were recommended near the storage trailer, and proper disposal of the remaining drums was recommended. SIR (Nov. 2008) - one soil sample was collected near the storage shed and analyzed TPHC, hexavalent chromium, and PP+40. No impacts related to the hazardous materials storage were detected in the soil sample. No further remediation was recommended.
35	AOC30	Other areas of concern - Any area suspected of containing contaminants	Concrete slab/patches (Property No. 1)	No	SI	4/1/2012			None	Not Applicable			Remediation Standards							PA (March 2012) - Several concrete slabs/patches were present during the site reconnaissance. One was believed to be for the former heating oil AST. No evidence of a discharge was noted on or around the concrete. Four slabs were present and believed to be installed as a pad for the four storage containers (shipping containers) on site. No site investigations were recommended for these concrete slabs. Two additional concrete slabs were noted, one in the north corner and the second along the eastern side of Property No.1. Their previous use is unknown, site investigations are recommended. SIRRAW (April 2012) - On June 2, 2010, soil boring SB-1 was advanced to investigate the concrete pad at the north corner of the Site and SB-3 was advanced to investigate the concrete pad along the east side of the site. Samples were analyzed for TCL-VO+10, TCL-BNA+20, PCBs, Pesticides, TAL Metals, hexavalent chromium and TPHC in soil sample SB-3. Results identified concentrations of PAHs >NJDEP's RDCSRS, NRDCSRS and/or IGWSSL and select metals >NJDEP's IGWSSL. One temporary well was installed within soil boring SB-1 and a groundwater samples was collected and analyzed for TCL-VO+10, TCL-BNA+20, PCBs, Pesticides, TAL Metals, hexavalent chromium. Results identified concentrations of select metals >NJDEP's GWQC. Based upon the results of the above investigation it was judged that these exceedances were related to AOC4 Historic Fill. No further remediation was warranted The NJDEP approved the investigations.
36	AOC31	Storage tank and appurtenance - Above ground storage tank	One 275-gallon unregulated waste oil AST (Property 7)	Yes	RAW	8/18/2011			Soil	PCBs	EPH		Remediation Standards							PA (October 2007) - One (1) 275 gallon AST was observed with minor staining. Site investigations were recommended. SI (August 2009) - Results identified concentrations of PCBs which exceeded NJDEP's SRS and TPH exceeded NJDEP's TOCSCC. Further investigations recommended. RI (March 2011) - 16 soil samples were analyzed to delineate PCBs. PCBs were not detected above the NJDEP RDCSRS, NRDCSRS or IGWSSL in any sample. Further investigations of PCBs was not warranted. It is recommended that the PCBs be addressed via the implementation of a Deed Notice. 19 soil samples were collected and analyzed to delineate TPH. TPH exceeding 5,100 mg/kg was vertically and horizontally delineated; further investigations are not warranted. Since the proposed end use of the Site is park (ie a non residential use) and since TPH concentrations did not exceed the NJDEP NRDCSRS of 54,000 mg/kg, it was recommended that the exceedances of the RDCSRS be addressed via the implementation of a Deed Notice. NJDEP approved the RAW on 08/18/2011.
37	AOC32	Storage tank and appurtenance - Federal Regulated Under ground storage tank	Historic Operation/Underground Storage Tanks (Property 7)	Undetermined	SI	8/18/2011														PA (October 2007) - Three (3) vent pipes identified. Further investigations recommended. SI (August 2009) - Results from soil samples (PF-2 and PF-3) and groundwater sample (PZ-3) revealed arsenic and lead above the NJDEP GWQS. Analysis identified impacts likely associated with AOC4 Historic Fill. According to the previous owner, five (5) USTs were previously removed. No documentation (i.e. reports laboratory analysis) except for an invoice was obtained. Further investigations recommended. RI/RAW (March 2011) - Closure to be addressed in a future submittal. NJDEP approved the RAW on 08/18/2011.
