

## Regulatory Forms

- Case Inventory Document (CID)
- Cover/Certification Form

Garfield Avenue Group Chrome Sites - Forrest Street and Forrest Street Properties

Case Name: 775706  
PI #:

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Case Inventory Document Version 1.4 02/23/17

AOC ID	AOC Type	AOC Description	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
AOC FS-1A	Environmental media - Media Soil, including soil vapor pore spaces	Chromate Chemical Production Waste (CCPW)-impacted material likely used as fill within Forrest Street Excavation Area	Yes	RAR	9/11/2019			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Excavation				<p>This AOC covers the Forrest Street Excavation Area where remedial excavation was completed in 2017. Hexavalent chromium (Cr+6) and Chromate Chemical Production Waste (CCPW) metals (antimony, chromium, nickel, thallium, and vanadium) are the primary constituents of concern (COCs) in the area. Remedial investigation of Forrest Street and Forrest Street Properties (FSP) was documented in the 2012 Remedial Investigation Report (RIR) and the 2018 Supplemental Soil Remedial Investigation Report (SSRIR). Delineation is complete for Cr+6 and CCPW metals.</p> <p>For the Garfield Avenue (GA) Group sites and adjacent areas (including Forrest Street and Forrest Street Properties), the New Jersey Department of Environmental Protection (NJDEP) approved an Alternative Remedial Standard (ARS) for vanadium (V) of 390 milligrams per kilogram (mg/kg) for use in place of the Residential Direct Contact Soil Remediation Standard (RDCSRS). Synthetic Precipitation Leaching Procedure (SPLP) was used to calculate site-specific Impact to Groundwater Soil Remediation Standards (IGWSRS) for antimony (Sb) and nickel (Ni), as approved by NJDEP on October 22, 2018. The site-specific IGWSRS for Sb and Ni are 62.7 mg/kg and 170 mg/kg, respectively.</p> <p>The April 2012 Draft Remedial Action Work Plan (RAWP) (Soil), Revision 2, for the GA Group, presented the plan for excavation and disposal of accessible source material and impacted soil, in accordance with the Chromium Policy, as the selected remedial action. The Draft RAWP was conditionally approved by the NJDEP. The Final RAWP (Soil) Rev. 4 was submitted in September 2018 and approved by NJDEP on November 9, 2018. Within this AOC, target excavation elevations for the removal of CCPW and COCs in soil were presented in memoranda from PPG to NJDEP between December 2016 and August 2017.</p> <p>The excavation of chromium-impacted soil and the placement of clean backfill in AOC FS-1A began in June 2017 and was completed in August 2017. Additional clean backfill was also placed in AOC FS-1A in January and February 2018 for restoration purposes. Clean fill for a majority of the site was amended with FerroBlack-H. Restoration of AOC FS-1A was completed in June 2018. Remediation of this AOC is documented in the September 2019 Final Remedial Action Report (RAR) for Forrest Street (2019 FS RAR).</p>
