

Appendix J

Copy of Approved Permits



HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT

15 BLOOMFIELD AVENUE
NORTH CALDWELL, NJ 07006
Telephone: (973) 364-0786
Fax: (973) 364-0784
information@hepscd.org
www.hepsoilnj.org

August 15, 2011

Mr. Brian G. McGuire
PPG Industries, Inc.
4325 Rosanna Drive
Allison Park, PA 15101-2009

Re: **PPG Site 114 IRM Areas 1 & 2**
Revisions to Certified Plan: Revised to add 0.3 acres for sheet piling install
880-900 Garfield Ave, Jersey City, NJ
211-H-0014 Re-Review of HEP Ch.251 #210-H-2765, plan rev. 7/26/11

Dear Applicant:

The District has completed the review of the revised soil erosion and sediment control plan for the above referenced project and hereby reports that the plan meets the Standards for Soil Erosion and Sediment control in New Jersey (N.J.A.C.290-1.1 et seq., promulgated pursuant to the New Jersey Soil Erosion and Sediment Control Act, N.J.S.A.4-24-39 et seq.). Accordingly, the plan **remains certified** by the Hudson-Essex-Passaic Soil Conservation District subject to the following conditions:

- The District must be notified by mail 48 hours prior to the commencement of any construction activity.
- A copy of the certified plan must be kept on the job site at all times.
- The applicant or contractor must request a final inspection (once landscaping and final soil stabilization is complete) prior to seeking a temporary or permanent Certificate of Occupancy.
- The District must be provided with written notification of any conveyance of this project, subject property, or portions thereof, including individual residential lots if applicable. Said notice must provide the names, addresses, and telephone numbers of subsequent owners.
- The District must be informed of address and or telephone number changes of owners, agents responsible for site construction, and job supervisors.

Please be advised that the Soil Erosion and Sediment Control Act authorizes the issuance of stop construction orders and penalties of up to \$3000 per day for violations of the certified plan or for failure to comply with the aforementioned requirements. Please be further advised that any conveyance of this project or portions thereof will transfer full responsibility for compliance with the certified plan to subsequent owners. Please contact the District if you require assistance implementing the certified soil erosion and sediment control plan. This certification remains valid through October 14, 2013, and is limited to the controls specified in this plan. It is not authorization to engage in proposed land use unless such use has been previously approved by the municipality or other controlling agency.

Yours truly,

Carl Quazza
Chairman

Cc: Planner, Municipality, County

SOIL EROSION AND SEDIMENT CONTROL PLAN REMEDIAL ACTION WORK PLAN (RAWP) ACTIVITIES PPG SITE 114 JERSEY CITY, NEW JERSEY

DRAWING

- 1
- 2
- 3
- 4

DESCRIPTION

- EXISTING SITE CONDITIONS
- SESC MEASURES
- SESC DETAILS AND NOTES
- SESC DETAILS AND NOTES (CONTINUED)

PREPARED BY:



30 KNIGHTSBRIDGE ROAD,
PISCATAWAY, NEW JERSEY 08854

HUE N. QUAN, P.E.
NJ PROFESSIONAL ENGINEER
2462469500

NO.	DESCRIPTION	DATE	BY:

AECOM

30 KNIGHTSBRIDGE ROAD, SUITE 520
PISCATAWAY, NEW JERSEY 08854
PHONE: (732) 564-3600
FAX: (732) 369-0122
WEB: HTTP://WWW.AECOM.COM

**SOIL EROSION + SEDIMENT CONTROL PLAN
REMEDIAL ACTION WORK PLAN ACTIVITIES**

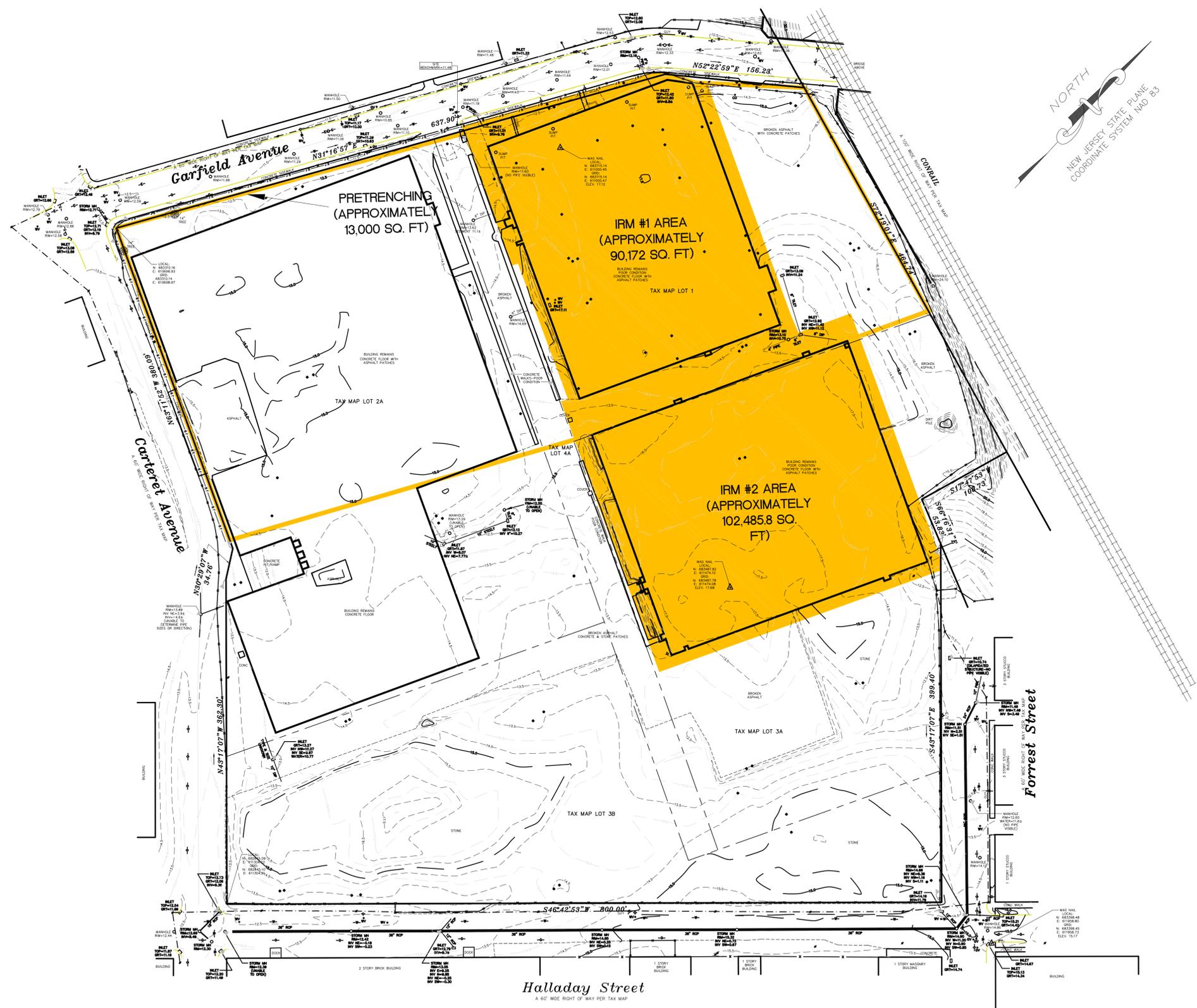
PPG INDUSTRIES
SITE 114
JERSEY CITY, HUDSON COUNTY, NEW JERSEY

SCALE: NOT TO SCALE DATE: 07/26/2011 PROJECT NUMBER: 60190341.500A

DRAWING NUMBER:
COVER

SHEET NUMBER:
1 of 5

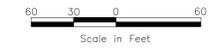
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- LEGEND**
- UTILITY POLE
 - OVERHEAD WIRES
 - - - - - EDGE OF PAVEMENT
 - — — CURB
 - — — DEPRESSED CURB
 - — — SITE BOUNDARY
 - — — LOT BOUNDARIES
 - FIRE HYDRANT
 - W— WATER MARK-OUT
 - V— WATER VALVE
 - G— GAS MARK-OUT
 - G— GAS VALVE
 - S— SANITARY CLEANOUT
 - T— TELEPHONE MARK-OUT
 - E— ELECTRIC MARK-OUT
 - M— MONITORING WELL
 - B— BOLLARD
 - — — CHAIN LINK FENCE
 - - - - - TOPOGRAPHIC CONTOUR (.5 FT INTERVAL)
 - - - - - TOPOGRAPHIC CONTOUR (5 FT INTERVAL)
 - — — RAILROAD TRACKS
 - — — TAX LOT LINE
 - — — AREA OF REMEDIAL ACTIVITIES/ LIMIT OF DISTURBANCE

- NOTES:**
- BOUNDARY INFORMATION AND LOT GEOMETRY IS TAKEN FROM A SURVEY BY YANNAKONE, VILLA & ALDRICH, LLC DATED APRIL 8, 2004. A TITLE ABSTRACT/COMMITMENT HAS NOT BEEN SUPPLIED. THIS SURVEY IS SUBJECT TO THE FINDINGS OF A COMPLETE TITLE SEARCH.
 - THIS MAP REFLECTS SITE CONDITIONS AS THEY EXISTED AT THE TIME OF THE FIELD SURVEY. THE FIELD SURVEY OBSERVATIONS WERE OBTAINED BETWEEN SEPTEMBER 12, 2006 AND SEPTEMBER 20, 2006.
 - THE BASIS OF BEARING IS THE NEW JERSEY STATE PLANE COORDINATE SYSTEM NAD 83 DETERMINED BY DIFFERENTIAL GPS ON DECEMBER 22, 2005. REFERENCE MONUMENTS ARE NGS COR STATIONS NJ12, SHK1 AND LAMT.
 - THE PROJECT COMBINED GRID SCALE FACTOR IS 0.999920497 AT THE PROJECT CENTROID (N: 682981.62, E: 611168.7492 ELEV. 15.17)
 - COORDINATE VALUES SHOWN HEREON ARE IN US SURVEY FEET
 - THE VERTICAL DATUM IS THE EXISTING SITE DATUM AS SHOWN ON UNTITLED PLAN PROVIDED BY CLIENT. HELD PK 12 ELEVATION 11.48 (THE SITE DATUM IS 1.2' HIGHER THAN NAVD 88 AND 0.8' HIGHER THAN NGVD 29).
 - THE UTILITIES SHOWN HAVE BEEN LOCATED FROM EVIDENCE OBSERVED ON THE SURFACE ONLY. THE SURVEYOR MAKES NO GUARANTEES THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
 - TOTAL LOT AREA = 709,022 SQ.FT. = 16.28 ACRES
 - LOT CORNERS ARE TO BE SET.

- REFERENCES:**
- "SURVEY OF LOTS 1, 2, 4, 5 & 6 - BLOCK 2026.1 CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY" DATED APRIL 8, 2004 PREPARED BY YANNAKONE, VILLA & ALDRICH, LLC, CHRISTOPHER J. ALDRICH, PLS.
 - DEEDS:
 DBK 3089 PG 387 - BLOCK 2006.1 PART OF LOT 1, AND LOTS 2 & 3
 DBK 3117 PG 1124 - BLOCK 2006.1 LOT 1
 DBK 3176 PG 929 - BLOCK 2006.1 LOT A2
 DBK 4458 PG 265 - BLOCK 2007 LOTS 22 TO 26 AND LOTS 30 TO 35
 DBK 3382 PG 453 - BLOCK 2017 PART OF LOT H
 DBK 4748 PG 200 - BLOCK 2017 LOTS 1 TO 25
 DBK 3671 PG 18 - BLOCK 2026.1 LOT 1
 DBK 3360 PG 320 - BLOCK 2028 LOTS C2 & A7
 DBK 3360 PG 320 - BLOCK 2029 LOTS A3 & A7



HUE N. QUAN, P.E.
 NJ PROFESSIONAL ENGINEER
 246C4698500

DESIGNED BY:	SM	NO.	REVISIONS
DRAWN BY:	/JK/IC		
CHECKED BY:	HNQ		
APPROVED BY:			

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SOIL EROSION + SEDIMENT CONTROL PLAN
EXISTING CONDITIONS
 PPG INDUSTRIES
 SITE 114
 JERSEY CITY, HUDSON COUNTY, NEW JERSEY
 SCALE: AS SHOWN
 DATE: 07/26/2011
 PROJECT NUMBER: 60190341.500A

DRAWING NUMBER:
1
 SHEET NUMBER:
 2 of 5

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- LEGEND**
- PROPOSED HAYBALES (SEE DETAIL #6)
 - SITE BOUNDARY
 - LOT BOUNDARIES
 - PROPOSED INLET PROTECTION (SEE DETAIL #4)
 - JERSEY BARRIER WITH FENCE
 - UTILITY POLE
 - OVERHEAD WIRES
 - EDGE OF PAVEMENT
 - CURB
 - DEPRESSED CURB
 - ◆ FIRE HYDRANT
 - W WATER MARK-OUT
 - W WATER VALVE
 - G GAS MARK-OUT
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 - RAILROAD TRACKS
 - TAX LOT LINE
 - AREA OF REMEDIATION ACTIVITIES/ LIMIT OF DISTURBANCE

BOUNDARY AND TOPOGRAPHIC SURVEY BY BORBAS SURVEYING AND MAPPING PRINT DATED NOVEMBER 16, 2006. THE MAPPING IS SUBJECT TO THE FOLLOWING NOTES:

- 1) BOUNDARY INFORMATION AND LOT GEOMETRY IS TAKEN FROM A SURVEY BY YANACCONI, VILLA & ALDRICH, LLC DATED APRIL 8, 2004. A TITLE ABSTRACT/COMMITMENT HAS NOT BEEN SUPPLIED. THIS SURVEY IS SUBJECT TO THE FINDINGS OF A COMPLETE TITLE SEARCH.

- 2) THIS MAP REFLECTS SITE CONDITIONS AS THEY EXISTED AT THE TIME OF THE FIELD SURVEY. THE FIELD SURVEY OBSERVATIONS WERE OBTAINED BETWEEN SEPTEMBER 12, 2006 AND SEPTEMBER 20, 2006.

- 3) THE BASIS OF BEARING IS THE NEW JERSEY STATE PLANE COORDINATE SYSTEM NAD 83 DETERMINED BY DIFFERENTIAL GPS ON DECEMBER 22, 2005. REFERENCE MONUMENTS ARE NGS COR STATIONS NJ12, SHK1 AND LAMT.

- 4) THE PROJECT COMBINED GRID SCALE FACTOR IS 0.999920497 AT THE PROJECT CENTROID (N: 682981.62, E: 611168.7492 ELEV. 15.17)

- 5) COORDINATE VALUES SHOWN HEREON ARE IN US SURVEY FEET

- 6) THE VERTICAL DATUM IS THE EXISTING SITE DATUM AS SHOWN ON UNTITLED PLAN PROVIDED BY CLIENT. HELD PK 12 ELEVATION 11.48 (THE SITE DATUM IS 1.2' HIGHER THAN NAVD 88 AND 0.8' HIGHER THAN NGVD 29).

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- 9) LOT CORNERS ARE TO BE SET.

REFERENCES:

- 1) "SURVEY OF LOTS 1, 2, 4, 5 & 6 - BLOCK 2026.1 CITY OF JERSEY CITY, HUDSON COUNTY, NEW JERSEY" DATED APRIL 8, 2004 PREPARED BY YANACCONI, VILLA & ALDRICH, LLC, CHRISTOPHER J. ALDRICH, PLS.
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 NJ PROFESSIONAL ENGINEER
 24GE0498500

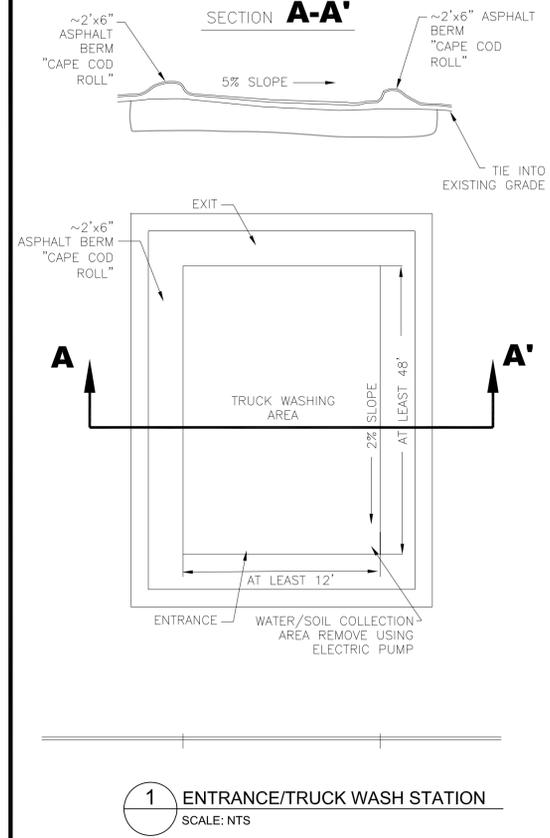
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SM					
SM					
HNO					
APPROVED BY:					

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SOIL EROSION + SEDIMENT CONTROL PLAN
SECC MEASURES
 PPG INDUSTRIES
 SITE 114
 JERSEY CITY, HUDSON COUNTY, NEW JERSEY
 AS SHOWN
 SCALE: 2/24/10
 PROJECT NUMBER: 60137538.0408

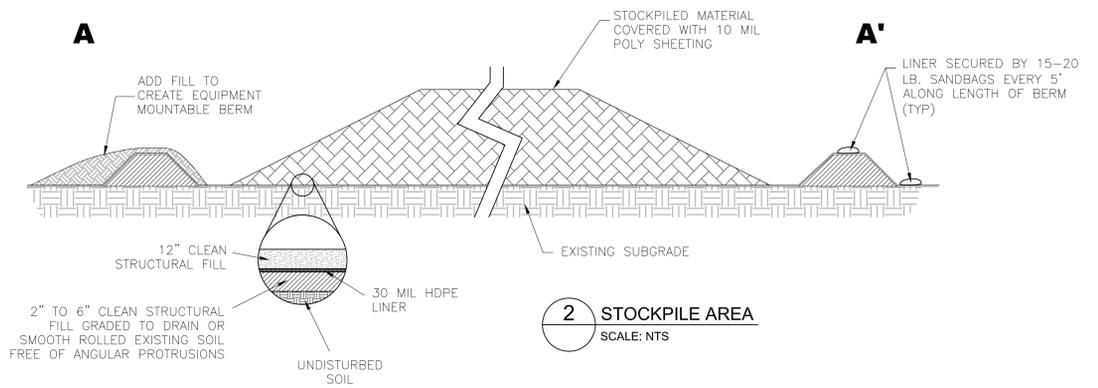
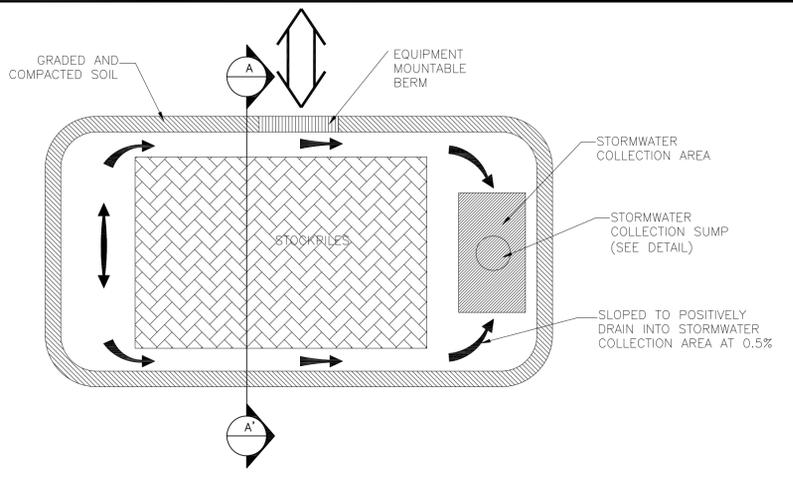
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 SHEET NUMBER:
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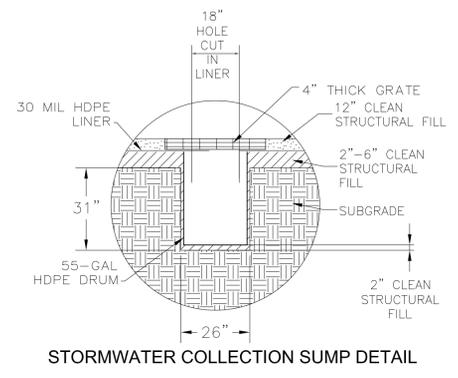


1 ENTRANCE/TRUCK WASH STATION
SCALE: NTS

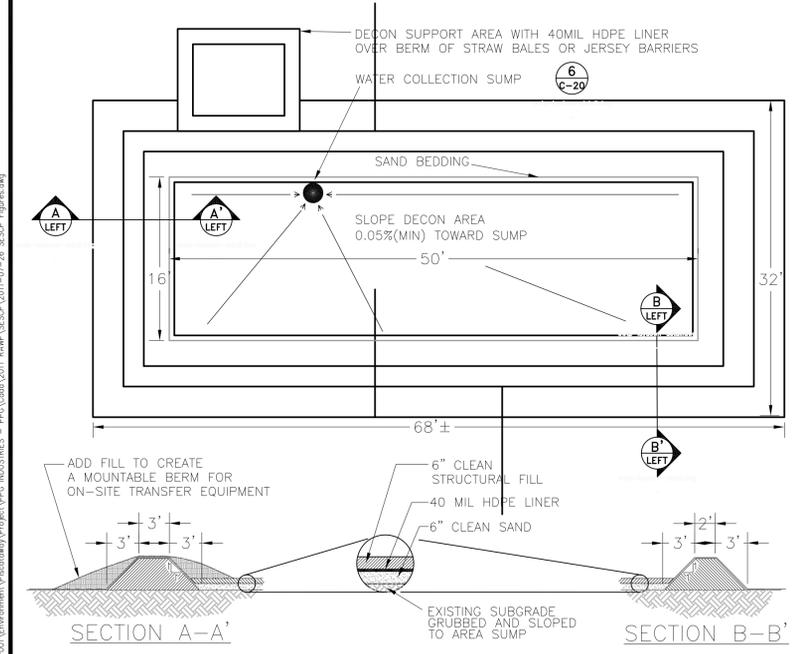
- NOTES:
1. STOCKPILE AREA DIMENSIONS AND SHAPE MAY VARY. ACTUAL SIZE WILL BE DETERMINED BASED ON SITE CONDITIONS AND REQUIRED STORAGE AREA. SUBCONTRACTOR SHALL DETERMINE FINAL SIZE OF AREA WITH APPROVAL BY SITE ENGINEER.
 2. EXISTING SUBGRADE SHALL BE FREE OF ANGULAR PROTRUSIONS. A TWO TO SIX INCH LAYER OF CLEAN STRUCTURAL BACKFILL SHALL BE PLACED, GRADED TO DRAIN AND COMPACTED TO A FIRM UNYIELDING SURFACE PRIOR TO PLACEMENT OF LINER.
 3. STOCKPILE AREA IS TO BE GRADED TO POSITIVELY DRAIN TOWARDS THE STORMWATER COLLECTION AREA.
 4. CONTAINMENT BERMS SHALL BE CONSTRUCTED OF IMPORTED CLEAN SOIL. NO ON SITE BORROW WILL BE AVAILABLE. PLACE STORMWATER CONTAINMENT BERM SOILS IN MAXIMUM OF 12" LIFTS.
 5. STORMWATER CONTAINMENT BERMS ARE TO BE MOISTURE CONDITIONED AND COMPACTED TO A FIRM, UNYIELDING CONDITION, AS DIRECTED BY THE SITE ENGINEER.
 6. INITIAL PLACEMENT OF EXCAVATED SEDIMENT WILL BE CAREFULLY PLACED IN A 12" LIFT SO THAT EQUIPMENT DOES NOT DAMAGE LINER.
 7. DAILY INSPECTION AND MAINTENANCE OF THE STORMWATER CONTAINMENT BERMS IS REQUIRED FOR THE DURATION OF THE PROJECT.
 8. STOCKPILED SOIL WILL BE COVERED WITH 10 MIL POLY SHEETING AT THE END OF EACH DAY AND WHEN NOT BEING WORKED ON.
 9. WHEN ONE-HALF (1/2) FULL, THE STORMWATER COLLECTION SUMP IS TO BE PUMPED OUT. COLLECTED STORMWATER TO BE CONTAINED AND DISPOSED OF AT THE DIRECTION OF THE SITE ENGINEER.
 10. SOLIDS ACCUMULATED IN THE SUMP WILL BE EXCAVATED PERIODICALLY AND PLACED ON THE WASTE MATERIAL STOCKPILE.
 11. UPON COMPLETION OF THE WORK, THE STOCKPILE AREA SHALL BE REMOVED, AND THE AREA GRADED.
 12. ANY DAMAGE TO STOCKPILE AREA MUST BE REPORTED TO THE SITE ENGINEER IMMEDIATELY.
 13. LINER SHALL BE 30 MIL HDPE ONE SOLID SHEET OR SHALL HAVE SEAMS WELDED PER MANUFACTURER'S RECOMMENDATIONS. NO OVERLAP WILL BE ACCEPTED.
 14. FLUSHMOUNT WELLS TO BE PROTECTED DURING INSTALLATION AND REMOVAL OF STOCKPILE AREA. LINER TO BE PLACED OVER TOP WELLS.



