



Environment

Prepared for:  
PPG Industries  
Allison Park, Pennsylvania

Prepared by:  
AECOM  
Piscataway, NJ

Project No. 60238842  
December 18, 2013

# RECEPTOR EVALUATION REPORT, Rev. 4

Non-Residential Chromate Chemical Production Waste Site 186  
Jersey City, New Jersey





## **CONTENTS**

- Attachment A: Receptor Evaluation Form – Site 186
- Attachment B: Properties within 200 ft of Site 186
  - Figure B-1: 200 ft Buffer Zone
  - Table B-1: List of Properties within 200 ft Buffer Zone
- Attachment C: Results of ½-mile Radius Well Search

## **Attachment A**

Receptor Evaluation Form  
Site 186



**New Jersey Department of Environmental Protection**  
Site Remediation Program

**RECEPTOR EVALUATION (RE) FORM**

Date Stamp  
(For Department use only)

**SECTION A. SITE NAME AND LOCATION**

Site Name: Hudson County Chromate 186

List all AKAs: HCC Site 186

Street Address: 947 Garfield Avenue

Municipality: Jersey City (Township, Borough or City)

County: Hudson Zip Code: 07305

Program Interest (PI) Number(s): G000011477 Case Tracking Number(s): \_\_\_\_\_

**Indicate the type of submission:**

Initial RE Submission

Updated RE Submission

Indicate the reason for submission of an updated RE form

Submission of an Immediate Environmental Concern (IEC) source control report;

Submission of a Remedial Investigation Report;

Submission of a Remedial Action Report;

Check if included in updated RE

The known concentration or extent of contamination in any medium has increased;

A new AOC has been identified;

A new receptor is identified;

A new exposure pathway has been identified.

**SECTION B. ON SITE AND SURROUNDING PROPERTY USE**

1. Identify any sensitive populations/uses that are currently on-site or surrounding property usage within 200 feet of the site boundary (check all that apply):

	On-site	Off-site
None of the following .....	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Residences or residential property .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Public or Private Schools grades K-12 .....	<input type="checkbox"/>	<input type="checkbox"/>
Child care centers .....	<input type="checkbox"/>	<input type="checkbox"/>
Public parks, playgrounds or other recreation areas .....	<input type="checkbox"/>	<input type="checkbox"/>
Other sensitive population use(s) Explain _____	<input type="checkbox"/>	<input type="checkbox"/>

If any of the above applies, attach a list of addresses, facility names, type of use, and a map depicting each location relative to the site. **See Attachment B**

2. Current site uses (check all that apply):

- |  |                                       |   |                                       |
|--|---------------------------------------|---|---------------------------------------|
| <input checked="" type="checkbox"/> Industrial | <input type="checkbox"/> Residential  | <input checked="" type="checkbox"/> Commercial    | <input type="checkbox"/> Agricultural |
| <input type="checkbox"/> School or child care  | <input type="checkbox"/> Government   | <input type="checkbox"/> Park or recreational use |                                       |
| <input type="checkbox"/> Vacant                | <input type="checkbox"/> Other: _____ |   |                                       |

3. Planned future site uses and off-site use within 200 ft of site boundary (check all that apply):

- |  |  |   |                                       |
|--|--|---|---------------------------------------|
| <input checked="" type="checkbox"/> Industrial | <input checked="" type="checkbox"/> Residential  | <input checked="" type="checkbox"/> Commercial    | <input type="checkbox"/> Agricultural |
| <input type="checkbox"/> School or child care  | <input checked="" type="checkbox"/> Government   | <input type="checkbox"/> Park or recreational use |                                       |
| <input checked="" type="checkbox"/> Vacant     | <input checked="" type="checkbox"/> Other: _____ |   |                                       |

Provide a map depicting the location of the proposed changes in land use.