AOC FS-2A	Environmental media - Media Soil, including soil vapor pore spaces	Soil impacted by manufactured gas plant (MGP)-constituents emanating from Site 114 within Forrest Street Excavation Area	Yes	RAR	9/11/2019			Soil	VO + PAHs			Remediation Standards	Ingestion/Dermal	Inhalation	Excavation	Capping	Institutional Control		<p>This AOC covers the Forrest Street Excavation Area where remedial excavation was completed in 2017. MGP-related constituents including benzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, and naphthalene have been determined to be emanating from Site 114 onto the western portions of Forrest Street. Remediation of these compounds (where it has been determined that they are emanating from Site 114) is being addressed under the Administrative Consent Order (ACO) and Judicial Consent Order (JCO).</p> <p>The excavation of chromium-impacted soil between June 2017 and August 2017 was the first phase of remediation for MGP-impacts in AOC FS-2A. Benzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, and naphthalene remain in place at concentrations greater than the Soil Remediation Standards (SRS) and are being addressed via engineering controls (High-Density Polyethylene [HDPE] Liner or Clean Fill Soil Cap) and institutional controls (notice in lieu of deed notice). Remediation of this AOC is documented in the 2019 FS RAR for information purposes only.</p> <p>Benzene, benzo(a)anthracene, and benzo(a)pyrene remain in place at concentrations greater than the SRS and/or the Default Impact to Groundwater Soil Screening Level (DIGWSSL) at the eastern end of Forrest Street (in Grids FF9B and HH8B). It has been determined that these exceedances are not emanating from Site 114, nor are they attributable to MGP impacts; therefore, they do not fall under the purview of the ACO and JCO.</p>
AOC FS-1B	Environmental media - Media Soil, including soil vapor pore spaces	CCPW-impacted material likely used as fill within Forrest Street Utility Offset located in the Forrest Street Right of Way	Yes	RAR	9/11/2019			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Capping		Institutional Control		<p>This AOC covers the portion of the Forrest Street Utility Offset located in the Forrest Street Right of Way where remediation was completed in 2018. Cr+6 and CCPW metals are the primary COCs in the area. Remedial investigation of Forrest Street and adjacent properties was documented in the 2012 RIR and the 2018 SSRIR. Delineation is complete for Cr+6 and CCPW metals.</p> <p>The V ARS and the Sb and Ni site-specific IGWSRSs also apply in AOC FS-1B.</p> <p>The November 2019 Remedial Action Work Plan for Current Use of Forrest Street and Forrest Street Properties (Soil), Final Revision 1 (Final Forrest RAWP [Revision 1]) presented the plan for preventing direct contact with, ingestion of, and inhalation of CCPW impacts through the use of engineering controls, institutional controls, and a corresponding Remedial Action Permit (RAP) within this area. The proposed plan presented in the Forrest RAWP for this AOC was conditionally approved verbally by the NJDEP and the property owner on November 9, 2017 as documented in the November 2017 Summary of Proposed Forrest Street Restoration Activities technical memorandum.</p> <p>Due to this AOC's close proximity to the 86/90 and 98/100 Forrest Street buildings, and to protect the existing nearby subsurface utilities, this AOC was remediated via engineering controls (HDPE Liner) and institutional controls (notice in lieu of deed notice). Remediation of this AOC is documented in the 2019 FS RAR.</p>