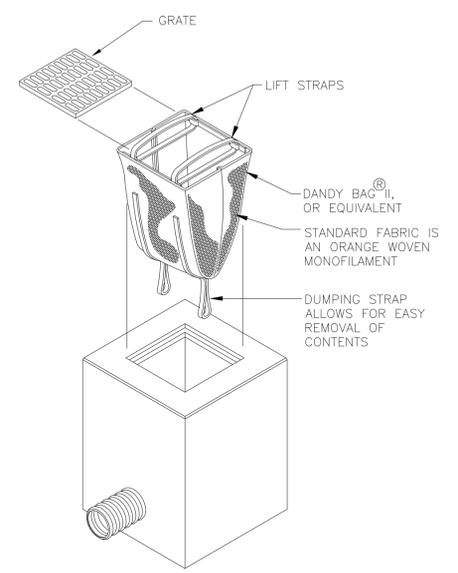
2 STOCKPILE AREA
SCALE: NTS



STORMWATER COLLECTION SUMP DETAIL



3 DECONTAMINATION PAD
SCALE: NTS

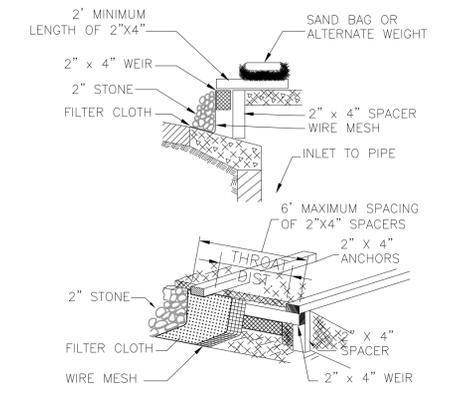


4 INLET PROTECTION DETAIL
SCALE: NTS

INLET PROTECTION
INSTALLATION AND MAINTENANCE GUIDELINES

INSTALLATION: REMOVE THE GRATE FROM CATCH BASIN. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY BAG II, OR EQUIVALENT, SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE SEDIMENT BAG. IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION.



CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. WOODEN FRAME SHALL BE CONSTRUCTED OF 2" x 4" CONSTRUCTION GRADE LUMBER.
2. WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30 INCH MINIMUM WIDTH WITH A LENGTH 4 FEET LONGER THAN THE THROAT. IT SHALL BE SHAPED AND SECURELY NAILED TO A 2" x 4" WEIR.
3. THE WEIR SHALL BE SECURELY NAILED TO 2" x 4" SPACERS 9 INCHES LONG SPACED NO MORE THAN 6 FEET APART.
4. THE ASSEMBLY SHALL BE PLACED AGAINST THE INLET AND SECURED BY 2" x 4" ANCHORS 2 FEET LONG EXTENDING ACROSS THE TOP OF THE INLET AND HELD IN PLACE WITH SANDBAGS OR ALTERNATE WEIGHTS.
5. MAXIMUM DRAINAGE AREA 1 ACRE.

5 STORM DRAIN DROP CURB INLET PROTECTION
SCALE: NTS

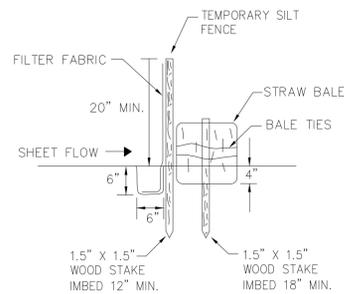
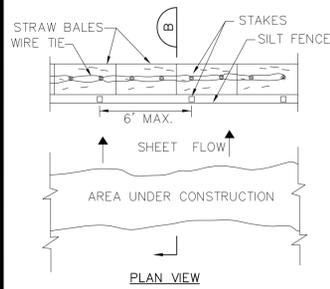
HUE N. QUAN, P.E.
NJ PROFESSIONAL ENGINEER
24GE0498500

REVISIONS	NO.	DESCRIPTION	DATE	BY
DESIGNED BY:	SM			
DRAWN BY:	SM			
CHECKED BY:	HNO			
APPROVED BY:				

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SOIL EROSION + SEDIMENT CONTROL PLAN
SECC DETAILS AND NOTES
PPG INDUSTRIES
SITE 114
JERSEY CITY, HUDSON COUNTY, NEW JERSEY
PROJECT NUMBER: 60190341.500A
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SCALE: NOT TO SCALE

DRAWING NUMBER:
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4 of 5



STRAW BALE INSTALLATION NOTES

EXCAVATE A 4" DEEP TRENCH TO MATCH THE WIDTH OF THE STRAW BALES.

PLACE BALES IN TRENCH WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.

ANCHOR BALES BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.

ADJOINING BALES SHALL BE SECURELY TIED TOGETHER TO PREVENT MOVEMENT.

STRAW WATTLES MAY BE USED IN LIEU OF STRAW BALES. IF USED, WATTLES SHALL BE INSTALLED AND SECURED IN PLACE PER MANUFACTURER'S RECOMMENDATIONS.

STRAW BALES SHOULD NOT BE USED FOR TURTLE EXCLUSION BARRIER.

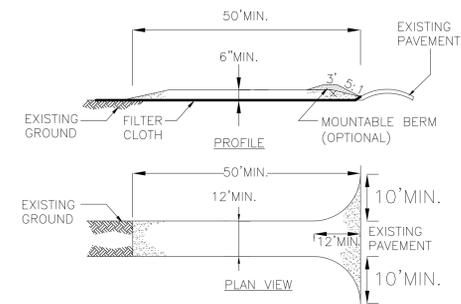
SILT FENCE INSTALLATION NOTES

SET POSTS AND EXCAVATE A 6" BY 6" TRENCH UPSLOPE ALONG THE LINE OF POSTS.

ATTACH FILTER FABRIC TO FENCE POST AND EXTEND IT INTO THE TRENCH.

BACKFILL AND COMPACT THE TRENCH USING THE EXCAVATED SOIL.

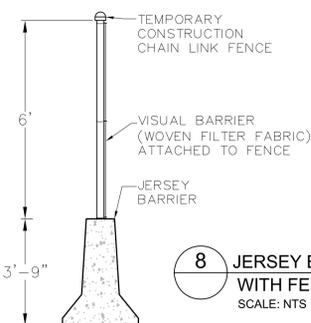
6 STRAW BALE/SILT FENCE
SCALE: NTS



CONSTRUCTION SPECIFICATIONS

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

7 CONSTRUCTION ENTRANCE
SCALE: NTS



8 JERSEY BARRIER WITH FENCE
SCALE: NTS

STANDARD FOR DEWATERING

DEFINITION: THE REMOVAL AND DISCHARGE OF SEDIMENT-LADEN WATER FROM AN EXCAVATED AREA, CONSTRUCTION SITE OR SEDIMENT BASIN.

PURPOSE: TO PROPERLY REMOVE SUSPENDED SEDIMENTS AND WATER FROM EXCAVATED AREAS THROUGH FILTRATION AND/OR SETTLEMENT PRIOR TO DISCHARGING WATER TO A RECEIVING WATER COURSE OR BODY.

WHERE APPLICABLE: DURING CONSTRUCTION, EXCAVATED FACILITIES NEED TO BE DEWATERED TO FACILITATE OR COMPLETE THE CONSTRUCTION PROCESS. THE WATER PUMPED OUT OF THE EXCAVATED AREAS CONTAIN SEDIMENTS THAT MUST BE REMOVED PRIOR TO DISCHARGING TO RECEIVING BODIES OF WATER. THIS STANDARD DOES NOT ADDRESS THE REMOVAL OF GROUND WATER THROUGH WELL POINTS, ETC. THIS STANDARD DESCRIBES THE FOLLOWING PRACTICES FOR THE REMOVAL OF SEDIMENT LADEN WATERS FROM EXCAVATION AREAS: REMOVABLE PUMPING STATIONS, SUMP PITS, PORTABLE SEDIMENTATION TANKS AND SILT.

WATER QUALITY ENHANCEMENT: WATER DISCHARGED FROM EXCAVATED AREAS ON CONSTRUCTION SITES MAY BE A SIGNIFICANT CONTRIBUTOR OF SEDIMENT TO SURFACE WATERS DURING CONSTRUCTION. WATER MUST BE REMOVED AND DISPOSED OF IN ORDER FOR CONSTRUCTION TO MOVE FORWARD. TYPICALLY, WATER IS PUMPED OR CONTAINMENT BERMS ARE BREACHED AND SEDIMENT LADEN WATERS ARE PERMITTED TO FLOW UNCONTROLLED INTO SURFACE WATERS SUCH AS STREAMS OR LAKES. BY EMPLOYING PRACTICES DESCRIBED IN THIS STANDARD, THE MAJORITY OF SEDIMENT SUSPENDED IN WATERS MAY EASILY BE REMOVED PRIOR TO LEAVING THE SITE. FILTERS AND MATERIALS DESCRIBED HEREIN ARE READILY AVAILABLE AND ARE EASY TO INSTALL AND MAINTAIN.

DESIGN CRITERIA:

- SEDIMENT TANKS/SILT CONTROL BAGS** ARE CONTAINERS THROUGH WHICH SEDIMENT LADEN WATER IS PUMPED TO TRAP AND RETAIN THE SEDIMENT. A SEDIMENT TANK OR A SILT CONTROL BAG IS TO BE USED ON SITES WHERE EXCAVATIONS ARE DEEP, AND SPACE IS LIMITED AND WHERE DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO STREAMS AND STORM DRAINAGE SYSTEMS IS TO BE AVOIDED.

CONSTRUCTION SPECIFICATIONS:

- LOCATION** - CONTAINERS (TANKS OR BAGS) SHALL BE LOCATED FOR EASE OF CLEAN-OUT AND DISPOSAL OF THE TRAPPED SEDIMENT AND TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND PEDESTRIAN TRAFFIC. BAGS SHALL NOT BE PLACED DIRECTLY INTO RECEIVING WATERS.
- TANK SIZE** - THE FOLLOWING FORMULA SHOULD BE USED IN DETERMINING THE STORAGE VOLUME OF THE TANK: 1 CUBIC FOOT OF STORAGE FOR EACH GALLON PER MINUTE OF PUMP DISCHARGE CAPACITY. A TYPICAL TANK CONFIGURATION IS SHOWN ON THE "PORTABLE SEDIMENT TANK" DETAIL. TANKS MAY BE CONNECTED IN SERIES TO INCREASE EFFECTIVENESS.
- TANKS CONSIST OF TWO CONCENTRIC CIRCULAR PIPES (CMP), ATTACHED TO A WATERTIGHT BASEPLATE. THE INNER CMP IS PERFORATED WITH 1" HOLES ON 6" CENTERS AND IS WRAPPED WITH GEOTEXTILE AND HARDWARE CLOTH. PUMPED WATER IS DISCHARGED INTO THE INNER CMP WHERE IT FLOWS THROUGH THE GEOTEXTILE INTO THE SPACE BETWEEN THE TWO CMP'S. A DISCHARGE LINE IS ATTACHED TO THE OUTER CMP AND DRAWS FILTERED WATER FROM THE ANNULUS BETWEEN THE TWO CONCENTRIC CMP'S. THE DISCHARGE LINE MAY BE CONNECTED TO ANOTHER TANK WHERE IT DRAINS TO THE INNER CMP OF THE SECOND TANK. THIS SERIES CONNECTION MAY BE CONTINUED INDEFINITELY.
- SEDIMENT CONTROL BAGS MUST BE LOCATED AWAY FROM RECEIVING WATERS AND DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS. SEE "SEDIMENT CONTROL BAG FOR DEWATERING" DETAIL.

PROPOSED INTERIM REMEDIAL MEASURE CONSTRUCTION SCHEDULE AND SEQUENCE:

- 1 DAY INSTALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SURROUNDING DISTURBANCE AREA. INSTALL INLET PROTECTION AROUND CATCHBASINS WITHIN AND NEAR DISTURBANCE AREA WHERE NECESSARY.
- 2 DAYS CONSTRUCT THE STOCKPILE STAGING/DEWATERING AREAS FOR SOIL.
- 5 DAYS ESTABLISH TEMPORARY DEWATERING SYSTEM UTILIZING SUMPS AND FRAC TANKS.
- 10 DAYS DRIVE SHEET PILING TO SPECIFIED DEPTH BELOW GROUND SURFACE (BGS) ALONG GARFIELD AVE.
- 120 DAYS BREAK UP SURFACE SLABS AND EXCAVATE SOILS.
- TBD PRETRENCH PHASE 1 PERIMETER EXCAVATION.
- TBD INSTALLATION OF PHASE 1 PERIMETER SHEET PILE SHORING.
- THROUGHOUT EXCAVATION DEWATERING. WATERS SHALL BE STORED ON-SITE. TREATED WATER SHALL BE COLLECTED AND DISPOSED OF OFF-SITE.
- THROUGHOUT CHARACTERIZE SOIL FOR DISPOSAL OR LOAD SOIL ONTO TRUCKS FOR DISPOSAL OFF-SITE.
- THROUGHOUT CHARACTERIZE SOIL FOR DISPOSAL OR LOAD SOIL ONTO TRUCKS FOR DISPOSAL OFF-SITE.
- THROUGHOUT GRADE AND COMPACT EXISTING SUBBASE TO RECEIVE FILL.
- THROUGHOUT PLACE 5-15 FEET OF CLEAN FILL INTO BOTTOMS OF EXCAVATIONS WITHIN WESTERN HALF OF IRM #1 AREA.
- THROUGHOUT GRADE AND RESTORE WITH IMPORTED CLEAN TOPSOIL AND HYDROSEED.
- 2 DAYS REMOVE STAGING/DEWATERING PADS. RESTORE AREA TO PRE-EXISTING CONDITIONS.
- 1 DAY REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES.

* ROADWAYS WILL BE INSPECTED DAILY AND SWEEP AS NEEDED TO PREVENT SOIL TRACKING AND ACCUMULATION.

** THE LOCATIONS OF SOIL EROSION AND SEDIMENT CONTROL MEASURES MAY BE FIELD ADJUSTED TO IMPROVE HEALTH AND SAFETY/TRAFFIC ON SITE. ANY SUBSTITUTIONS WILL BE MADE UNDER THE APPROVAL OF THE FIELD ENGINEER AND WILL BE AS EQUALLY PROTECTIVE AS ORIGINALLY PROPOSED CONTROL MEASURE.

SOIL EROSION AND SEDIMENT CONTROL NOTES

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN WILL BE CONSTRUCTED IN ACCORDANCE WITH THE "NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL" LAST REVISED JULY 1999. THESE MEASURES WILL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ALL SOIL TO BE EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 60 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION, WILL BE TEMPORARILY SEEDED AND HAY MULCHED OR OTHERWISE PROVIDED WITH VEGETATIVE COVER. THIS TEMPORARY COVER SHALL BE MAINTAINED UNTIL SUCH TIME WHEREBY PERMANENT RESTABILIZATION IS ESTABLISHED.
- SEEDING DATES:** THE FOLLOWING SEEDING DATES ARE BEST RECOMMENDED TO ESTABLISH PERMANENT VEGETATIVE COVER WITHIN MOST LOCATIONS IN THE HEPCSD: SPRING - 3/1-5/15 AND FALL - 8/15-10/1.
- SEDIMENT FENCES ARE TO BE PROPERLY TRENCHED AND MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.
- ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY ONE OF THE PRACTICES ACCEPTED IN THE STANDARDS AND REMAIN UNTIL PERMANENT STABILIZATION HAS BEEN ESTABLISHED. STORM DRAINAGE OUTLET POINTS SHALL BE PROTECTED AS REQUIRED BEFORE THEY BECOME FUNCTIONAL.
- MULCH MATERIALS SHALL BE UN-ROTTED SALT HAY OR SMALL GRAIN STRAW APPLIED AT THE RATE OF 70-90 POUNDS PER 1000 SQUARE FEET (1.5-2.0 TONS/ACRE). ADDITIONAL REQUIRED MULCH PRACTICES ARE PRESCRIBED IN THE STANDARDS.
- SOIL EROSION CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED, MAINTAINED AND CORRECTED BY THE CONTRACTOR. ANY DAMAGE INCURRED BY EROSION SHALL BE RECTIFIED IMMEDIATELY.
- THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT WILL BE NOTIFIED IN WRITING AT LEAST 48 HOURS PRIOR TO ANY SOIL DISTURBING ACTIVITIES. FAX - (973) 364-0784 EMAIL - INFORMATION@HEPCSD.ORG
- THE APPLICANT MUST OBTAIN A DISTRICT ISSUED REPORT-OF-COMPLIANCE PRIOR TO APPLYING FOR THE CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY FROM THE RESPECTIVE MUNICIPALITY, NJ-DCA OR ANY OTHER CONTROLLING AGENCY. CONTACT THE DISTRICT AND GIVE ADVANCED NOTICE UPON COMPLETION OF THE RESTABILIZATION MEASURES. A PERFORMANCE DEPOSIT MAY BE POSTED WITH THE DISTRICT WHEN WINTER WEATHER OR SNOW COVER PROHIBITS THE PROPER APPLICATION OF SEED, MULCH, FERTILIZER OR HYDRO-SEED.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. DO NOT UTILIZE A FIRE OR GARDEN HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT BASIN. ALL PUMP DEWATERING OPERATIONS SHALL BE DIRECTED TOWARD A FUNCTIONING SEDIMENT BASIN.
- ALL SURFACES ARE TO BE PROVIDED WITH 6 INCHES OF TOPSOIL PRIOR TO RE-SEEDING.
- ALL PLAN REVISIONS MUST BE SUBMITTED TO THE DISTRICT FOR PROPER REVIEW AND APPROVAL.
- A CRUSHED STONE WHEEL CLEANING TRACKING-PAD IS TO BE INSTALLED AT ALL SITE EXITS USING 2 1/2" CRUSHED STONE TO A MINIMUM LENGTH OF 50 FEET. ALL DRIVEWAYS MUST BE PROVIDED WITH CRUSHED STONE UNTIL PAVING IS COMPLETE.
- MAXIMUM SOIL SLOPES SHALL NOT EXCEED 2:1 UNLESS ADDITIONAL MEASURES ARE TAKEN AND APPROVED BY THE SOIL CONSERVATION DISTRICT. THESE "SPECIAL" MEASURES SHALL BE DESIGNED BY THE APPLICANT'S ENGINEER.
- THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED, IN WRITING, FOR THE SALE OF ANY PORTION OF THE PROJECT OR FOR THE SALE OF INDIVIDUAL LOTS. NEW OWNERS' INFORMATION SHALL BE PROVIDED. ADDITIONAL MEASURES DEFEMED NECESSARY BY DISTRICT OFFICIALS SHALL BE IMPLEMENTED AS CONDITIONS WARRANT.

STANDARD FOR DUST CONTROL

DEFINITION: THE CONTROL OF DUST ON CONSTRUCTION SITES AND ROADS.

PURPOSE: TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCED ON-SITE AND OFF-SITE DAMAGE AND HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.

WHERE APPLICABLE: THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON-SITE AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT. CONSULT WITH LOCAL MUNICIPAL ORDINANCES ON ANY RESTRICTIONS.

WATER QUALITY ENHANCEMENT: SEDIMENTS DEPOSITED AS "DUST" ARE OFTEN FINE COLLOIDAL MATERIAL WHICH IS EXTREMELY DIFFICULT TO REMOVE FROM WATER ONCE IT BECOMES SUSPENDED. USE OF THIS STANDARD WILL HELP TO CONTROL THE GENERATION OF DUST FROM CONSTRUCTION SITES AND SUBSEQUENT BLOWING AND DEPOSITION INTO LOCAL SURFACE WATER RESOURCES.

PLANNING CRITERIA: SPRINKLING - SITE AND EXCAVATION SOILS ARE SPRINKLED WITH WATER UNTIL THE SURFACE IS WET.

