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SOILS - GARFIELD AVENUE SITES

Group/Phase or Site (See Figure 1 attached)	Property Description (Owner) (See Figure 2 attached)	Access/Road Closure Plan	Excavation Start Actual OR Required	Excavation Complete Actual OR Required	Backfill Complete Actual OR Required	Restoration Complete Actual OR Required	RAR Determination	Comments
GA Group IRM #1 and Phases 1A, 1B, 1C, 2A, 2B-1, 2B-2, 2B-3, and 2B-	Site 114 (JCRA/ Hampshire)	See Comments	12/31/2013	11/24/2014	1/21/2015	1/31/2018 (see Comments)	June 2019	Site 114 is the subject of pending litigation between PPG, Hampshire, JCRA and the City, but the Court issued an Order granting PPG access to conduct remediation work at this site. Any remaining issues are the subject of mediation between the mediating parties. If the mediation is unsuccessful, the litigation may again become active. Restoration was deemed complete for all of Site 114, except for the soil IRM #1 area where active groundwater remediation is being performed. Restoration of the soil IRM #1 area is on hold pending the referenced groundwater remediation activities. PPG is to addressing remaining soil impacts in a small portion of the soil IRM #1 area adjacent to Garfield Avenue (referred to as the "Western Sliver") via injection of emulsified vegetable oil into shallow groundwater in this area to treat the soil impacts.
GA Group Phase 3A	Site 132 (824 Garfield) (JCRA) Site 143 (846 Garfield) (PPG)	See Comments PPG Owned	3/4/2014	9/5/2014	5/15/2015	1/31/2018	May 2019	Site 132 is the subject of pending litigation between PPG, Hampshire, JCRA and the City, but the Court issued an Order granting PPG access to conduct remediation work at this site. Any remaining issues are the subject of mediation between the mediating parties. If the mediation is unsuccessful, the litigation may again become active.
GA Group Phase 3B North (45 Halladay and a portion of 25 Halladay)	Site 137 North (PPG)	PPG Owned	7/9/2014	5/15/2015	8/3/2015	1/31/2018	May 2019	During the remediation of Phase 3B North, the southern portion of Site 137 (i.e., Site 137 South) was not able to be remediated because of its proximity to the Ten West Apparel Building, and is now considered part of Phase 3B South under this Master Schedule (see below).
GA Group Phase 3B	Site 133 West (PPG) and Site 137 South (PPG)	PPG Owned	August 2018	February 2019	April 2019	June 2019	August 2020	Milestone dates apply to the portions of Site 133 West and Site 137 South that are accessible prior to demolition of the Ten West Apparel building. The portions that are inaccessible due to proximity to the Ten West Apparel Building will be excavated and backfilled with the Ten West Apparel remediation activities consistent with the Ten West Apparel Master Schedule milestones.
South (15 Halladay, the remainder of 25 Halladay with 800 and	Fishbein (816 Garfield Avenue) (PPG)	PPG Owned	7 Months After Ten West	7 Months After Excavation Start	2 Months After Excavation Complete	3 Months After Backfill Complete	14 Months After Restoration Complete	The access litigation between PPG and Ten West Apparel was settled in April 2017. Pursuant to the terms of settlement, Mid-Newark, L.P., the former owner of the 800 Garfield Avenue property, transferred title to the property to PPG on March 2, 2018. Ten West Apparel is required to vacate the property on or prior to the 24 th month following the property transfer, i.e., by March 2020.
816 Garfield Avenue added)	Ten West Apparel (800 Garfield Avenue) (PPG)	PPG Owned	Vacates 800 Garfield					The sites included within GA Group Phase 3B South were not part of NJDEP's March 30, 2017 capillary break determination letter. Therefore, a separate determination must be made by the Department prior to Restoration Complete as to the need for a capillary break at the sites/partial sites located within this Phase.
	Site 133 East (22-68 Halladay) (PPG) Halladay Street	PPG Owned	4/21/2015	10/22/2015 (See Comments)	7/29/2016 (See	(See priments) 1/31/2018 (see comments)	January 2019 for HSS May 2019 for Site 133 East & Site 135 North	PPG achieved the restoration complete for these areas with the exception of grids in Site 133 East and Halladay Street South adjacent to Ten West Apparel; those grids will be excavated and backfilled with the Ten West Apparel remediation activities consistent with the Ten West Apparel Master Schedule milestones. Utility reinstallation in Halladay Street South is on hold pending mediation between the City and PPG of issues related to reimbursement to the City for replacement of utilities and other improvements/infrastructure located within this portion of the
GA Group Phase 3C	South (Jersey City) Site 135 North	Road Closure In Place		Commence	Commency			
	(Portion of 51-99 Pacific) (PPG)	PPG Owned	2/23/2016	5/25/2016	7/29/2016			roadway.