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AOC FS-2B	Environmental media - Media Soil, including soil vapor pore spaces	Soil impacted by MGP-constituents emanating from Site 114 within Forrest Street Utility Offset located in the Forrest Street Right of Way	Yes	RAR	9/11/2019			Soil	VO + PAHs			Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers the portion of the Forrest Street Utility Offset located in the Forrest Street Right of Way where remediation was completed in 2018. The MGP-related constituents in AOC FS-2A also apply in AOC FS-2B.  Due to this AOC's close proximity to the 86/90 and 98/100 Forrest Street buildings, and to protect the existing nearby subsurface utilities, this AOC was remediated via engineering controls (HDPE Liner) and institutional controls (notice in lieu of deed notice). Remediation of this AOC is documented in the 2019 FS RAR for informational purposes only.
AOC FS-1C	Environmental media - Media Soil, including soil vapor pore spaces	CCPW-impacted material likely used as fill within Southern Portion of the 100 Forrest Street Loading Dock Driveway located in the Forrest Street Right of Way	Yes	RAR	9/11/2019			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers the Southern Portion of the 100 Forrest Street Loading Dock Driveway located within the Forrest Street Right of Way where remediation was completed in 2018. Cr+6 and CCPW metals are the primary COCs in the area. Remedial investigation of Forrest Street and adjacent properties was documented in the 2012 RIR and the 2018 SSRIR. Delineation is complete for Cr+6 and CCPW metals.  The V ARS and the Sb and Ni site-specific IGWSRSs also apply in AOC FS-1C.  The Final Forrest RAWP (Revision 1) presented the plan for preventing direct contact with, ingestion of, and inhalation of CCPW impacts through the use of engineering controls, institutional controls, and a corresponding RAP within this area.  Due to this AOC's close proximity to the 100 Forrest Street building, this AOC was remediated via engineering controls (100 Forrest Street Loading Dock Driveway Existing Asphalt Cap) and institutional controls (notice in lieu of deed notice). Remediation of this AOC is documented in the 2019 FS RAR.
AOC FS-2C	Environmental media - Media Soil, including soil vapor pore spaces	Soil impacted by MGP-constituents emanating from Site 114 within Southern Portion of the 100 Forrest Street Loading Dock Driveway located in the Forrest Street Right of Way	Yes	RAR	9/11/2019			Soil	VO + PAHs			Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers the Southern Portion of the 100 Forrest Street Loading Dock Driveway located within the Forrest Street Right of Way where remediation was completed in 2018. The MGP-related constituents in AOC FS-2A also apply in AOC FS-2C.  Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and naphthalene remain in place at concentrations greater than the SRS and/or DIGWSSL and are being addressed via engineering controls (100 Forrest Street Loading Dock Driveway Existing Asphalt Cap) and institutional controls (notice in lieu of deed notice). Remediation of this AOC is documented in the 2019 FS RAR for informational purposes only.
AOC FSP-1A	Environmental media - Media Soil, including soil vapor pore spaces	CCPW-impacted material likely used as fill within Block 21501, Lot 15 Excavation Area	Yes	RAR	8/15/2019			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Excavation				This AOC covers the portion of FSP Block 21501, Lot 15 where remedial excavation was completed in 2017. Cr+6 and CCPW metals are the primary COCs in the area. Remedial investigation of Forrest Street and adjacent properties was documented in the 2012 RIR and the 2018 SSRIR. Delineation is complete for Cr+6 and CCPW metals.  The V ARS and the Sb and Ni site-specific IGWSRSs also apply in AOC FSP-1A.  The April 2012 Draft RAWP (Soil), Revision 2, for the GA Group, presented the plan for excavation and disposal of accessible source material and impacted soil in accordance with the Chromium Policy as the selected remedial action. The Draft RAWP was conditionally approved by the NJDEP. The Final RAWP (Soil) Rev. 4 was submitted in September 2018 and approved by NJDEP on November 9, 2018. Within this AOC, target excavation elevations for the removal of CCPW and COCs in soil were presented in memoranda from PPG to NJDEP between December 2016 and August 2017.  The excavation of chromium-impacted soil and the placement of clean backfill in AOC FSP-1A began in March 2017 and was completed in August 2017. Additional clean backfill was also placed in AOC FSP-1A in December 2017 for restoration purposes. Clean fill for a majority of the site was amended with FerroBlack-H. Restoration of AOC FSP-1A was completed in May 2018. Remediation of this AOC is documented in the August 2019 Final RAR for Forrest Street Properties (2019 FSP RAR).
AOC FSP-2A	Environmental media - Media Soil, including soil vapor pore spaces	Soil impacted by MGP-constituents emanating from Site 114 within Block 21501, Lot 15 Excavation Area	Yes	RAR	8/15/2019			Soil	VO + PAHs			Remediation Standards	Ingestion/Dermal	Inhalation	Excavation	Capping	Institutional Control		This AOC covers the portion of FSP Block 21501, Lot 15 where remedial excavation was completed in 2017. MGP-related constituents including benzene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, and naphthalene have been determined to be emanating from Site 114 onto the southern and western portions of FSP. Remediation of these compounds (where it has been determined that they are emanating from Site 114) is being addressed under the ACO and JCO.  The excavation of chromium-impacted soil between March 2017 and July 2017 was the first phase of remediation for MGP-impacts in AOC FSP-2A. Benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, and naphthalene remain in place at concentrations greater than the Soil Remediation Standards (SRS) and are being addressed via engineering controls (Clean Fill Soil Cap) and institutional controls (deed notice). Remediation of this AOC is documented in the 2019 FSP RAR for informational purposes only.