P:\Environment\Passaic\Projects\PPG Industries - PPG\Code\2011 RAMP\SESP\2011-07-28_SESP_Figures.dwg

HUE N. QUAN, P.E.
NJ PROFESSIONAL ENGINEER
24GE0498500

NO.	REVISIONS	DESCRIPTION	DATE	BY

AECOM

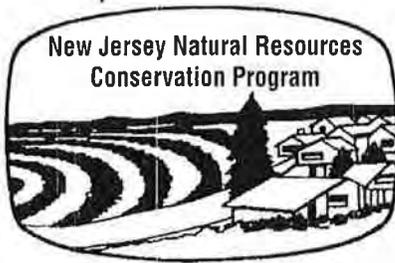
30 KNIGHTSBRIDGE ROAD, SUITE 520
PISCATAWAY, NEW JERSEY 08854
PHONE: (732) 969-0000
FAX: (732) 369-0122
WEB: HTTP://WWW.AECOM.COM

SOIL EROSION + SEDIMENT CONTROL PLAN
SESC DETAILS AND NOTES
PPG INDUSTRIES
SITE 114
JERSEY CITY, HUDSON COUNTY, NEW JERSEY

PROJECT NUMBER: 60190341.500A
DATE: 07/26/11
SCALE: NOT TO SCALE

DRAWING NUMBER:
4

SHEET NUMBER:
5 of 5



HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT

15 BLOOMFIELD AVENUE
NORTH CALDWELL, NJ 07006
Telephone: (973) 364-0786
Fax: (973) 364-0784
information@hepscd.org
www.hepsoilnj.org

March 8, 2012

Mr. Brian G. McGuire
PPG Industries, Inc.
4325 Rosanna Dr.
Allison Park, PA 15101-2009

Re: **PPG Site 114 Southwest Area Remedial Action**
880-900 Garfield Ave, Jersey City, NJ
Block: 2026.A; 2026.1 Lot: 1,3A; 2A,4A,3B
HEPSCD 251 ID Code #212-H-2969, Plan dated: 1/30/12

Dear Sir/Madam:

The District has completed the review of the soil erosion and sediment control plan for the above referenced project and hereby reports that the plan meets the Standards for Soil Erosion and Sediment Control in New Jersey (N.J.A.C.290-1.1 et seq., promulgated pursuant to the New Jersey Soil Erosion and Sediment Control Act, N.J.S.A.4-24-39 et seq.). Accordingly, the plan is **certified** by the Hudson-Essex-Passaic Soil Conservation District subject to the following conditions:

- The District must be notified in writing 48 hours prior to the commencement of any construction activity.
- A copy of the certified plan must be kept on the job site at all times.
- The applicant or contractor must request a final inspection (once landscaping and final soil stabilization is complete) prior to seeking a temporary or permanent Certificate of Occupancy.
- The District must be provided with written notification of any conveyance of this project, subject property, or portions thereof, including individual residential lots if applicable. Said notice must provide the names, addresses, and telephone numbers of subsequent owners.
- The District must be informed of address and or telephone number changes of owners, agents responsible for site construction, and job supervisors.

Please be advised that the Soil Erosion and Sediment Control Act authorizes the issuance of stop construction orders and penalties of up to \$3000 per day for violations of the certified plan or for failure to comply with the aforementioned requirements. Please be further advised that any conveyance of this project or portions thereof will transfer full responsibility for compliance with the certified plan to subsequent owners. Please contact the District if you require assistance implementing the certified soil erosion and sediment control plan. This certification is valid for 3-1/2 years from the date of this letter and is limited to the controls specified in this plan. It is not authorization to engage in proposed land use unless such use has been previously approved by the municipality or other controlling agency.

Yours truly,

A handwritten signature in black ink, appearing to read "Carl Quazza".

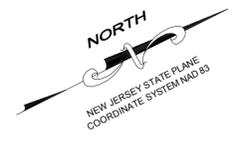
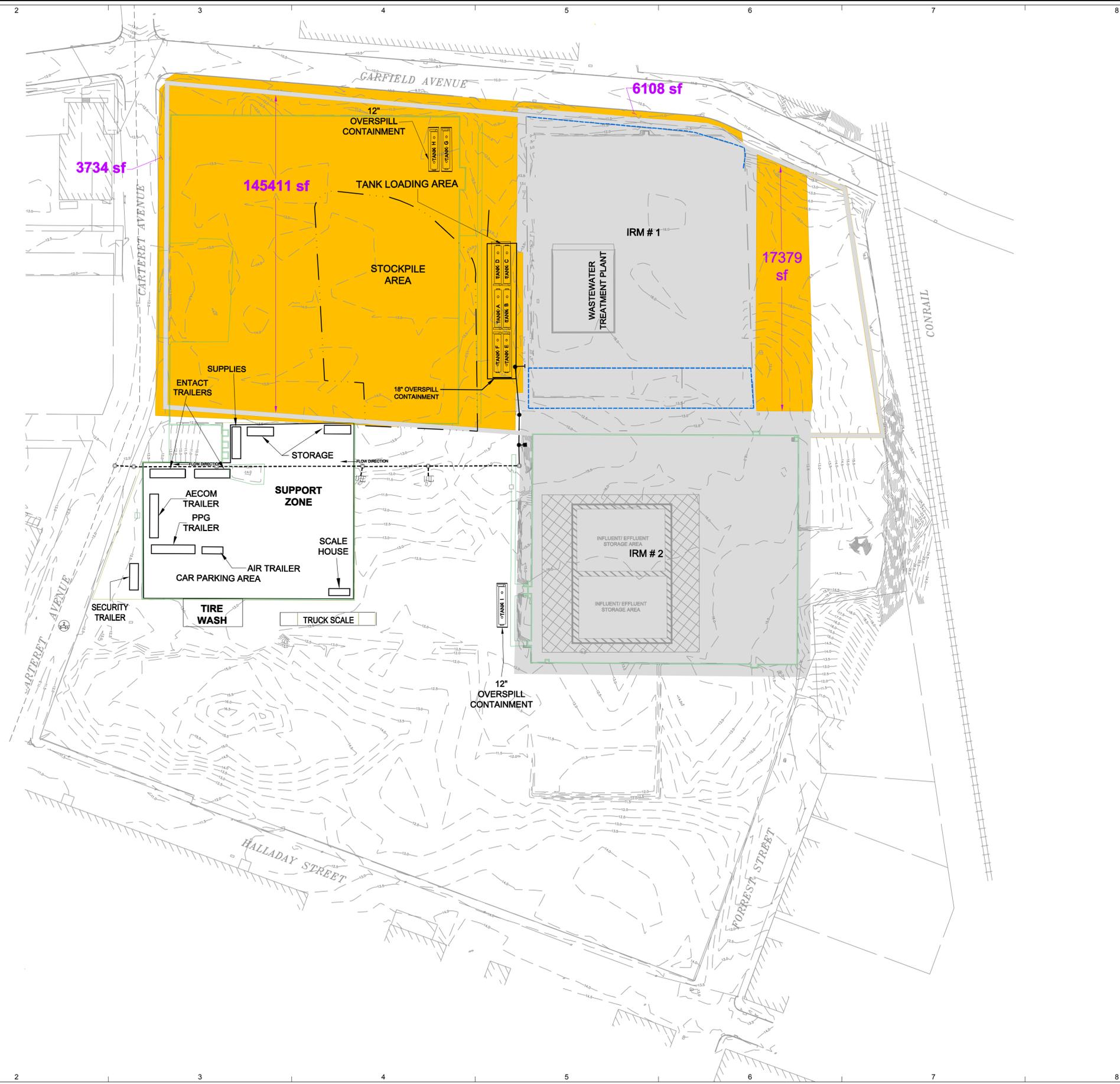
Carl Quazza
Chairman

Cc: Planner, Municipality, County

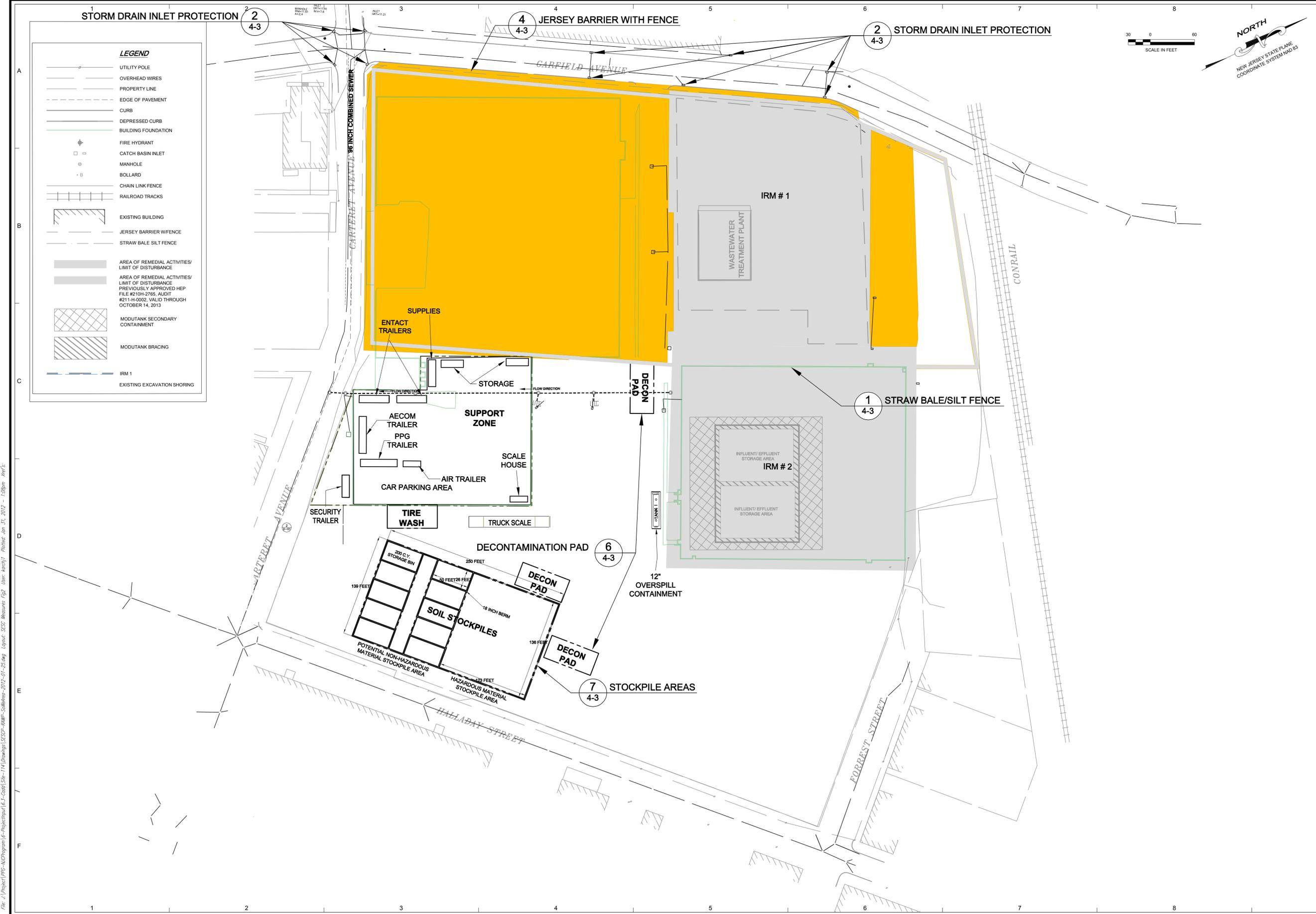
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LEGEND

- UTILITY POLE
- OVERHEAD WIRES
- PROPERTY LINE
- EDGE OF PAVEMENT
- CURB
- DEPRESSED CURB
- BUILDING FOUNDATION
- FIRE HYDRANT
- CATCH BASIN INLET
- MANHOLE
- BOLLARD
- CHAIN LINK FENCE
- RAILROAD TRACKS
- AREA OF REMEDIAL ACTIVITIES/ LIMIT OF DISTURBANCE
- AREA OF REMEDIAL ACTIVITIES/ LIMIT OF DISTURBANCE PREVIOUSLY APPROVED #211-H-0002, VALID THROUGH OCTOBER 14, 2013
- EXISTING BUILDING
- MODUTANK SECONDARY CONTAINMENT
- MODUTANK BRACING
- EXISTING STORMWATER DRAINAGE SYSTEM
- IRM #1
- EXISTING EXCAVATION SHORING
- 15' GROUND SURFACE ELEVATION



HUE N. QUAN, P.E. NJ PROFESSIONAL ENGINEER 24GE0488900	
<p style="font-size: 8px;">AECOM 30 Kingbridge Road, Suite 520 Roseland, NJ 07068 www.aecom.com NJ C.O.A. No.: 24C04800200</p>	PPG INDUSTRIES SOUTHWEST AREA - SITE 114 JERSEY CITY, HUDSON COUNTY, NJ PROJ. NO.: 60158739 DATE: 01/30/12
EXISTING CONDITIONS PLAN	SOUTHWEST AREA
DRAWING NUMBER: 1	
SHEET NUMBER: 1 of 1	
REVISION	



LEGEND

- UTILITY POLE
- OVERHEAD WIRES
- PROPERTY LINE
- EDGE OF PAVEMENT
- CURB
- DEPRESSED CURB
- BUILDING FOUNDATION
- FIRE HYDRANT
- CATCH BASIN INLET
- MANHOLE
- BOLLARD
- CHAIN LINK FENCE
- RAILROAD TRACKS
- EXISTING BUILDING
- JERSEY BARRIER W/FENCE
- STRAW BALE SILT FENCE
- AREA OF REMEDIAL ACTIVITIES/ LIMIT OF DISTURBANCE
- AREA OF REMEDIAL ACTIVITIES/ LIMIT OF DISTURBANCE PREVIOUSLY APPROVED HEP FILE #210H-2765, AUDIT #211-H-0002, VALID THROUGH OCTOBER 14, 2013
- MODUTANK SECONDARY CONTAINMENT
- MODUTANK BRACING
- IRM 1
- EXISTING EXCAVATION SHORING

HUE N. QUAN, P.E.
 NJ PROFESSIONAL ENGINEER
 246C468900

NO.	DATE	REVISION	CHKD.	DATE	APP'D.	DATE
0	R.M.T. 01/30/12	ORIGINATION	HNQ	01/30/12	CM	01/30/12



PPG INDUSTRIES
 SOUTHWEST AREA - SITE 114
 JERSEY CITY, HUDSON COUNTY, NJ

PROJ. NO.: 60158739 DATE: 01/30/12

SOIL EROSION AND SEDIMENT CONTROL MEASURES
 SOUTHWEST AREA

DRAWING NUMBER:	2
SHEET NUMBER:	1 of 1
REVISION	

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HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT

15 BLOOMFIELD AVENUE
NORTH CALDWELL, NJ 07006
Telephone: (973) 364-0786
Fax: (973) 364-0784
information@hepscd.org
www.hepsolnj.org

September 20, 2012

Mr. Brian McGuire
PPG Industries, Inc.
4325 Rosanna Drive
Allison Park, PA 15101

Re: **PPG Site 114 Southwest Area Remedial Action**
Revisions to Certified Plan: Revised to add Phase 1C Excavation & Disposal
880-900 Garfield Ave, Jersey City, NJ
Block: 21501 Lot: 16,17,18,19
212-H-0022 re-review of HEP Ch.251 #**212-H-2969** SESC rev. 8/31/12

Dear Applicant:

The District has completed the review of the revised soil erosion and sediment control plan for the above referenced project and hereby reports that the plan meets the Standards for Soil Erosion and Sediment control in New Jersey (N.J.A.C.290-1.1 et seq., promulgated pursuant to the New Jersey Soil Erosion and Sediment Control Act, N.J.S.A.4-24-39 et seq.). Accordingly, the plan **remains certified** by the Hudson-Essex-Passaic Soil Conservation District subject to the following conditions:

- The District must be notified by mail 48 hours prior to the commencement of any construction activity.
- A copy of the certified plan must be kept on the job site at all times.
- The applicant or contractor must request a final inspection (once landscaping and final soil stabilization is complete) prior to seeking a temporary or permanent Certificate of Occupancy.
- The District must be provided with written notification of any conveyance of this project, subject property, or portions thereof, including individual residential lots if applicable. Said notice must provide the names, addresses, and telephone numbers of subsequent owners.
- The District must be informed of address and or telephone number changes of owners, agents responsible for site construction, and job supervisors.

Please be advised that the Soil Erosion and Sediment Control Act authorizes the issuance of stop construction orders and penalties of up to \$3000 per day for violations of the certified plan or for failure to comply with the aforementioned requirements. Please be further advised that any conveyance of this project or portions thereof will transfer full responsibility for compliance with the certified plan to subsequent owners. Please contact the District if you require assistance implementing the certified soil erosion and sediment control plan. This certification remains valid through September 8, 2015, and is limited to the controls specified in this plan. It is not authorization to engage in proposed land use unless such use has been previously approved by the municipality or other controlling agency.

Yours truly,


Carl Quazza
Chairman

Cc: Planner, Municipality, County

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STANDARD FOR DEWATERING

DEFINITION: THE REMOVAL AND DISCHARGE OF SEDIMENT-LADEN WATER FROM AN EXCAVATED AREA, CONSTRUCTION SITE OR SEDIMENT BASIN.

PURPOSE: TO PROPERLY REMOVE SUSPENDED SEDIMENTS AND WATER FROM EXCAVATED AREAS THROUGH FILTRATION AND/OR SETTLEMENT PRIOR TO DISCHARGING WATER TO A RECEIVING WATER COURSE OR BODY.

WHERE APPLICABLE: DURING CONSTRUCTION, EXCAVATED FACILITIES NEED TO BE DEWATERED TO FACILITATE OR COMPLETE THE CONSTRUCTION PROCESS. THE WATER PUMPED OUT OF THE EXCAVATED AREAS CONTAIN SEDIMENTS THAT MUST BE REMOVED PRIOR TO DISCHARGING TO RECEIVING BODIES OF WATER. THIS STANDARD DOES NOT ADDRESS THE REMOVAL OF GROUND WATER THROUGH WELL POINTS, ETC. THIS STANDARD DESCRIBES THE FOLLOWING PRACTICES FOR THE REMOVAL OF SEDIMENT LADEN WATERS FROM EXCAVATION AREAS: REMOVABLE PUMPING STATIONS, SUMP PITS, PORTABLE SEDIMENTATION TANKS AND SILT.

WATER QUALITY ENHANCEMENT: WATER DISCHARGED FROM EXCAVATED AREAS ON CONSTRUCTION SITES MAY BE A SIGNIFICANT CONTRIBUTOR OF SEDIMENT TO SURFACE WATERS DURING CONSTRUCTION. WATER MUST BE REMOVED AND DISPOSED OF IN ORDER FOR CONSTRUCTION TO MOVE FORWARD. TYPICALLY, WATER IS PUMPED OR CONTAINMENT BERMS ARE BREACHED AND SEDIMENT LADEN WATERS ARE PERMITTED TO FLOW UNCONTROLLED INTO SURFACE WATERS SUCH AS STREAMS OR LAKES. BY EMPLOYING PRACTICES DESCRIBED IN THIS STANDARD, THE MAJORITY OF SEDIMENT SUSPENDED IN WATERS MAY EASILY BE REMOVED PRIOR TO LEAVING THE SITE. FILTERS AND MATERIALS DESCRIBED HEREIN ARE READILY AVAILABLE AND ARE EASY TO INSTALL AND MAINTAIN.

DESIGN CRITERIA:

1. **SEDIMENT TANKS/SILT CONTROL BAGS** ARE CONTAINERS THROUGH WHICH SEDIMENT LADEN WATER IS PUMPED TO TRAP AND RETAIN THE SEDIMENT. A SEDIMENT TANK OR A SILT CONTROL BAG IS TO BE USED ON SITES WHERE EXCAVATIONS ARE DEEP, AND SPACE IS LIMITED AND WHERE DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO STREAMS AND STORM DRAINAGE SYSTEMS IS TO BE AVOIDED.

CONSTRUCTION SPECIFICATIONS:

- A. **LOCATION** - CONTAINERS (TANKS OR BAGS) SHALL BE LOCATED FOR EASE OF CLEAN-OUT AND DISPOSAL OF THE TRAPPED SEDIMENT AND TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND PEDESTRIAN TRAFFIC. BAGS SHALL NOT BE PLACED DIRECTLY INTO RECEIVING WATERS.
- B. **TANK SIZE** - THE FOLLOWING FORMULA SHOULD BE USED IN DETERMINING THE STORAGE VOLUME OF THE TANK: 1 CUBIC FOOT OF STORAGE FOR EACH GALLON PER MINUTE OF PUMP DISCHARGE CAPACITY. A TYPICAL TANK CONFIGURATION IS SHOWN ON THE "PORTABLE SEDIMENT TANK" DETAIL. TANKS MAY BE CONNECTED IN SERIES TO INCREASE EFFECTIVENESS.
- C. TANKS CONSIST OF TWO CONCENTRIC CIRCULAR PIPES (CMP), ATTACHED TO A WATERTIGHT BASEPLATE. THE INNER CMP IS PERFORATED WITH 1" HOLES ON 6" CENTERS AND IS WRAPPED WITH GEOTEXTILE AND HARDWARE CLOTH. PUMPED WATER IS DISCHARGED INTO THE INNER CMP WHERE IT FLOWS THROUGH THE GEOTEXTILE INTO THE SPACE BETWEEN THE TWO CMP'S. A DISCHARGE LINE IS ATTACHED TO THE OUTER CMP AND DRAWS FILTERED WATER FROM THE ANNULUS BETWEEN THE TWO CONCENTRIC CMP'S. THE DISCHARGE LINE MAY BE CONNECTED TO ANOTHER TANK WHERE IT DRAINS TO THE INNER CMP OF THE SECOND TANK. THIS SERIES CONNECTION MAY BE CONTINUED INDEFINITELY.
- D. SEDIMENT CONTROL BAGS MUST BE LOCATED AWAY FROM RECEIVING WATERS AND DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS. SEE "SEDIMENT CONTROL BAG FOR DEWATERING" DETAIL.

PROPOSED PHASE IC AREA CONSTRUCTION SCHEDULE AND SEQUENCE:

1. 2 DAYS INSTALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SURROUNDING DISTURBANCE AREA. INSTALL INLET PROTECTION AROUND CATCHBASINS WITHIN AND NEAR DISTURBANCE AREA WHERE NECESSARY.
2. 10 DAYS PRE-TRENCH AND INSTALL SHEETING.
3. 80 DAYS BREAK UP SURFACE SLABS AND EXCAVATE SOILS.
4. THROUGHOUT EXCAVATION DEWATERING. WATERS SHALL BE STORED AND PRE-TREATED ON-SITE. TREATED WATER SHALL BE DISCHARGED TO THE LOCAL PUBLICLY OWNED TREATMENT WORKS.
5. THROUGHOUT CHARACTERIZE SOIL FOR DISPOSAL OR LOAD SOIL ONTO TRUCKS FOR DISPOSAL OFF-SITE.
6. THROUGHOUT GRADE AND COMPACT EXISTING SUBBASE TO RECEIVE FILL.
7. THROUGHOUT PLACE 5-18 FEET OF CLEAN FILL INTO BOTTOMS OF EXCAVATIONS WITHIN PHASE IC PORTION OF SITE 114
8. THROUGHOUT GRADE AND RESTORE WITH IMPORTED FILL AND LINER SYSTEM.
9. 10 DAYS RESTORE AREA TO PRE-EXISTING CONDITIONS.
10. 2 DAYS REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES.

* ROADWAYS WILL BE INSPECTED DAILY AND SWEEPED AS NEEDED TO PREVENT SOIL TRACKING AND ACCUMULATION.

