

## **Appendix K**

### **Contingency and Communications Plan**



Submitted to:  
PPG Industries  
Allison Park, Pennsylvania

Submitted by:  
AECOM  
Piscataway, New Jersey  
60279175.GA.RA.COS  
March 2014

# Contingency and Communications Plan – Full Scale Remediation

Garfield Avenue Group - Sites 114,132, 133, 135, 137, and 143  
Jersey City, New Jersey





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## 1.0 Facility Identification and General Information

On behalf of PPG Industries, Inc. ("PPG"), AECOM has prepared this Contingency and Communications Plan ("CCP") for the Garfield Avenue Group Sites 114, 132, 133, 135, 137, and 143 in Jersey City, New Jersey ("Site"). The CCP was prepared to provide site-specific contacts and emergency procedures to be implemented in the event of an emergency at any of the Garfield Avenue Group Sites. Emergency action planning will be implemented with the goal to ensure truck safety and reduce the potential for spreading any impacts from the Site to workers, public streets or the community.

Site 114 is a 16.6-acre property that was formerly used for the processing of chromium ore. Sites 132, 133, 135, 137, and 143 have been impacted by the former chromium processing facility through the deposition of chromite ore processing residue ("COPR") onto the Sites. Soil and groundwater at the site are impacted primarily with hexavalent chromium. PPG will be conducting a full scale Remedial Action ("RA") in several phases.

Phase 1 is the remediation of the western half of Site 114. A portion of this Phase has already been remediated through Interim Remedial Measures ("IRM") #1 implementation. The Southwest Area of Phase 1 (Phase 1A and 1B) will be remediated first. The remedial action will include removal of the 880 Garfield Avenue slab. The northern area of Phase 1 (Phase 1C), located between the northern IRM #1 boundary and the New Jersey Transit Light Rail ("Light Rail"), will be completed second. Phase 2 is the eastern half of Site 114 (Phase 2A and 2B). This portion of the Site 114 is impacted by manufactured gas plant ("MGP") waste, a portion of which (Phase 2A) is being remediated by Public Service Electric & Gas Company ("PSEG"). The remedial action will include removal of the 2 Dakota Street slab. Additionally, a large amount (over 600,000 tons) of Green-Grey Mud and other chromium impacted material will be removed as part of the remediation of Site 114.

Phase 3 encompasses the remainder of the Garfield Avenue Group Sites (Sites 132, 133, 135, 137, and 143). Additionally, portions of Carteret Avenue and Halladay Street will be remediated as part of the RA. An estimate of 300,000 tons of chromium impacted material will be removed from these areas. In conjunction with the RA work, PPG will conduct pilot studies to obtain data to support the feasibility evaluation of different remedial options including groundwater injection. The CCP has been developed to address work being performed during the RA and future pilot studies at the Site.

Although the potential for an emergency to occur is remote, this CCP also serves as an Emergency Action Plan ("EAP") in accordance with AECOM Standard Operating Procedures, *S3NA-509-PR Hazardous Waste Operations and Emergency Response Activities*, provided in the site-specific Health and Safety Plan ("HASP"), for this project should such critical situations arise. This CCP incorporates the requirements of the EAP. The EAP will be reviewed by all personnel prior to the start of field activities. A test of the EAP will be performed within the first three days of the project field operations. This test will be evaluated and documented in the project records.

Three major categories of emergencies could occur during site operations:

1. Illnesses and physical injuries (including injury-causing chemical exposure)
2. Catastrophic events (fire, explosion, earthquake, or chemical)
3. Safety equipment problems

The following sections describe information on contingency and communication measures, emergency response, vehicular emergency planning, and recordkeeping procedures.

## 2.0 Contingency and Communication Plan / Emergency Action Plan

The following are the various roles and responsibilities identified for effective execution of the project. **Table 2-1**, provides specific staff and their identified role(s) for Site personnel.

**Table 2-1 Personnel and Emergency Contact Information**

Name	Role/Affiliation	Office	Mobile	Email
<b>Environmental Emergency Reporting</b>				
Jim Blaney	Emergency Coord & Constr. Mgr/WCD	609-730-0007	609-613-2004	jblaney@wcdgroup.com
Mark Hayden	1 <sup>st</sup> Alt. EC/AECOM	978-905-2238	978-888-3168	Mark.Hayden@aecom.com
Jim Capritti	2 <sup>nd</sup> Alt. EC & CM/WCD	609-730-0007	609-751-1952	jcapritti@wcdgroup.com
Brian McGuire	PM/PPG	412-492-5512	412-760-4143	Bmcguire@ppg.com
Rich Feinberg	PM/PPG	412-492-5395	732-233-4552	Feinberg@ppg.com
Mike McCabe	Site Administrator	610-388-9625		Jcsiteadministrator@earthlink.net
Brian McPeak	SA PM/Planning Progress	732-216-6364		Bmcpeak@planningprogress.com
Dave Spader	City Consultants/ERFS	914-834-4195	914.434.8533	DSpader@erfs.com
Prabal Amin	Technical Consultant/ Weston	732-417-5857		Prabal.Amin@westonsolutions.com
Nadia Holzer	Technical Consultant/ Weston		732-406-2640	Nadia.Holzer@westonsolutions.com
Tom Cozzi	Assistant Director/NJDEP (Case Manager)	609-292-1250		Tom.Cozzi@dep.state.nj.us
David Doyle	Technical Coordinator/NJDEP	609- 292-2173		David.Doyle@dep.state.nj.us
<b>Other</b>				
EQ	Spill Response Contractor	201-436-3500	Alternate: 734-576-0413	
Clean Harbors	Alt. Spill Response Contractor	800-OIL-TANK	800-645-8265	
NJDEP	Spill Hotline	877-WARNDEP	877-927-6337	
National Response Center		800-424-8802		
Jersey City Municipal Utilities Authority (sewer and water)		201-432-1150 x0		
Passaic Valley Sewerage Commission (PVSC)		973-817-5712 (M-F 8:15-4:15)	973-817-5858	
Public Service Electric and Gas (electric and gas)		800-436-7734		
Jersey City Dept. of Fire and Emergency Services		201-547-4239		
Jersey City Police non-emergency		201-547-5477		
Emergency		911		
AECOM SH&E Reporting Hotline		800-348-5046		



## 2.1 Emergency Coordinator (“EC”)

For the purposes of the work on site, an EC and his alternate has been identified on **Table 2-1**. The duties of the EC include:

- Implement the CCP and EAP based on the identified emergency condition;
- Notify the appropriate project and Safety, Health & Environment (“SH&E”) Department personnel of the emergency;
- Verify that emergency evacuation routes and muster points are accessible;
- Conduct routine EAP drills and evaluate compliance with the EAP;
- Ensure all site workers and visitors have reviewed this plan;
- Brief all new personnel as they join the project;
- Keep multiple copies of the CCP/EAP in accessible locations throughout the organization; and
- Ensure that all emergency contacts keep a copy of the CCP/EAP at home.