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AOC FSP-1B	Environmental media - Media Soil, including soil vapor pore spaces	CCPW-impacted material likely used as fill within portion of the 100 Forrest Street Offset located in Block 21501, Lot 15	Yes	RAR	8/15/2019			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers the portion of the 100 Forrest Street Offset located in Block 21501, Lot 15. Cr+6 and CCPW metals are the primary COCs in the area. Remedial investigation of FSP and adjacent properties was documented in the 2012 RIR and the 2018 SSRIR. Delineation is complete for Cr+6 and CCPW metals.  The V ARS and the Sb and Ni site-specific IGWSRSs also apply in AOC FSP-1B.  The Final Forrest RAWP (Revision 1) presented the plan for preventing direct contact with, ingestion of, and inhalation of CCPW impacts through the use of engineering controls, institutional controls, and a corresponding RAP within this area. The proposed plan presented in the Forrest RAWP for this AOC was conditionally approved verbally by the NJDEP and the property owner on November 9, 2017 as documented in the November 2017 Summary of Proposed Forrest Street Restoration Activities memorandum.  Due to this AOC's close proximity to the 100 Forrest Street building, this AOC was remediated via engineering controls (100 Forrest Street Offset HDPE Liner Overlain with Dense-Graded Aggregate [DGA] and Either an Asphalt Cap or Geosynthetic Cementitious Composite Mat [GCCM]) and institutional controls (deed notice). Compliance with the Ni IGWSRS was demonstrated through compliance averaging. Remediation of this AOC is documented in the 2019 FSP RAR.
AOC FSP-2B	Environmental media - Media Soil, including soil vapor pore spaces	Soil impacted by MGP-constituents emanating from Site 114 within portion of the 100 Forrest Street Offset located in Block 21501, Lot 15	Yes	RAR	8/15/2019			Soil	VO + PAHs			Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers the portion of the 100 Forrest Street Offset located in Block 21501, Lot 15. The MGP-related constituents in AOC FSP-2A also apply in AOC FSP-2B.  Naphthalene remains in place at a concentration greater than the SRS, and is being addressed via engineering controls (100 Forrest Street Offset HDPE Liner Overlain with DGA and Either an Asphalt Cap or GCCM) and institutional controls (deed notice). Remediation of this AOC is documented in the 2019 FSP RAR for informational purposes only.
AOC FSP-1C	Environmental media - Media Soil, including soil vapor pore spaces	CCPW-impacted material likely used as fill within portion of the 100 Forrest Street Offset located in Block 21501, Lot 14	Yes	RAW	11/25/2019			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers the portion of the 100 Forrest Street Offset located in Block 21501, Lot 14. Cr+6 and CCPW metals are the primary COCs in the area. Remedial investigation of FSP and adjacent properties was documented in the 2012 RIR and the 2018 SSRIR. Delineation is complete for Cr+6 and CCPW metals.  The V ARS and the Sb and Ni site-specific IGWSRSs also apply in AOC FSP-1C.  The Final Forrest RAWP (Revision 1) presented the plan for preventing direct contact with, ingestion of, and inhalation of CCPW impacts through the use of engineering controls, institutional controls, and a corresponding RAP within this area. The proposed plan presented in the Forrest RAWP for this AOC was conditionally approved verbally by the NJDEP and the property owner on November 9, 2017 as documented in the November 2017 Summary of Proposed Forrest Street Restoration Activities technical memorandum.  Due to this AOC's close proximity to the 100 Forrest Street building, this AOC was remediated via engineering controls (100 Forrest Street Offset HDPE Liner Overlain with DGA and Either an Asphalt Cap or GCCM) and institutional controls (deed notice). This engineering control has been installed and will be documented in a future RAR submittal.
AOC FSP-2C	Environmental media - Media Soil, including soil vapor pore spaces	Soil impacted by MGP-constituents emanating from Site 114 within portion of the 100 Forrest Street Offset located in Block 21501, Lot 14	Yes	RAW	11/25/2019			Soil	VO + PAHs			Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers the portion of the 100 Forrest Street Utility Offset located on Block 21501, Lot 14. The MGP-related constituents in AOC FSP-2A also apply in AOC FSP-2C.  Naphthalene may remain in place at a concentration greater than the SRS, and is being addressed via engineering controls (100 Forrest Street Offset HDPE Liner Overlain with DGA and Either an Asphalt Cap or GCCM) and institutional controls (deed notice). This engineering control has been installed and will be documented in a future RAR submittal.
AOC FSP-1D	Environmental media - Media Soil, including soil vapor pore spaces	CCPW-impacted material likely used as fill underneath the 84 Forrest Street Building Footprint and Loading Dock	Yes	RAW	11/25/2019			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers 84 Forrest Street Building Footprint and Loading Dock. Cr+6 and CCPW metals are the primary COCs in the area. Remedial investigation of FSP and adjacent properties was documented in the 2012 RIR and the 2018 SSRIR. Delineation is complete for Cr+6 and CCPW metals.  The V ARS and the Sb and Ni site-specific IGWSRSs also apply in AOC FSP-1D.  The Final Forrest RAWP (Revision 1) presented the plan for preventing direct contact with, ingestion of, and inhalation of CCPW impacts through the use of engineering controls, institutional controls (deed notice), and a corresponding RAP within this area. In the southern portion of this AOC, the proposed engineering control is the Existing Concrete Cap. In the northern portion of this AOC, the proposed engineering control for this AOC is the 84 Forrest Street Loading Dock Engineering Control consisting of a new concrete block wall, HDPE Liner between new and existing concrete block wall, epoxy-based material, protective wearing surface, and dock bumpers.