38	AOC33	Other areas of concern - Any area suspected of containing contaminants	Adjoining Properties (Property 7)	No	SI	8/18/2011			None	Not Applicable			Remediation Standards							PA (October 2007) - Adjacent property, Gipson & Sons, Inc., is identified as a UST site. SI (August 2009) - Results from soil sample (PF-1, PF-5 and PF-6, PF-7) analysis did not identify any impacts that are not related to the presence of Historic Fill and/or adjoining properties. No further investigation is recommended. Groundwater sample (PZ-6) analysis identified arsenic and lead above the NJDEP GWQS. The groundwater contamination is likely attributable to regional groundwater contamination associated with fill material. No further investigation recommended. NJDEP approved the RAW on 08/18/2011.
39	AOC34	Other areas of concern - Discolored area or spill area	Angela's Auto Repair Garage/Staining (Property 7)	No	SI	8/18/2011			None	Not Applicable			Remediation Standards							PA (October 2007) - Observed concrete staining within the agarage and around two (2) 55-gallon drums of oil and one (1) hydraulic lift. Further investigations recommended. SI (August 2009) - Results from soil sample (PF-2 and PF-3) analysis did not identify any impacts that are not related to the presence of Historic Fill and/or Angela's Auto Repair Garage. No further investigation is recommended. Groundwater sample (PZ-3) analysis identified arsenic and lead above the NJDEP GWQS. The groundwater contamination is likely attributable to regional groundwater contamination associated with fill material. No further investigation recommended. NJDEP approved the RAW on 08/18/2011.
40	AOC35	Other areas of concern - Any area suspected of containing contaminants	Fire Damage (Property 4)	No	SI	7/15/2010			None	Not Applicable			Remediation Standards							PA (October 2007) - Observed the southern half of building appeared to have been involved in a fire. Due to the nature of operations at the time (auto repair), the site may have been impacted as a result of historic operations and subsequent fire. Further investigations recommended. SI November 2008 - Results from soil sample (P4-SB4) indicated no impacts from the fire or operations, however samples were not collected directly beneath the garage. RI/RAW April 2010 Results from soil sample (SB-4-1 through SB-4-7) analysis did not identify any impacts that are not related to the presence of Historic Fill. No further investigations recommended. NJDEP approved the RAW on 07/15/2010.

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41	AOC36	Storage tank and appurtenance - Federal Regulated Under ground storage tank	One 3,000 Gallon Leaded/Unleaded Gasoline UST (Property 4)	Yes	RAR	7/18/2014			Soil	VO			Remediation Standards			Capping				UST Closure Report/RI/RAR (August 2014) - During grading operations, one (1) 3,000 Gallon UST was discovered. UST was removed on 3/25/2013. GC Fingerprint revealed tank contents as "a very close match to gasoline standards". Four (4) sidewall samples collected and analyzed for TCL VO+10, TBA, and total lead. Results revealed VO < NJDEP's RDCSRS/NRDCSRS; benzene and total xylenes >IGWSSL. These exceedances have been horizontally delineated using existing soil sample data generated during previous investigations. Total lead >NJDEP SRS. Lead exceedances are judged to be associated with historic fill and will be addressed via engineering and institutional controls. One (1) monitoring well, MW-4-UST6-1, was installed to investigate groundwater quality. Samples analyzed for TCL VO+15 and SVOC+15. Results were compliant of the NJDEP's GWQS for Class IIA aquifers. No further remediation warranted.
42	AOC 37	Storage tank and appurtenance - Unregulated Under ground storage tank	One 1,000 Gallon No.2/No.4 Heating Oil UST (Property 4)	No	SI	7/18/2014			None	Not Applicable			Remediation Standards							UST Closure Report/RI/RAR (August 2014) - During grading operations, one (1) 1,000 Gallon heating oil UST was discovered. UST was removed on 3/25/2013. GC Fingerprint revealed tank contents as "was very faint. Possible fuel oil, maybe fuel oil #2 and #4". Three (3) centerline samples were collected and analyzed for EPH (category2), with a contingency to analyze for naphthalene and 2-methylnaphthalene and PAHs. Results revealed EPH < 1,700 mg/Kg. Inadvertent contingent analysis revealed PAH >NJDEP RDCSRS, NRDCSRS and IGWSSL. PAH exceedances are judged to be associated with historic fill and will be addressed via engineering and institutional controls. No further investigation recommended.