An EC will be on-site or readily available 24 hours a day, 7 days a week. In the event that implementation of the CCP is necessary, the EC will have the authority to commit the resources needed to carry out the CCP.

### 2.1.1 Implementation of the CCP

Employees will immediately notify the EC upon identifying any fire, explosion or release of hazardous waste or constituents which could threaten human health or the environment. Upon notification and verification that one of these events has occurred, the EC will implement the CCP/EAP.

#### 2.1.1.1 Chain of Command

The chain of command for reporting spills, hazardous discharges and other environmental emergencies and incidents will be the following, unless otherwise directed by PPG:

1. The EC (or designated alternate) will notify PPG, then make notifications to: (1) the local emergency response center by dialing 911, (2) NJDEP Hotline by dialing 1-800-WARN-DEP (or 1-877-927-6337), and (3) the National Response Center (“NRC”) by dialing 800-424-8802, as required.
2. Notifications to Jersey City Municipal Utilities Authority and Passaic Valley Sewerage Commission (“PVSC”) shall be made if spills or discharges enter the storm and/or sewer system.

The chain of command is also depicted in **Figure 2-3**.

## 2.2 Preventative Measures, Types of Emergencies and Response Actions

### 2.2.1 Pre-Emergency Planning and Coordination with Outside Parties

Prior to initiating on-site activities, the local emergency response and fire department capabilities will be determined in the event of a large spill or discharge event of the magnitude that cannot be easily contained utilizing on-site measures and has the potential to migrate outside the Site fenceline. Additionally, a Type 4 Jersey City Fire Department Permit will be obtained for the storage of acids and combustibles on site. The

permit is required for storing acids or combustible materials in containers of 60 gallons or greater and having an aggregate amount of 660 gallons or greater on-site.

The proper authorities will be notified when work will be performed near known utilities. The numbers listed for Jersey City Municipal Utilities Authority (sewer and water) and Public Service Electric and Gas (electric and gas) in **Table 2-1** above function both as the main daytime number and 24-hour emergency number. In addition to notifying the utility, utility strikes will be communicated in the same manner as an environmental emergency as depicted in **Figure 2-3**.

The EC will coordinate this plan with other contractors or other responsible parties who are working on or adjacent to the Site.

### **2.2.2 Introductory Training and Continuing Education**

Workers who are actively involved in the cleanup operations and whose work may require them to enter the exclusion zone will complete 40-hour OSHA HAZWOPER training, as well as a yearly 8-hour HAZWOPER refresher. Site supervisors will complete an 8-hour OSHA HAZWOPER supervisor training. Specialized continuing education training will be provided to staff as the need arises (hazardous materials shipping training, asbestos and lead training, and equipment certifications).

Administrative, delivery, clerical and related support personnel who are not required to enter exclusion zones, do not enter areas where hazardous waste are present, and are not exposed to health or safety hazards related to hazardous waste operations are not subject to the training requirements of OSHA 29 CFR 1910.120.

All workers will attend the morning and afternoon tailgate meetings to be aware of changed conditions and muster locations. Visitors to the site shall be escorted by trained workers to avoid entering areas without proper training or personal protective equipment ("PPE"). Periodic drills will be performed as training requirement of this CCP.

### **2.2.3 On-Site Personal Injury or Illness**

In the event that a health related injury or illness requires beyond first aid treatment, the Site Safety Officer ("SSO") for the Contractor's employee will initiate on-site emergency activities in accordance with the Contractor's HASP (Emergency Response), including the following, as applicable:

- Contact local emergency response personnel (police, fire, emergency medical technicians ("EMTs")). The SSO or designee must remain on the phone with the 911 operator until the emergency response (police, fire department, EMTs) arrive on the scene.
- If the injured employee can be moved from the accident area, he or she will be brought back to the Contaminant Reduction Zone ("CRZ") or decontamination area where their PPE can be removed. If the person is suffering from a back or neck injury, the person will not be moved and PPE removal will not be required.
- The SSO or designee must accompany the injured person to the local hospital, if off-site treatment is required.
- The SSO must follow the notification procedures in the Contractor's HASP.

## 2.2.4 Preventative Measures for Spill and/or Discharges

Preventative measures to reduce the potential for spills and discharges on-site include the following, at a minimum:

- Placement of chemical storage areas and containers, exhumed waste materials designated for off-site disposal, waste storage pads, delivery areas, on portions of site elevated above roadways known to have standing water during significant rainfall events to the extent that it is reasonably practicable.
- Weekly inspections of hazardous all drum storage pads for the drums of hazardous waste generated from project activities are stored in AECOM construction trailer onsite. The waste manifests are stored at PPG's Site Office located at 90 Forrest Street.
- Retaining manifests for a minimum of three years with those observed for the load-outs.
- Adherence to the HASP.
- Use of appropriate containment systems.
- Knowledge of the characteristics of the various chemicals, waste materials and equipment used on site.
- To reduce the potential for potential discharges to the municipal sewer system, inlet protection will be installed at appropriate location on-site for the purpose of containing or diverting any potential releases to the system.
- All hazardous material will be stored in appropriate containers.
- Tops/lids will be placed back on containers after use.
- Containers of hazardous materials will be stored appropriately away from moving equipment.
- All hazardous commodities in use (i.e., fuels) shall be properly labeled.
- Containers shall only be lifted using equipment specifically manufactured for that purpose.
- For drums/containers, follow the procedures in *SH&E 608 - Handling Drums and Large Containers*, provided in **Appendix A** to minimize spillage.

All incidental spills due to the potential spilling or leaking of chemicals brought on-site, or improper refueling of site equipment is anticipated to be limited in quantity and capable of being contained on-site prior to reaching any nearby public travel ways, or any off-site areas (outside the Site 132 fence line). Refueling activities will be described in the Contractor's HASP under Equipment Refueling. Emergency response equipment, including but not limited to, spill kits, absorbent pads, sorbent materials, drums, shovels, sand bags, and other materials to contain small spills will be made readily available and staged in a centrally localized area of the site for easy access.