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AOC FSP-1E	Environmental media - Media Soil, including soil vapor pore spaces	CCPW-impacted material likely used as fill within portion of Forrest Street Utility Offset located in Block 21501, Lot 14	Yes	RAW	11/25/2019			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers the portion of the Forrest Street Utility Offset located in Block 21501, Lot 14. Cr+6 and CCPW metals are the primary COCs in the area. Remedial investigation of Forrest Street and adjacent properties was documented in the 2012 RIR and the 2018 SSRIR. Delineation is complete for Cr+6 and CCPW metals.  The V ARS and the Sb and Ni site-specific IGWSRSs also apply in AOC FS-1E.  The Final Forrest RAWP (Revision 1) presented the plan for preventing direct contact with, ingestion of, and inhalation of CCPW impacts through the use of engineering controls, institutional controls, and a corresponding RAP within this area. The proposed plan presented in the Forrest RAWP for this AOC was conditionally approved verbally by the NJDEP and the property owner on November 9, 2017 as documented in the November 2017 Summary of Proposed Forrest Street Restoration Activities technical memorandum.  Due to this AOC's close proximity to the 98/100 Forrest Street building, and to protect existing nearby subsurface utilities, this AOC was remediated via engineering controls (HDPE Liner) and institutional controls (deed notice). This engineering control has been installed and will be documented in a future RAR submittal.
AOC FSP-2E	Environmental media - Media Soil, including soil vapor pore spaces	Soil impacted by MGP-constituents emanating from Site 114 within portion of Forrest Street Utility Offset located in Block 21501, Lot 14	Yes	RAW	11/25/2019			Soil	VO + PAHs			Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers the portion of the Forrest Street Utility Offset located in Block 21501, Lot 14. The MGP-related constituents in AOC FSP-2A also apply in AOC FSP-2E.  Due to this AOC's close proximity to the 98/100 Forrest Street buildings, and to protect the existing nearby subsurface utilities, this AOC was remediated via engineering controls (HDPE Liner) and institutional controls (notice in lieu of deed notice). This engineering control has been installed and will be documented in a future RAR submittal.
AOC FSP-1F	Environmental media - Media Soil, including soil vapor pore spaces	CCPW-impacted material likely used as fill within the 90 Forrest Street Alleyway	Yes	RAW	11/25/2019			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers the 90 Forrest Street Alleyway. Cr+6 and CCPW metals are the primary COCs in the area. Remedial investigation of FSP and adjacent properties was documented in the 2012 RIR and the 2018 SSRIR. Delineation is complete for Cr+6 and CCPW metals.  The V ARS and the Sb and Ni site-specific IGWSRSs also apply in AOC FSP-1F.  The Final Forrest RAWP (Revision 1) presented the plan for preventing direct contact with, ingestion of, and inhalation of CCPW impacts through a spot excavation in Grid EE16B followed by the use of engineering controls, institutional controls (deed notice), and a corresponding RAP to address remaining impacts within this AOC. The proposed engineering control is the 90 Forrest Street Asphalt Cap.
AOC FSP-1G	Environmental media - Media Soil, including soil vapor pore spaces	CCPW-impacted material underneath the 98/100 Forrest Street Building Footprint	Yes	RAW	11/25/2019			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers the 98/100 Forrest Street Building Footprint and Loading Dock. Cr+6 and CCPW metals are the primary COCs in the area. Remedial investigation of FSP and adjacent properties was documented in the 2012 RIR and the 2018 SSRIR. Delineation is complete for Cr+6 and CCPW metals.  The V ARS and the Sb and Ni site-specific IGWSRSs also apply in AOC FSP-1G.  The Draft Final Forrest RAWP presented the plan for preventing direct contact with, ingestion of, and inhalation of CCPW-related impacts through the use of engineering controls, institutional controls (deed notice), and a corresponding RAP within this area. The proposed engineering controls for this AOC are the 98/100 Forrest Street Existing Concrete Cap and monitoring.
AOC FSP-1H	Environmental media - Media Soil, including soil vapor pore spaces	CCPW-impacted material likely used as fill within portion of the 100 Forrest Street Loading Dock Driveway located in Block 21501, Lot 14	Yes	RAW	11/25/2019			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers the portion of the 100 Forrest Street Loading Dock Driveway located in Block 21501, Lot 14. Cr+6 and CCPW metals are the primary COCs in the area. Remedial investigation of Forrest Street and adjacent properties was documented in the 2012 RIR and the 2018 SSRIR. Delineation is complete for Cr+6 and CCPW metals.  The V ARS and the Sb and Ni site-specific IGWSRSs also apply in AOC FS-1H.  The Final Forrest RAWP (Revision 1) presented the plan for preventing direct contact with, ingestion of, and inhalation of CCPW impacts through the use of engineering controls, institutional controls, and a corresponding RAP within this area. The proposed engineering control for this AOC is the 100 Forrest Street Loading Dock Driveway Existing Asphalt and Concrete Cap, Seal Cracks/Breaches in 100 Forrest Street Concrete Block Retaining Wall, and monitoring.
AOC FSP-2H	Environmental media - Media Soil, including soil vapor pore spaces	Soil impacted by MGP-constituents emanating from Site 114 within portion of the 100 Forrest Street Loading Dock Driveway located in Block 21501, Lot 14	Yes	RAW	11/25/2019			Soil	VO + PAHs			Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers the portion of the 100 Forrest Street Loading Dock Driveway located on Block 21501, Lot 14. The MGP-related constituents in AOC FSP-2A also apply in AOC FSP-2H.  The Final Forrest RAWP (Revision 1) presented the plan for preventing direct contact with, ingestion of, and inhalation of MGP-related impacts through the use of engineering controls, institutional controls, and a corresponding RAP within this area. The proposed engineering control for this AOC is the 100 Forrest Street Loading Dock Driveway Existing Asphalt and Concrete Cap.