**SECTION C. DESCRIPTION OF CONTAMINATION**

- 1. Identify if any of the following exist at the site (check all that apply):
  - Free product [N.J.A.C. 7:26E-1.8] identified is  LNAPL\* or  DNAPL\*\*. Date identified: \_\_\_\_\_
  - Residual product [N.J.A.C. 7:26E-1.8]
  - Other high concentration source materials not identified above (e.g., buried drums, containers, unsecured friable asbestos)

Explain: CCPW identified onsite.

\* LNAPL – measured thickness of .01 feet or more

\*\*DNAPL – See [US EPA DNAPL Overview](#)

- 2. Soil Migration Pathway
  - Has soil contamination been delineated to the applicable Direct Contact Soil Remediation Standard? .....  Yes  No
  - Are all soils either below the applicable Direct Contact Criteria or under an institutional control (i.e. deed notice)? .....  Yes  No
- 3. If this evaluation is submitted with a technical document that includes contaminant summary information, proceed to Section D. Otherwise attach a brief summary of all currently available data and information to be included in the site investigation or remedial investigation report.

**SECTION D. GROUND WATER USE**

- 1. Has the requirement for ground water sampling been triggered?.....  Yes  No  Unknown  
If "No," proceed to Section F. If "Unknown," explain: \_\_\_\_\_
- 2. Is Ground water contaminated above the Ground Water Remediation Standards [N.J.A.C.7:9C]? .....  Yes  No  Unknown  
Or  Awaiting laboratory data with the expected due date: \_\_\_\_\_  
If "Yes," provide the date that the laboratory data was available and confirmed contamination above the Ground Water Remediation Standards. Date: 10/27/1997  
If "Unknown," explain: \_\_\_\_\_  
If "No," or awaiting laboratory data proceed to Section F.
- 3. Has ground water contamination been delineated to the applicable Remediation Standard? .....  Yes  No
- 4. Has a well search been completed? .....  Yes  No  
Date of most recent or updated well search: 12/12/2013 **See Appendix C**  
Identify if any of the following conditions exist based on the well search [N.J.A.C.7:26E-1.14(a)] (check all that apply):
  - Potable wells located within 500 feet from the downgradient edge of the currently known extent of contamination.
  - Potable well located 250 feet upgradient or 500 feet side gradient of the currently known extent of contamination.
  - Ground water contamination is located within a Tier 1 wellhead protection area (WHPA).
- 5. Is a completed Well Search Spreadsheet or historical well search table attached and has an electronic copy of the spreadsheet been submitted to [srpgis\\_wrs@dep.state.nj.us](mailto:srpgis_wrs@dep.state.nj.us). .....  Yes  No  
If "No," explain: \_\_\_\_\_
- 6. Are any private potable or irrigation wells located within ½ mile of the currently known extent of contamination? .....  Yes  No  
If "Yes," was a door to door survey completed? .....  Yes  No  
If survey was not completed explain: \_\_\_\_\_
- 7. Has sampling been conducted of  potable well(s) and/or  non-potable use well(s)?.....  Yes  No  
If "No," provide justification then proceed to Section E.

- 8 Has contamination been identified in potable well(s) above Ground Water Remediation Standards that is not suspected to be from the site? (If "Yes," provide justification) .....  Yes  No
- 
- 9 Has contamination been identified in potable well(s) that is above the Ground Water Remediation Standards or Federal Drinking Water Standards? .....  Yes  No
- Provide date laboratory data was received: \_\_\_\_\_
- Or  awaiting laboratory data with the expected due date: \_\_\_\_\_
- If "Yes" for potable well contamination **not attributable to background**, follow the IEC Guidance Document at <http://www.nj.gov/dep/srp/guidance/index.html#iec> for required actions and answer the following:
- Has an engineered system response action been completed on all receptors? .....  Yes  No
- Provide a brief narrative description:
- Date completed: \_\_\_\_\_ NJDEP Case Manager: \_\_\_\_\_
10. Were Non-potable use well(s) sampled and results were above Class II Ground Water Remediation Standards? .....  Yes  No
- Provide date laboratory data was received: \_\_\_\_\_
- Or  awaiting laboratory data with the expected due date: \_\_\_\_\_
11. Has the ground water use evaluation been completed? .....  Yes  No