Any releases to the ground surface will be remediated in a timely fashion by on-site contractors that specialize in handling the chemicals. First aid and spill response information that varies depending upon the material spilled is included in the material safety data sheets ("MSDS") provided in the Site HASP. Larger spills may require the enlistment of a spill response contractor (see **Table 2-1** for the approved spill response contractor contact information). As a courtesy, notification of any release greater than 5 gallons will be initiated per the chain of command (**Figure 2-3**) to the NJDEP Case Manager, or his designee, within 15 minutes of the occurrence or discovery of the release, regardless of whether or not the release is

contained. Releases or spills exceeding the Reportable Quantity will be reported to the NJDEP Hotline. Additional information on spill reporting is provided in **Section 2.4.2**.

### **2.2.5 Emergency Response Equipment**

The following spill containment / response materials will be available at the site:

- At least one spill response kit, to include an appropriately sized empty container to contain spill containment waste, instruction card, disposal bag, 2 absorbent socks, 1 bag of cat litter, and extra-large gloves;
- Materials to allow for booming or diking the area to minimize the size of the spill, (e.g., sand, absorbent booms); and
- Spill absorbent materials, (i.e., SpeedyDry™) shall be available at each work site (more as needed).

#### **2.2.5.1 Personal Protective Equipment**

Available PPE, in addition to the PPE issued to operational employees, include:

- Tyvek™ outer garments
- Chemical resistant nitrile gloves
- Chemical resistant over-boots for safety shoes

#### **2.2.5.2 Fire Extinguishers**

Portable fire extinguishers, rated for class “ABC” fires are available at multiple locations on-site. Specific units (and respective locations) include:

- ABC units on all heavy equipment
- ABC units in each occupied trailer including the security trailer
- ABC units in AECOM Site vehicles

#### **2.2.5.3 Heavy Equipment and Vehicles**

The facility routinely utilizes multiple pieces of heavy equipment and vehicles (such as trucks) to support on-site operations and this equipment is available for emergency response efforts. Typical equipment used on-site includes track-hoes, bulldozers, water trucks, forklifts, excavators, etc. Although this equipment is available on-site, it is not for “emergency response” purposes, and is routinely exchanged for other similar equipment when its economic life is complete. Therefore, although this equipment is on-site, it is not listed here.

#### **2.2.5.4 Decontamination Equipment**

Decontamination of contaminated equipment will typically take place at the decontamination pads and all decontamination runoff will be collected in the wash pad holding areas. Additional equipment typically available for decontamination includes:

- High pressure cleaning units
- Water soluble cleaning solution
- Portable and fixed emergency deluge shower and eye waste stations (fixed unit in groundwater treatment building)

### 2.2.6 Power Outage

In the event of power outage, work will stop until power is restored to the air monitoring system.

### 2.2.7 Fire and/or Explosion Involving Hazardous Materials

In the event of a fire (other than incipient), explosion or a release or reaction that causes conditions that pose an immediate danger to life or health of personnel, immediate steps must be taken to notify site personnel to stop work and meet at one of the two established rally areas. There will be a primary rally area established and an alternate area should the emergency occur to close to the primary rally point. All staff will be accounted for from the morning tailgate roster. The proper emergency services will be notified. Additional information on incident reporting is described in **Section 2.4.2**.

For incipient fires, fire extinguishers are located near the doors of every trailer as well as in the AECOM site vehicles and in construction vehicles. Incidental fires in non-waste management areas or in controlled areas, which can be readily extinguished, may not be considered an incident for the purposes of this plan, if such incidents pose no threat to human health or environment.

In the event of a fire and/or explosion requiring implementation of the CCP, the following action will take place:

1. The EC will notify all facility personnel by activating the emergency alarm (three blasts of the air horn and radio contact to confirm rally location if one location is blocked due to emergency).
2. When the emergency alarm is activated, all key personnel in possession of hand radios will immediately establish voice communication with the EC. The EC will determine which facility operations might likely be impacted by emergency response activities and will instruct those operations to cease or otherwise alter their operations, as appropriate. If directed by the EC, all personnel will proceed to their designated emergency muster areas. If as directed by the EC, incoming vehicular traffic will be halted or reduced, with the exception of emergency assistance traffic, if required.
3. Injured personnel will be immediately removed to a safe location, and qualified personnel will administer appropriate first aid. Note: Employees requiring medical treatment will be transported to the appropriate medical facility by any means necessary, as determined by the extent of their injuries.
4. All movement to the emergency muster area will be via an up-wind route. An up-wind route may be established by watching any visual emissions. If movement via an up-wind route is not possible, the affected personnel will notify the EC of the situation.
5. The EC will account for all personnel, visitors and contractors.
6. The EC will begin assessment of the incident through observations for the following criteria:
  - The nature and extent of the incident;
  - Location of the incident;
  - The nature and quantities of materials involved;
  - The potential for escalation through subsequent explosions or the spread of fire to other hazardous materials;
  - The intensity of the fire or explosion;
  - The extent of released material to the air and immediate surrounding area;
  - Wind direction and relative speed;
  - The need for additional outside assistance and/or evacuation (NOTE: No firefighting will be attempted in the event there is significant risk of injury to facility personnel.

- Normally, only outbreak stage fires, which can be rapid contained and controlled, will be handled);
- The proper extinguishing medium for the fire will be established by the EC (e.g. foam, dry chemical, water, soil, etc.);
  - If the EC determines that 1) the fire and/or explosion threatens human health and the environment outside the facility boundaries; 2) additional outside assistance is necessary to bring the incident under control; 3) evacuation of locals in the area is necessary; the EC will immediately establish communication with local emergency response agencies, as appropriate. Emergency telephone numbers can be found in **Table 2-1**.
7. If the EC determines that the potential for an impending explosion is high, the EC will notify local emergency response agencies for assistance.
  8. The EC will direct all on-scene response efforts and, as appropriate and necessary, coordinate activities involving outside parties. The EC will direct the following response efforts, as appropriate and necessary:
    - Ensure all personnel not required for response efforts are evacuated to a safe area (i.e. non-essential personnel, visitors, contractors);
    - Establish necessary lines of communication;
    - Provide all necessary PPE;
    - Continually monitor the affected areas through observation for sign of escalation, release, or impending explosions due to gas or vapor build-up;
    - Monitor piping systems and tanks if those areas are involved or threatened;
    - Limit or restrict the use of motor vehicles in the affected area to avoid ignition or re-ignition of flammable vapors and/or gases;
    - If practical, remove or isolate any waste containers or shipments that could become involved if the situation escalates or if the waste container or shipments would be detrimental to the present situation;
    - Collect and/or contain, to the extent practical, any released waste; and/or
    - Construct soil dikes and/or barrier walls to serve as firebreaks and as temporary segregation measures, to prevent the spread of fire to other waste containing areas, and to control run-off discharge from the facility. These structures will be constructed utilizing heavy equipment as long as the operation of such equipment will not increase the potential for ignition or re-ignition of any flammable vapors.
  9. Upon recovery from the emergency, the EC will ensure that all contaminated emergency equipment will be decontaminated. Decontamination procedures will typically be conducted on the decontamination pad to ensure that cleaning residues are contained and collected for appropriate management.
  10. When the incident has been brought under full control, and no longer presents a threat to human health or the environment, the EC will initiate appropriate remedial clean-up operations.