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AOC ID	AOC Type	AOC Description	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
AOC FSP-1I	Environmental media - Media Soil, including soil vapor pore spaces	CCPW-impacted material underneath the 86/90 Forrest Street Building Footprint	Yes	RAW	11/25/2019			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers the 86/90 Forrest Street Building Footprint and Loading Dock. Cr+6 and CCPW metals are the primary COCs in the area. Remedial investigation of FSP and adjacent properties was documented in the 2012 RIR and the 2018 SSRIR. Delineation is complete for Cr+6 and CCPW metals.  The V ARS and the Sb and Ni site-specific IGWSRSs also apply in AOC FSP-1I.  The Final Forrest RAWP (Revision 1) presented the plan for preventing direct contact with, ingestion of, and inhalation of CCPW impacts through the use of engineering controls, institutional controls, and a corresponding RAP within this area. The proposed engineering control for this AOC is the 86/90 Forrest Street Existing Concrete Cap.
AOC FSP-1J	Environmental media - Media Soil, including soil vapor pore spaces	CCPW-impacted material underneath the 90 Forrest Street Boiler Room Basement	Yes	RAW	11/25/2019			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers the 90 Forrest Street Boiler Room Basement. Cr+6 and CCPW metals are the primary COCs in the area. Remedial investigation of FSP and adjacent properties was documented in the 2012 RIR and the 2018 SSRIR. Delineation is complete for Cr+6 and CCPW metals.  The V ARS and the Sb and Ni site-specific IGWSRSs also apply in AOC FSP-1J.  The Final Forrest RAWP (Revision 1) presented the plan for preventing direct contact with, ingestion of, and inhalation of CCPW impacts through the use of engineering controls, institutional controls (deed notice), and a corresponding RAP within this area. The proposed engineering control for this AOC is the 90 Forrest Street Boiler Room Basement Engineering Control consisting of an HDPE dimpled membrane, drainage system, and epoxy coating.
AOC FSP-1K	Environmental media - Media Soil, including soil vapor pore spaces	CCPW-impacted material likely used as fill in Grid GG15B	Yes	RAW	11/25/2019			Soil	Metals			AOC Specific ARS and Remediation Standards	Ingestion/Dermal	Inhalation	Capping	Institutional Control			This AOC covers Grid GG15B. Cr+6 and CCPW metals are the primary COCs in the area. Remedial investigation of FSP and adjacent properties was documented in the 2012 RIR and the 2018 SSRIR. Delineation is complete for Cr+6 and CCPW metals.  The V ARS and the Sb and Ni site-specific IGWSRSs also apply in AOC FSP-1K.  A spot excavation was conducted in Grid GG15B in December 2017 to complete remedial action as proposed in the Final Forrest RAWP (Revision 1). This remedial action will be documented in a future RAR submittal.