** THE LOCATIONS OF SOIL EROSION AND SEDIMENT CONTROL MEASURES MAY BE FIELD ADJUSTED TO IMPROVE HEALTH AND SAFETY/TRAFFIC ON SITE. ANY SUBSTITUTIONS WILL BE MADE UNDER THE APPROVAL OF THE FIELD ENGINEER AND WILL BE AS EQUALLY PROTECTIVE AS ORIGINALLY PROPOSED CONTROL MEASURE.

SOIL EROSION AND SEDIMENT CONTROL NOTES

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN WILL BE CONSTRUCTED IN ACCORDANCE WITH THE "NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL" LAST REVISED JULY 1999. THESE MEASURES WILL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ALL SOIL TO BE EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 60 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION, WILL BE TEMPORARILY SEEDED AND HAY MULCHED OR OTHERWISE PROVIDED WITH VEGETATIVE COVER. THIS TEMPORARY COVER SHALL BE MAINTAINED UNTIL SUCH TIME WHEREBY PERMANENT RESTABILIZATION IS ESTABLISHED.
3. **SEEDING DATES:** THE FOLLOWING SEEDING DATES ARE BEST RECOMMENDED TO ESTABLISH PERMANENT VEGETATIVE COVER WITHIN MOST LOCATIONS IN THE HEPCSD: SPRING - 3/1-5/15 AND FALL - 8/15-10/1.
4. SEDIMENT FENCES ARE TO BE PROPERLY TRENCHED AND MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.
5. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY ONE OF THE PRACTICES ACCEPTED IN THE STANDARDS AND REMAIN UNTIL PERMANENT STABILIZATION HAS BEEN ESTABLISHED. STORM DRAINAGE OUTLET POINTS SHALL BE PROTECTED AS REQUIRED BEFORE THEY BECOME FUNCTIONAL.
6. MULCH MATERIALS SHALL BE UN-ROTTED SALT HAY OR SMALL GRAIN STRAW APPLIED AT THE RATE OF 70-90 POUNDS PER 1000 SQUARE FEET (1.5-2.0 TONS/ACRE). ADDITIONAL REQUIRED MULCH PRACTICES ARE PRESCRIBED IN THE STANDARDS.
7. ALL EROSION CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED, MAINTAINED AND CORRECTED BY THE CONTRACTOR. ANY DAMAGE INCURRED BY EROSION SHALL BE RECTIFIED IMMEDIATELY.
8. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT WILL BE NOTIFIED IN WRITING AT LEAST 48 HOURS PRIOR TO ANY SOIL DISTURBING ACTIVITIES. FAX - (973) 364-0784 EMAIL - INFORMATION@HEPCSD.ORG
9. THE APPLICANT MUST OBTAIN A DISTRICT ISSUED REPORT-OF-COMPLIANCE PRIOR TO APPLYING FOR THE CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY FROM THE RESPECTIVE MUNICIPALITY, NJ-DCA OR ANY OTHER CONTROLLING AGENCY. CONTACT THE DISTRICT AND GIVE ADVANCED NOTICE UPON COMPLETION OF THE RESTABILIZATION MEASURES. A PERFORMANCE DEPOSIT MAY BE POSTED WITH THE DISTRICT WHEN WINTER WEATHER OR SNOW COVER PROHIBITS THE PROPER APPLICATION OF SEED, MULCH, FERTILIZER OR HYDRO-SEED.
10. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. DO NOT UTILIZE A FIRE OR GARDEN HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT BASIN. ALL PUMP DEWATERING OPERATIONS SHALL BE DIRECTED TOWARD A FUNCTIONING SEDIMENT BASIN.
11. ALL SURFACES ARE TO BE PROVIDED WITH 6 INCHES OF TOPSOIL PRIOR TO RE-SEEDING.
12. ALL PLAN REVISIONS MUST BE SUBMITTED TO THE DISTRICT FOR PROPER REVIEW AND APPROVAL.
13. A CRUSHED STONE WHEEL CLEANING TRACKING-PAD IS TO BE INSTALLED AT ALL SITE EXITS USING 2 3/4" CRUSHED STONE TO A MINIMUM LENGTH OF 50 FEET. ALL DRIVEWAYS MUST BE PROVIDED WITH CRUSHED STONE UNTIL PAVING IS COMPLETE.
14. MAXIMUM SOIL SLOPES SHALL NOT EXCEED 2:1 UNLESS ADDITIONAL MEASURES ARE TAKEN AND APPROVED BY THE SOIL CONSERVATION DISTRICT. THESE "SPECIAL" MEASURES SHALL BE DESIGNED BY THE APPLICANT'S ENGINEER.
15. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED, IN WRITING, FOR THE SALE OF ANY PORTION OF THE PROJECT OR FOR THE SALE OF INDIVIDUAL LOTS. NEW OWNERS' INFORMATION SHALL BE PROVIDED. ADDITIONAL MEASURES DEEMED NECESSARY BY DISTRICT OFFICIALS SHALL BE IMPLEMENTED AS CONDITIONS WARRANT.

STANDARD FOR DUST CONTROL

DEFINITION: THE CONTROL OF DUST ON CONSTRUCTION SITES AND ROADS.

PURPOSE: TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCED ON-SITE AND OFF-SITE DAMAGE AND HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.

WHERE APPLICABLE: THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON-SITE AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT. CONSULT WITH LOCAL MUNICIPAL ORDINANCES ON ANY RESTRICTIONS.

WATER QUALITY ENHANCEMENT: SEDIMENTS DEPOSITED AS "DUST" ARE OFTEN FINE COLLOIDAL MATERIAL WHICH IS EXTREMELY DIFFICULT TO REMOVE FROM WATER ONCE IT BECOMES SUSPENDED. USE OF THIS STANDARD WILL HELP TO CONTROL THE GENERATION OF DUST FROM CONSTRUCTION SITES AND SUBSEQUENT BLOWING AND DEPOSITION INTO LOCAL SURFACE WATER RESOURCES.

PLANNING CRITERIA: SPRINKLING - SITE AND EXCAVATION SOILS ARE SPRINKLED WITH WATER UNTIL THE SURFACE IS WET.



PPG INDUSTRIES
PHASE IC AREA - SITE 114
JERSEY CITY, HUDSON COUNTY, NJ

PROJ. NO.: 60240739

DATE: 08/31/12

SOIL EROSION AND SEDIMENT CONTROL DETAILS & NOTES

PHASE IC AREA

DRAWING NUMBER:	4
SHEET NUMBER:	5 of 5
REVISION	

HUEN QUAN, P.E.	NI PROFESSIONAL ENGINEER 246048950
	APP'D DATE
	CHK'D DATE
	REVISION
	NO. DRWN/DATE



HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT

15 BLOOMFIELD AVENUE
NORTH CALDWELL, NJ 07006
Telephone: (973) 364-0786
Fax: (973) 364-0784
information@hepscd.org
www.hepsoilnj.org

February 5, 2013

Mr. Brian G. McGuire
PPG Industries, Inc.
4325 Rosanna Dr.
Allison Park, NJ 15101

Re: **PPG Phase 2B-1, 2B-3 (Site 114) & Phase 3A (Sites 132,137,&143)**
880,824 & 846 Garfield Ave and 25 Halladay St, Jersey City, NJ
Block: 21501;21510 Lot: 16-20;2,4,1
HEPSCD 251 ID Code #213-H-3117, plan dated 1/14/13

Dear Sir/Madam:

The District has completed the review of the soil erosion and sediment control plan for the above referenced project and hereby reports that the plan meets the Standards for Soil Erosion and Sediment Control in New Jersey (N.J.A.C.290-1.1 et seq., promulgated pursuant to the New Jersey Soil Erosion and Sediment Control Act, N.J.S.A.4-24-39 et seq.). Accordingly, the plan is **certified** by the Hudson-Essex-Passaic Soil Conservation District subject to the following conditions:

- The District must be notified in writing 48 hours prior to the commencement of any construction activity.
- A copy of the certified plan must be kept on the job site at all times.
- The applicant or contractor must request a final inspection (once landscaping and final soil stabilization is complete) prior to seeking a temporary or permanent Certificate of Occupancy.
- The District must be provided with written notification of any conveyance of this project, subject property, or portions thereof, including individual residential lots if applicable. Said notice must provide the names, addresses, and telephone numbers of subsequent owners.
- The District must be informed of address and or telephone number changes of owners, agents responsible for site construction, and job supervisors.

Please be advised that the Soil Erosion and Sediment Control Act authorizes the issuance of stop construction orders and penalties of up to \$3000 per day for violations of the certified plan or for failure to comply with the aforementioned requirements. Please be further advised that any conveyance of this project or portions thereof will transfer full responsibility for compliance with the certified plan to subsequent owners. Please contact the District if you require assistance implementing the certified soil erosion and sediment control plan. This certification is valid for 3-1/2 years from the date of this letter and is limited to the controls specified in this plan. It is not authorization to engage in proposed land use unless such use has been previously approved by the municipality or other controlling agency.

Yours truly,

Carl Quazza
Chairman

Cc: Planner, Municipality, County



For District Use Only

Application Number	213-4-3117
Certification	2/5/13
Discharge to	PO-TW

APPLICATION FOR SOIL EROSION AND SEDIMENT CONTROL PLAN CERTIFICATION

The enclosed soil erosion and sediment control plan and supporting information are submitted for certification pursuant to the Soil Erosion and Sediment Control Act, Chapter 251, P.L. 1975 as amended (NJSA 4:24-39 et seq.) An application for certification of a soil erosion and sediment control plan shall include the items listed on the reverse side of this form

Name of Project PPG Phases 2B-1 & 2B-3 (Site 114) and 3A (Sites 132, 137 & 143)		Project Location: Municipality Jersey City, Hudson County	
Project Street Address 880; 824 & 846 Garfield Ave and 25 Halladay St		Block 21501; 21510	Lot 16-20; 2, 1, & 4 respectively
Project Owner(s) Name PPG Industries, Inc.		Phone : 412-492-5683 Fax # 412-492-5484	
Project Owner(s) Street Address (No P.O. Box Numbers) 4325 Rosanna Drive		City Allison Park	State PA
		Zip 15101	
Total Area of Project (Acres) 9.96	Total Area or Land to be Disturbed (Acres) 9.96	No. Dwelling or other Units N/A Cat D	Fee \$ 2175.00
Plans Prepared by* AECOM		Phone # 732-564-3631 Fax # 732-369-0122	
Street Address 30 Knightsbridge Road, Suite 520		City Piscataway	State NJ Zip 08854

(Engineering related items of the Soil Erosion and Sediment Control Plan MUST be prepared by or under the direction of and be sealed by a Professional Engineer or Architect licensed in the State of New Jersey, in accordance with NJAC 13:27-6.1 et. seq.)

Agent Responsible During Construction AECOM	
Street Address 30 Knightsbridge Road, Suite 520	
City Piscataway	State NJ Zip 08854
Phone 732-564-3631	Fax # 732-369-0122

The applicant hereby certifies that all soil erosion and sediment control measures are designed in accordance with current Standards for Soil Erosion and Sediment Control In New Jersey and will be installed in accordance with those Standards and the plan as approved by the Soil Conservation District and agrees as follows:

- To notify the District in writing at least 48 hours in advance of any land disturbance activity. Failure to provide such notification may result in additional inspection fees
- To notify the District upon completion of the Project (Note: No certificate of occupancy can be granted until a report of compliance is issued by the District.
- To maintain a copy of the certified plan on the project site during construction
- To allow District agents to go upon project lands for inspection
- That any conveyance of this project or portion thereof prior to its completion will transfer full responsibility for compliance with the certified plan to any subsequent owners
- To comply with all terms and conditions of this application and certified plan including payment of all fees prescribed by the district fee schedule hereby incorporated by reference.

The applicant hereby acknowledges that structural measures contained in the Soil Erosion and Sediment Control Plan are reviewed for adequacy to reduce offsite soil erosion and sedimentation and not for adequacy of structural design. The applicant shall retain full responsibility for any damages which may result from any construction activity notwithstanding district certification of the subject soil erosion and sediment control plan. It is understood that approval of the plan submitted with this application shall be valid only for the duration of the initial project approval granted by the municipality. All municipal renewals of this project will require submission and approval by the district. In no case shall the approval extend beyond three and one half years at which time resubmission and certification will be required. Soil Erosion and Sediment Control Plan certification is limited to the controls specified in the plan. It is not authorization to engage in the proposed land use unless such use has been previously approved by the municipality or other controlling agency.

1. Applicant Certification* Signature Brian G. McGuire Applicant Name (Print) Date 1/22/13	3. Plan determined complete: Signature of District Official Date 2/5/13
2. Receipt of fee, plan and supporting documents is hereby acknowledged: Signature of District Official Date 1/25/13	4. Plan certified, denied or other actions noted above. Special Remarks Signature of District Official Date 2/5/13

* If other than project owner, written authorization of owner must be attached.

SSCC251 AP10 4/99

SOIL EROSION AND SEDIMENT CONTROL PLAN REMEDIAL ACTION WORK PLAN (RAWP) ACTIVITIES PHASE 2B-1 & 2B-3 AND PHASE 3A AREAS PPG SITE 114 JERSEY CITY, NEW JERSEY

DRAWING

- 1
- 2
- 3
- 4

DESCRIPTION

- EXISTING CONDITIONS PLAN
- SESC MEASURES
- SESC DETAILS & NOTES
- SESC DETAILS & NOTES (con't)

PREPARED BY:



30 KNIGHTSBRIDGE ROAD,
PISCATAWAY, NEW JERSEY 08854



AECOM
30 Knightsbridge Road, Suite 520
Piscataway, NJ 08854
www.aecom.com
NJ C.O.A. No. 246A900290

PPG INDUSTRIES
PHASE 2B-1 & 2B-3 AND 3A - SITE 114
JERSEY CITY, HUDSON COUNTY, NJ

PROJ. NO.: 60279171 DATE: 01/30/12

SOIL EROSION
SEDIMENT CONTROL PLAN
REMEDIAL ACTION
ORK PLAN ACTIVITIES

PHASE 2B-1 & 2B-3 AND PHASE 3A

DRAWING NUMBER:

COVER

SHEET NUMBER:

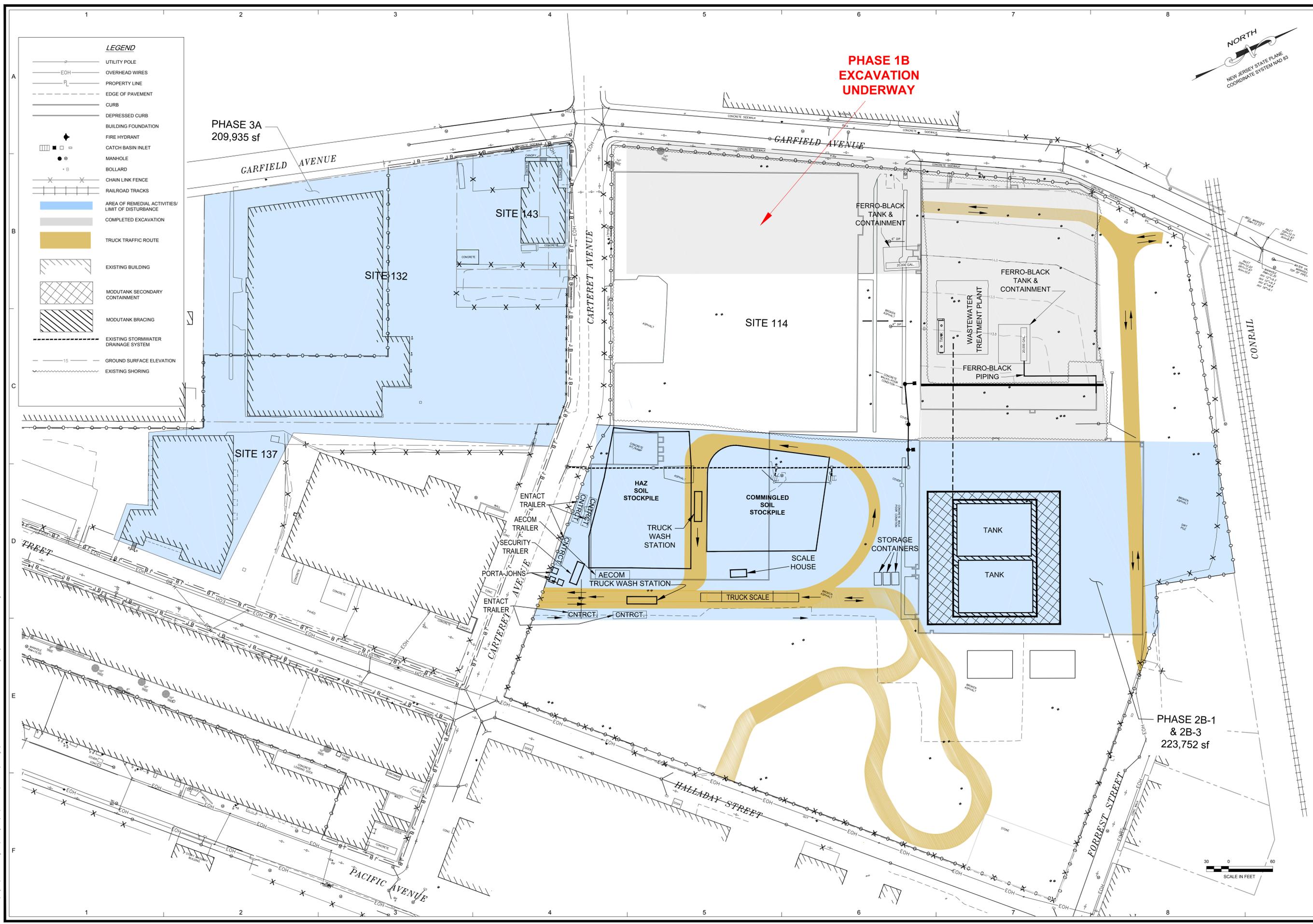
1 of 5

REVISION 1

NO	DRWN/DATE	REVISION	ORIGINATION	CHKD/DATE	APPV/DATE
1	HNQ	01/14/13	GENERAL REQUIREMENTS	R.M.T.01/14/13	
0	R.M.T.01/30/12		ORIGINATION	HNQ	01/30/12
	NO DRWN/DATE		REVISION		

HUEN, QUAN, P.E.
NJ PROFESSIONAL ENGINEER
246C969500

File: P:\Project\PPG-NU\Program 6-Project\Drawings\SCSOP-60MP-226-P24_2013-01-21.dwg Layout: Exst Cond Plan Fig 1 User: thasik Plotdate: Jan 21, 2013 - 10:02am Title: 5:



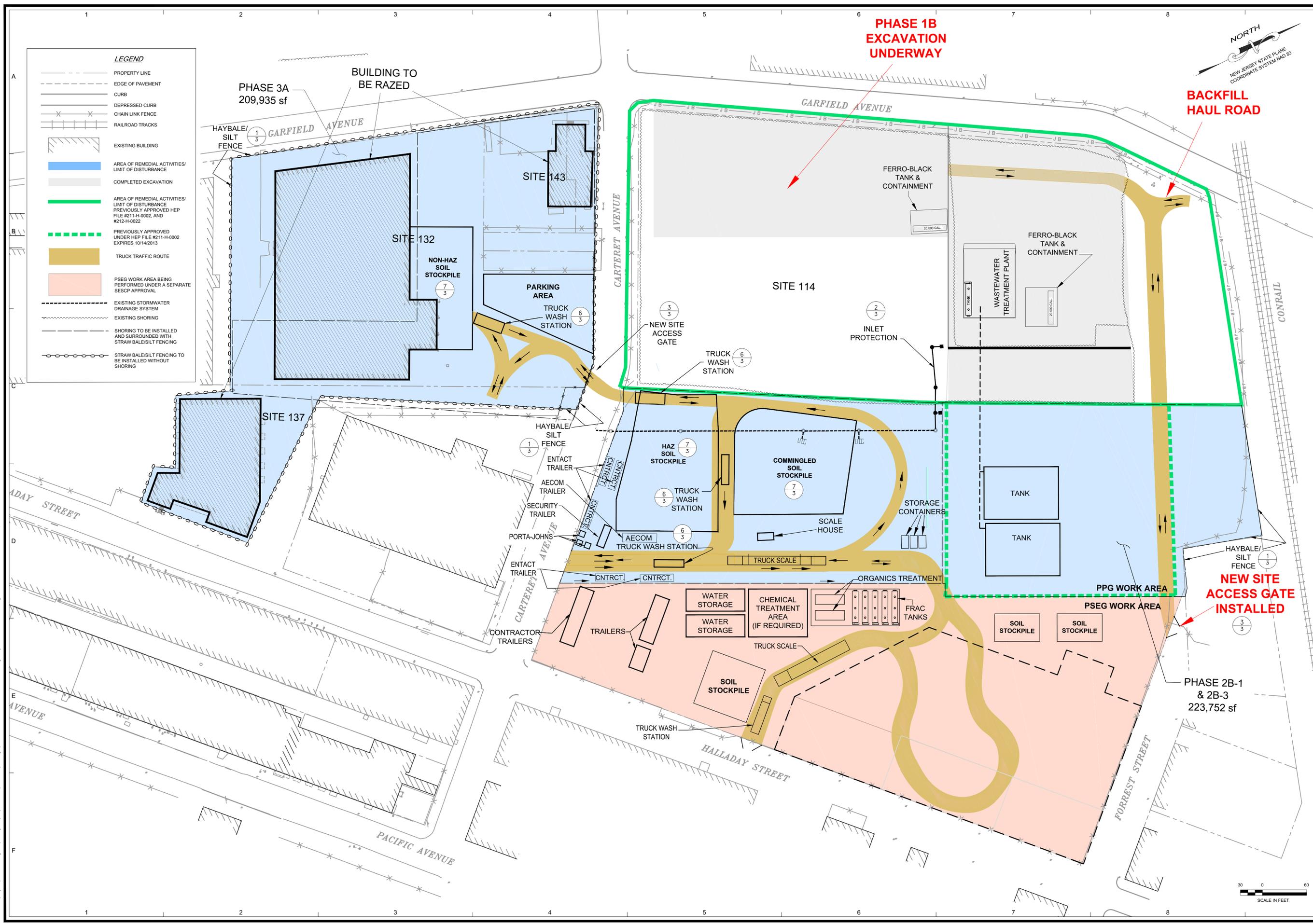
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0	R.M.T.01/30/12	1	NO DRW/DATE	REVISION	CHKD	DATE	APPV/D	DATE	

AECOM
 AECOM
 1000 Corporate Center Road, Suite 500
 Parsippany, NJ 08854
 www.aecom.com
 NJ C.O.A. No.: 245A0002200