43	AOC38	Other areas of concern - Any area suspected of containing contaminants	Historic Operations Historical Cleaners (Property 4)	No	SI	11/1/2008			None	Not Applicable			Remediation Standards							PA (October 2007) - Sanborn maps reviewed for the Site depict it was owned and operated by Standard Laundry. SI (November 2008) - Two soil samples were collected (P4-SB2 and P4-SB3) and analyzed for TPH, Cr6 and PP+40. Results revealed TPH < 1,700 mg/Kg; Cr6 not detected; Pesticides and PCBs < SRS; lead (P4-SB3 (3.0-4.0) > SRS; lead (P4-SB2) < SRS; other metals (P4-SB2 and P4-SB3) < SRS; VOCs (P4-SB2 and P4-SB3) < SRS; PAHs (P4-SB3) > SRS; PAHs (P4-SB2) < SRS. Investigations did not identify any Historical Cleaners impacts. No further investigation recommended.
44	AOC39	Other areas of concern - Any area suspected of containing contaminants	Site Operations (Property 4)	No	SI	7/15/2010			None	Not Applicable			Remediation Standards							PA (October 2007) - At the time of inspection, the subject property had insufficient lighting to assess the site for the presence of hazardous and petroleum products. SI (November 2008) - Two soil samples were collected (P4-SB3 (10.0-11.0) and P4-SB4) and analyzed for TPH, Cr6 and/or PP+40. Results revealed TPH < 1,700 mg/Kg; Cr6 (P4-SB4, 3.5-4.0) > non-residential SCC; Cr6 (P4-SB3 (10.0-11.0) not detected ; Pesticides and PCBs < SRS; Metals < SRS; VOCs < SRS; SVOCs < SRS. Sample P4-SB3 and P4-SB4 indicated no impacts from former site operations; however, samples were not collected beneath the slab. Further investigations recommended. RI/RAW (April 2010) Soil and groundwater investigations below the concrete slab did not identify contaminants in excess of NJDEP's SRS not attributed to Historic Fill. No further investigation recommended. The NJDEP approved the RAW on 07/15/2010.
45	AOC40	Other areas of concern - Any area suspected of containing contaminants	Waste and Debris Piles (Property 10)	No	SI	5/1/2012			None	Not Applicable			Remediation Standards							PA (February 2006) - Multiple waste piles identified. Surficial sampling recommended if evidence of impact observed. SI/RI/RAW (April 2012) - No impacts from Waste and Debris Piles identified during the site investigation. No further investigation recommended.The NJDEP approved the RAW on 05/01/2012.
46	AOC41	Storage and staging area - Storage pad and area	Drums (Property 10)	No	SI	5/1/2012			None	Not Applicable			Remediation Standards							PA (February 2006) - Several drums observed on site. Surficial sampling recommended if evidence of impact observed during site investigation. SI/RI/RAW (April 2012) - No impacts from Drums identified during site investigations. The NJDEP approved the RAW on 05/01/2012
47	AOC42	Storage tank and appurtenance - Silo	Silos (Property 10)	No	SI	5/1/2012			None	Not Applicable			Remediation Standards							PA (February 2006) - Sampling of remaining debris inside silos is recommended. SI/RI/RAW April 2012 - Soil and groundwater samples analyzed for PAHs and TPH did not report impacts from Silos. No further investigation recommended. The NJDEP approved the RAW on 05/01/2012
48	AOC43	Other areas of concern - Any area suspected of containing contaminants	Unknown Pipe (Property 10)	No	SI	5/1/2012			None	Not Applicable			Remediation Standards							PA (February 2006) - Pipe removal and surficial sampling recommended if evidence of impact observed. SI/RI/RAW April 2012 - Soil samples analyzed for PAHs and TPH did not report impacts from Unknown Pipe. No further investigation recommended. The NJDEP approved the RAW on 05/01/2012.