**New Jersey Department of Environmental Protection**  
Site Remediation and Waste Management Program

**COVER/CERTIFICATION FORM**

(Submit with Remedial Phase Report, Receptor Evaluation, and CEA Forms)

Date Stamp  
(For Department use only)

**SECTION A. SITE INFORMATION**

Site Name: Forrest Street and Forrest Street Properties

AKAs: Skyways Property

Street Address: 84/86/90, 98/100, and 108 Forrest Street

Municipality: Jersey City (Township, Borough or City)

County: Hudson Zip Code: 07304

Program Interest (PI) Number(s): 775706

Case Tracking Number(s) for this submission: \_\_\_\_\_

Date Remediation Initiated Pursuant to N.J.A.C. 7:26C-2: 07/19/1990

State Plane Coordinates for a central location at the site: Easting: 611855 Northing: 683655

List current Municipal Block and Lot Numbers of the Site: \_\_\_\_\_ Note: Forrest Street is a municipal roadway and does not have a block and lot.

Block # <u>21501</u>	Lot #(s) <u>11, 12, 14, and 15</u>	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____
Block # _____	Lot #(s) _____	Block # _____	Lot #(s) _____

**SECTION B. SUBMISSION STATUS**

1. Indicate how the Electronic Data Deliverable (EDD) for this submission is being provided to the NJDEP:

- Via Email at [srpedd@dep.state.nj.us](mailto:srpedd@dep.state.nj.us) (attach NJDEP confirmation email); or
- CD (attach to this submission)
- Not Applicable – No EDD

2. Complete the following Submission and Permit Status Table:

Remedial Phase Documents	N/A	Included in this Submission	Previously Submitted	Date of Submission	Date of Revised Submission	Date of Previous NJDEP Approval	Date of Document Withdrawal
Preliminary Assessment Report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Site Investigation Report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Remedial Investigation Report	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	02/27/2012	08/30/2018	10/22/2018	
Remedial Action Work Plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Remedial Action Report(Block 21501, Lot 15)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	01/25/2019			
Response Action Outcome	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Remedial Action Report (Forrest Street)			X	02/25/2019			
<b>Other Submissions</b>							
Alternative Soil Remediation Standard and/or Screening level Application Form	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12/06/2016		12/28/2016	
Case Inventory Document		<input checked="" type="checkbox"/>					
Classification Exception Area / Well Restriction Area (CEA/WRA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Discharge to Ground Water Permit by Rule Authorization Request	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	08/30/2012	07/13/2017	10/11/2017	

IEC Engineered System Response Action Report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Immediate Environmental Concern Report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
LNAPL Interim Remedial Measure Report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Public Notification	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	01/25/2019		
Receptor Evaluation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	01/25/2019		
Technical Impracticability Determination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Vapor Concern Mitigation Report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Permit Application – list:	<input type="checkbox"/>					
Water Use Registration		<input type="checkbox"/>	<input checked="" type="checkbox"/>	05/12/2010		06/30/2010
		<input type="checkbox"/>	<input type="checkbox"/>			
		<input type="checkbox"/>	<input type="checkbox"/>			
		<input type="checkbox"/>	<input type="checkbox"/>			
Radionuclide Remedial Action Report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Radionuclide Remedial Action Workplan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Radionuclide Remedial Investigation Report	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Radionuclide Remedial Investigation Workplan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

**SECTION C. SITE USE**

**Current Site Use:** (check all that apply)

- Industrial
- Residential
- Commercial
- School or child care
- Other: \_\_\_\_\_
- Agricultural
- Park or recreational use
- Vacant
- Government

**Intended Future Site Use, if known:** (check all that apply)

- Industrial
- Residential
- Commercial
- School or child care
- Other: Canal Crossing Redevelopment\*\*
- Park or recreational use
- Vacant
- Government
- Future site use unknown

**SECTION D. CASE TYPE:** (check all that apply)

- Administrative Consent Order (ACO)
- Brownfield Development Area (BDA)
- Child Care Facility
- Chrome Site (Chromate chemical production waste)
- Coal Gas
- Due Diligence with RAO
- Hazardous Discharge Remediation Fund (HDSRF) Grant/Loan
- ISRA
- Landfill (SRP subject only)
- Regulated Underground Storage Tank (UST)
- Remediation Agreement (RA)/Remediation Certification
- School Development Authority (SDA)
- School facility
- Spill Act Defense – Government Entity
- Spill Act Discharge
- UST Grant/Loan
- Other: \_\_\_\_\_

**Federal Case** (check all that apply)

- RCRA GPRA 2020
- CERCLA/NPL
- USDOD
- USDOE

1. Is the party conducting remediation a government entity? .....  Yes  No  
 If "Yes," check one:  Federal  State  Municipal  County

**SECTION E. PUBLIC FUNDS**

Did the remediation utilize public funds? .....  Yes  No

If "Yes," check applicable:

- UST Grant
- HDSRF Grant
- Spill Fund
- UST Loan
- HDSRF Loan
- Schools Development Authority
- Brownfield Reimbursement Program
- Landfill Reimbursement Program
- Environmental Infrastructure Trust



**SECTION F. LICENSED SITE REMEDIATION PROFESSIONAL INFORMATION AND STATEMENT**

LSRP ID Number: \_\_\_\_\_  
First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_  
Phone Numbers: \_\_\_\_\_ Ext.: \_\_\_\_\_ Fax: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
Municipality: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Email Address: \_\_\_\_\_

This statement shall be signed by the LSRP who is submitting this notification in accordance with N.J.S.A. 58:10C-14, and N.J.S.A. 58:10B-1.3b(1) and (2).