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SOILS - GARFIELD AVENUE SITES

Group/Phase or Site (See Figure 1 attached)	Property Description (Owner) (See Figure 2 attached)	Access/Road Closure Plan	Excavation Start Actual OR Required	Excavation Complete Actual OR Required	Backfill Complete Actual OR Required	Restoration Complete Actual OR Required	RAR Determination	Comments
GA Group Site 135 South	Site 135 South (Remainder of 51-99 Pacific) (PPG)	PPG Owned	3/16/2016	8/23/2016 (See Comments)	12/29/2016 (See Comments)	1/31/2018	May 2019	
	Halsted Corporation (78 Halladay St) (PPG)	PPG Owned	5/7/2018	June 2019 (See Comments)	August 2019 (See Comments)	February 2020 (See Comments)	July 2020 (See Comments)	As of this time, residual impacted soils will remain along the eastern boundary of the Halsted site, adjacent to the adjoining properties, in order to protect those structures. Remedial excavation of this eastern area will be deferred pending redevelopment. Additionally, residual impacted soils may remain along the western boundary of the Halsted site, pending remediation of Halladay Street North, in order to protect utilities within the Street. The RAR Determination milestone is based upon the assumption that the RAR will include a restricted use component with respect to chromium impacts that cannot be removed within the boundaries of the former Halsted site. A separate RAWP will be required to address remediation of the remaining impacts along the eastern boundary of this site, and beyond the site boundary if needed. This property was not part of NJDEP's March 30, 2017 capillary break determination letter. Therefore, a separate determination must be made by the Department prior to Restoration Complete as to the need for a capillary break at this Site.
GA Group Phase 5 Off Site Properties	Forrest Street Properties 84, 86 and, 90- 98 Forrest St and Block 21501, Lot 15 (Caragliano)	Access complete	3/27/2017	7/19/2017	8/9/2017	5/2/2018 (See Comments)	July 2019 (See Comments)	Milestone dates are for initial excavation activities in accordance with the Forrest Street and Forrest Street Properties Technical Execution Plan dated March 2017. PPG and the property owner reached a conceptual understanding regarding a remedial approach that called for the excavation and backfilling of impacted soils in phases, but subject to a restricted area around the perimeter of and within the footprint of the buildings where excavation was prohibited so as to avoid structural damage to the buildings. Excavation and backfilling of the agreed upon areas outside of the buildings was completed. In light of the building structural restrictions, some impacted soils will remain under and in the proximity of the buildings located on these properties that will be addressed at some future date when the property is redeveloped or upon agreement between PPG and the property owner. The Department, PPG and the property owner are in discussions regarding the proposed restricted use remedy for these portions of the properties. In March 2018, PPG submitted a RAWP to memorialize the restricted use remedy for these properties. PPG will propose schedule milestones for implementation of the RAWP within three months of NJDEP approval of and property owner consent to the RAWP; this new schedule may be included in the next update to the Master Schedule, as a separate line with separate milestones.
	Al Smith Moving (33 Pacific Avenue) (NJEDA c/o Al Smith Moving)	Access Complete	8/16/2017	1/8/2018	1/26/2018	2/15/2018	May 2019	
GA Group Phase 4 Roadways	Carteret Avenue (Jersey City)	See Comments	TBD (See Comments)	TBD (See Comments)	TBD (See Comments)	TBD (See Comments)	TBD (See Comments)	Carteret Avenue area/phase includes Carteret Avenue from the intersection with Garfield Avenue through the intersection with Pacific Avenue. The portion of Carteret Avenue from the intersection with Garfield Avenue to approximately 100 feet beyond the intersection with Halladay Street is closed and will remain closed pending remediation of this roadway. PPG, the City, JCMUA and JCRA are working cooperatively with respect to the planning for the remediation of this roadway and the possible lining, removal and/or replacement of all or portions of an existing 96" steel combined sewer line within Carteret Avenue. PPG intends to commence remediation in this roadway by December 2018. The parties await finalization of the JCMUA's plans with respect to the steel sewer line. PPG and JCMUA are also currently in discussion regarding the 48" concrete combined sewer that comes from Halladay Street continuing past Pacific Avenue. PPG submitted a RAWP for the Carteret Avenue roadway on June 29, 2018 that is currently under review by the Parties. This roadway was not part of NJDEP's March 30, 2017 capillary break determination letter. Therefore, a separate determination must be made by the Department prior to Restoration Complete as to the need for a capillary break at this Site.