49	AOC44	Other areas of concern - Any area suspected of containing contaminants	Railroads (Property 10)	No	SI	5/1/2012			None	Not Applicable			Remediation Standards							PA (February 2006) - Sampling beneath the former railroad lines is recommended. SI/RI/RAW April 2012 - Soil and groundwater samples analyzed for Cr6, PAHs, total metals, and PP+40 did not report impacts traditionally associated with rail road operation. No further investigation recommended. The NJDEP approved the RAW on 05/01/2012
50	AOC45	Other areas of concern - Any area suspected of containing contaminants	Concrete Ring (Property 10)	No	SI	5/1/2012			None	Not Applicable			Remediation Standards							PA (February 2006) - Sampling beneath the concrete ring is recommended if evidence of impact observed. SI/RI/RAW April 2012 - Soil samples analyzed for PP+40 did not report impacts from the Concrete Ring. No further investigation recommended. The NJDEP approved the RAW on 05/01/2012

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51	AOC46	Drainage system and area - Building floor drain and piping	Sump Pump Tube (Property 10)	No	SI	5/1/2012			None	Not Applicable			Remediation Standards							PA (February 2006) - Discharge tube of a sump, no visual evidence of a discharge was observed. Sampling beneath the discharge is recommended. SI/RI/RAW April 2012 - Soil sample analyzed for PP+40 did not report impacts from Sump Pump Tube. No further investigation recommended. The NJDEP approved the RAW on 05/01/2012
52	AOC47	Other areas of concern - Any area suspected of containing contaminants	Unknown Container (Property 10)	No	SI	5/1/2012			None	Not Applicable			Remediation Standards							PA February 2006 - Yellow container observed on ground surface. No visual evidence of a discharge was observed. Sampling beneath the discharge is recommended if evidence of impact is observed. SI/RI/RAW April 2012 - Soil sample analyzed for Cr6, PAHs, and total metals did not report impacts from Unknown Container. No further investigation recommended. The NJDEP approved the RAW on 05/01/2012
53	AOC48	Storage tank and appurtenance - Rail car	Finch Oil Site - Rail Cars (Property 10)	No	SI	5/1/2012			None	Not Applicable			Remediation Standards							PA (February 2006) - Former industrial operations onsite were serviced by rail spurs. Further investigations recommended. SI/RI/RAW April 2012 - Soil and groundwater samples analyzred for Cr6, PAHs, total metals and PP+40 did not report impacts traditionally associated with railroad operations. No further investigation recommended. The NJDEP approved the RAW on 05/01/2012.
54	AOC49	Storage tank and appurtenance - Federal Regulated Under ground storage tank	Finch Oil Site - Underground Storage Tanks (Property 10)	No	SI	5/1/2012			None	Not Applicable			Remediation Standards							PA (February 2006) - NJDEP records confirm the removal of two (2) 10,000 gallon USTs. September 1996 G&M report indicated that soil and groundwater samples were below the NJDEP criteria and recommended No Further Action. No NJDEP documentation supporting this recommendation were found and discussion with NJDEP indicated case was open. Further investigations recommended. SI/RI/RAW April 2012 - Geophysical investigation and soil samples analyzed for PAHs and TPH did not report impacts from USTs. No further investigation recommended. The NJDEP approved the RAW on 05/01/2012.
55	AOC50	Other areas of concern - Other discharge area	Finch Oil Site - Oil Pit (Property 10)	No	SI	5/1/2012			None	Not Applicable			Remediation Standards							PA (February 2006) - NJDEP inspectors identified a 20 foot by 30 foot concrete pit filled with dark oily liquid near the foot of Berry Lane Road. Further investigations recommended. SI/RI/RAW April 2012 - A geophysical survey concluded that anomaly A-3 corresponds to a cement foundation of unknown origin. No impacts from the Oil Pit identified during site investigations. No further investigation recommended. The NJDEP approved the RAW on 05/01/2012.