Refer to **Section 2.4.2** for release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility.

Vehicle travel routes will be used as evacuation routes. Employees within exclusion zones will do their best to follow decontamination procedures while traveling through the CRZ. If the danger is imminent then the employee is to move to an area that is safe to remove PPE.

## 2.2.8 Releases or Spill of Hazardous Materials

A “release or spill” is defined as a release of a reportable quantity of a hazardous substance under Section 103 of the Comprehensive Emergency Response, Clean-up, and Liability Act (CERCLA) [40 CFR 302] or Section 311 of the Clean Water Act (CWA) [40 CFR 117], or as defined in Appendix F-7 (“Reportable Quantities”) by DOT. For the purpose of this Section, a release or spill of materials (liquid or solid) outside of its container or tank not fully contained by an impervious containment structure will trigger the CCP to be carried out immediately. For materials inside a containment structure, a spill or release will be considered to have occurred if the material poses a threat to other materials within the same containment unit.

In the event that a Reportable Quantity (“RQ”) release or spill occurs at the facility, the EC will take the following actions:

1. Determine internal notification requirements and ensure such notifications are made;
2. Determine which facility operations might be impacted by emergency response activities and instruct those operations to cease or alter their operations, as necessary;
3. Assess the incident through observation, for the following criteria:
  - The nature and extent of the incident;
  - The location of the incident;
  - The nature and quantities of the materials involved (review of waste profiles, manifest, computer records, disposal records, truck placards, etc.);
  - Wind direction and relative speed;
  - The potential for short and long-term effects, with regard to human health and the environment;
  - The potential for fire and/ or explosion; and
  - The need for additional outside assistance and /or evacuation.
4. If the EC determines that 1) the incident threatens human health and the environment outside the facility boundaries; 2) additional outside assistance is necessary to bring the incident under control; 3) evacuation of locals in the area is necessary; the EC will immediately establish communication with local emergency response agencies, as appropriate. The EC will also contact the NJDEP spill hotline, the National Response Center (“NRC”), and the primary spill response Contractor (EQ), as necessary. Emergency telephone numbers can be found in **Table 2-1**.
5. The EC will direct all on-scene response efforts and, as appropriate and necessary, coordinate activities involving outside parties. The EC will direct the following response efforts, as appropriate and necessary:
  - If the surrounding materials could be reactive with the released waste, the EC will ensure they are removed to a safe location;
  - If the incident involves leaking containers, the EC will ensure that the containers are appropriately managed; and
  - If the incident involves a release or discharge to the combined sewer system, the appropriate authorities (Jersey City Municipal Utilities Authority (“JCMUA”)/ PVSC) are also notified.
6. Upon recovery from the emergency, the EC will ensure that all contaminated emergency equipment will be decontaminated. Decontamination procedures will typically be conducted on the decontamination pad to ensure that cleaning residues are contained and collected for appropriate management.
7. When the incident has been brought under full control, and no longer presents a threat to human health or the environment, the EC will initiate appropriate remedial clean-up operations.

### 2.2.9 Remedial Clean-Up Operations

When the emergency has been brought under control and the threat to human life or the environment has been minimized, the EC will immediately initiate the following remedial actions, as appropriate, in order to restore the facility to operation readiness:

1. The entire area involved in the incident will be cordoned off and only those operations directly related to the remedial clean-up will be allowed in that area. No waste disposal, storage or treatment will be conducted in the cordoned-off area until clean-up operations are completed and permission to resume normal facility operations in the area is granted by the EC.
2. The EC or designee will monitor the area until remedial operations are started by the emergency remediation contractor ("ERC"). The ERC will monitoring through observation and direct reading instruments, such as a combustible gas/oxygen meter, if necessary. Monitoring will be conducted for the presence of gas or vapor build-up, which could cause fire and/or explosion, if necessary.
3. All recovered waste, contaminated soil or other solid material resulting from the incident will be disposed of at a regulated facility. Water generated from any operation may be sent to the Ground Water Treatment Plant ("GWTP") for treatment and discharge.
4. The EC or designee will ensure that no waste that may be incompatible with the released or recovered material is treated, stored, or disposed of in the affected area, until the remedial clean-up procedures are completed.
5. When all spilled, released or fire-fighting liquids have been removed, the area will be sampled and analyzed to ensure that the foreign material has been removed and no further contamination exists, as appropriate. The sampling will be as follows:
  - A minimum of two samples will be taken. This number will vary with the size and extent of the spill.
  - A sample will be collected from the outside the periphery of the spill (background) and from the center of the spill (confirmation of clean-up).
  - Depth of sample will be determined by EC based on visual observation.
  - Specific analysis will depend on material involved.
6. All necessary reports will be submitted to the applicable agencies, informing them of the incident and all response measures taken to re-establish normal facility operations.
7. When remedial clean-up measures have been completed, the EC will direct the ERC to decontaminate emergency equipment listed in the CCP before resuming normal operations. Other decontamination operations include:
  - Disposable PPE will be appropriately managed.
  - Respiratory protection equipment will be inspected and decontaminated, if necessary. Any required maintenance will be performed before reuse.
  - Heavy equipment (e.g. dozers, front-end loaders, etc.) will be transported to the decontamination pad for decontamination, if necessary.
  - Incidental equipment, such as fire extinguishers, shovels, pumps, and reusable PPE, will be removed to the decontamination pad and thoroughly decontaminated, if necessary.
8. Liquids and other materials resulting from decontamination operations will be appropriately managed in accordance with applicable regulations.
9. Fire extinguishers will be inspected or replaced before being placed back in service.

### 2.2.10 Waste Hauler Emergencies

The procedures described below provide general information on preparing for and responding to emergencies and can also be found in the Traffic Safety and Control Plan ("TSCP"). Contact information for personnel is provided above in **Table 2-1**.