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SOILS - GARFIELD AVENUE SITES

Group/Phase or Site (See Figure 1 attached)	Property Description (Owner) (See Figure 2 attached)	Access/Road Closure Plan	Excavation Start Actual OR Required	Excavation Complete Actual OR Required	Backfill Complete Actual OR Required	Restoration Complete Actual OR Required	RAR Determination	Comments
	Halladay Street North (Jersey City)	See Comments	November 2018	December 2019	February 2020	August 2020	October 2021	The remediation of this roadway was originally intended to be completed in conjunction with the remediation of the Halsted Building, however, PPG and JCMUA are currently in discussion regarding the 30" sewer line that exists in this roadway. When remedial action is implemented in Halladay Street North, residual contamination on the western edge of the Halsted Corporation site will be addressed. This roadway was not part of NJDEP's March 30, 2017 capillary break determination letter. Therefore, a separate determination must be made by the Department prior to Restoration Complete as to the need for a capillary break at this Site.
GA Group Phase 4 Roadways (continued)	Forrest Street (Jersey City)	See Comments	3/27/2017	8/4/2017	9/1/2017	6/27/18	July 2019	The Principals agreed that Forrest Street and Forrest Street Properties shall be considered one combined site for the purpose of the milestones set forth herein. PPG and the adjacent Forrest Street property owner reached a conceptual understanding regarding a remedial approach that called for a phased approach to the excavation and backfilling of impacted soils located on the Forrest Street Properties and in Forrest Street, but subject to a restricted area around the perimeter of and within the footprint of the buildings located on the Forrest Street Properties where excavation was prohibited so as to avoid structural damage to the buildings. In light of these restrictions, some impacted soils will remain in Forrest Street that will be addressed at some future date when the Forrest Street Properties are redeveloped or upon agreement between PPG and the property owner, or whenever utility work beneath the Forrest Street roadway is necessary.
	Garfield Avenue (Jersey City)	See Comments	See Comments	See Comments	See Comments	See Comments	June 2020	In consideration of the numerous utilities located in this roadway and traffic issues, the City, PPG and NJDEP agreed upon a restricted use remedy for this roadway that was incorporated into a Remediation Plan Summary. The Remediation Plan Summary calls for, among other things, deferring excavation of shallow impacts until the street is closed/partially closed for street widening work by the City. PPG submitted a RAWP for the Garfield Avenue roadway on June 29, 2018 that is currently under review by the Parties. This roadway was not part of NJDEP's March 30, 2017 capillary break determination letter. Therefore, a separate determination must be made by the Department as to the need for a capillary break at this Site.