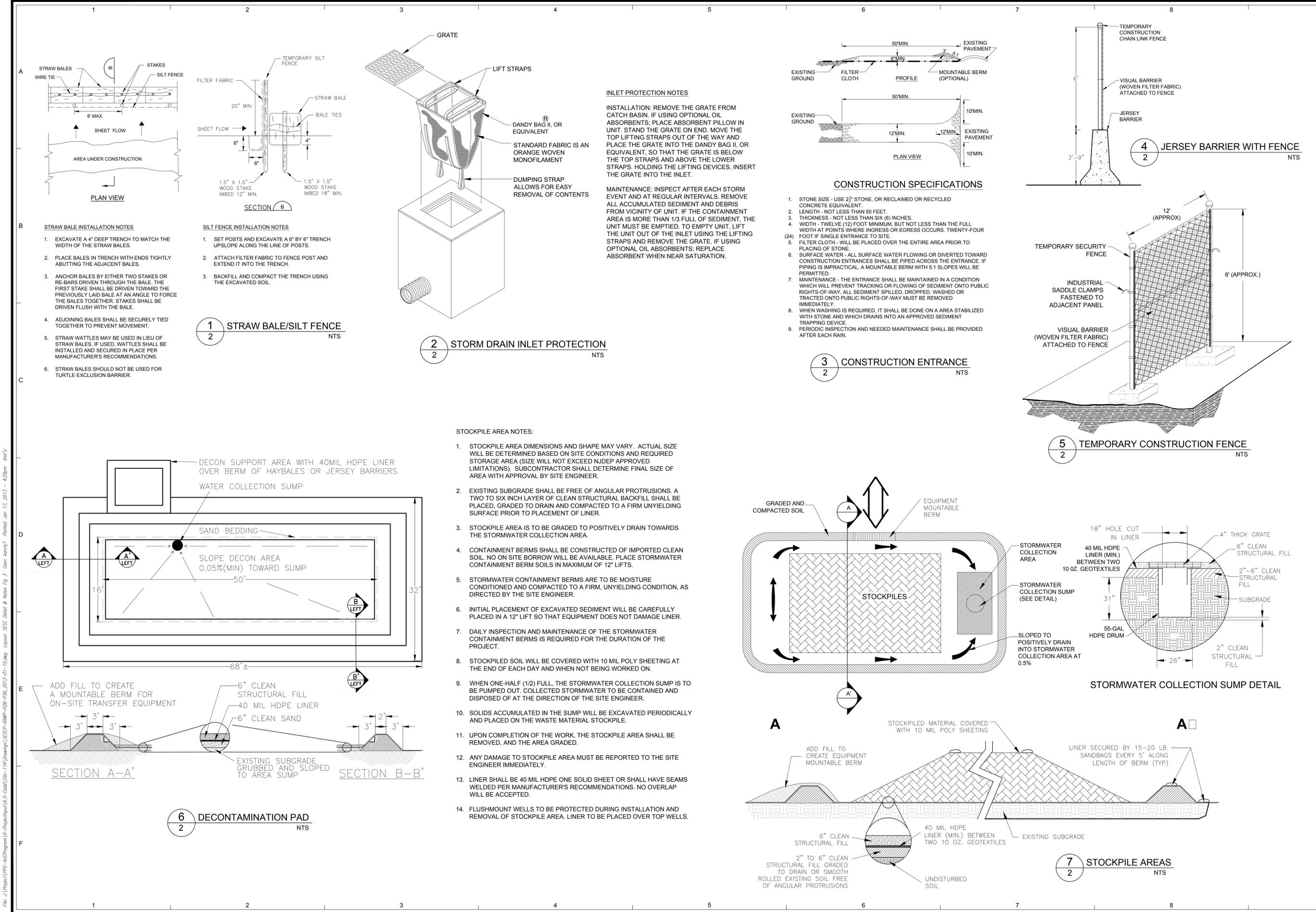
PPG INDUSTRIES
 PHASE 2B-1 & 2B-3 AND 3A - SITE 114
 JERSEY CITY, HUDSON COUNTY, NJ
 PROJ. NO.: 60279171
 DATE: 01/30/12

EXISTING CONDITIONS PLAN
 PHASE 2B-1 & 2B-3 AND 3A
 DRAWING NUMBER: 1
 SHEET NUMBER: 2 of 5
 REVISION: 1

File: P:\Project\PPG-NUProgram\6-Proj\Sheet\6.3-Cadd\Site - 1A\Drawings\SCSOP-P2B-P2A-2013-01-21.dwg Layout: SCSOP-P2B-P2A-2013-01-21.dwg User: Tmush Plotfile: Jan 21, 2013 - 10:20am Xref's:



<p>HUEN GUAN, P.E. NEW JERSEY STATE PLANE COORDINATE SYSTEM NAD 83</p>	
<p>1. HNQ. 01/14/13 GENERAL REQUIREMENTS R.M.T.01/30/12 CM 01/30/12</p>	<p>0. R.M.T.01/30/12 CM 01/30/12</p>
<p>0. R.M.T.01/30/12 ORIGINATOR</p>	<p>HNQ. 01/30/12</p>
<p>NO. DRWN/DATE</p>	<p>REVISION</p>
<p>CHKD/DATE</p>	<p>APPV/DATE</p>
<p>AECOM AECOM Infrastructure Road, Suite 520 Parsippany, NJ 08854 www.aecom.com NJ C.O.A. No.: 245A0002200</p>	
<p>PPG INDUSTRIES PHASE 2B-1 & 2B-3 AND 3A - SITE 114 JERSEY CITY, HUDSON COUNTY, NJ</p>	<p>DATE: 01/30/12</p>
<p>SOIL EROSION AND SEDIMENT CONTROL MEASURES</p>	<p>PROJ. NO.: 60279171</p>
<p>PHASE 2B-1 & 2B-3 AND 3A</p>	<p>DRAWING NUMBER: 2</p>
<p>REVISION 1</p>	<p>SHEET NUMBER: 3 of 5</p>



INLET PROTECTION NOTES

INSTALLATION: REMOVE THE GRATE FROM CATCH BASIN. PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE DANDY BAG II, OR EQUIVALENT, SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.

MAINTENANCE: INSPECT AFTER EACH STORM EVENT AND AT REGULAR INTERVALS. REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT. IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS, REPLACE ABSORBENT WHEN NEAR SATURATION.

- CONSTRUCTION SPECIFICATIONS**
- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - LENGTH - NOT LESS THAN 50 FEET.
 - THICKNESS - NOT LESS THAN SIX (6) INCHES.
 - WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
 - FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

- STOCKPILE AREA NOTES:**
- STOCKPILE AREA DIMENSIONS AND SHAPE MAY VARY. ACTUAL SIZE WILL BE DETERMINED BASED ON SITE CONDITIONS AND REQUIRED STORAGE AREA (SIZE WILL NOT EXCEED NJDEP APPROVED LIMITATIONS). SUBCONTRACTOR SHALL DETERMINE FINAL SIZE OF AREA WITH APPROVAL BY SITE ENGINEER.
 - EXISTING SUBGRADE SHALL BE FREE OF ANGULAR PROTRUSIONS. A TWO TO SIX INCH LAYER OF CLEAN STRUCTURAL BACKFILL SHALL BE PLACED, GRADED TO DRAIN AND COMPACTED TO A FIRM UNYIELDING SURFACE PRIOR TO PLACEMENT OF LINER.
 - STOCKPILE AREA IS TO BE GRADED TO POSITIVELY DRAIN TOWARDS THE STORMWATER COLLECTION AREA.
 - CONTAINMENT BERMS SHALL BE CONSTRUCTED OF IMPORTED CLEAN SOIL. NO ON SITE BORROW WILL BE AVAILABLE. PLACE STORMWATER CONTAINMENT BERM SOILS IN MAXIMUM OF 12" LIFTS.
 - STORMWATER CONTAINMENT BERMS ARE TO BE MOISTURE CONDITIONED AND COMPACTED TO A FIRM, UNYIELDING CONDITION, AS DIRECTED BY THE SITE ENGINEER.
 - INITIAL PLACEMENT OF EXCAVATED SEDIMENT WILL BE CAREFULLY PLACED IN A 12" LIFT SO THAT EQUIPMENT DOES NOT DAMAGE LINER.
 - DAILY INSPECTION AND MAINTENANCE OF THE STORMWATER CONTAINMENT BERMS IS REQUIRED FOR THE DURATION OF THE PROJECT.
 - STOCKPILED SOIL WILL BE COVERED WITH 10 MIL POLY SHEETING AT THE END OF EACH DAY AND WHEN NOT BEING WORKED ON.
 - WHEN ONE-HALF (1/2) FULL, THE STORMWATER COLLECTION SUMP IS TO BE PUMPED OUT. COLLECTED STORMWATER TO BE CONTAINED AND DISPOSED OF AT THE DIRECTION OF THE SITE ENGINEER.
 - SOLIDS ACCUMULATED IN THE SUMP WILL BE EXCAVATED PERIODICALLY AND PLACED ON THE WASTE MATERIAL STOCKPILE.
 - UPON COMPLETION OF THE WORK, THE STOCKPILE AREA SHALL BE REMOVED, AND THE AREA GRADED.
 - ANY DAMAGE TO STOCKPILE AREA MUST BE REPORTED TO THE SITE ENGINEER IMMEDIATELY.
 - LINER SHALL BE 40 MIL HDPE ONE SOLID SHEET OR SHALL HAVE SEAMS WELDED PER MANUFACTURER'S RECOMMENDATIONS. NO OVERLAP WILL BE ACCEPTED.
 - FLUSHMOUNT WELLS TO BE PROTECTED DURING INSTALLATION AND REMOVAL OF STOCKPILE AREA. LINER TO BE PLACED OVER TOP WELLS.

HUEN, GUAN, P.E.

PROFESSIONAL ENGINEER
NJ REG. NO. 246648950

1	HNQ	01/14/13	GENERAL REQUIREMENTS	R.M.T./01/14/13	01/30/12	CHKD DATE	APPRV DATE
0	R.M.T./01/30/12	CM	ORIGINATOR	01/30/12	01/30/12	REVISION	
	NO	DRW/DATE					

AECOM
AECOM Technology Resources, Suite 520
Parsippany, NJ 08859
www.aecom.com
NJ C.O.A. No.: 2464900200

PPG INDUSTRIES
PHASE 2B-1 & 2B-3 AND 3A - SITE 114
JERSEY CITY, HUDSON COUNTY, NJ

PROJ. NO.: 60279171
DATE: 01/30/12

SOIL EROSION AND SEDIMENT CONTROL DETAILS & NOTES

PHASE 2B-1 & 2B-3 AND 3A

DRAWING NUMBER:
3

SHEET NUMBER:
4 of 5

REVISION: 1



HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT

15 BLOOMFIELD AVENUE
NORTH CALDWELL, NJ 07006
Telephone: (973) 364-0786
Fax: (973) 364-0784
information@hepscd.org
www.hepsoilnj.org

December 4, 2013

Mr. Brian G. McGuire
PPG Industries, Inc.
4325 Rosanna Drive
Allison Park, PA 15101

Re: **PPG Phases 2B-2 & 2B-4(Site 114), and 3B (Sites 133W & 137A)**
880 Garfield Ave + 15 & 45 Halladay St, Jersey City, NJ
Block: 21501;21510 Lot: 16,17,19;3,5
HEPSCD 251 ID Code #213-H-3250, plan dated 11/19/13

Dear Sir/Madam:

The District has completed the review of the soil erosion and sediment control plan for the above referenced project and hereby reports that the plan meets the Standards for Soil Erosion and Sediment Control in New Jersey (N.J.A.C.290-1.1 et seq., promulgated pursuant to the New Jersey Soil Erosion and Sediment Control Act, N.J.S.A.4-24-39 et seq.). Accordingly, the plan is **certified** by the Hudson-Essex-Passaic Soil Conservation District subject to the following conditions:

- The District must be notified in writing 48 hours prior to the commencement of any construction activity.
- A copy of the certified plan must be kept on the job site at all times.
- The applicant or contractor must request a final inspection (once landscaping and final soil stabilization is complete) & obtain a Report of Compliance prior to seeking a temporary or permanent Certificate of Occupancy.
- The District must be provided with written notification of any conveyance of this project, subject property, or portions thereof, including individual residential lots if applicable. Said notice must provide the names, addresses, and telephone numbers of subsequent owners.
- The District must be informed of address and or telephone number changes of owners, agents responsible for site construction, and job supervisors.

Please be advised that the Soil Erosion and Sediment Control Act authorizes the issuance of stop construction orders and penalties of up to \$3000 per day for violations of the certified plan or for failure to comply with the aforementioned requirements. Please be further advised that any conveyance of this project or portions thereof will transfer full responsibility for compliance with the certified plan to subsequent owners. Please contact the District if you require assistance implementing the certified soil erosion and sediment control plan. This certification is valid for 3-1/2 years from the date of this letter and is limited to the controls specified in this plan. It is not authorization to engage in proposed land use unless such use has been previously approved by the municipality or other controlling agency.

Yours truly,

A handwritten signature in black ink, appearing to read "Carl Quazza".

Carl Quazza
Chairman

Cc: Planner, Municipality, County



For District Use Only

Application Number	213-H-3250
Certified:	12/4/13
563 not applicable:	pump & treat

APPLICATION FOR SOIL EROSION AND SEDIMENT CONTROL PLAN CERTIFICATION

The enclosed soil erosion and sediment control plan and supporting information are submitted for certification pursuant to the Soil Erosion and Sediment Control Act, Chapter 251, P.L. 1975 as amended (NJSA 4:24-39 et. seq.) An application for certification of a soil erosion and sediment control plan shall include the items listed on the reverse side of this form.

Name of Project PPG Phases 2B-2 & 2B-4 (Site 114) and 3B (Sites 133W & 137A)		Project Location: Municipality Jersey City, Hudson County	
Project Street Address 880 Garfield Ave, 15 and 45 Halladay St		Block 21501: 21510	Lot 16, 17 & 19; 3 & 5 respectively
Project Owner(s) Name PPG Industries, Inc.		Phone 412-492-6683 5512 Fax # 412-492-5484 5377	
Project Owner(s) Street Address (No P.O. Box Numbers) 4325 Rosanna Drive		City Allison Park	State PA Zip 15101
Total Area of Project (Acres) 5.5	Total Area or Land to be Disturbed (Acres) 5.5	No. Dwelling or other Units N/A	Fee \$ 2025.00
Plans Prepared by* AECOM <i>Attn: Hue Quan</i>		Phone # 732-564-3631 Fax # 732-369-0122	
Street Address 30 Knightsbridge Road, Suite 520		City Piscataway	State NJ Zip 08854

(Engineering related items of the Soil Erosion and Sediment Control Plan MUST be prepared by or under the direction of and be sealed by a Professional Engineer or Architect licensed in the State of New Jersey, in accordance with NJAC 13:27-6.1 ET, seq.)

Agent Responsible During Construction AECOM	
Street Address 30 Knightsbridge Road, Suite 520	
City Piscataway	State NJ Zip 08854
Phone 732-564-3631	Fax # 732-369-0122

The applicant hereby certifies that all soil erosion and sediment control measures are designed in accordance with current **Standards for Soil Erosion and Sediment Control In New Jersey** and will be installed in accordance with those Standards and the plan as approved by the Soil Conservation District and agrees as follows:

- To notify the District in writing at least 48 hours in advance of any land disturbance activity. Failure to provide such notification may result in additional inspection fees.
- To notify the District upon completion of the Project (Note: No certificate of occupancy can be granted until a report of compliance is issued by the District.
- To maintain a copy of the certified plan on the project site during construction.
- To allow District agents to go upon project lands for inspection.
- That any conveyance of this project or portion thereof prior to its completion will transfer full responsibility for compliance with the certified plan to any subsequent owners.
- To comply with all terms and conditions of this application and certified plan including payment of all fees prescribed by the district fee schedule hereby incorporated by reference.

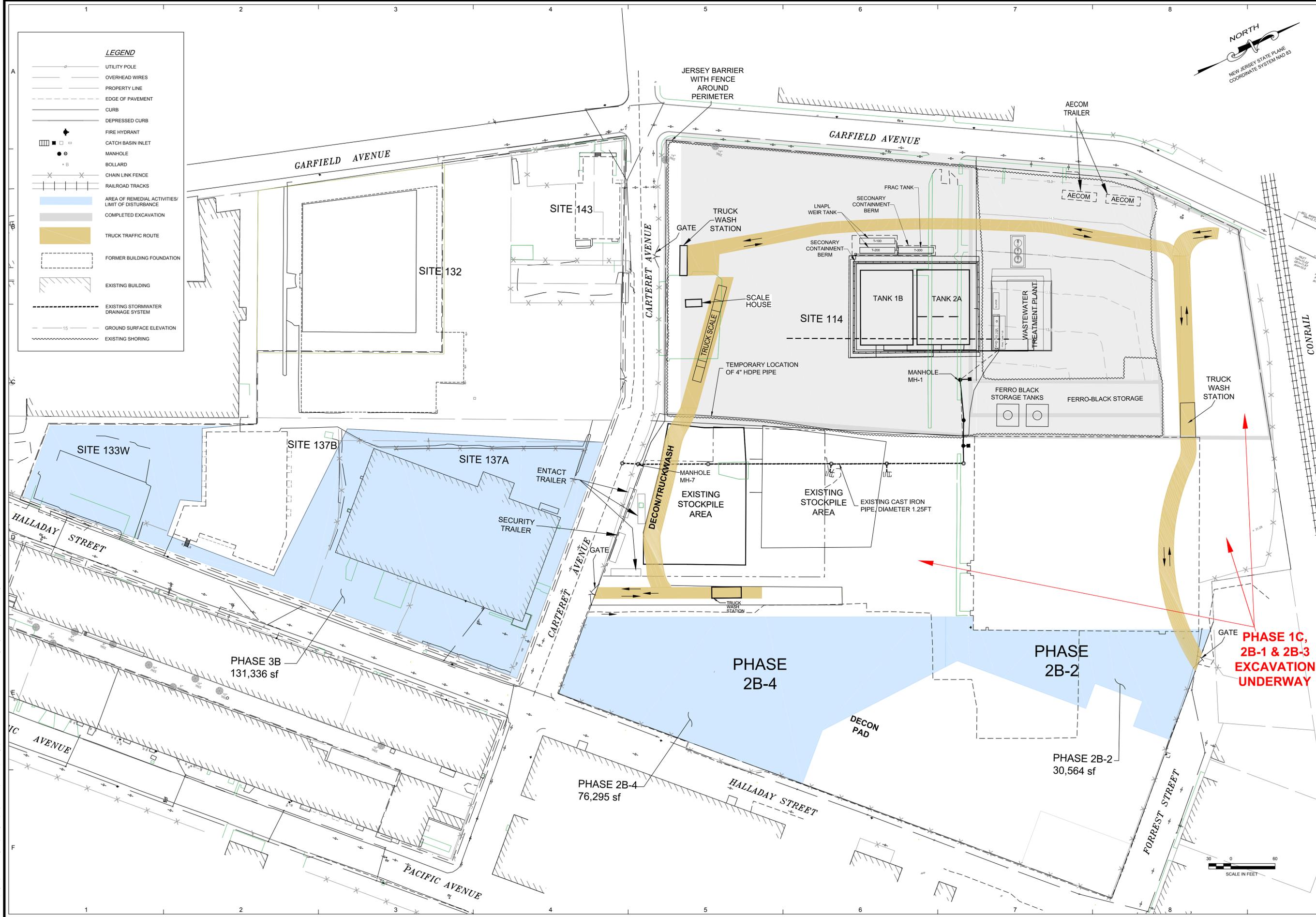
The applicant hereby acknowledges that structural measures contained in the Soil Erosion and Sediment Control Plan are reviewed for adequacy to reduce offsite soil erosion and sedimentation and not for adequacy of structural design. The applicant shall retain full responsibility for any damages which may result from any construction activity notwithstanding district certification of the subject soil erosion and sediment control plan. It is understood that approval of the plan submitted with this application shall be valid only for the duration of the initial project approval granted by the municipality. All municipal renewals of this project will require submission and approval by the district. In no case shall the approval extend beyond three and one half years at which time resubmission and certification will be required. Soil Erosion and Sediment Control Plan certification is limited to the controls specified in the plan. It is not authorization to engage in the proposed land use unless such use has been previously approved by the municipality or other controlling agency.

1. Applicant Certification* <i>Brian McGuire</i> Signature Brian G. McGuire Applicant Name (Print) Date 11/15/13	3. Plan determined complete: <i>[Signature]</i> Signature of District Official Date 12/4/13
2. Receipt of fee, plan and supporting documents is hereby acknowledged: <i>[Signature]</i> Signature of District Official Date 11/25/13	4. Plan certified, denied or other actions noted above. Special Remarks: <i>[Signature]</i> Signature of District Official Date 12/4/13

*If other than project owner, written authorization of owner must be attached.

File: A:\Project\PPG-MC\Program (E-Project)\6.3-Cadd\Site-114\Drawings\SCSD-PPG-20B-B2-B2_2013-11-14.dwg Layout: Exist. Cond. Plan Tpl User: kanyil Plot Date: Nov 22, 2013 8:15:00 AM

LEGEND	
	UTILITY POLE
	OVERHEAD WIRES
	PROPERTY LINE
	EDGE OF PAVEMENT
	CURB
	DEPRESSED CURB
	FIRE HYDRANT
	CATCH BASIN INLET
	MANHOLE
	BOLLARD
	CHAIN LINK FENCE
	RAILROAD TRACKS
	AREA OF REMEDIAL ACTIVITIES/ LIMIT OF DISTURBANCE
	COMPLETED EXCAVATION
	TRUCK TRAFFIC ROUTE
	FORMER BUILDING FOUNDATION
	EXISTING BUILDING
	EXISTING STORMWATER DRAINAGE SYSTEM
	GROUND SURFACE ELEVATION
	EXISTING SHORING



	<p>PPG INDUSTRIES PHASE 2B-2 & 2B-4 AND 3B SITE 114, 133W AND 137 JERSEY CITY, HUDSON COUNTY, NJ</p>	<p>PROJ. NO.: 60279171 DATE: 11/19/13</p>
<p>EXISTING CONDITIONS PLAN</p>	<p>PHASE 2B-2 & 2B-4 AND 3B</p>	
<p>DRAWING NUMBER: 1</p>	<p>SHEET NUMBER: 2 of 5</p>	
<p>REVISION: 1</p>		

NO.	DESCRIPTION	DATE	APP'D

AECOM
 AECOM
 1000 Morris Road, Suite 500
 Piscataway, NJ 08854
 www.aecom.com
 NJ C.O.A. No. 2454080200

HUIEN, QUAN, P.E.
 NJ PROFESSIONAL ENGINEER
 2454080200





CITY OF JERSEY CITY

DEPARTMENT OF
Housing, Economic Development and Commerce
Office of The Construction Official
30 Montgomery Street, 4th Floor, Jersey City, NJ 07302
(201) 547-5055



Date Issued **9-30-11**

Permit # **20112773**

CONSTRUCTION PERMIT NOTICE

Block **2026.1** Lot **2.A**

Work Site Location: **880 Garfield Ave.**

AUTHORIZED FOR:

BUILDING

ELECTRICAL

~~PLUMBING~~

~~FIRE PROTECTION~~

~~ELEVATOR~~

~~DEMOLITION~~

~~OTHER~~

Temporary Office Trailers



CITY OF JERSEY CITY

DEPARTMENT OF
Housing, Economic Development and Commerce
Office of The Construction Official
30 Montgomery Street, 4th Floor, Jersey City, NJ 07302
(201) 547-5055



Date Issued **10-21-11**
Permit # **2011 3060**

CONSTRUCTION PERMIT NOTICE

Block **2006 A** Lot **2**

Work Site Location: **824 Garfield Ave.**

AUTHORIZED FOR:

BUILDING

ELECTRICAL

PLUMBING

FIRE PROTECTION

ELEVATOR

DEMOLITION

OTHER

Office trailer to be placed on site as a public information center for ongoing Chromium Remediation project

This notice shall be posted conspicuously at the work site and shall remain so until issuance of a certificate.