### *Vehicular Accidents*

In the event of a traffic accident, the first priority is the protection of personal safety and protection of the accident victim(s) (life safety). If the accident is a “fender bender” (no one is hurt and minimal damage occurred), the truck will be moved from the travel lane and police will be contacted. Relevant information will be exchanged with the other driver(s) involved (make, model and years of vehicles, names, license numbers, license plate numbers, insurance information, etc.), and the truck driver will record the time of the accident, location, names of witnesses, etc. The driver will then contact his dispatcher. The Construction Manager (“CM”) will also be informed.

For accidents involving injury or significant property damage, emergency services will be contacted immediately (911). Depending on the circumstances, vehicles may or may not be moved from the travel lane. The driver will cooperate with the police investigation. The driver will contact his dispatcher as soon as feasible after the accident. The trucking company or the driver will then inform the CM.

### *Hazardous Materials Releases*

Hazardous materials may be released as a result of a vehicular accident or mechanical failure. The driver will move the vehicle from the travel lane if possible, and stop the vehicle. The driver will call local emergency services (911) and contact his dispatcher, who will contact the hauling company’s emergency response contractor. The trucking company or the driver will then inform the CM, who will continue the chain of command and inform the PM. If it can be performed safely, the driver will place reflective triangles or flares to assist in traffic control until the police arrive.

### *Breakdown*

The truck will be moved from the travel lane, if possible. Depending on the location of the breakdown, and potential risks to public safety, Jersey City Police Department non-emergency services may be contacted. The driver will then contact his dispatcher to arrange for repair or towing. The CM will also be informed.

## **2.3 Evacuation Plan**

All emergencies require prompt and deliberate action. The EC will be responsible for determining if a facility evacuation is required. In the event that this determination is made, the following actions will be taken:

1. The emergency horns will be activated (three times). This is the primary signal for immediate facility evacuation. In addition, radio communications will be established and the verbal order for evacuation will be given.
2. All facility personnel will immediately proceed to the primary evacuation route (See **Figure 2-2**)
3. All evacuations will be coordinated by the EC in such a manner as to minimize potential exposure (i.e. up wind egress).
4. All facility visitors and contractors will exit the facility immediately, under direction of the EC.
5. In the event that the primary designated route is not possible (due to blockage by releases or fire), the EC will authorize the sacrifice of facility fencing by use of heavy equipment or motor vehicles to create alternate routes. All personnel evacuating the facility in this manner will immediately proceed to the evacuation muster area when clear of danger or to an alternate muster area designated by the EC.
6. When the evacuation is complete, the EC will immediately account for all facility personnel, visitors and contractors.

7. No attempt will be made to find personnel unaccounted for, if it involves the endangering of lives of others by re-entry into the facility.
8. Re-entry in the facility will only be made after the EC gives clearance.

### 2.3.1 On-Site Evacuation and Rally Points

Depending upon the nature of the emergency, evacuation routes and rally points may vary, as indicated in **Table 2-2**.

**Table 2-2 Emergency Planning Evacuation and Rally Points**

Emergency	Evacuation Route	Rally Point
Chemical Spill	Upwind 50 feet	Security trailer and/or alternate rally point (determined during pre-construction briefing)
Fire/Explosion	Upwind 500 feet	Security trailer and/or Construction trailer
Tornado	North of Site 114	90 Forrest Street office space
Lightning	30/30 Rule	Construction trailers
<b>Additional Information</b>		
Communication Procedures	Cellular phones or two-way radios	
CPR/First Aid Trained Personnel	911	
Site Specific Spill Response Procedures	Refer to Spill Response Procedures	

## 2.4 Reporting

### 2.4.1 Safety Accident/Incident Reporting

All accidents and incidents that occur on-site during any field activity will be promptly reported to the SSO and the immediate supervisor in accordance Contractor's HASP.

### 2.4.2 Environmental Spill/Release Reporting

All environmental spills or releases of hazardous materials, (e.g., fuels, solvents, etc.), whether in excess of the Reportable Quantity or not, will be reported according to the sequence identified in the site-specific Spill Reporting Card. In determining whether a spill or release must be reported to a regulatory agency, the Emergency Coordinator will assess the quantity of the spill or release and evaluate the reporting criteria

against the state-specific reporting requirements, the applicable regulatory permit, and/or client-specific reporting procedures. In order to support the EC and expedite the decision to report to a state regulatory agency, a site-specific Spill Reporting Card will be developed and provided to site workers. If reporting to a state or federal regulatory agency is required, AECOM typically has 15 minutes from the time of the spill/release to officially report it. **Figure 2-1** Action Level Communication Protocol from AMP is provided in the CCP as a reference. **Figure 2-3** In the Event of an Environmental Emergency provide the information that will be included on the Spill Reporting Card.

Notification to PVSC is required as soon as possible, but no later than 2 hours of becoming aware of it, for any slug discharges to the public sewer system. Additionally, a written report detailing the occurrence shall to be filed with PVSC within 5 working days (details of the requirements are provided in the Slug Discharge and Control Plan Questionnaire).

In the event of any action, occurrence, or incident during performance of the work that causes or threatens a release of waste material or hazardous substances from the site that constitutes an emergency situation or may present an immediate threat to public health or the environment, appropriate actions will be taken to minimize, mitigate and/or contain the release or threat as discussed above and in the HASP.

Whenever there is a release, fire, or explosion, the emergency coordinator must immediately identify the character, exact source, amount, and areal extent of any released materials. Within 15 days after an incident, a written report on the incident must be submitted to the Regional Administrator. The report must include:

1. Name, address, and telephone number of the owner or operator;
2. Name, address, and telephone number of the facility;
3. Date, time, and type of incident (e.g., fire, explosion);
4. Name and quantity of material(s) involved;
5. The extent of injuries, if any;
6. An assessment of actual or potential hazards to human health or the environment, where this is applicable; and
7. Estimated quantity and disposition of recovered material that resulted from the incident.

## 3.0 Recordkeeping

Safety inspection forms, employee and operator certifications will be kept on file at the Site for the duration of remedial activities. A Contractor's *Incident Investigation Report* form for incident/accident investigations to evaluate root cause and recommend future preventative measures will be used.

Safety inspections include daily inspection of chemical storage and stockpile area, weekly inventory of personal protective equipment, and monthly fire extinguisher checks. Out of date or expired equipment will be taken out of service.

### 3.1 Plan Distribution/Coordination Agreements

The following facilities and agencies are in possession of copies of the CCP. These agencies were invited to participate in an orientation intended to familiarize response personnel with the facility layout, properties of the wastes handled at the facility and associated hazards. Each agency was asked to review and comment on the plan and establish actions that they will take in response to an emergency.