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SOILS - NON-GARFIELD AVENUE GROUP SITES

Group/Phase or Site	Property Description (Owner)	Access/Road Closure Plan	Excavation Start Actual OR Required	Excavation Complete Actual OR Required	Backfill Complete Actual OR Required	Restoration Complete Actual OR Required	RAR Determination	Comments
Site 16	45 Linden Ave. East (Etzion)	Access agreement in place	6/16/2014 (See Comments)	November 2020	January 2021	September 2021	December 2022	PPG completed excavation and backfilling of the exterior area of this property in June 2015. PPG intended to conclude its analysis of remedial alternatives for the warehouse building, secure the property owner's consent and propose a remedy to NJDEP by September 2018 for the areas under the building and outside the building along Linden Avenue East. That milestone is in jeopardy because the property owner and PPG are currently discussing required methods for building structural analysis to support the remedial alternatives analysis. The milestones for this Site do not assume that the remedy for the building includes demolition. Some remediation will be required in the street. That remediation will be performed concurrent with the remediation of the building. PPG will notify the City at least 90 days prior to the date that the street needs to be closed.
Site 63	Baldwin Oil (Nisan 12)	Access agreement in place	4/28/2014	5/19/2015	5/19/2015	6/13/2015	4/27/2017	All CCPW has been excavated and the Site has been restored. A final Consent Judgment Compliance Letter (NFA equivalent) with respect to soils was issued by NJDEP on January 30, 2018.
Site 65	Burma Road/Morris Pesin Drive (Jersey City)	See Comments	4/28/2014	See Comments	See Comments	See Comments	October 2018	PPG, the City, JCMUA and NJDEP entered into a Settlement Agreement dated January 9, 2018 with respect to this Site. Pursuant to the Settlement Agreement, the remedy for this site will consist of institutional and engineering controls until JCMUA undertakes Water Line Work (as defined by the Settlement Agreement), at which time the Water Line Work will be managed following the Linear Construction Guidance. On April 9, 2018, PPG submitted a Remedial Action Report ("RAR") incorporating the remedial action concepts from the Settlement Agreement. The RAR is under review by the Parties.
Site 107/Site 108	Fashionland (Site 107 - Greenberg) / Albanil Dyestuff (Site 108 - American Self Storage Liberte, LLC)	107 - Access agreement in place 108 - Access agreement in place with new owner	6/13/2018 (See Comments)	December 2018	January 2019	March 2019	May 2020	The approved Remedial Investigation Report for Site 108 indicated that the "hotspot" contaminated area on Site 108 was presumed to have emanated from Site 107, and required that remedial action at Site 108 would be performed as part of the Site 107 remedial action. Therefore, Site 108 soils will be remediated concurrent with the Site 107 remedial action.
Site 156	Metro Towers (ALMA)	Access agreement in place	3/18/2013	5/23/2014	5/30/2014	6/30/2014	Boiler Room: See Comments Parking Lot: September 2018	The Boiler Room remedial action has been postponed, at the property owner's request, while the property owner completes electrical work in the Boiler Room. The remedial action will resume upon authorization to proceed from the property owner. An RAR Determination Date for the Boiler Room will be established at that time.
Site 174	Dennis Collins Park (City of Bayonne)	Access agreement (See Comments)	4/8/2013	9/30/2016	9/30/2016	9/30/2016	March 2020	PPG and City of Bayonne entered into an access agreement that extends through June 17, 2019. PPG completed focused excavation, backfilling, and restoration of a portion of the Park in September 2016. PPG and the City of Bayonne are negotiating a Memorandum of Understanding (MOU) setting forth the parties' understandings concerning the coordination of the installation of a 2 ft. clean soil cap and other required engineering controls for the remediation of soils with the City's redevelopment of the Park. The RAR Determination milestone assumes capping installation starts on or before May 2019.
Site 186	Garfield Avenue #1	Access no longer required; Remediation Complete	8/19/2013	11/1/2013	11/1/2013	11/20/2013	4/16/2014	All CCPW has been excavated and the Site restored. A final Consent Judgment Compliance Letter (NFA equivalent) was issued July 15, 2015.
457 Communipaw	457 Communipaw Right-of-Way (285 Lincoln Avenue, LLC)	Investigation access only at this time						The portion of this area in the right-of-way has been fully remediated by PPG. It was determined, however, that CCPW impacts extend onto 457 Communipaw Avenue, an adjacent private property. A site investigation was performed in 2017 at 457 Communipaw Avenue. PPG submitted a PA/SI/RIWP for this property in February 2018. The RI work at this site is expected to commence by the end of 2018.