56	AOC51	Other areas of concern - Discolored area or spill area	Finch Oil Site - Spill Areas (Property 10)	No	SI	5/1/2012			None	Not Applicable			Remediation Standards							PA (February 2006) - Heavily contaminated soil was observed by NJDEP inspectors. Internal NJDEP memo from 1988 confirmed the removal of oil contaminated soil on part of the site. However, no records finalizing the cleanup could be found. Further investigations recommended. SI/RI/RAW April 2012 - Soil sample analyzed for PP+40 did not report impacts from Spill Area. No further investigation recommended. The NJDEP approved the RAW on 05/01/2012.
57	AOC52	Other areas of concern - Any area suspected of containing contaminants	Finch Oil Site - Drums (Property 10)	No	SI	5/1/2012			None	Not Applicable			Remediation Standards							PA (February 2006) - Government records reported one (1) drum of Fenocil containing pentachlorophenol. The drum was approved for off site incineration. No further documentation supporting removal found. SI/RI/RAW April 2012 - Groundwater samples analyzed for PP+40 and Cr6 did not report impacts from Drums. No further investigation recommended. The NJDEP approved the RAW on 05/01/2012
58	AOC53	Other areas of concern - Other discharge area	Finch Oil Site - Loading/Unloading Areas (Property 10)	No	SI	5/1/2012			None	Not Applicable			Remediation Standards							PA (February 2006) - Historical operations included the transfer of coal and fuel oil locomotives from above ground and subsurface storage structures. Further investigations recommended. SI/RI/RAW April 2012 - Soil and groundwater samples analyzed for Cr6, PAHs, total metals, TPH, and PP+40 did not report impacts from Loading/Unloading Areas. No further investigation recommended. The NJDEP approved the RAW on 05/01/2012
59	AOC54	Environmental media - Media Ground water	Finch Oil - Groundwater (Property 10)	No	RI	5/1/2012			None	Not Applicable			Remediation Standards							PA February 2006 - Historical investigations found evidence of dissolved phase contamination. Further investigations recommended. SI/RI/RAW April 2012 - Soil and groundwater investigations revealed the presence of PAHs and metals. Dieldrin was identified at PZ-20 in excess of the NJDEP GWOC. Results from MW-10-1, installed in the location of PZ-20, did not reveal any exceedances. Dieldrin exceedance attributed with turbidity. No further investigation recommended. The NJDEP approved the RAW on 05/01/2012
60	AOC55	Storage tank and appurtenance - Above ground storage tank	Above Storage Tanks and Associated Piping (Property 9)	No	PA	10/1/2007			None	Not Applicable			Remediation Standards							PA October 2007 - Two (2) 275 gallon aboveground storage tanks observed within the building. One labeled motor oil and the second labeled hydraulic oil. No visual staining or evidence of release observed during the site investigation. No further investigation recommended.
61	AOC56	Other areas of concern - Any area suspected of containing contaminants	Soild Waste Storage (Property 9)	No	PA	10/1/2007			None	Not Applicable			Remediation Standards							PA (October 2007) - Refuse disposed in dumpster. No visible staining was observed. No further investigation recommended.
62	AOC57	Other areas of concern - Any area suspected of containing contaminants	55-Gallon Drum in Warehouse (Property 9)	No	PA	10/1/2007			None	Not Applicable			Remediation Standards							PA (October 2007) - One 55 gallon drum of lubricating oil was observed within warehouse. No staining observed around the drum. The drum was on a pallet and concrete staining was not observed. No further investigation recommended.