**SECTION E. VAPOR INTRUSION (VI)**

1. Contaminants present in ground water exceed the Vapor Intrusion Ground Water Screening Levels that trigger a VI evaluation. (see NJDEP Vapor Intrusion Technical Guidance). ...  Yes  No  Unknown
- Or  Awaiting laboratory data and the expected due date: \_\_\_\_\_
- Provide the date that the laboratory data was available and confirmed contamination above the Vapor Intrusion Trigger Levels. Date: \_\_\_\_\_
2. Other existing conditions that trigger a VI evaluation. (see NJDEP Vapor Intrusion Technical Guidance)
- Wet basement or sump containing free product or ground water containing volatile organics
  - Methane generating conditions causing oxygen deficient or explosion concern
  - Other human or safety concern from the VI pathway (i.e. elemental mercury, unsaturated contamination, elevated soil gas or indoor vapor (explain):

If you answered "No," or awaiting laboratory data to Question 1., *and* did not check any boxes in Question 2, proceed to Section F, "Ecological Receptors", otherwise complete the rest of this section.

3. Has ground water contamination been delineated to the applicable Ground Water Vapor Screening Level? .....  Yes  No
4. Was a site specific screening level, modeling or other alternative approach employed for the VI pathway? .....  Yes  No
5. Identify and locate on a scaled map any buildings/sensitive populations that exist within the following distances from ground water contamination with concentrations above the Vapor Intrusion Ground Water Screening Levels or specific threats (check all that apply):
- 30 feet of petroleum free product or dissolved petroleum hydrocarbon contamination in ground water
  - 100 feet of any non-petroleum free product or any non-petroleum dissolved volatile organic ground water contamination
  - No buildings exist within the specified distances
6. The vapor intrusion pathway is a concern at or adjacent to the site (if "No," attach justification) .....  Yes  No

7. Has soil gas sampling of the building(s) been conducted? .....  Yes  No  N/A  
 If "No," or "N/A," proceed to #10
8. Has indoor air sampling been conducted at the identified building(s)? .....  Yes  No  
 If "No," proceed to #10
9. Has indoor air contamination been identified but not suspected to be from the site?  
 (if "Yes," attach justification) .....  Yes  No
10. Indoor air results were above the NJDEP's Rapid Action Levels. ....  Yes  No  
 Provide the date that the laboratory data was available and confirmed contamination above the  
 Rapid Action Levels. Date: \_\_\_\_\_  
 Or  Awaiting laboratory data with the expected due date: \_\_\_\_\_
- If "Yes" to #8 above, follow the IEC Guidance Document at**  
<http://www.nj.gov/dep/srp/guidance/index.html#iec> **for required actions.**
- The IEC engineering system response for control was implemented for all  
 identified structures .....  Yes  No  
 Date: \_\_\_\_\_ NJDEP Case Manager: \_\_\_\_\_
11. Indoor air sampling was conducted and results were above the NJDEP's Indoor Air Screening  
 Levels but at or below the Rapid Action Levels.....  Yes  No  
 Provide the date that the laboratory data was available. Date: \_\_\_\_\_  
 Or  Awaiting laboratory data with the expected due date: \_\_\_\_\_
- If "Yes" to #10 above, answer the following:**
- Has the Vapor Concern (VC) Response Action Form notifying the NJDEP of the exceedances  
 been submitted? .....  Yes  No  
 Date: \_\_\_\_\_
- Has a plan to mitigate and monitor the exposure been submitted? .....  Yes  No  
 Date: \_\_\_\_\_
- Has the Mitigation Response Action Report been submitted? .....  Yes  No  
 Date: \_\_\_\_\_
12. Has the vapor intrusion investigation been completed? .....  Yes  No  
 If "No", is the vapor intrusion investigation stepping out as part of the site  
 investigation or remedial investigation. (If "No," attach justification) .....  Yes  No