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GROUNDWATER

GA GROUP GRO	GA GROUP GROUNDWATER MILESTONES									
Group/Phase or Site	Property Description (Owner)	IRM Start	IRM Performance Monitoring Complete	Remedial Investigation Report Submitted	Remedial Action Work Plan Submitted	Remedial Action Report Submitted	Comments			
GW IRM Phase I	Site 114 (JCRA/Hamp- shire)	12/29/2017	December 2020				The IRM was designed to extract ground water from the areas of highest Cr concentration in the northern portion of Site 114 and make use of the treated water to support bio-precipitation in the southern portion of Site 114. For more detail, see "Groundwater Interim Remedial Measure: Phase I Design and Permit-by-Rule Authorization Request" dated June 2017 (the "PBR"). The IRM Phase I activities also include active remediation within the shallow zone groundwater to address localized exceedances of the groundwater quality standards. Phase I of the IRM calls for approximately one year of active treatment and two years of performance monitoring with ongoing dialogue and collaboration around IRM performance that may result in a revisiting of these timeframes. Quarterly reporting on IRM progress will be provided by the PPG team.			
GW IRM Phase II	Site 114 (JCRA/Hamp- shire)	June 2019	June 2022				This phase is contingent on PPG Management approval. Conceptually, Phase II of the IRM will implement bio-precipitation in the portions of Site 114 not addressed in Phase I, with the same considerations as noted above for Phase I.			
GW IRM Phase III	South of Carteret (PPG & JCRA)	December 2020	December 2023				This phase is contingent on PPG Management approval. Conceptually, Phase III of the IRM will address the area south of Carteret Avenue, with the same considerations as noted above for Phase I.			
IRM Phase IV or RAWP	Other Adjacent Properties	TBD	TBD				This phase (if warranted) is contingent on PPG Management approval. Adjacent properties may include but are not limited to roadways adjacent to the GAG Sites (i.e., Forrest Street, Halladay Street, Carteret Avenue and Garfield Avenue), the Forrest Street Properties, the former Halsted Corporation property and the Ten West Apparel property. Other properties/roadways may be identified by the ongoing groundwater remedial investigation. Milestone dates will need to be established at an appropriate point in the future based on information generated by the remedial investigation.			
Remedial Investigation	Entire Site Group			January 2020			RIR must address shallow, intermediate, deep and bedrock groundwater zones. Access has been obtained for many of the properties included in the scope of the remedial investigation. However, as full delineation is required, access may be required to other properties. Access to these other properties will need to be obtained at a future date as needed and could impact the dates listed.			
Remedial Action Work Plan	Entire Site Group				May 2021		PPG may submit the RAWP in advance of the date presented herein if sufficient information is obtained during IRM Phases I and/or II. Areas with soil remediated after submittal of groundwater RAWP can be addressed through addenda to the groundwater RAWP as an alternate approach.			
Remedial Action Report	Entire Site Group					November 2023	Areas with groundwater remediated after submittal of the groundwater RAR can be addressed through addenda to the groundwater RAR.			
NON-GA GROU	P GROUNDWATE	R MILESTONES								
Site 16	(see non-GAG Soils table)			RIR/RAWP S Novemb		TBD				
Site 63	(see non-GAG Soils table)			RIR/RAWP S Septemb		TBD	Milestone assumes two additional rounds of groundwater sampling approximately 30 days apart to demonstrate compliance with Groundwater Quality Standards and no additional groundwater monitoring well installation. If additional investigation work is needed, the milestone will need to be revised.			
Site 65	(see non-GAG Soils table)			See Com	iments	TBD	Pursuant to the settlement agreement entered by PPG, the City, JCMUA and NJDEP, any impacted groundwater at Site 65 will be deemed to have emanated from Site 63. Therefore, no action vis-à-vis groundwater is required for Site 65.			
Site 107 & 108	(see non-GAG Soils table)			RIR/RAWP S		TBD				
Site 156	(see non-GAG Soils table)			RIR Submittal: 4/16/2018		See Comments	The GW RIR demonstrated compliance with the GWQS. It is anticipated that NJDEP could issue a final compliance letter for groundwater in the third quarter of 2018.			
Site 174	(see non-GAG Soils table)			RIR/RAWP S Decemb		TBD	Milestone assumes one round of groundwater monitoring well installation and two rounds of groundwater sampling approximately 30 days apart to demonstrate compliance with Groundwater Quality Standards. If additional investigation work is needed, the milestone will need to be revised.			
Site 186	(see non-GAG Soils table)			Site 186 Grounds Investigation inc GA Gro	orporated into	TBD	Site 186 groundwater investigation/remedial action is considered part of the Garfield Avenue Group groundwater program.			