- (1) *I certify, as a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C-1 et seq. to conduct business in New Jersey, that for the remediation described in this submission, and all attachments included in this submission, I personally: Managed, supervised, or performed the remediation conducted at this site that is described in this submission, and all attachments included in this submission; and/or periodically reviewed and evaluated the work performed by other persons that forms the basis for the information in this submission; and/or completed the work of another site remediation professional, licensed or not, after having: (1) reviewed all available documentation on which I relied; (2) conducted a site visit and observed the then-current conditions and verified the status of as much of the work as was reasonably observable; and (3) concluded, in the exercise of my independent professional judgment, that there was sufficient information upon which to complete any additional phase of remediation and prepare workplans and reports related thereto.*
- (2) *I certify:*
- *That I have read this submission and all attachments to this submission;*
  - *That in performing the professional services as the licensed site remediation professional for the entire site or each area of concern, I adhered to the professional conduct standards and requirements governing licensed site remediation professionals provided in N.J.S.A. 58:10C-16;*
  - *That the remediation conducted at the entire site or each area of concern, that is described in this submission and all attachments to this submission, was conducted pursuant to and in compliance with the remediation requirements in N.J.S.A. 58:10C-14.c;*
  - *That the remediation described in this submission, and all attachments to this submission, was conducted pursuant to and in compliance with the regulations of the Site Remediation Professional Licensing Board at N.J.A.C. 7:26I; and*
  - *That the information contained in this submission and all attachments to this submission is true, accurate, and complete.*
- (3) *I certify, when this submission includes a response action outcome, that the entire site or each area of concern has been remediated in compliance with all applicable statutes, rules, and regulations and is protective of public health and safety and the environment.*
- (4) *I certify that no other person is authorized or able to use any password, encryption method, or electronic signature that the Board or the Department have provided to me.*
- (5) *I certify that I understand and acknowledge that:*
- *If I knowingly make a false statement, representation, or certification in any document or information I submit to the Department I may be subject to civil and administrative enforcement pursuant to N.J.S.A. 58:10C-17.a.1(a)through (f) by the Board, including but not limited to license suspension, revocation, or denial of renewal; and*
  - *If I purposely, knowingly, or recklessly make a false statement, representation, or certification in any application, form, record, document or other information submitted to the Department or required to be maintained pursuant to the Site Remediation Reform Act, I shall be guilty, upon conviction, of a crime of the third degree and shall, notwithstanding the provisions of subsection b. of N.J.S.2C:43-3, be subject to a fine of not less than \$5,000 nor more than \$75,000 per day of violation, or by imprisonment, or both.*
- (6) *I certify that I have read this certification prior to signing, certifying, and making this submission.*

LSRP Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
LSRP Name: \_\_\_\_\_  
Company Name: \_\_\_\_\_

**SECTION G. PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION**

Full Legal Name of the Person Responsible for Conducting the Remediation: PPG

Representative First Name: Mark Representative Last Name: Terril

Title: Corporate Director, Environmental Affairs

Phone Number: (412) 434-2708 Ext.: \_\_\_\_\_ FAX: \_\_\_\_\_

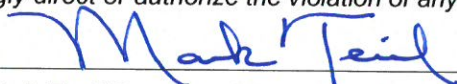
Mailing Address: One PPG Place

Municipality: Pittsburgh State: PA Zip code: 15219

Email Address: terril@ppg.com

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

*I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.*

Signature:  Date: 3/5/2019

Name/Title: Mark Terril/Corporate Director, Environmental Affairs

**For CEA Submissions:**

Check this box if the person above is also the property owner of the site or their representative. If this person is not the site property owner, please ensure the site property owner's name and address is in the first line of the table in Section E.2 of the Classification Exception Area / Well Restriction Area (CEA/WRA) Fact Sheet Form.

Completed forms should be sent to:

Bureau of Case Assignment & Initial Notice  
Site Remediation Program  
NJ Department of Environmental Protection  
401-05H  
PO Box 420  
Trenton, NJ 08625-0420