63	AOC58	Other areas of concern - Any area suspected of containing contaminants	Historic Boiler Building (Property 9)	No	PA	10/1/2007			None	Not Applicable			Remediation Standards							PA (October 2007) - Boiler storage building depicted in 1896 Sanborn Map. Sometime between 1911 amd 1930 the original structure was demolished. No evidence of the original structure was observed during the site inspection. No further investigation recommended.

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64	AOC59	Drainage system and area - Building sump and pit	Sump Pump Near Loading Dock (Property 9 )	No	SI	11/1/2008			None	Not Applicable			Remediation Standards							Phase 1 (October 2007) - Sump located in the loading dock area was observed discharging to the adjoining property. Further investigations recommended. SI November 2008 - Soil and groundwater samples analyzed for TPH,Cr6 and PP+40 did not did not identify impacts associated with the Sump Pump. No further investigations recommended.
65	AOC60	Other areas of concern - Other discharge area	Unidentified 2-inch Pipe (Property 9)	No	SI	11/1/2008			None	Not Applicable			Remediation Standards							Phase 1 (October 2007) - 2 inch drain system pipe. Termination point could not be identified. Further investigations recommended. SI November 2008 - Soil and groundwater samples analyzed for Cr6 and VOCs did not identify impacts associated with the Unidentified 2-inch Pipe. The pipe was determined to be associated with a roof leader. No further investigation warranted.
66	AOC61	Other areas of concern - Other discharge area	Historic Operations (Property 9)	No	SI	11/1/2008			None	Not Applicable			Remediation Standards							PA (October 2007) - Historically the site was an industrial warehouse used by A.A. Griffin Iron Co. The site contained a full service rail spur. Railroads commonly used pesticides to control vegetative growth. Further investigations recommended. SI November 2008 - Soil and groundwater samples did not did not identify impacts associated with Historic Operations. No further investigation warranted.
67	AOC62	Other areas of concern - Other discharge area	Woodward Metal Processing (Property 9)	No	SI	11/1/2008			None	Not Applicable			Remediation Standards							Phase 1 (October 2007) - Woodward Metal Processing (adjoining site) crushed junk cars and fluids were allowed to drain to site soils. Further investigations recommended. SI November 2008 - Soil samples analyzed for TPH, Cr6 and PP+40 did not did not identify impacts associated with Woodward Metal Processing. No further investigation recommended.
68	AOC63	Storage tank and appurtenance - Federal Regulated Under ground storage tank	Two (2) 3,000 Gallon No. 2 Fuel Oil Underground Storage Tanks (USTs) (Property 9)	Yes	SI	12/22/2011	10-07-08-0857-58		Mixed Media	VO + BN			Remediation Standards							UST SI(August 2011) - UST and associated piping removed 7/7/2010. Four (4) sidewall samples collected and analyzed for Total Petroleum Hydrocarbons (TPH) with a contingency to analyze for 2-Methylnaphthalene and Naphthalene. 2-Methylnaphthalene and Naphthalene were identified >NJDEP RDCSRS and IGWSSL, subsequently they were delineated to the RDCSRS and IGWSSL. No further investigations recommended. The NJDEP issued an UST Closure Report Approval -Soils Only Letter date 12/22/2011 which approved the use of an eng. and institutional control to address remaining soil contamination. MW-9-3 revealed VOCs and SVOCs >NDJEP GWQC. CEA to be addressed in a future submittal.
69	AOC64	Other areas of concern - Other discharge area	One (1) Inch Steel Plate (Property 12)	No	SI	5/1/2012			None	Not Applicable			Remediation Standards							PA (February 2006) - It was recommended that an inspection of the area beneath the plate be conducted. SI/RI/RAW April 2012 - Soil samples analyzed for PCBs and metals did not identify impacts associated with the one inch steel plate. No further investigation recommended. The NJDEP approved the RAW on 05/01/2012
70	AOC65	Other areas of concern - Other discharge area	Woodward Metal Processing (Property 12)	Yes	RAW	5/1/2012			Mixed Media	PCBs			Remediation Standards	Ground Water						PA (February 2006) - Sampling below the concrete slab is recommended. SI/RI/RAW (April 2012) - Exceedances of PCBs were detected in soil and groundwater (PZ-22) samples. MW-12-1 revealed no concentration of PCBs above their respective NJDEP GWQC. Removal of PCB impacted soil greater than 10.0 mg/Kg and disposal at an appropriate off-site facility is recommended. PCBs below 10 mg/Kg will be reused on site. A groundwater sample was not collected from MW-12-2 as a result of Light Non-Aqueous Liquid (LNAPL). The NJDEP approved the RAW on 5/1/2012. LNAPL Interim Remedial Measures Report submitted to NJDEP in August 2014.