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NOTES

SOILS NOTES:

- 1) "Excavation Start" means access has been gained, building demolition and shoring installation, if required, have been completed, there are no known impediments to proceeding with excavation and excavation has actually commenced.
- 2) Green shading indicates that milestones have been attained.
- 3) For Garfield Avenue Group Sites, "Backfill Complete" means backfill is brought to elevations approved by NJDEP.
- 4) For the purpose of this Master Schedule, "restoration" is defined as capillary break installation (where required) and final remediation grading in accordance with an NJDEP-approved Restoration Technical Execution Plan. In its review of the Restoration TEP, the Department will consider the grades established in the Canal Crossing Redevelopment Plan for the Garfield Avenue Sites. In-kind replacement of existing infrastructure and/or improvements removed to implement the remedy, as well as final redevelopment grading, for the GAG Sites is the subject of pending mediation between the City and PPG.
- 5) Restoration within specific areas under/around infrastructure necessary to support on-going remediation may be delayed if such a delay is acceptable to the Department and property owners.
- For the purpose of this Master Schedule, "RAR Determination" means that the Department will determine whether the Remedial Action Report (RAR) meets the requirements of applicable Department regulations and guidance. The Department will determine whether the milestone identified in the Exhibit is achieved assuming: (i) the RAR Figures/Tables have been submitted by PPG and reviewed/approved by the Department prior to complete RAR submittal, and (ii) the initial submittal of the complete RAR (i.e., text plus figures, tables and other Department-required information) is received 26 weeks prior to the RAR Determination milestone. (The referenced 26 week time period assumes 12 weeks for the Department/Weston and the City of Jersey City to provide comments to the initial complete RAR submittal, 7 weeks thereafter for PPG to review and incorporate such comments and submit the final version of the full RAR and 7 weeks thereafter for the Department to make the RAR Determination). A Draft Consent Judgment Compliance Letter will typically be issued by the Department within 30 business days of the issuance of the RAR Determination.
- 7) This version of the Master Schedule has combined "Exhibit 2" and "Exhibit 3" from the version of the Master Schedule dated October 13, 2015. The term Exhibits 2/3 is used here because prior orders entered by the court in NJDEP, et al. v. Honeywell International, Inc., et al. reference those exhibits as exhibits to the Master Schedule, which Master Schedule remains in effect as modified by these changes to Exhibits 2 and 3.
- 8) NJ Transit Right-of-Way (ROW): CCPW located beneath this ROW will be addressed concurrent with Site 199, as part of remediation requirements specified in the 2011 Consent Order (Orphan Sites Agreement).

GROUNDWATER NOTES:

1) For purposes of this schedule, the Garfield Avenue Group Access date is assumed to be March 2017 and would continue without interruption although litigation between JCRA and PPG is ongoing for JCRA owned properties.

FIGURES 1 and 2 ATTACHED

DATE: 07/19/2016

DRWN: DCB

FIGURE 1

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