**SECTION F. ECOLOGICAL RECEPTORS**

1. Has an Ecological Evaluation (EE) has been conducted? [N.J.A.C. 7:26E-1.16] .....  Yes  No  
 Date conducted: 03/03/2011
2. Do the results of an EE trigger a remedial investigation of ecological receptors? [N.J.A.C. 7:26E-4.8]. ....  Yes  No
3. Has a remedial investigation of ecological receptors been conducted? .....  Yes  No  
 Date conducted: \_\_\_\_\_
4. Provide the name(s) of any surface water body on or within 200 feet of the site:  
none
5. Is free product or residual product located within 100 feet from an ecological receptor? .....  Yes  No
6. Available data indicate an impact on:  Ecological receptor(s)  Surface water  Sediment  
 If this evaluation is submitted with a technical document that includes contaminant summary information, proceed to  
 Section G. Otherwise attach a description of the type of contamination and provide a schedule and a description of  
 all actions to be taken to mitigate exposure

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

Full Legal Name of the Person Responsible for Conducting the Remediation: PPG Industries, Inc.

Representative First Name: Mark Representative Last Name: Terril

Title: Corporate Director, Environmental Affairs

Phone Number: (412) 492-5466 Ext: Fax: (412) 492-5377

Mailing Address: 4325 Rosanna Drive, Building E

City/Town: Allison Park State: PA Zip Code: 15101

Email Address: terril@ppg.com

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

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

Signature:  Date: Name/Title: Mark E. Terril/Corporate Director Environmental Affairs **No Changes Since Last Submittal**



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

LSRP ID Number: \_\_\_\_\_  
First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Ext: \_\_\_\_\_ Fax: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City/Town: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Email Address: \_\_\_\_\_

This statement shall be signed by the LSRP who is submitting this notification in accordance with SRRRA Section 16 d. and Section 30 b.2.

*I certify that I am a Licensed Site Remediation Professional authorized pursuant to N.J.S.A. 58:10C to conduct business in New Jersey. As the Licensed Site Remediation Professional of record for this remediation, I:*

**[SELECT ONE OR BOTH OF THE FOLLOWING AS APPLICABLE]:**

- directly oversaw and supervised all of the referenced remediation, and/or*
- personally reviewed and accepted all of the referenced remediation presented herein.*

*I believe that the information contained herein, and including all attached documents, is true, accurate and complete.*

*It is my independent professional judgment and opinion that the remediation conducted at this site, as reflected in this submission to the Department, conforms to, and is consistent with, the remediation requirements in N.J.S.A. 58:10C-14.*

*My conduct and decisions in this matter were made upon the exercise of reasonable care and diligence, and by applying the knowledge and skill ordinarily exercised by licensed site remediation professionals practicing in good standing, in accordance with N.J.S.A. 58:10C-16, in the State of New Jersey at the time I performed these professional services.*

*I am aware pursuant to N.J.S.A. 58:10C-17 that for purposely, knowingly or recklessly submitting false statement, representation or certification in any document or information submitted to the board or Department, etc., that there are significant civil, administrative and criminal penalties, including license revocation or suspension, fines and being punished by imprisonment for conviction of a crime of the third degree.*

LSRP Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
LSRP Name/Title: \_\_\_\_\_ **No Changes Since Last Submittal**   
Company Name: \_\_\_\_\_

Completed forms should be sent to the municipal clerk, designate health department, and:

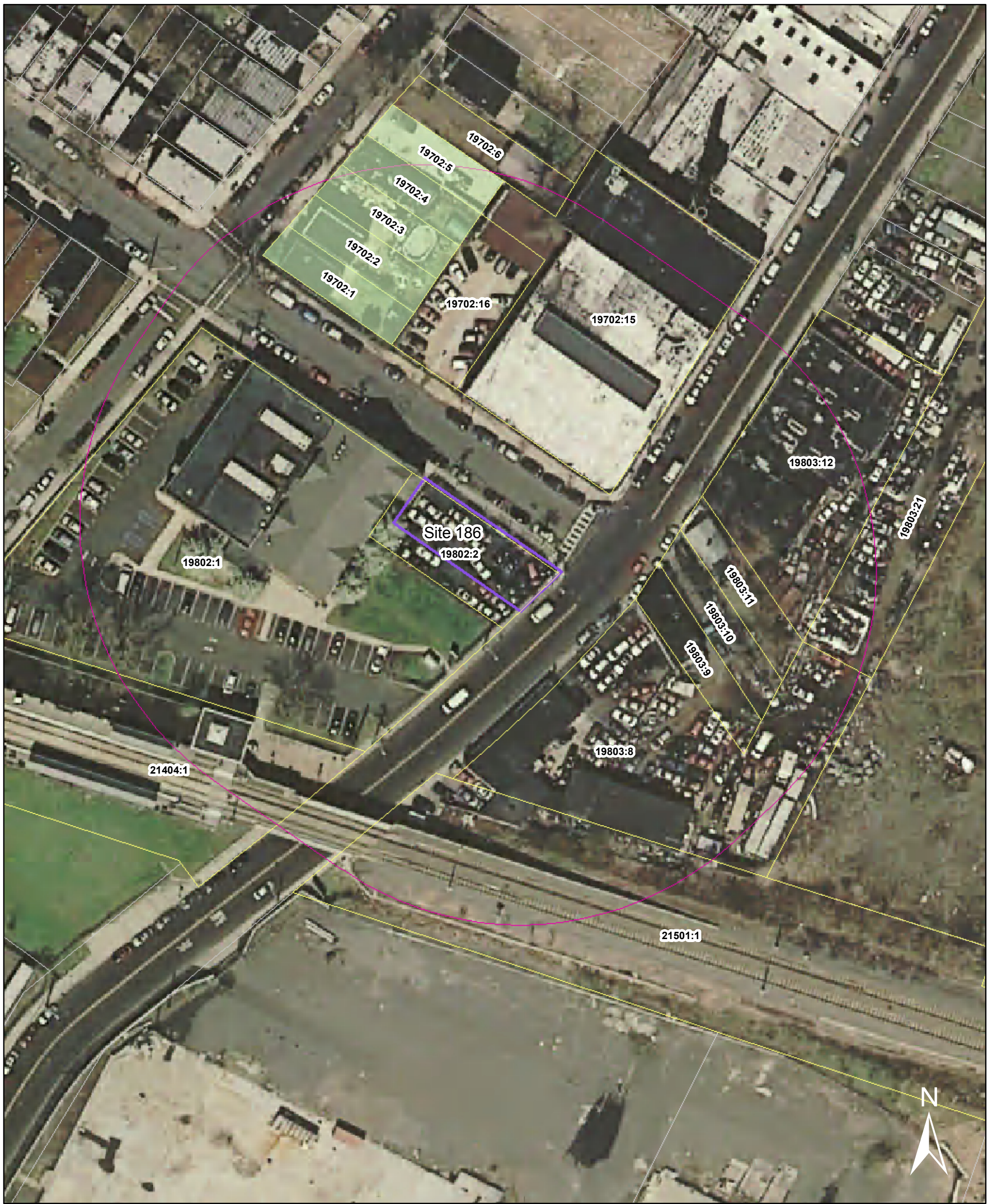
Bureau of Case Assignment & Initial Notice  
Site Remediation Program  
NJ Department of Environmental Protection  
401-05H  
PO Box 420  
Trenton, NJ 08625-0420