1. Jersey City Fire Department
2. Jersey City Emergency Management Office
3. Jersey City Police Department South District
4. Jersey City Medical Center
5. Concentra Medical Center/Urgent Care

A copy of the coordination agreement letter provided to each agency is included as **Appendix B**.

### 3.2 Reporting

As soon as possible after implementation of the CCP, the EC or designee, will record the time, date, and details of the incident. A call to the NJDEP hotline will be made to orally report any incident requiring implementation of the CCP. The NJDEP and NRC will be notified of any incident involving a release to the environment of hazardous waste, pollutant or contaminant in a quantity equal to or greater than the RQ specified by 40 CFR Part 302.

The oral reports describe above will be provided as soon as possible after becoming aware of the release, but no later than 24 hours following the incident. However, the EC must notify the NJDEP that the facility is in compliance with the following items before operations are resumed in the affected area(s) of the facility:

1. No waste that may be incompatible with the released material is treated, stored or disposed of until cleanup procedures are completed; and
2. All emergency equipment listed in the CCP is cleaned and fit for its intended use before operations are resumed. In this case, the EC may substitute equivalent emergency equipment in the affected area while repairing, replacing, or recharging used emergency equipment.

A written report providing details on any incident requiring implementation of the CCP will be submitted to the Regional Administrator within 15 days (refer to **Section 2.4.2**).

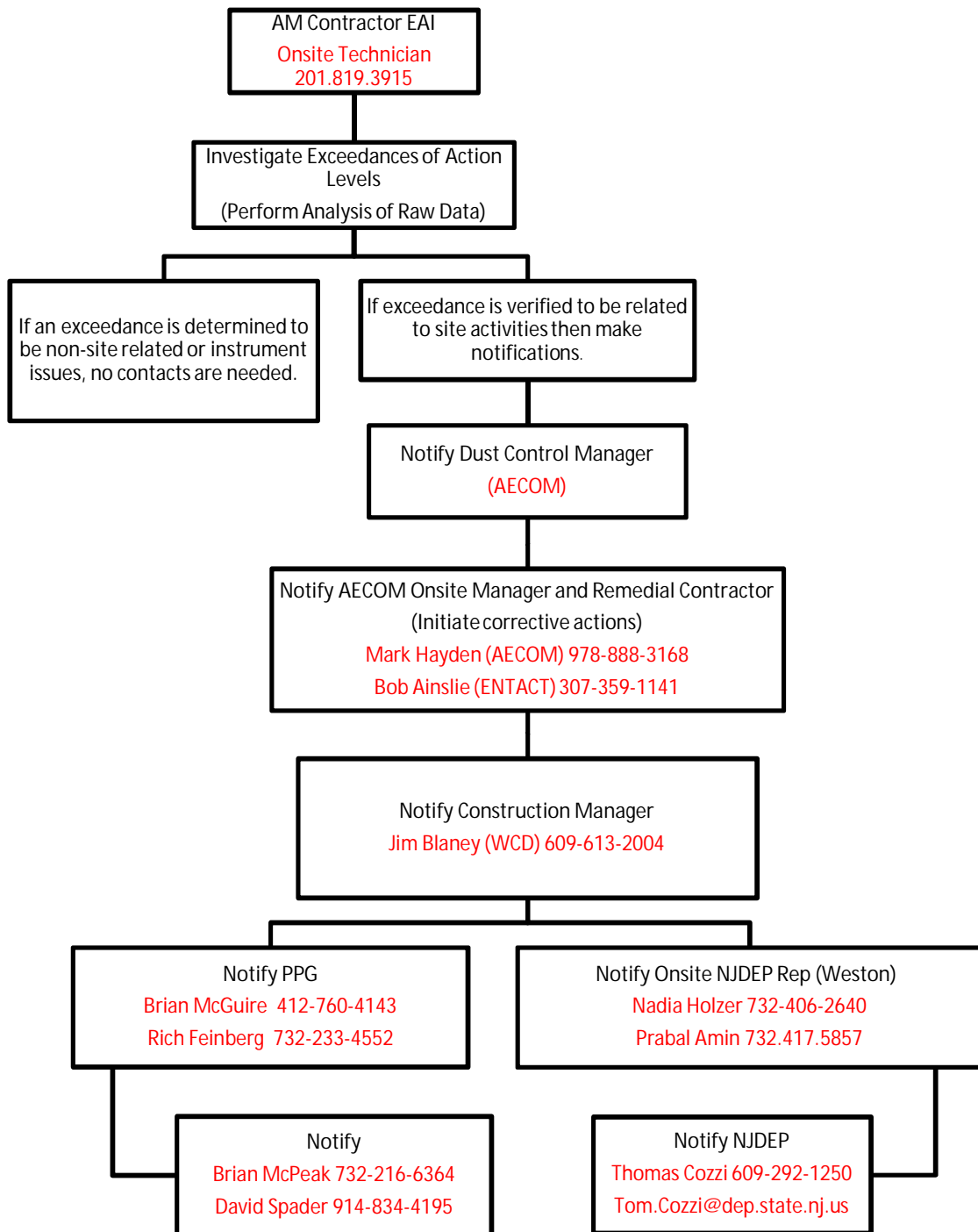
### 3.3 Plan Modification

The EC, or designee, may find it necessary to adapt the CCP to a specific emergency situation in order to adequately protect human health or the environment. In addition, the CCP will be reviewed and amended, if necessary, whenever:

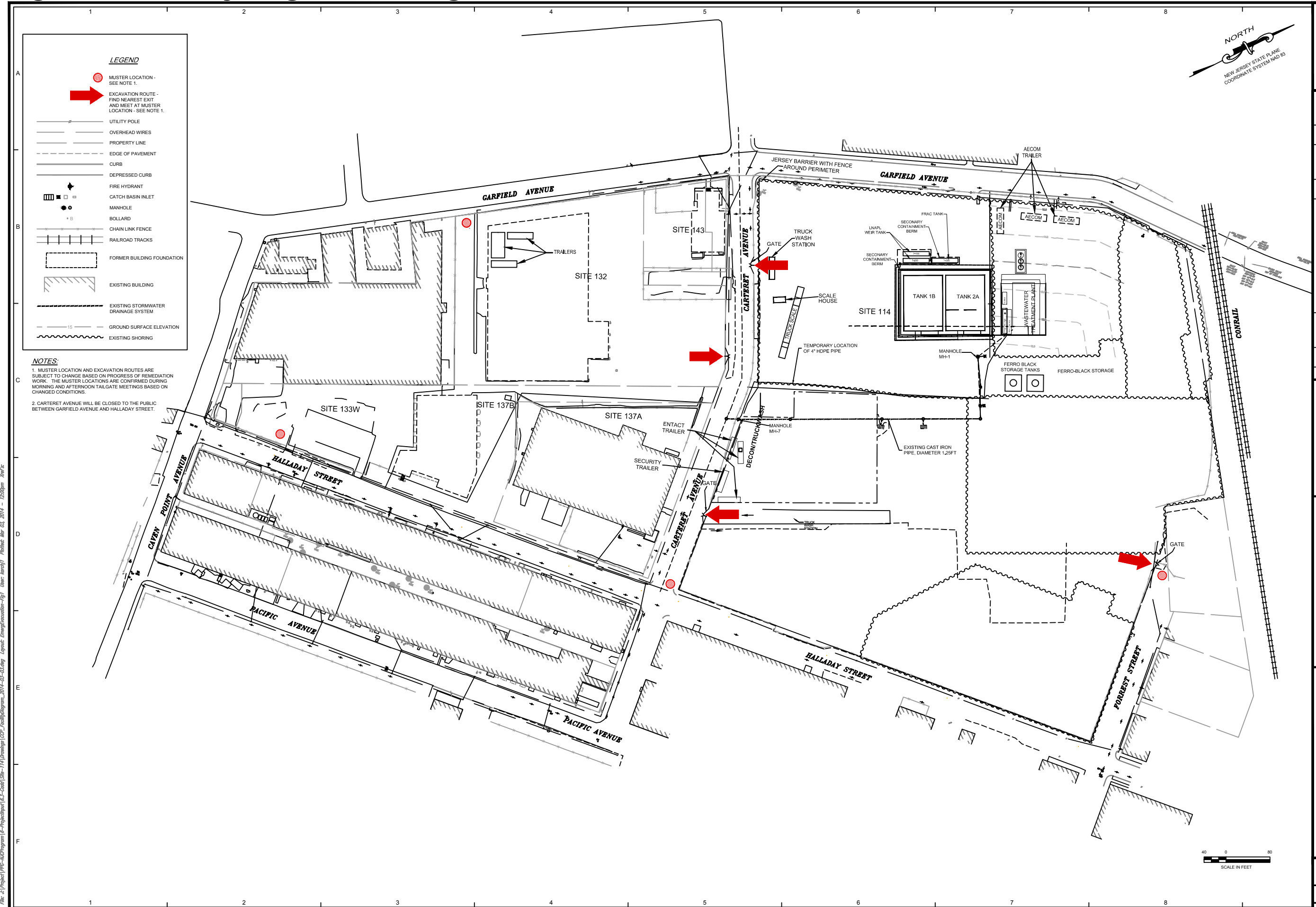
1. The plan fails in an emergency;
2. The facility changes – in its design, construction, operation, maintenance, or other circumstances – in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency;
3. The list of ECs changes; or
4. The list of emergency equipment changes.

Copies of the modified plan will be distributed as required.