71	AOC66	Storage tank and appurtenance - Unregulated Under ground storage tank	One 550 Gallon Heating Oil UST (Property 7)	Yes	RAR	9/17/2014	12-08-23-1026-50		Soil	EPH			Remediation Standards	Ingestion/Dermal		Excavation				UST Closure Report/RI/RAR (August 2014) - During the remediation phase as part of the redevelopment of Berry Lane Park, one (1) 550 Gallon UST was discovered during earthwork activities. UST was removed on 8/23/2012. Soil withing the base, northern and southern walls was visibly impacted, the excavation was extended vertically and horizontally. Four (4) sidewall samples collected and analyzed for Extractable Petroleum Hydrocarbons (EPH) with a contingency to analyze for 2-Methylnaphthalene and Naphthalene. Results revealed post excavation samples < EPH Soil Remediation Criterion of 5,100. Sample W-1-5.0 > 1,000 mg/Kg for EPH SRC, triggering contingent analysis for 2-methylnaphthalene and Naphthalene. Contingent results compliant with NJDEP SRS. Monitoring well MW-7-UST1 was installed and sampled for TCL VO+15 and TCL SVOC+15. No contaminants >NJDEP GWQC were identified which were associated with the tank. No further remediation is warranted.
72	AOC67	Storage tank and appurtenance - Federal Regulated Under ground storage tank	One 550 Gallon Gasoline/Diesel Fuel UST (Property 7)	No	SI	9/17/2014							Remediation Standards							UST Closure Report/RI/RAR (August 2014) - During the CCPW remediation phase within the Morris Canal, one (1) 550 Gallon UST was discovered during earthwork activities. UST was removed on 9/21/2012. GC Fingerprint revealed tank contents as "gasoline and fuel oil". Two (2) centerline samples collected and analyzed for TCL-VO+10, TBA, total lead, EPH (category 2) with a contingency to analyze for 2-Methylnaphthalene and Naphthalene. Results revealed UST2-S < 1,000 mg/Kg for EPH; UST2-N > 1,700 mg/Kg. Fractionation of UST2-N did not exceed residential or non-residential using the NJDEPs EPH SRC calculator for Non No. 2 Fuel Oil. No VOCs identified. Lead > NJDEP RDCSRS and IGWSSL in all three samples. Lead exceedances associated with historic fill and will be addressed via engineering and institutional controls. No further investigation recommended.



	A	B	D	E	F	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	Case Name: Berry Lane Park																			
2	PI #: 568229																			
3	IMPORTANT: Do not copy and paste into more than 1 cell at a time because it can disrupt hidden equations																			
4	Case Inventory Document Version 1.3 06/25/14																			
5	AOC ID	AOC Type	AOC Details	Confirmed Contamination	AOC Status	Status Date	Incident #	DEP AOC Number	Contaminated Media	Contaminants of Concern	Additional Contaminants of Concern	Additional Contaminants of Concern	Applicable Remediation Standard	Exposure Route	Additional Exposure Route	RA Type	Additional RA Type	Additional RA Type	Was an Order of Magnitude Evaluation Conducted?	Activity
73	AOC68	Storage tank and appurtenance - Federal Regulated Under ground storage tank	Two 550 Gallon Waste Oil USTs (Property 7)	No	SI	9/17/2014							Remediation Standards							UST Closure Report/RI/RAR (August 2014) - During the CCPW remediation phase within the Morris Canal, two (2) 550 Gallon USTs were discovered during earthwork activities. USTs were removed on 9/27/2012. GC Fingerprint revealed tank contents as "a mixture of gasoline and motor oil". Two (2) centerline samples collected per tank and analyzed for EPH (category 2) with a contingency to analyze for TCL VO+10, TCL SVO, PCBs and TAL Metals. UST-3 results revealed EPH < 1,700 mg/Kg; sample Prop7_UST_3_2 was analyzed for contingent analysis. Results revealed PAHs and select metals > NJDEP SRS. UST-4 results revealed EPH < 1,700 mg/Kg; sample Prop7_UST_4_1 was analyzed for contingent analysis. Results revealed PAHs and select metals > NJDEP SRS. Exceedances associated with historic fill and will be addressed via engineering and institutional controls. No further investigation recommended.