## **Attachment B**

Properties within 200 ft of  
Site 186

**Attachment B-1**  
**List of Properties Within 200-feet of Site 186**

PAMS_PIN	MUN	BLOCK	LOT	PROP_CLASS	PROP_LOC	OWNER	STREET	CITY_STATE	ZIP_CODE
PAMS_PIN	MUN	BLOCK	LOT	PROP_CLASS	PROP_LOC	OWNER_NAME	ST_ADDRESS	CITY_STATE	ZIP_CODE
0906_19702_3	0906	19702	3	1 Vacant Land	240 RANDOLPH AVE.	SALLEY, GLORIA	238 RANDOLPH AVE.	JERSEY CITY, N J	07304
0906_19702_15	0906	19702	15	4A Commercial	2 UNION ST.	RYMS REALTY, INC.	4706 18TH AVE.	BROOKLYN, NY	11204
0906_19702_4	0906	19702	4	1 Vacant Land	242 RANDOLPH AVE.	SALLEY, GLORIA	238 RANDOLPH AVE.	JERSEY CITY, N J	07304
0906_19702_5	0906	19702	5	1 Vacant Land	244 RANDOLPH AVE.	RANDOLPH AVENUE 15, L.L.C.	4706 18TH AVE.	BROOKLYN, NY	11204
0906_19702_6	0906	19702	6	4B Industrial	246 RANDOLPH AVENUE	BLAKELY, WM.F.CYNTHIA & DARREN	246-8 RANDOLPH AVE	JERSEY CITY, N.J.	07304
0906_19803_21	0906	19803	21	15C Exempt Public	INSIDE GARFIELD AVE.	JERSEY CITY REDEVELOPMENT AGENCY	30 MONTGOMERY ST.	JERSEY CITY, N.J.	07302
0906_19803_10	0906	19803	10	15C Exempt Public	946 GARFIELD AVE.	JERSEY CITY REDEVELOPMENT AGENCY	30 MONTGOMERY ST.	JERSEY CITY, N.J.	07302
0906_19803_11	0906	19803	11	15C Exempt Public	948 GARFIELD AVE.	JERSEY CITY REDEVELOPMENT AGENCY	30 MONTGOMERY STREET	JERSEY CITY, NJ	07302
0906_19802_2	0906	19802	2	1 Vacant Land	947 GARFIELD AVE.	HIT OR MISS, INC. % M. WINOGRAD	2184 KENNEDY BLVD.	JERSEY CITY, NJ	07305
0906_19802_1	0906	19802	1	15D Exempt Charitable	935 GARFIELD AVE.	METROPOLITAN FAMILY HEALTH NETWORK	935 GARFIELD AVE.	JERSEY CITY, NJ	07304
0906_19803_12	0906	19803	12	15C Exempt Public	960-958 GARFIELD AVE	JERSEY CITY REDEVELOPMENT AGENCY	30 MONTGOMERY ST.	JERSEY CITY, NJ	07302
0906_19803_8	0906	19803	8	15C Exempt Public	942 GARFIELD AVE.	JERSEY CITY REDEVELOPMENT AGENCY	30 MONTGOMERY ST.	JERSEY CITY, N.J.	07302
0906_19803_9	0906	19803	9	15C Exempt Public	944 GARFIELD AVE.	JERSEY CITY REDEVELOPMENT AGENCY	30 MONTGOMERY ST.	JERSEY CITY, NJ	07302
0906_19702_1	0906	19702	1	2 Residential (4 Families or less)	236 RANDOLPH AVE.	FREEMAN-SCOTT, SHUWANNA & NATHANIE	47 NUTMEG RD	ABERDEEN, NJ	07747
0906_19702_16	0906	19702	16	4B Industrial	10-12 UNION ST	10-12 UNION, LLC	4706 18TH AVE.	BROOKLYN, NY	11204
0906_19702_2	0906	19702	2	2 Residential (4 Families or less)	238 RANDOLPH AVE.	SALLEY, GLORIA M	238 RANDOLPH AVE	JERSEY CITY, N J	07304
0906_21501_1	0906	21501	1	15C Exempt Public	163 HALLADAY STREET	JERSEY CITY SEWERAGE AUTHORITY	575 STATE HIGHWAY 440	JERSEY CITY, N.J.	07305
0906_21404_1	0906	21404	1	15C Exempt Public	207 RANDOLPH AVE.	JERSEY CITY SEWERAGE AUTHORITY	555 ROUTE 440	JERSEY CITY, NJ	07305