U.C.C. Form F-180B (rev. 3/96)

Cost of Demolition: 0.00

Total Cost: \$6,976.00

Amount to be Paid:

NOTE: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Ray Meyer *WF*
RAYMOND MEYER

10-21-11
Date

Construction Official

Note:



KENNETH J. LUCIANIN
Commissioner

THOMAS F. FLANAGAN
Acting Clerk

MICHAEL DeFRANCISCI
Executive Director

GREGORY A. TRAMONTOZZI
General Counsel

600 Wilson Avenue
Newark, New Jersey 07105
P (973)344-1800 F (973)344-2951
www.pvsc.com

Fax: (973) 344-4876
July 18, 2012

CERTIFIED RECEIPT
91 7190 0943 0010 0005 2319

PPG Industries, Inc.
4325 Rosanna Drive
Allison Park, PA 15101
Attn: Brian McGuire, Manager Environmental Projects

RE: REVISIONS TO SEWER USE PERMIT# 31630010

Dear Mr. McGuire:

Enclosed are the revisions to your Sewer Use Permit. Please review and attach these changes to your existing Permit accordingly.

If you have any questions, please contact Laura Marchitto, Operations Coordinator, at (973) 817-5905.

Very truly yours,
PASSAIC VALLEY SEWERAGE COMMISSION

A handwritten signature in black ink, appearing to read "Anthony Gammaro", written over a horizontal line.

Anthony Gammaro
Supervisor, User Charge & Permit Management

AG/lm

Enclosure

C: Michael DeFrancisci, Executive Director
Laura Marchitto, Operations Coordinator, User Charge & Permit Management
Rich Haytas, Senior Engineer, Jersey City Municipal Utilities Authority

PASSAIC VALLEY SEWERAGE COMMISSION

SEWER USE PERMIT

Permit #

31630010

(Please use the Permit Number on any correspondence with PVSC)
In compliance with the provisions of the Federal Water Pollution Control Act, its amendments, the Clean Water Act and Rules and Regulations of the Passaic Valley Sewerage Commission

PPG INDUSTRIES, INC.

(herein, after referred to as the Permittee)

is authorized to discharge from a facility located at

SITE 114 - 900 GARFIELD AVENUE

JERSEY CITY, NEW JERSEY 07305

to the Passaic Valley Sewerage Commission Treatment Works in accordance with discharge limitations, monitoring requirements and other conditions set forth herein.

EFFECTIVE DATE

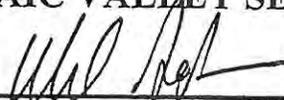
01/01/2012

EXPIRATION DATE

12/31/2016

PASSAIC VALLEY SEWERAGE COMMISSION

BY



Michael DeFrancisci
Executive Director

**PASSAIC VALLEY SEWERAGE COMMISSION
600 WILSON AVENUE
NEWARK, NEW JERSEY 07105**

SIU FACT SHEET

Sewer Use Permit to discharge into Passaic Valley Treatment Plant

The PPG Industries, Inc. has submitted a completed Sewer Use Application for a Sewer Use Permit Revision to discharge into the treatment works.

NAME & ADDRESS OF APPLICANT	NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS
PPG Industries, Inc. 4325 Rosanna Dr. Allison Park, PA 15101	PPG Industries, Inc. Site 114 - 900 Garfield Avenue Jersey City, NJ 07305

Description of Facility Operations: Groundwater discharger

Million Gallons per Day (MGD) Industrial Wastewater: Approx. - .172800 MGD

Number of Outlets: **Industrial** – 1-This outlet is used for compliance
Sanitary - 0

Sample Point Location: Sample point is located at post-treatment sampling port in GWTS area.

Basis for Permit Conditions: Groundwater

Type of Pretreatment Equipment Installed: Physical and Chemical Process including Flocculation, Slug Handling, Particulate Filtration, 1X Resin and Carbon Adsorption and pH Adjustment.

Duration of Sewer Use Permit: 5 Years

Special Conditions or Remarks: Revision. This Company is covered under PVSC Local Limits. Rate of discharge increased from 50 GPM to the peak design flow of 172,800 GPD

2. MONITORING REQUIREMENTS AND DISCHARGE LIMITATIONS

(a) Beginning (01/01/2012) and lasting through (12/31/2016) the Permittee is authorized to discharge from outlet # (31630010-1). Such discharge shall be monitored as specified below. The table lists the limitations or procedures applicable to this outlet. The volume shall be determined from flowmeter readings. The Sample point is located at post-treatment sampling port in GWTS area. The Permittee shall submit volume in accordance with PVSC User Charge Self-Monitoring Report Form MR-2.

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS	
	MONTHLY AVERAGE	DAILY MAX	MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
Volume	XXXXXX	XXXXXX	XXXXXX	XXXXXX	Monthly

2. MONITORING REQUIREMENTS AND DISCHARGE LIMITATIONS

(b) Beginning (01/01/2012) and lasting through (12/31/2016) the Permittee is authorized to discharge from outlet # (31630010-1). Such discharge shall be monitored as specified below. The table lists the limitations or procedures applicable to this outlet. The volume shall be determined from flowmeter readings. The Sample point is located at post-treatment sampling port in GWTS area. The Permittee shall submit volume and analysis results in accordance with PVSC Pretreatment Discharge Monitoring Form MR-1.

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
	MONTHLY AVERAGE	DAILY MAX	MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
SGT-HEM (Non-Polar Material)	100 mg/l	150 mg/l	Monthly	Grab*	Monthly
TTO	XXXXXX	XXXXXX	Monthly	Grab**	Monthly
TVOC	XXXXXX	XXXXXX	Monthly	Grab***	Monthly
Chromium	XXXXXX	10.9 lbs/day	Monthly	24 hr. Comp.	Monthly
BOD	XXXXXX	XXXXXX	Monthly	24 hr. Comp	Monthly
Volume	XXXXXX	XXXXXX	XXXXXX	XXXXXX	Monthly

* Sampling procedure must be in accordance with those specified by N.J.D.E.P. Analysis procedure as defined by E.P.A. Method 1664A.
 ** Sampling procedure must be in accordance with those specified by N.J.D.E.P. Analysis procedure as defined by E.P.A. Method 624.
 *** Sampling procedure must be in accordance with those specified by N.J.D.E.P. Analysis procedure as defined by E.P.A. Method 625.

2. MONITORING REQUIREMENTS AND DISCHARGE LIMITATIONS

(b) Beginning (01/01/2012) and lasting through (12/31/2016) the Permittee is authorized to discharge from outlet # (31630010-1). Such discharge shall be monitored as specified below. The table lists the limitations or procedures applicable to this outlet. The volume shall be determined from flowmeter readings The Sample point is located at post-treatment sampling port in GWTS area. The Permittee shall submit volume and analysis results in accordance with PVSC Pretreatment Discharge Monitoring Report Form MR-1.

PVSC LOCAL LIMITS		DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
PARAMETER	mg/l MONTHLY AVERAGE	mg/l THRESHOLD VALUE	MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD	
Cd	0.19	0.005	Monthly	24 hr. comp.	Monthly	
Cu	3.02	0.092	Monthly	24 hr. comp.	Monthly	
Pb	0.54	0.029	Monthly	24 hr. comp.	Monthly	
Hg	0.080	0.001	Monthly	24 hr. comp.	Monthly	
Ni	5.9	0.02	Monthly	24 hr. comp.	Monthly	
Zn	1.67	0.10	Monthly	24 hr. comp.	Monthly	
Volume	XXXXXX	XXXXXX	XXXXXX	XXXXXX	Monthly	

3. SCHEDULE OF COMPLIANCE

The Permittee is required to meet the following schedule of compliance:

- A. Analysis of wastewater parameters shall be performed by a laboratory that has been certified by the State of New Jersey. Permittee is required to submit all certified analyses as an attachment to the monthly MR-1 and/or MR-2 report.
- B. The Permittee is required to submit as an attachment to the MR-1 and/or MR-2 report monthly, a water balance showing meter readings used to calculate the reported volume discharged.
- C. Permittee to submit a periodic compliance monitoring report MR-2 form for monthly reporting requirements within twenty-one (21) days after the end date of each preceding month.
- D. Permittee to be in compliance with PVSC Local Limits.
Permittee to submit a periodic compliance monitoring report MR-1 form for monthly reporting requirements within thirty-five (35) days after the end date of each preceding month in accordance with General Pretreatment Regulations 40 CFR 403.12 section (e).
- E. If the Permittee has been authorized by the PVSC to certify for non-use for one or more heavy metals, the Permittee must sample the discharge in March and September of each year in order to prove continued compliance. If any analytical results exceed the Threshold Value, but not the Local Limit, the Permittee shall analyze a sample each succeeding month until three successive monthly results are at or below the Threshold Value stated in the PVSC Rules and Regulations Section B-103.3 Table B-2.
- F. Be certain that you do not surcharge any sewer lines. The rate of discharge must not exceed the peak design flow of 172,800 gal/day as stated in the Treatment Works Approval. Please NOTE that all discharge must cease during rainfall events and must not recommence until dry weather resumes.
- G. Permittee must operate in accordance with its April 5, 2012 approved Slug Control Plan.

PPG INDUSTRIES, INC., JERSEY CITY, NJ - #31630010**SECTION A-3 SCHEDULE OF COMPLIANCE CONTINUED**

- H. All discharge shall cease 5 years from the start of discharge. If additional time is needed, you must request an extension from PVSC 90 days prior to the expiration date of the Agreement and this Sewer Use Permit.
- I. All PVSC Rules & Regulations must be adhered to (www.PVSC.com).
- J. The Final Sewer Use Permit will run concurrent with a said contract executed by both PPG Industries, Inc. and PVSC.
- K. Notify Gerard Patire at (973)446-3085, three (3) working days before you plan to commence the discharge, so that a PVSC Inspector can be present to observe the discharge.
- L. This discharge cannot begin until a written Agreement is entered into.
- M. PVSC reserves the right to require toxicity evaluation and/or to change the conditions of this Permit, including discontinuing the discharge if it deems necessary.
- N. The Permittee shall notify in writing, all agencies as directed by 40 CFR 403.12 (p) of any discharges classified hazardous waste under 40 CFR 261.

CONDITIONS APPLICABLE TO ALL PERMITS

1. GENERAL

- 1.1 The Permittee shall comply with all conditions set forth in this permit and all applicable requirements which are set forth in N.J.S.A. 58:14-1 et seq. and the Rules and Regulations of the PVSC, as well as the Federal Clean Water Act, 33 U.S.C.A. § 1251 et seq. and the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq. Failure to comply with all the terms and conditions of this permit shall constitute a violation of the Rules and Regulations of the PVSC.
- 1.2 All discharges shall be consistent at all times with the terms and conditions of this permit and no regulated pollutant shall be discharged more frequently than authorized or at a level in excess of that which is authorized by this permit.
- 1.3 The Permittee shall not discharge or deposit or cause or allow to be discharged or deposited into the Treatment Works or public sewer, any waste which causes or contains the following
- (a) **Explosive Wastes** - Wastes in such quantity which may create a fire or explosion hazard to the Treatment Works, collection system or to the operation of the system, including but not limited to, wastewater with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21. Additional quantitative limitations on explosive wastes are specified in Appendix B.
- (b) **Corrosive Wastes** - Wastes in such quantity which may cause corrosion or deterioration of the Treatment Works. Unless a higher limit is otherwise stated in the Sewer Use Permit issued to a user, all wastes shall have a pH not less than 5. Unless otherwise stated in the Sewer Use Permit, all wastes shall have a pH not more than 10.5. If PVSC requires the installation of a continuous pH recorder, the Permittee may exceed the upper or alkaline pH limit subject to the conditions contained in subsection 317. Prohibited materials include, but are not limited to, acids, sulfides, concentrated chloride or fluoride compounds, etc.

- (c) **Solids or Viscous Wastes** - Solids or viscous wastes in amounts which may cause obstruction to the flow in a sewer, or otherwise interfere with the proper operation of the Treatment Works. Prohibited materials include, but are not limited to, uncomminuted garbage, bones, hides, or fleshings, cinders, sand, stone or marble dust, glass, etc.
- (d) **Floatable Pollutants** - (1) Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through, (2) any wastes containing floatable fats, wax, grease, oils, or any other floatable pollutants, (3) any industrial wastes containing more than 100 mg/l of petroleum based oil or grease.
- (e) **Noxious Materials** - (1) Pollutants which result in the presence of toxic gases, vapors or fumes within the POTW in a quantity that may cause acute worker health and safety problems, (2) noxious liquids, or gases, which in sufficient quantity either singly or by interaction with other wastes, are capable of creating a public nuisance or hazard to life, or are or may be sufficient to prevent entry into a sewer for its maintenance and repair.
- (f) **Radioactive Wastes** - Radioactive wastes or isotopes of such half life or concentration that they do not comply with regulations or orders issued by the appropriate authority having control over their use and which will, or may, cause damage or hazards to the Treatment Works or personnel operating the system.
- (g) **Interference/Pass through** - Any waste, including discharges of oxygen demanding wastes (BOD, etc.) released or discharged at a flow rate and/or pollutant concentration which causes or threatens to cause an upset at the PVSC Treatment Works, or which causes or threatens to cause a violation of the PVSC's NJPDES Permit conditions.
- (h) **Excessive Discharge Rate** - Industrial wastes discharged in a slug or such volume or strength so as to cause a treatment process upset and subsequent loss of treatment efficiency.
- (i) **Heat** - (1) Any discharge in excess of 150°F (65°C). (2) Heat in amounts which would inhibit biological activity in the PVSC Treatment Works resulting in a treatment process upset and subsequent loss of treatment efficiency.

- (j) **Unpolluted Waters** - Any unpolluted water including, but not limited to, cooling water and uncontaminated storm water, which will increase the hydraulic load on the Treatment System, unless specifically authorized by PVSC in accordance with Sections 301, 303, 602.5 of these Rules and Regulations.
- (k) **Dilution** - Increase in the use of process water, or an attempt in any other way, to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with a pretreatment standard or effluent limit.
- (l) **Violations** - Wastes, which cause the PVSC treatment plant to violate its NJPDES Permit, applicable, receiving water standards, permit regulating sludge which is produced during treatment or any other Permit issued to PVSC.
- (m) **Ultra Hazardous Toxics** - Those wastes designated by EPA as sufficiently toxic that they shall not be discharged to the sanitary sewer in any concentrations.
- (n) **Trucked Pollutants** - Any trucked or hauled pollutants, accepted at discharge points designated by the Chief Executive Officer, and only after approval is issued by PVSC.
- (o) **Ground Water** - Any ground water, whether contaminated or uncontaminated, unless specifically authorized by PVSC in accordance with Sections 301, 303, and 602.5 of these Rules and Regulations.
- (p) **Stormwater** - Any stormwater, whether contaminated or uncontaminated, unless specifically authorized by PVSC in accordance with Sections 301, 303 and 602.5 of these Rules and Regulations.
- (q) **Bypassed Wastes** - Any wastewaters which would normally be monitored or pretreated, but are discharged to the sanitary sewer without being monitored or pretreated, unless specifically authorized by PVSC.
- (r) **Excess Heel Material** - Any quantity of trucked or hauled material meeting the definition as contained herein, unless authorized by PVSC.

- 1.4 The Permittee shall not discharge or convey or permit to be discharged or conveyed to the PVSC Treatment Works any wastes containing pollutants of such character or quantity that.
- (a) Impairs the PVSC's ability to protect the health and safety of the treatment plant workers.
 - (b) Will not be susceptible to treatment or will interfere with the process or efficiency of the Treatment Works.
 - (c) Violate any federal categorical pretreatment standard. As pretreatment standards for toxic or other hazardous pollutants are promulgated by USEPA for a given industrial category, all industrial users within that category shall conform to the USEPA timetable as well as any numeric limitations imposed by the USEPA.
 - (d) Violate a local limit imposed or adopted by the PVSC.
 - (e) Violate a Best Professional Judgment limit imposed or adopted by the PVSC.
 - (f) Cause the PVSC treatment plant to violate its NJPDES Permit, applicable receiving water standards, regulations and/or any permits governing sludge which is produced during treatment process, or any other permit issued to the PVSC.
- 1.5 The Permittee shall at all times maintain in good working order and operate all pretreatment control and monitoring equipment in strict accordance with all design specifications and manufacturer recommendations. Proper operation and maintenance includes, at a minimum, effective performance based upon specifications designed to meet applicable effluent limits, adequate funding, adequate operator staffing and training and adequate laboratory and process controls.

- 1.6. The Permittee shall dispose of all solids, sludges, filter backwash or other pollutants or hazardous waste removed in the course of pretreatment or control of wastewaters and/or the treatment of the intake waters, in accordance with applicable Federal, State and local laws and regulations. Records documenting such disposal shall be made available to the PVSC for review upon request.

2. **INDUSTRIAL WASTE REPORTING**

- 2.1 **USER CHARGE:** User Charge monitoring results obtained during the previous month shall be reported monthly on a Discharge Monitoring Report Form (MR-2). The due date for properly signed reports shall be 21 days after the reporting period ends. If the 21st day falls on a Saturday, Sunday or PVSC Holiday, then the report shall be due on the next PVSC work day. If the Permittee fails to submit the MR-2 Report on a timely basis the Executive Director shall estimate the usage for the period. The estimate may be made thirty (30) days after the due date of the report.
- 2.2 **PRETREATMENT:** Pretreatment monitoring results obtained during the previous month shall be reported monthly on a Discharge Monitoring Report Form (MR-1). The due date for properly signed reports, shall be 35 days after the reporting period ends. If the 35th day falls on a Saturday, Sunday or PVSC Holiday, then the report shall be due on the next PVSC work day.
- 2.3 **DUE DATE:** MR-1 and MR-2 Reports must be physically delivered to the PVSC Administration office or Security office by Midnight of the date by which they are due. The use of certified mail or other means to document or guarantee delivery may be used if deemed necessary. Postmarks are not valid to demonstrate compliance with the due date requirement.

2.4 **MAILING ADDRESS:** Reports required herein must be addressed to:

**PASSAIC VALLEY SEWERAGE COMMISSION
ATTN: INDUSTRIAL DEPARTMENT
600 WILSON AVENUE
NEWARK, NEW JERSEY 07105**

- 2.5 **FACSIMILE:** The Permittee may meet the requirement for submission by sending the report(s) via facsimile provided the report is received at the PVSC Administration Office between the hours of 8:30 a.m. and 4:00 p.m. on any date up to and including the due date. In addition the due date for a hard copy of the same report shall be four (4) days after the transmission of the facsimile. Failure to deliver the hard copy by the due date specified shall result in the report being considered as not having been received and shall constitute a violation of the permit.
- 2.6 **ANALYTICAL PROCEDURES:** Analytical results for BOD, TSS or any other parameter as required by this permit shall be reported on the date that the sample was removed from the sampling device for analysis. The following procedure shall be used when reporting analytical results:
- (a) the pollutant limit will define the precision, or number of digits to the right or left of the decimal point, to be reported.
 - (b) Calculated results shall be rounded off to the same precision as defined for that pollutant in the limit.
 - (c) Zeros in the pollutant limit are included in order to determine the precision.
 - (d) The following procedure shall be followed when rounding off results:
 - (i) round off by dropping digits that are irrelevant. If the digit 6,7,8 or 9 is to be dropped, increase the preceding digit by one unit.
 - (ii) If the digit 0,1,2,3 or 4 is to be dropped, do not alter the preceding digit.
 - (iii) If the digit 5 is to be dropped, round off the preceding digit to the nearest even number (2.25 becomes 2.2 while 2.35 becomes 2.4).

2.7 **RECORDING OF RESULTS:** For each measurement of a sample taken pursuant to the requirements of this permit, the Permittee shall maintain a record of the following information:

- (a) The date, exact places and time of sampling;
- (b) The dates the analysis were performed;
- (c) The person(s) who performed the analysis;
- (d) The analytical techniques or methods used; and
- (e) The results of all required analyses.

2.8 **RECORDS RETENTION:** The Permittee shall maintain such records as necessary to demonstrate compliance with the requirements of this permit, the PVSC Rules and Regulations and any applicable State or Federal Pretreatment standard or requirement. All records and information resulting from the monitoring activities required by this permit including, all records of analysis performed, calibration and maintenance of instrumentation and recording from continuous monitoring instrumentation, shall be retained for a minimum of five years.

3. **INDUSTRIAL WASTE MONITORING**

- 3.1 **MONITORING EQUIPMENT:** The Permittee shall install, at his own cost and expense, whatever monitoring equipment is required by the conditions of this permit to facilitate the accurate observation, sampling and measurement of the discharge. Such equipment shall be kept safe, secured from unauthorized entry or tampering and accessible at all times. Monitoring equipment shall be calibrated as recommended by the manufacturer, except that LEL recorder shall be calibrated daily and pH recorders shall be calibrated at least weekly, whichever is more frequent.
- 3.2 Permittee shall safeguard any PVSC monitoring equipment that is installed at their facility. Permittee shall reimburse PVSC for any equipment that is either damaged or stolen from its point of installation. Reimbursement costs will be determined by PVSC.

- 3.3 The volume of each sample shall be proportional to the discharge flow rates unless specifically modified by PVSC. For a 24 hour continuous discharge, a minimum of 24 individual samples shall be collected at equal intervals and at least once per hour. For a continuous discharge of less than 12 hours, individual samples shall be taken at least once every 30 minutes. For discharges which are not continuous, individual samples shall be taken such that they will be representative of the plant waste water discharge.
- 3.4 Permittee shall notify the PVSC as soon as possible, but in no case later than 2 hours from becoming aware of the same, if a sampling, monitoring, recording or other device required in accordance with this permit becomes inoperable. Unless otherwise directed by the PVSC, the Permittee shall submit a written report to the PVSC, attention Industrial and Pollution Control Department, within 5 working days of the occurrence detailing what occurred, why it happened, what will be done to correct the problem and a date when the problem will be corrected. If the PVSC approves the corrective action and it is expected to take more than two months from the date of occurrence to complete, the Permittee shall submit monthly progress reports until such time as the problem is corrected.
- 3.5 **NOTIFICATION OF NON-COMPLIANCE:** If, for any reason, the Permittee does not comply with or will be unable to comply with any effluent limitation specified in this permit, or discharges any waste and meets the Slug Discharge Definition as defined in Appendix A of the PVSC Rules and Regulations, the Permittee shall notify the PVSC within 24 hours of such occurrence.
- 3.6 If this report is made orally, a written report containing the following information, shall be submitted within five (5) working days:
- (a) A description of the discharge and the cause of the period of noncompliance;
 - (b) The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and
 - (c) The steps being taken to reduce, eliminate and prevent a recurrence of the non-complying discharge.