74	AOC69	Storage tank and appurtenance - Unregulated Under ground storage tank	One 550 Gallon Heating Oil UST (Property 3)	Yes	RI	9/17/2014			Soil	EPH			Remediation Standards	Ingestion/Dermal						UST Closure Report/RI/RAR (August 2014) - During the remediation phase as part of the redevelopment of Berry Lane Park, one (1) 550 Gallon No. 2 heating oil UST was discovered during earthwork activities. UST was removed on 11/7/2011.Two (2) centerline soil samples collected and analyzed for Extractable Petroleum Hydrocarbons (EPH) with a contingency to analyze for 2-Methylnaphthalene and Naphthalene. Results revealed concentrations >EPH Residential Soil Remediation Criterion of 5,100 but < Non-Residential SRC of 54,000 and Residential Product/Free Product Limit of 8,000 mg/kg. EPH delienated through existing borings. Contingent analysis of naphthalene & 2-methylnaphthalene were compliant of NJDEP's SRS. Deed Notice to include EPH >NRDCSRS. Monitoring well MW-3-UST5-1 was installed and sampled for TCL VO+15 and TCL SVOC+15. No contaminants >NJDEP GWQC were identified which were associated with the tank.



# CASE INVENTORY DOCUMENT

## FIGURE TABLE

AOC ID	AOC DETAILS
AOC1	Former Morris Canal
AOC2	Chromium Site 121
AOC3	Chromium Site 207
AOC4	Historic Fill (All Properties)
AOC11	Previous Site Operations - McConnel Coal and Oil and Roberto's Boat Repair (Property
AOC12	Previous Site Operations - Historical Cleaners (Property No. 3)
AOC13	Previous Site Operations - Automotive Salvage Yard (Property No. 3)
AOC14	Previous Site Operations - Automotive Salvage Yard (Property No. 5)
AOC16	Potentially hazardous materials (auto paints, reducers, etc..) (Property No. 5)
AOC17	Adjacent Properties (Property No. 1)
AOC18	Adjacent Properties (Property No. 8)
AOC20	Current Site Operations - Garfield Junk Yard (Property No. 6)
AOC21	Railroads/Rail Tracks (Property No. 1)
AOC33	Adjoining Properties (Property 7)
AOC34	Angela's Auto Repair Garage/Staining (Property 7)
AOC38	Historic Operations Historical Cleaners (Property 4)
AOC39	Site Operations (Property 4)
AOC44	Railroads (Property 10)
AOC49	Finch Oil Site - Underground Storage Tanks (Property 10)
AOC51	Finch Oil Site - Spill Areas (Property 10)
AOC52	Finch Oil Site - Drums (Property 10)
AOC53	Finch Oil Site - Loading/Unloading Areas (Property 10)
AOC54	Finch Oil - Groundwater (Property 10)
AOC58	Historic Boiler Building (Property 9)
AOC61	Historic Operations (Property 9)
AOC62	Woodward Metal Processing (Property 9)
AOC65	Woodward Metal Processing (Property 12)