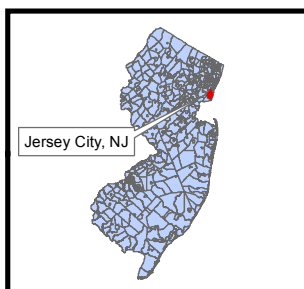


**Legend**

- PPG JCO Site Boundary
- 200-Foot Buffer
- Sensitive Populations within 200-Feet of the Site Boundary
- Parcels within 200-Foot Buffer (Block:Lot)
- Hudson County Parcels

**Notes:**

1. State Plane NAD83 Coordinates, U.S. Survey Feet;
2. New Jersey 2007 - 2008 High Resolution Orthophotography, NJ Office of Information Technology (NJGIT), Office of Geographic Information Systems (OGIS), Trenton, New Jersey, 2009;
3. Parcels of Hudson County, New Jersey State Plane NAD83, Hudson County Department of Planning, Jersey City, New Jersey, Downloaded December 12, 2013.



<b>Receptor Evaluation Report</b> <b>Sensitive Populations</b> PPG Industries Site 186, 947 Garfield Avenue Jersey City, Hudson County, New Jersey			
SCALE:	DATE:	PROJECT NUMBER:	PATH AND FILE NAME:
1:720	12/12/2013	60154801	\\PPG-INDUSTRIES - PPG\GIS\Site114_gwReceptorEval\Parcel r1.mxd

**AECOM Environment**  
 30 KNIGHTSBRIDGE ROAD, SUITE 520  
 PISCATAWAY, NJ 08854  
 PHONE: (732) 564-3200  
 FAX: (732) 369-0122  
 WEB: [HTTP://WWW.AECOM.COM](http://www.aecom.com)

FIGURE NUMBER:
B-1
SHEET NUMBER:
1 of 1

## **Attachment C**

### Results of ½-mile Radius Well Search

Table C-1  
 1/2 mile Radius Well Search Results  
 PPG Industries  
 Jersey City, Hudson County, New Jersey

Download Document	Permit Number	Well Use	Potentially Potable	Document	Date (permitted/drilled/sealed)	Physical Address	County	Municipality	Block	Lot	Location Method	Easting (X)	Northing (Y)	Distance (feet)	Depth (ft)	Capacity (gal/min)
	2600001335	Industrial	Yes	Permit	12/16/1955		Hudson	Jersey City			Prop Loc - Hard Copy	609825	683567		200	250
	2600001335	Industrial	Yes	Record	4/18/1956	GRAND STREET	Hudson	Jersey City			Prop Loc - Dig Image	614920	686324	4246	335	0
	2600049931	Industrial	Yes	Permit	2/3/1998	758 GARFIELD AVE.	Hudson	Jersey City	1487	11A,11B	Prop Loc - Hard Copy	610374	681545		300	65
	2600056260	Industrial	Yes	Permit	12/23/1999	757 OCEAN AVE.	Hudson	Jersey City	19.74	27	Prop Loc - Hard Copy	609277	685588		500	50
	2600056260	Industrial	Yes	Record	5/4/2000	757 OCEAN AVE.	Hudson	Jersey City	19.74	27	Prop Loc - Hard Copy	609277	685588		855	

Site coordinates:  
 POINT\_X POINT\_Y  
 611259 684173  
 Date of search: 12/12/2013