- 3.7 The Permittee shall take all reasonable steps to minimize any adverse impact to the PVSC Treatment Works resulting from noncompliance with any pretreatment limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying discharge. This condition in no way affects PVSC's right to suspend a permit in order to stop a discharge which presents an imminent or substantial hazard to the public health, safety or welfare to the local environment or which interferes with the operation of the PVSC Treatment Works.
- 3.8 **TEST PROCEDURES:** Samples and measurements taken as required in this permit shall be representative of the volume and nature of the monitored discharge.
- 3.9 The Permittee shall perform all analyses in accordance with the test procedures identified under 40 C.F.R. Part 136. All test procedures, other than those identified in 40 C.F.R. Part 136, shall be considered as alternative test procedures. The Permittee is authorized to utilize an alternative test procedure only if prior written approval is received from the Chief Executive Officer in accordance with Section 319.2 of the Rules and Regulations of the PVSC.
- 3.10 Sample analyses of pollutants required by this permit shall be performed by a laboratory with a New Jersey certification for each pollutant analyzed.
- 3.11 If the Permittee monitors any pollutant at the location(s) designated more frequently than required by this permit using the approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the applicable Discharge Monitoring Report Form (PVSC Form MR-1 or MR-2). Such increased frequency shall also be indicated.

4. MANAGEMENT RESPONSIBILITIES

4.1 **RIGHT OF ENTRY:** The Permittee shall allow the authorized representatives of the PVSC, upon presentation of credentials to:

- (a) Have immediate access to all the facilities directly or indirectly connected to the PVSC Treatment Works during normal working hours and at such other times as may be necessary during emergencies as determined by PVSC. No person shall interfere with, delay, or refuse entrance to a PVSC Inspector attempting to inspect the facility.
- (b) Inspect the monitoring equipment and monitoring methods required in this permit or to sample any discharge of wastewater, copy any records required to be kept by this permit or PVSC Rules and Regulations and inspect and/or sample RCRA or other type waste or substances.

4.2 **TRANSFER OF OWNERSHIP OR CONTROL:** This Permit is not transferable. This permit shall not be reassigned, transferred or sold to a new owner, new industrial user, or a new or changed operation. The Permittee shall notify the Chief Executive Officer in writing within (14) days of any sale or transfer of the industrial operations/facility covered by this Permit, or of any sale or transfer affecting the identity of those holding a controlling interest in the Permittee. The Permittee shall also provide written notice to the succeeding owner or controller of the existence of this Sewer Use Permit and the need to apply for a new permit. For purposes of this provision, the term "controlling interest" shall mean an interest held by a person or entity, or group of persons or entities, who possess, directly or indirectly, the power to direct or cause the direction of the management and policies of the Permittee.

4.3 **CHANGE IN DISCHARGE:** Any change in the discharge, any anticipated facility expansion, production increases, or modification which will result in new, different, or increased discharges of pollutants regulated by PVSC must be reported by submission of a new Passaic Valley Sewerage Commission Sewer Use Application. If such changes will not violate the effluent limitations specified in this permit, then notice only to PVSC of such changes is required. Following such notice the permit may be modified to specify and limit any pollutants not previously limited.

5. OTHER CONDITIONS

- 5.1 **PERMIT MODIFICATION:** After notice and opportunity for a hearing, this permit may be modified, or revoked in whole or in part during its term for cause including, but not limited to the following:
- (a) Violating any terms or condition of this permit;
 - (b) Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - (c) A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- 5.2 **TOXIC POLLUTANTS:** Notwithstanding Section A Part 2 of this permit, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition), is established under Section 307(b) of the Federal Water Pollution Control Act, its amendments, or any other subsequent law or regulation for a toxic pollutant which is present in the discharge, and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the Permittee so notified.

- 5.3 **CIVIL AND CRIMINAL LIABILITY:** A violation of the PVSC Rules and Regulations or a violation of any term or condition contained in this Sewer Use Permit may subject the Permittee to enforcement and civil penalties of up to \$50,000 per day for each violation, and each day's continuance of the violation shall constitute a separate violation. Enforcement may include the institution of a civil action for injunctive relief and/or to recover civil penalties and/or referral to the appropriate agency for criminal enforcement.
- 5.4 **STATE LAWS:** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State Law or regulation under authority preserved by Section 510, (33 U.S.C.A. § 1370) of the Federal Water Pollution Control Act as amended.
- 5.5 **PROPERTY RIGHTS:** The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or Regulations.
- 5.6 **SEVERABILITY:** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

5.7 **DEFINITIONS:** The following definitions apply to this permit:

- (a) "Composite" - a combination of individual samples obtained at regular intervals over the entire discharge day.
- (b) "Daily" - each operating day.
- (c) "Daily Maximum Discharge" - the highest discharge by weight or other appropriate units, as specified herein, during any calendar day.
- (d) "Grab" - an individual sample collected in less than 15 minutes.
- (e) "Immediate Access" - access without delay but in no event beyond 10 minutes from the time the request is made known to the guard or employee.
- (f) "Monthly" - one day each month during a normal operating day.
- (g) "Monthly Average Value" - the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during the month. Results may be expressed in mass loadings per day or concentration. The monthly average value does not apply to those parameters that are continuously monitored.
- (h) "N/A" - not applicable.
- (i) "Quarterly" - every three (3) months.
- (j) "Weekly" - one day each week during a normal operating day.

JERSEY CITY TRAFFIC PERMIT # 06.21.10 F

575 Rt. 440, J C NJ 07305 Phone: 201.547.4470 Fax: 201.547.4703

GARFIELD# east sidewalk closed - extension 4

from CARTERET to UNION

Use Sidewalk Closed-Use Other Side signs

- 2/1/2011-4/30/2014 F

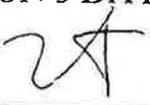
by Hue Quan of AECOM, 30 Knightsbridge Rd, Piscataway NJ
08854 (732) 564-3631

during construction/remedial activities.

**THIS PERMIT MUST BE KEPT ONSITE SHOWN, IF
REQUESTED, TO ENFORCEMENT PERSONNEL.**

THIS PERMIT IS NOT VALID unless the applicant agrees to the following: traffic control devices shall be furnished, erected, maintained and removed by the contractor in accordance with the " Manual of Uniform Traffic Control Devices (FHWA)" and the "Barricade Manual (City of Jersey City)". Said applicant shall take precautions to prevent accident to life, limb or property. The applicant agrees to save the City, its officers, agents employees as their interest may appear, harmless from any and all loss or damage to any third person or party, or from any cost that may in any matter arise through the granting of this permit or the performance of any work done thereunder. All work must be done subject to all laws, ordinances and standards of the MUTCD.

UPON 3 DAYS NOTICE, CITY WORK WILL SUPERCEDE THIS PERMIT.



Monte Zucker

Cc:



Jersey City Fire Department
Fire Prevention Division
465 Marin Blvd.
Jersey City, New Jersey 07302
Phone # (201) 547 - 4255,56,57
Fax # (201) 547 - 5733

FIRE SAFETY PERMIT

Permit Number: 13-5988
Permit Fee: 500.00

Issued: September 19, 2013
Expires: September 30, 2014

Permission is hereby granted to:

AECOM TECHNOLOGY CORP
4840 COX RD
GLEN ALLEN VA 23060-6292

The following activities are covered by this permit:

FLAMMABLE COMBUSTIBLE & INSTABLE STORE/HANDLE PERMIT

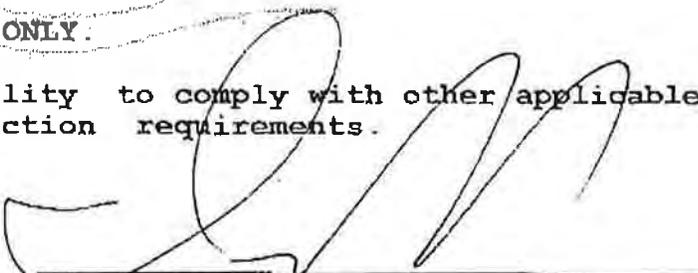
Approval is contingent upon adherence to the following conditions:

SEE ATTACHED INSTRUCTION FOR SITE ONLY 900 GARFIELD AVE J.C. N.J.

NOTE: This is a Fire Safety Permit ONLY.

It is the Applicant's responsibility to comply with other applicable health, police, building or construction requirements.

September 19, 2013
Date



Fire Inspector

THIS PERMIT MUST BE CONSPICUOUSLY POSTED
AT THE SITE FOR THE DURATION OF THE ACTIVITY.

FAILURE TO COMPLY WITH THE FIRE CODE
REQUIREMENTS OR ANY CONDITION SET FORTH
ABOVE IS CAUSE FOR REVOCATION OF THIS PERMIT



State of New Jersey

Department of Environmental Protection

*DIVISION OF WATER SUPPLY
WATER SUPPLY PERMITTING
BUREAU OF WATER ALLOCATION
P.O. BOX 426
TRENTON, NEW JERSEY 08625-0426
TEL.# 609-292-2957
FAX.# 609-633-1495*

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

June 30, 2010

PPG Site 114
4325 Rosanna Drive
ALLISON PARK, PA 15101
Attn: Brian G. McGuire

Dear Mr. McGuire:

Re: **Water Use Registration - New
Program Interest ID: 11345W
Activity No. WUR100001**

Enclosed is a Water Use Registration issued pursuant to N.J.S.A. 58:1A et seq. This Water Use Registration becomes effective on July 1, 2010 and is to divert water from dewatering trench in the following Municipalities and Counties:

MUNICIPALITY	COUNTY
Jersey City	Hudson

This registration provides valuable data on water use which assists the Bureau in effectively managing the State's water resources. The diversion of more than 100,000 gpd requires a Water Allocation Permit. This registration allows for a total diversion (from all sources combined) up to 100,000 gallons of water per day.

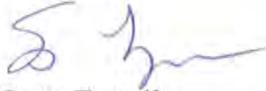
The issuance of this water use registration does not imply that any further approvals will be granted by the Department of Environmental Protection for the diversion of water in excess of 100,000 gallons of water per day (gpd) for use at this facility. Any construction activities undertaken by the registrant, that may require the use of water in excess of 100,000 gpd, are done so at the registrant's own risk.

11345W is your Program Interest ID and WUR100001 is your Permit Activity Number, and will appear on all forms and correspondence from the Bureau of Water Allocation. Reference your Program Interest ID and Activity No. in all correspondence.

Review the enclosed Water Use Registration to ensure its accuracy and your understanding of the conditions contained therein. If any of the information contained in this registration is incomplete or incorrect notify the Bureau in writing so your file can be updated.

If you have any questions, contact Ken Komar at (609) 292-2957.

Sincerely,



Scott Tyrrell
Section Chief
Bureau of Water Allocation

Enclosures

Certified Mail No.: 7007 0220 0002 1055 0469

c: Northern Bureau of Water Compliance & Enforcement
Ken Komar, BWA



State of New Jersey
Department of Environmental Protection
Bureau of Water Allocation
PO Box 426, Trenton, New Jersey 08625-0426



Water Use Registration

The New Jersey Department of Environmental Protection grants this permit* in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents.

Program Interest ID: 11345W Permit Number: WUR100001	Issuance Date: 06/30/2010	Effective Date: 07/01/2010	
Name and Address of Applicant PPG SITE 114 4325 Rosanna Drive ALLISON PARK, PA 15101	Location of Activity/Facility Jersey City Hudson		
	Type of Permit Water Use Registration - New	Statute(s) N.J.S.A. 58:1A-1	

This water use registration grants permission to divert water from the approved sources in the attached permit inventory, in the following municipalities, for the following water uses:

MUNICIPALITY	COUNTY	Water Uses:
Jersey City	Hudson	Pollution Control

This water use registration is subject to the attached Conditions.

* Permit means Certification, Approval, Registration, Equivalency, etc.

Permit Inventory

Water Diversion Sources - Water may be diverted under this permit from the following sources:

Source Designation (Well Permit No. or Intake No.)	Description	Subject Item ID
DEWATERING/ TRENCH SOURCES	EXCAVATION TRENCH	WSRM0000919299

Group Subject Items - The following items are grouped sources for the purpose of setting permit requirements outlined in this document:

Group Designation	Group Description	Group Subject Item ID	Group Members
PPG SITE 114	11345W WU REG - ALL DIVERSION SOURCES	WSWA0000919300	DEWATERING/ TRENCH SOURCES, EXCAVATION TRENCH (WSRM919299)

Permit Requirements

Limit Requirements

The following limits apply and are the maximum permitted allocation:

Final Permit Phase from 07/01/2010 -

Subject Item	Parameter	Limit
PPG SITE 114, 11345W WU REG - ALL DIVERSION SOURCES (WSWA919300)	Water Diverted	< 3.1 Million Gallons Per Month. [N.J.A.C. 7:19- 2]

Other Limit Requirements

Final Permit Phase from 07/01/2010 -

Subject Item	Parameter	Limit
DEWATERING/ TRENCH SOURCES, EXCAVATION TRENCH (WSRM919299)	Rated Pump Capacity	<= 300 Gallons Per Minute. [N.J.A.C. 7:19- 2]

Monitoring Requirements

Final Permit Phase from 07/01/2010 -

Subject Item	Requirement	Frequency	Monitored Parameter	Monitoring Method
DEWATERING/ TRENCH SOURCES, EXCAVATION TRENCH (WSRM919299)	The monthly diversion for each source indicated shall be monitored. [N.J.A.C. 7:19- 2]	Each Month	Water Diverted	Meter

Record Keeping Requirements

Final Permit Phase from 07/01/2010 -

Subject Item	Requirement	Frequency	Monitored Parameter	Record Keeping Method
PPG SITE 114, 11345W WU REG - ALL DIVERSION SOURCES (WSWA919300)	A log book of the monthly hours of operation for each authorized non-metered diversion source shall be maintained on site. [N.J.A.C. 7:19- 2]	Each Month	Hours of Operation	Log Book

Submittal/Action Requirements

Final Permit Phase from 07/01/2010 -

Applicable Subject Items	Submittal/Action Type	Requirement
DEWATERING/ TRENCH SOURCES, EXCAVATION TRENCH (WSRM919299)	Submit Annual Water Use Report	The required monitoring results shall be recorded on the form provided by the Department. The completed report shall be submitted by January 31st of each year. [N.J.A.C. 7:19- 2]
PPG SITE 114, 11345W WU REG - ALL DIVERSION SOURCES (WSWA919300)	Submit Water Use Registration Metering Form	The completed form must be submitted within 60 days from the effective date of this document. [N.J.A.C. 7:19- 2]
DEWATERING/ TRENCH SOURCES, EXCAVATION TRENCH (WSRM919299)	Submit Proof of Flow Meter Calibration	Proof of flow meter calibration for the specified diversion source(s) shall be submitted prior to placing the source into operation. [N.J.A.C. 7:19- 2]

Text Requirements

All Phases

PPG SITE 114, 11345W WU REG - ALL DIVERSION SOURCES (WSWA919300)

1. The total diversion from all sources shall not exceed or equal 3.1 million gallons per month (mgm). Any exceedance of this limit will be considered a violation of N.J.A.C. 7:19-1.4 et seq. and may result in penalties (fines). [N.J.A.C. 7:19-18]
2. The issuance of this water use registration does not imply that any further approvals will be granted by the Bureau of Water Allocation for the diversion of water in excess of 100,000 gallons of water per day (gpd) for use at this facility. Any construction activities undertaken by the registrant, that may require the use of water in excess of 100,000 gpd, are done so at the registrant's own risk. [N.J.A.C. 7:19- 2]
3. This registration does not waive the obtaining of any Federal or other State or local government consent when necessary. [N.J.A.C. 7:19- 2]
4. All diversion sources shall be metered with a totalizing flow meter prior to use authorized by this Water Use Registration. [N.J.A.C. 7:19- 2]
5. All diversion source meters are required to be calibrated at least once every five years. [N.J.A.C. 7:19- 2]
6. All wells shall be equipped with a metal tag showing the well permit numbers, as listed in the permit inventory, or the permit numbers must be painted on the well casing. [N.J.A.C. 7:19- 2]
7. Wells which are no longer used must be decommissioned in accordance with N.J.A.C. 7:9D-3.1 et seq. [N.J.A.C. 7:9D-3]
8. The addition of a new diversion source requires prior approval by the Department through a modification of the registration. [N.J.A.C. 7:19- 2]
9. The pumping equipment capacity shall not be increased without prior approval by the Department. [N.J.A.C. 7:19- 2]
10. The issuance of this registration shall not be deemed to affect in any way action by the Department of Environmental Protection of the State of New Jersey on any future application. [N.J.A.C. 7:19- 2]
11. The granting of this registration shall not be construed to in any way affect the title or ownership of property, and shall not make the Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:19- 2]
12. A copy of this registration shall be kept at the work site, and shall be exhibited upon request of any person. [N.J.A.C. 7:19- 2]

Text Requirements

All Phases

PPG SITE 114, 11345W WU REG - ALL DIVERSION SOURCES (WSWA919300)

13. The Department has the right to enter and inspect any site, building, or equipment, or any portion thereof, owned or operated by the registrant, at any time, in order to ascertain compliance or noncompliance with N.J.S.A. 58:1A-1 et seq., 58:4A-4.1 et seq., 58:12A-1 et seq., these rules, or any other agreement or order issued or entered into pursuant thereto. Such right shall include, but not be limited to, the right to require the testing of any equipment at the facility, to sketch or photograph any portion of the site, building or equipment, to copy or photograph any document or records necessary to determine such compliance or noncompliance, and to interview any employees or representative of the owner, operator, or registrant. Such right shall be absolute and shall not be conditioned upon any action by the Department, except the presentation of appropriate credentials as requested and compliance with appropriate standard safety procedures. [N.J.A.C. 7:19- 2]
14. The registrant shall protect each diversion source from vandalism, tampering, and contamination at all times. [N.J.A.C. 7:19- 2]

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION
P.O. BOX 426
TRENTON, NJ 08625
(609) 292-2957

WATER USE REGISTRATION METERING FORM

This form is to be completed within 60 days of receipt of your registration number or within 60 days of completion of your diversion source, whichever occurs last. All diversions must be metered, with a totalizing flow meter, at the source.

REGISTRATION NUMBER _____ COMPANY _____
CONTACT PERSON _____ ADDRESS _____
PHONE NUMBER _____

1. Complete the following information for all diversion sources. (wells, ponds, stream intakes)

Source	Well Permit No.	Meter Type	Manufacturer	Date Installed

2. Provide details of the proposed schedule for calibration of each meter. All meters must be calibrated at least once every five years.

Meter readings must be taken and recorded at the beginning of every month, so the monthly usage can be tracked accurately.



State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Water Quality
Municipal Finance and Construction Element
P.O. Box 420, Mail Code 401-03D
Trenton, NJ 08625-0420
Fax: (609) 633-8165
www.state.nj.us/dep/dwq

BOB MARTIN
Commissioner

PPG Industries, Inc.
4325 Rosanna Drive
Allison Park, PA 15101-2009

DEC 3 2011

Re: Treatment Works Approval No. 11-0256
Site 114
Jersey City, Hudson County

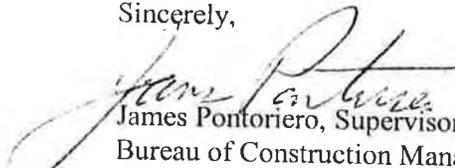
Gentlemen:

There is enclosed a Treatment Works Approval issued to you pursuant to Title 58 of the Revised Statutes of New Jersey and in consideration of your application received on 08/17/2011 signed by Mark Terril, Director, and Hue N. Quan, P.E.

This approval is valid for a period of two (2) years from the issuance date, unless otherwise stated in the attached approval document. This approval shall expire unless building, installing or modifying of the treatment works has begun within the initial approval period. Treatment works approvals may be extended beyond the original two year approval date, to a maximum period of five years from the original issuance date, in accordance with the terms and conditions contained in N.J.A.C. 7:14A-22.12. A time extension request must be received by the Department prior to the permit's expiration date. Time extension requests shall be submitted to the Bureau of Construction Management and TWA/CSO Permitting at the address noted in the heading of this letter.

If you have any questions regarding the permit, please contact Nazia Mughis-Sohrawardy of this office by calling (609) 984-4429.

Sincerely,


James Pontoriero, Supervisor
Bureau of Construction Management and TWA/CSO Permitting

11-0256
Enclosure

cc: AECOM
Jersey City
Jersey City MUA

Let's protect our earth



STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
P.O. Box 402, TRENTON, NJ 08625-0402

PERMIT TO CONSTRUCT AND OPERATE* TREATMENT WORKS

Local Agency approval required prior to operation

The New Jersey Department of Environmental Protection grants this approval in accordance with your application, attachments accompanying same application, and applicable laws and regulation.

PERMIT NO.	ISSUANCE DATE	EXPIRATION DATE	DESIGN FLOW
11-0256	12/05/2011	12/04/2013	.095 M.G.D.

NAME AND ADDRESS OF APPLICANT

PPG Industries, Inc.
4325 Rosanna Drive
Allison Park PA 15101-2009

LOCATION OF ACTIVITY

Jersey City
Hudson County

This permit grants permission to:

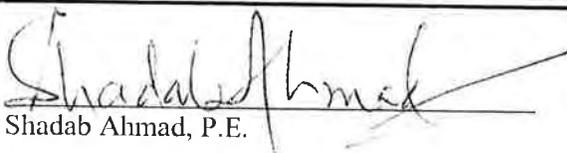
Construct and Operate 80 LF of 6 inch PVC and 10 LF of 12 inch HDPE replacement in kind of sanitary sewer extension to service dewatering activities during site remediation activities (excavation at the PPG Site 114) located in Jersey City, Hudson County.

According to the plans entitled:

"Conceptual Groundwater Treatment Plant Orientation, Initial Phase of Construction, PPG Industries, Site 114, Jersey City, Hudson, County, NJ", prepared by AECOM, dated 8/3/11 last revised 11/16/11, sheets C-01A, C-02, D-01 and D-02.

and according to the specifications entitled:

"Sanitary Sewer Pipe Installation and Trenching, Backfilling and Compaction Specifications", Prepared by AECOM, dated February 2011.


 Shadab Ahmad, P.E.

APPROVED by the Department of Environmental Protection


 Gautam R. Patel, Chief
 Bureau of Construction and Connection Permitting

This permit is also subject to special provisos and general conditions stipulated on the attached page(s) which are agreed to by the permittee upon acceptance of the permit.

PART I

PROVISOS

A. Project Specific Provisos

1. That the proper operation and maintenance of the sewer system approved herein is the sole responsibility of the OWNER AND OR APPLICANT named herein or its assignees.
2. That the design flow of 0.095 MGD (95,000 gpd) is based on an estimate of the maximum daily flow of treated groundwater to be conveyed by the treatment works approved herein.

GENERAL CONDITIONS FOR TREATMENT WORKS APPROVALS

Section A. GENERAL CONDITIONS

1. This permit is revocable, or subject to modification or change, at any time, when in the judgement of the Department of Environmental Protection of the State of New Jersey such revocation, modification or change shall be necessary.
2. The issuance of this permit shall not be deemed to affect in any way action by the Department of Environmental Protection of the State of New Jersey on any future application.
3. The works, facilities, and/or activities shown by plans and/or other engineering data, which are this day approved, subject to the conditions herewith established, shall be constructed and/or executed in conformity with such plans and/or engineering data and the said conditions.
4. No change in plans or specifications shall be made except with the prior written permission of the Department of Environmental Protection of the State of New Jersey.
5. The granting of this permit shall not be construed to in any way affect the title or ownership of property, and shall not make the Department of Environmental Protection or the State a party in any suit or question of property.
6. This permit does not waive the obtaining of Federal or other State or local government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained.
7. A copy of this permit shall be kept at the work site, and shall be exhibited upon request of any person.
8. No treatment unit or conveyance system may be by-passed which would result in the discharge of untreated sewage into any of the waters of the state.
9. The full responsibility for adequate design, construction and operation of the treatment works, and the full responsibility for successful collection, treatment, and discharge of pollutants shall be on the applicant.
10. The issuance of approval by the Department shall not relieve the applicant of the continuing responsibility for the successful collection, treatment, or discharge of pollutants for the continuing compliance with any applicable effluent limitations, permits, regulations, statute, or other law.
11. Review and approval is based solely upon the information contained in the application and the contents of the engineer's report as certified by the licensed professional engineer as being in compliance with the Department's Rules and Regulations.

Section B. CONSTRUCTION COMPLETION CERTIFICATION

1. Within 30 days of completion of the treatment works approved herein, the permittee shall submit two executed forms, WQM005 Certification of Approval, to the appropriate sewage treatment plant (STP) for their approval prior to operation. One executed copy approved by the receiving STP shall be forwarded to the appropriate Bureau and address noted on the cover page of this approval. Failure to submit the certification within 30 days of completion of the project may be grounds for revocation of the permit. Should partial operation be required prior to completion, approval will be under local jurisdiction.
2. In cases where the project and the receiving treatment facility are one in the same, the WQM005 Certification of Approval form must be submitted to the Bureau and address noted on the cover page of this approval within 30 days of completion of the treatment works. Failure to submit the certification within this time period may be grounds for revocation of the permit.

Section C. PERMIT EXPIRATION AND EXTENSIONS OF TIME

1. This permit shall remain in force for a period of only two years from the date of approval unless stated otherwise within the special provisos, or construction of said works has begun within the approved time frame. Interruption of construction of said works for a period of more than two years may serve as a basis for permit revocation.
2. Treatment works approvals may be extended beyond the original two year approval date, to a maximum of five years from the original issuance date, in accordance with the terms and conditions in N.J.A.C. 7:14A-22.12, unless stated otherwise within the special provisos. A time extension request must be received by the Department prior to the permit's expiration date. Requests must be submitted to the Bureau and address noted on the cover page.

Section D. ADJUDICATORY HEARING REQUESTS

1. Pursuant to N.J.A.C. 7:14A-22.24 et seq., any interested person who considers himself or herself aggrieved by this action, may, within 10 days of publication of notice of the decision in the DEP Bulletin, request a hearing by addressing a written request for such hearing to the:

Office of Legal Affairs
Attention: Adjudicatory Hearing Requests
Department of Environmental Protection
P.O. Box 420, Mail Code 401-04L
Trenton, NJ 08625-0420

Such a request should include a completed Administrative Hearing Request Checklist and Tracking form for Approvals or Denials (enclosed herein for Denials). This form is required, as DEP is the transmitting agency to the Office of Administrative Law, pursuant to N.J.A.C. 1:1-8.2.



JERSEY CITY MUNICIPAL UTILITIES AUTHORITY

555 ROUTE #440 · JERSEY CITY, NEW JERSEY 07305 · TEL: (201) 432-1150 · FAX: (201) 432-1576

DANIEL F. BECHT, ESQ
EXECUTIVE DIRECTOR

JOHN D. FOLK, C.P.A.
DIRECTOR OF FINANCE

BOARD OF COMMISSIONERS

EILEEN GAUGHAN
CHAIRPERSON

DONALD BROWN
VICE CHAIRPERSON

WILLIAM MACCHI
SECRETARY

LEWIS W. MATTHIAS
TREASURER

WILLIAM CHOPEK, JR
COMMISSIONER

Dec. 19, 2011

Hue Quan, P.E.
Senior Project Manager
AECOM
30 Knightbridge Road
Piscataway, New Jersey 08854

**RE: PPG CLEANUP
900 GARFIELD AVENUE
BLOCK 2026.A, LOTS 1 & 3.
BLOCK 2026.1, LOTS 2A, 4A & 3B
JCMUA PROJECT NO. 2011-0179-01**

Dear Ms Quan;

The Jersey City Municipal Utilities Authority (JCMUA) is in receipt of a copy of the TWA permit 11-0256 for proposed discharge into JCMUA sewer system. In addition, all sewer connection fees have been paid by the applicant for the above referenced project. Based on the above, the applicant may proceed with proposed discharge. Please note that if project duration is less than three (3) years, the applicant may apply for a partial refund of connection fees paid.

As discussed, AECOM shall forward meter readings on a quarterly basis to the JCMUA (Attn: Richard Haytas, Senior Engineer) for billing purposes. Please include the name and address that the invoice should be addressed to with the first readings. JCMUA may also conduct its own meter reading verification if necessary.

Discharges during wet weather events shall cease until flow monitoring equipment has been installed on AECOM in the combined sewer in Carteret Avenue. Once this equipment is installed and inspected by the JCMUA, discharge shall cease once the sewer has reached half its capacity.

If you have any questions, please do not hesitate to contact this office.

Very truly yours,

Rajiv Prakash, PE
Staff Engineer

cc: Daniel F. Becht, Esq., Executive Director
Richard Haytas, Senior Engineer
John Folk, CPA, Director of Finance
Ruth Mogro, Staff Engineer
Chuck Lee, P.E., Municipal Engineer
Benjamin Delisle, Jersey City Redevelopment Agency
Louis Lambe, PVSC



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Site Remediation Program

P.O. Box 028

Trenton, NJ 08625

CHRIS CHRISTIE

Governor

KIM GUADAGNO

Lt. Governor

BOB MARTIN

Commissioner

August 1, 2011

Brian G. McGuire, P.E., Remediation Project Manager
PPG Industries, Inc.
Post Office Box 2009
4325 Rosanna Drive, Bldg C
Allison Park, PA 15101-2009

Re: Discharge Approval and Monitoring Requirements Associated with a
Permit-By-Rule Discharge Authorization for PPG Industries
NJ Program Interest Number: G000005480
Garfield Avenue Site 114 and Former Halladay Street Gas Works
Jersey City, Hudson County

Dear Mr. McGuire:

This New Jersey Pollutant Discharge Elimination System/Discharge to Ground Water (NJPDES/DGW) authorization is hereby issued under the authority of the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 *et seq.* and the implementing regulations, N.J.A.C. 7:14A-1 *et seq.* N.J.A.C. 7:14A-7.5 authorizes this discharge of calcium polysulfide/sodium polysulfide (CaSx/NaSx, trade name COPREX) and ferrous sulfide (FeS) blend to the ground waters of the State within a clean backfill test cell for the purpose of remediation of potentially contaminated ground water at the above referenced site. Pursuant to N.J.A.C. 7:14A-22.4(b)5, a Treatment Works Approval is not required for discharges to ground water authorized pursuant to N.J.A.C. 7:14A-7.5 or 8.5. The discharge approved through this authorization will be to implement pilot test activities within a cell having the dimensions 30 feet long by 30 feet wide. This discharge approval is contingent upon all pilot testing activities being protective of any and all underground utilities that may be present within and near to the proposed testing area.

The discharge is to be conducted as proposed in Sections 7.1.2 and 8.4 of the March 2011, Permit-By-Rule Request / Technical Execution Plan: Pilot Study Plans for In Situ Treatment of Chromium Impacted Soil, submitted on your behalf by Hue Quan and Craig W. MacPhee of AECOM. It is noted that this authorization is solely for those portions of the Permit By Rule Request / Technical Execution Plan: Pilot Study Plans for In Situ Treatment of Chromium Impacted Soil relating to amendment of clean backfill. This Permit-By-Rule authorization does not authorize the in-situ soil treatment process described in the Permit-By-Rule Request / Technical Execution Plan: Pilot Study Plans for In Situ Treatment of Chromium Impacted Soil. The discharge must be conducted in conformance with the following requirements.

I. DISCHARGE DESCRIPTION

The authorized discharge is a mixture of calcium polysulfide/sodium polysulfide (CaSx/NaSx, trade name COPREX) and ferrous sulfide (FeS) blend to a test cell having the dimensions 30 feet long by 30 feet wide. Under the Interim Remedial Measure, source material is removed to depths ranging from 15 to 20 feet and replaced with clean fill. The excavation depth is below the water table and over time groundwater impacted with chromium may infiltrate into the clean fill. To address this concern, adding a low dose of reducing agents to the backfill before it is placed into the excavation to treat the groundwater will be tested. Clean backfill will be blended with reducing agents above ground. Amended backfill will then be placed in the excavated area. Testing of the soil and groundwater will be conducted to determine if the amendment addition was successful. CaSx/NaSx and FeS are the likely reducing agents to be used; however, AECOM may substitute sodium hydrosulfide (NaSH) for the CaSx/NaSx based on bucket testing, and ferrous sulfate for the FeS based on the availability of ferrous sulfide. Because it is essential that the amended backfill come in complete contact with the groundwater, this test cell will not be lined. A 50% CaSx/NaSx solution and a 10% FeS solution will be blended with the backfill soil to treat the ground water within the treatment cell. During the mixing process, AECOM anticipates to use between 750 and 1500 gallons of 50% CaSx/NaSx solution, and between 1900 and 3800 gallons of 10% FeS solution.

II SYSTEM OPERATION AND MONITORING

Soil sampling shall be performed as proposed in the March 2011 Technical Execution Plan (TEP). All sampling must be performed consistent with the methods specified in the most current edition of the Department's Field Sampling Procedures Manual, unless otherwise approved by the Department. All samples shall be analyzed by a New Jersey Certified Laboratory certified for the methods.

The area around the test cell will be monitored for evidence of malfunction, in accordance with the Construction Quality Assurance Plan (Appendix C of the TEP). Said evidence shall include, but not be limited to: breakout, wet areas, ponding, odors, and elevated dust readings in the nearby area.

The discharge shall not adversely impact the behavior of the plume, create an unpermitted discharge to any surface water of the State, create a persistent standing, ponded or surface-flowing fluid condition, adversely impact a water supply well or cause adverse vapor intrusion to occur.

Pursuant to N.J.A.C. 7:14A-6.2(a)5 and 11, if free product in ground water, vapors or odors in any building, or any malfunction resulting in a potential impact to a receptor are detected and are a result of the discharge authorized by this approval, the discharger will immediately: (1) cease the discharge or make necessary adjustments to the injection rate; and (2) repair or mitigate any negative impacts.

III. MONITORING REQUIREMENTS

Post treatment monitoring will be completed at 1, 3, 6, and 12 months after treatment in accordance with Section 9 of the TEP. A monitoring well will be installed in the center of the cell, to a depth of approximately 15 feet, with a 10-foot screen. During each sampling event (1, 3, 6, and 12 months after treatment) the well will be sampled (if water is present) with analysis for TAL metals plus hexavalent chromium, as well as Eh and pH.

Testing of soil from the amended backfill test cell will include soil chemistry and physical property testing. During each sampling event, three samples will be collected at five-foot depth intervals (5-10 feet, 10-15 feet,

and 15 feet to the bottom of fill). Soils will be analyzed for total and hexavalent chromium, Eh and pH. Additionally, one boring after 3 months will be advanced with a split spoon with recorded blow counts to determine if the amendment reagents are affecting the compaction of the backfill. One sample will be collected after 3 months for permeability testing, with results compared with permeability testing from soils collected outside the treatment area.

The treatment cell and all contents will be left in place after the testing is complete.

IV. REPORTING REQUIREMENTS AND INFORMATION SUBMITTALS

As results become available, the data will be included in the remedial design report. At the conclusion of testing, a standalone report on results and recommendations will be prepared. All information, soil sampling results, and the QA/QC package specified at N.J.A.C. 7:26E-2.1(a)16iii, shall be submitted with the completion report and sent to:

Thomas J. Cozzi
New Jersey Department of Environmental Protection
Site Remediation Program
401 East State Street, P.O. Box 028
Trenton, NJ 08625-0028

The record keeping requirements of N.J.A.C. 7:14A-6.6 are applicable to monitoring information resulting from this discharge authorization. Pursuant to N.J.A.C. 7:14A-6.8(e) the results for any additional sampling done as a result of this discharge, but that is not specified in this authorization, must also be reported with the report as specified above. If you have any questions, please contact Thomas J. Cozzi of the Site Remediation Program at (609) 984-2905.

Sincerely,



Thomas J. Cozzi, Assistant Director
NJDEP Site Remediation

c: Craig W. MacPhee, AECOM
Prabal N. Amin, Weston Solutions, Inc.



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Site Remediation Program

Mail Code 401-04K

P.O. Box 420

Trenton, NJ 08625-0420

CHRIS CHRISTIE
Governor

BOB MARTIN
Commissioner

KIM GUADAGNO
Lt. Governor

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

October 17, 2012

Brian G. McGuire, P.E., Remediation Project Manager
PPG Industries, Inc.
Post Office Box 2009
4325 Rosanna Drive, Bldg. C
Allison Park, PA 15101-2009

Re: Discharge Approval and Monitoring Requirements Associated with
Permit-By-Rule Discharge Authorization for PPG Industries (COPR)
Garfield Avenue Group and Former Halladay Street Gas Works
NJ Program Interest Numbers: G000008791, G000008749, 025695, 246332, G000008753, and
G000008759
Jersey City, Hudson County

Dear Mr. McGuire:

This New Jersey Pollutant Discharge Elimination System/Discharge to Ground Water (NJPDES/DGW) authorization is hereby issued under the authority of the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq. and the implementing regulations, N.J.A.C. 7:14A-1 et seq. N.J.A.C. 7:14A-7.5 authorizes the discharge described below which will allow the permittee to discharge FerroBlack-H (a water based suspension of 7 to 8% ferrous sulfide and 1 to 2% sodium hydrosulfide) to the ground waters of the State within clean backfill for the purpose of remediation of potentially contaminated ground water at the above referenced sites. Pursuant to N.J.A.C. 7:14A-22.4(b)5, a Treatment Works Approval is not required for discharges to ground water authorized pursuant to N.J.A.C. 7:14A-7.5. The discharge approved through this authorization will be added to clean backfill placed in excavations down to a depth of up to 35 feet. The discharge shall be conducted as proposed in the *Permit by Rule Request - Garfield Avenue Group and Former Halladay Street Gas Works* (August 30, 2012), submitted to the Department on your behalf by AECOM. The discharge shall be conducted in conformance with the following requirements.

A public notice describing this discharge was published in The Jersey Journal on September 11, 2012 which initiated a 30 day public comment period. In addition a copy of the public notice was sent to the city clerk of Jersey City, and to the Jersey City and Hudson County health officials. The Department did not receive any comments on the DGW proposal.

I. DISCHARGE DESCRIPTION

The authorized discharge is FerroBlack-H (a water based suspension of 7 to 8% ferrous sulfide and 1 to 2% sodium hydrosulfide). The FerroBlack-H will be added to backfilled soils at the Garfield Avenue Group and Former Halladay Street Gas Works in Jersey City, New Jersey (the Site). The Garfield Avenue Group includes Chromium Sites 114, 132, 133, 135, 137 and 143. PPG is conducting a remediation of the Site whereby chromium-impacted soil would be excavated and removed from the site. Excavations could reach depths of up to 35 feet. Clean backfill would be blended with a low dose of FerroBlack-H (2.8% by weight or less of FerroBlack-H to clean fill) and placed in the excavated area. The FerroBlack-H application is designed to convert hexavalent chromium in groundwater to the less toxic and less mobile trivalent form. The proposed application of FerroBlack-H would be part of the completion of the overall remediation of the sites. Application rates for FerroBlack-H will range from 0% (no use of the amendment) to a maximum of 2.8%. The total amount of the FerroBlack-H solution to be applied is a maximum of 6,520 tons. Excluding water, an estimated 520 tons of ferrous sulfide and 13 tons of sodium hydrosulfide will be applied to the clean fill. The actual dosing and locations of application within each area will be determined as part of the Technical Execution Plan for each area. It is estimated that the excavation and backfill operations will take 36 months to complete.

II. SYSTEM OPERATION AND MONITORING

All sampling shall be performed as proposed and consistent with the methods specified in the most current edition of the Department's Field Sampling Procedures Manual, unless otherwise approved by the Department. All samples shall be analyzed by a New Jersey Certified Laboratory certified for the methods being used to analyze ground water and soil. Parameters determined in the field (pH and Eh) are to be measured by a certified contractor or laboratory. Analytical method MDLs shall be less than or equal to the groundwater quality standards listed in Table 1.

The area in and around the amended backfill shall be monitored for evidence of malfunction. Said evidence shall include, but not be limited to: spilling, dust and/or odor emissions, abnormal settling, ponding and/or chromium blooms at the ground surface.

The discharge shall not have a long term adverse impact on ground water quality, create an unpermitted discharge to any surface water of the State, create a persistent standing, ponded or surface-flowing fluid condition, adversely impact a water supply well or cause adverse vapor intrusion to occur.

Pursuant to N.J.A.C. 7:14A-6.2(a)5 and 11, if free product in ground water, vapors or odors in any building, or any malfunction resulting in a potential impact to a receptor are detected and are a result of the discharge authorized by this approval, the discharger will immediately: (1) cease the discharge or make necessary adjustments to the discharge rate or system operation; and (2) repair or mitigate any negative impacts.

III. GROUND WATER MONITORING REQUIREMENTS

Ground water monitoring/sampling must be conducted as specified in the above referenced *Permit by Rule Request - Garfield Avenue Group and Former Halladay Street Gas Works* (August 30, 2012). Following the completion of excavation and placement of the amended backfill (or at the request of the Department), a groundwater monitoring network will be installed within, adjacent to, and underneath the area of amended

fill. Well installation, well development, and ground water sampling will be conducted in accordance with the procedures previously approved as part of the *Quality Assurance Project Plan for the Garfield Avenue Group* (AECOM, 2012).

The monitoring program will utilize existing wells and newly installed wells. The wells will be tested quarterly for a period of one year. Testing will include analysis for hexavalent chromium, Target Analyte List (“TAL”) metals, pH and oxidation potential (“Eh”). During each monitoring event the air above the open monitoring wells will be tested for oxygen, hydrogen sulfide, carbon monoxide, and explosive limit. Prior to the application of amended backfill, soil samples from pit bottoms in each of the grids will be analyzed for hexavalent chromium, total chromium, pH and oxidation potential. Additionally, 10% of the soil samples will be analyzed for additional parameters (TAL metals, volatile organic compounds, semi-volatile organic compounds and potentially other parameters as described in the technical execution plan for each area).

IV. REPORTING REQUIREMENTS AND INFORMATION SUBMITTALS

Report ground water sampling results for the individual contaminants listed in Table 1 and any others that exceed standards. All information and ground water and soil sampling results, and the QA/QC package specified at N.J.A.C. 7:26E-2.1(a)15, shall be submitted to the below address entitled “DGW Permit-by-Rule Monitoring Report” at the frequency specified in the DGW Proposal. AECOM will produce quarterly reports on monitoring results and produce a final report at the conclusion of four quarters of monitoring. In addition, all monitoring results obtained under the permit-by-rule shall also be submitted with the Remedial Action Report (RAR), N.J.A.C. 7:26E-5.7, and sent to:

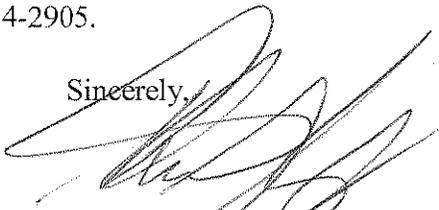
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CASE ASSIGNMENT & INITIAL NOTICE
MAILCODE 401-05H
P.O. BOX 420
TRENTON, NJ 08625-0420
ATTN: COPR

In addition, electronic copies of the tabulated ground water and soil sampling results shall be e-mailed to Thomas Cozzi at Tom.Cozzi@dep.state.nj.us according to the schedule in the DGW proposal.

The record keeping requirements of N.J.A.C. 7:14A-6.6 are applicable to monitoring information resulting from this discharge authorization. Pursuant to N.J.A.C. 7:14A-6.8(e) the results for any additional sampling done as a result of this discharge, but that is not specified in this authorization, must also be reported with the RAR as specified above. Any malfunctions or non-compliance should be reported by telephone within 24 hours to Tom Cozzi of the Site Remediation Program at (609) 984-2905, and in writing within 7 days to the above address using the subject line “DGW Permit-by-Rule Compliance Report - COPR.”

If you have any questions or concerns, please contact Tom Cozzi of the Site Remediation Program at (609) 984-2905.

Sincerely,



Thomas J. Cozzi, Assistant Director
NJDEP Site Remediation Program, Office of Assistant Commissioner

Attachments

c: Craig W. MacPhee, AECOM
Prabal N. Amin, Weston Solutions, Inc.
Carrie Nawrocki, Hudson Regional Health Commission
Harry Melendez, Jersey City Dept. of Health and Human Services
Robert Byrne, RMC, Jersey City Clerk

Table 1: Ground Water Quality Standards of Monitored Parameters

Parameters	Standards in ppb* (a)
Total Chromium (Cr)	70
Hexavalent Chromium (Cr ⁺⁶)	
pH	6.5–8.5
Oxidation Potential (Eh)	
Aluminum (Al)	200
Antimony (Sb)	6
Arsenic (As)	3
Barium (Ba)	6,000
Beryllium (Be)	1
Cadmium (Cd)	4
Calcium (Ca)	
Cobalt (Co)	
Copper (Cu)	1,300
Iron (Fe)	300
Lead (Pb)	5
Magnesium (Mg)	
Manganese (Mn)	50
Mercury (Hg)	2
Nickel (Ni)	100
Potassium (K)	
Total Selenium (Se)	40
Silver (Ag)	40
Sodium (Na)	50,000
Sulphur (S)	
Thallium (Tl)	2
Vanadium (V)	60
Zinc (Zn)	2,000

*except pH

Notes:

- a) Ground Water Quality Criteria were established for Class II-A aquifers pursuant to N.J.A.C. 7:9C-1.7(c) of the GWQS. Practical quantitation levels (PQL) are defined, discussed and specified in N.J.A.C. 7:9C-1.4, 1.9(c) and Appendix Table 1. The applicable standard is the higher of these two values.