**Figure 2-1 Action Level Communication Protocol from AMP**

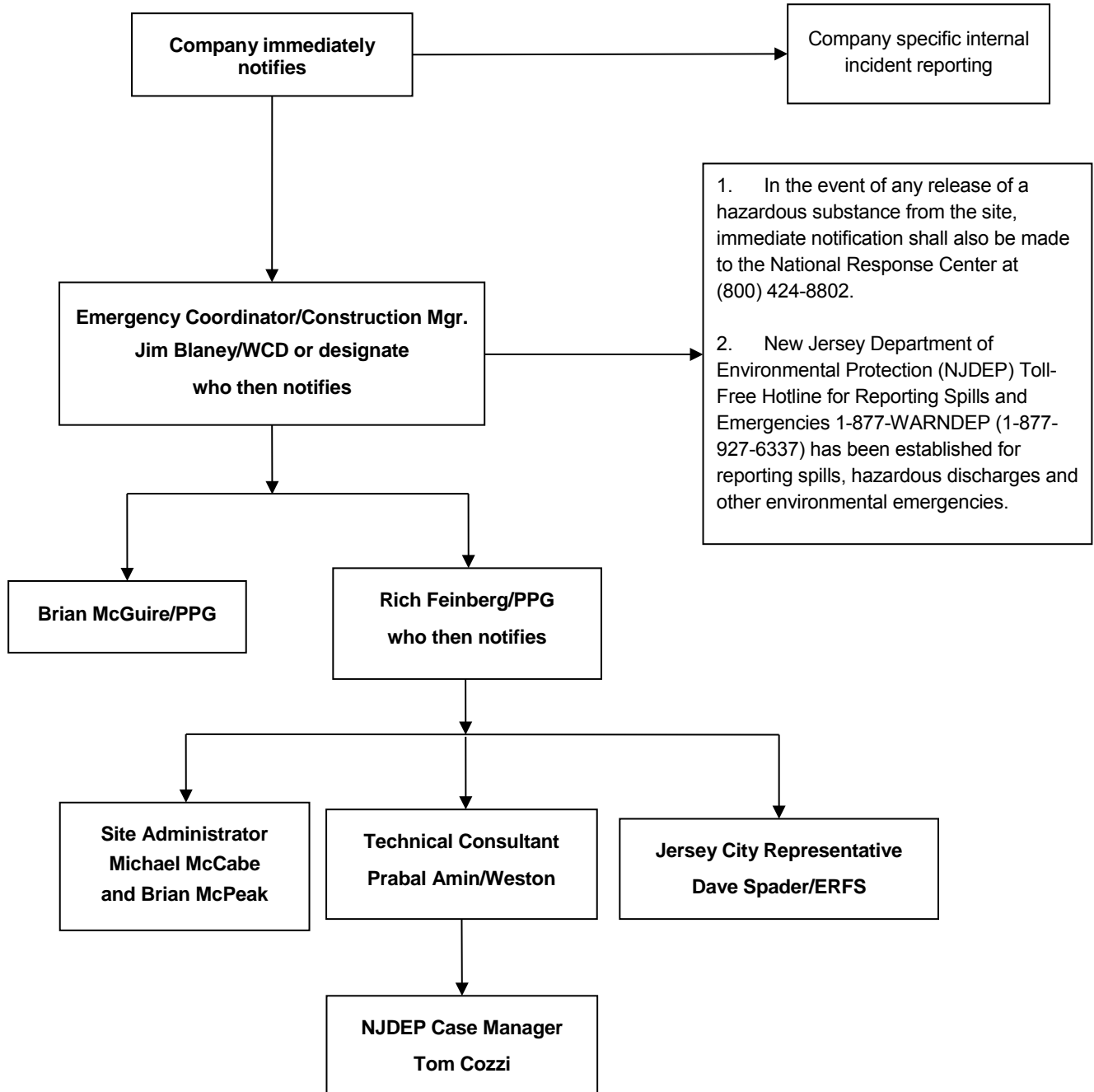


# Figure 2-2 Facility Diagram Showing Evacuation Routes



		PPG INDUSTRIES PHASE 2B-2 & 2B-4 AND 3B SITE 114, 133W AND 137 JERSEY CITY, HUDSON COUNTY, NJ	PROJ. NO.: 60279175 DATE: 3/3/2014
CCP FACILITY DIAGRAM EMERGENCY EVACUATION		PHASE 2B-2 & 2B-4 AND 3B	DRAWING NUMBER: 1 SHEET NUMBER: 1
HUE N. QUAN, P.E. NJ PROFESSIONAL ENGINEER 2462488650		NO. DRWN/DATE REVISION CHKD/DATE APP'D/DATE	SCALE IN FEET 0 40 80

**Figure 2-3 In the Event of an Environmental Emergency  
PPG Industries – Garfield Avenue Sites, Jersey City, NJ  
Full Scale Soil Remedial Activities**





## **Appendix A**

### **AECOM SH&E SOP 608 - Handling Drums and Large Containers**



SH&E No.: 608

Rev: Original

Date: October 5, 2009

## Handling Drums and Large Containers

### AECOM Safety, Health and Environmental Procedure

## 1.0 PURPOSE

Provides the AECOM requirements to minimize injuries, exposures, environmental contamination, and work disruptions resulting from accidents from improper handling of drums and other containers.

## 2.0 SCOPE

This procedure applies to all AECOM U.S.-based employees and operations.

## 3.0 DEFINITIONS

**Drums** – Hollow, cylindrical containers (capacity between 10-and-55-gallons) used for the storage or containerization of bulk quantities of work materials or wastes.

**Other Large Containers** – Containers other than drums that are used to hold bulk quantities of work materials or wastes. These include tanks and roll-off bins, and are generally much larger than drums.

**Tanks** – Hollow containers of capacity greater than 55 gallons used for the storage or containerization of bulk liquids.

**Roll-off Bins** – Rectangular-shaped containers capable of being transported using a specially designed vehicle on which the roll-off bin can be mounted/dismounted. Roll-off bins can be placed at a site, used to containerize bulk materials, and re-mounted on the vehicle for off-site transportation. Some roll-off bins are equipped with wheels, and can be moved manually.

## 4.0 ROLES AND RESPONSIBILITIES

### 4.1 PROJECT MANAGERS/FIELD TASK MANAGERS/SUPERVISORS

Each Project Manager/Supervisor must ensure that all aspects of this procedure are followed and adhered to on all AECOM sites and locations.

### 4.2 EMPLOYEES

- Employees shall follow this procedure.

## 5.0 PROCEDURE

These procedures apply to drums and containers of 10-gallon capacity or larger. The requirements of this procedure are not applicable to the handling of containers used to store pressurized gases or to hazardous waste drum handling.

### 5.1 GENERAL

The storage, labeling and handling of drums and other containers will conform to the following handling applicable SH&E laws and regulations, and in accordance with the applicable project-specific safety plan.

## 5.2 DRUMS

In addition to the above requirements, handling of all drums will be accomplished in accordance with the following:

- Only drums meeting U.S. Department of Transportation (DOT) specifications shall be used. Drums shall be inspected for rust, corrosion, warping, and other damage. Damaged drums shall not be used
- Drums must be stored in a manner that meets USEPA, state and local requirements
- Drums containing any materials will be covered with a tight-fitting lid when not in use
- At the conclusion of each working shift, all drums will be placed in the designated storage area appropriate to their contents. Each such area will be properly marked and secured
- Drums containing hazardous or flammable materials will be electrically grounded to prevent the buildup of static charge. As required, containers will be bonded to ensure that no potential charge difference exists between containers that might come into contact and cause sparking
- Manual lifting, carrying, or moving of drums will not be permitted. A drum-handling cart or similar apparatus will be used for moving drums from collection points to the designated storage area

## 5.3 OTHER CONTAINERS

- Each container shall be inspected for rust, corrosion, warping, and other damage prior to use. Damaged containers shall not be used
- Containers larger than 55-gallons and/or 800 pounds will not be moved using any type of manual method, including non-powered mechanical devices. All handling will be accomplished using powered mechanical equipment designed specifically for that purpose
- As applicable, any container holding material shall be covered with a tight-fitting lid when not in use
- Containers of hazardous or flammable materials will be electrically grounded to prevent the buildup of static charge. As required, containers will be bonded to ensure that no potential charge difference exists between containers that might come into contact and cause sparking

## 5.4 DRUM HANDLING PROCESS

Any movement of a drum weighing in excess of 50 pounds (or any drum of unknown weight) must be accomplished using a drum cart or other suitable mechanical means. To place a drum onto a moving device the following procedures should be used. NOTE: 1 gallons of water weighs 8.34 pounds. A 55-gallon drum half full of water would weigh 229 pounds.

### 5.4.1 Moving an upright drum

- Stand close to the drum with feet apart. One foot at the front and the other behind
- Keep knees slightly flexed
- Put your hands firmly against upper rim of the drum
- Keep arms straight with the elbows "locked"
- Rock the drum gently to get the feel of its contents before you move it
- Push the top of the drum away by extending the back leg and shifting your body weight onto your front leg
- Stop tilting the drum at the balance point. Use back leg as a counter balance
- Place the proper drum moving device under the drum before moving

### 5.4.2 Raising a drum laid on its side

- Make sure that the drum is empty before raising it
- Stand at the end of the drum

- Place one foot forward at the side of the drum, the other behind
- Bend your hips and knees
- Keep the back straight
- Grasp the rim about 6 inches from the ground while keeping your elbows inside your thighs
- Stand up by thrusting off with the back leg and continuing in an upward and forward direction.
- Bring the back leg forward as if you are walking. Keep close to the drum
- Stop at the balance point to change hand grip
- Set the drum on its base by moving the back leg forward. Use your body weight as a counter balance

**6.0 REFERENCE MATERIAL**

SH&E SOP 102 – *Environmental Compliance Program*

SH&E SOP 607 – *Manual Lifting*

SH&E SOP 709 – *Drum, Tank, and Large Container Sampling*

**7.0 ATTACHMENTS**

None

**8.0 REVISION HISTORY**

Revision	Date	Change
Original	October 5, 2009	N/A
Revision 1		

## **Appendix B**

### **Copy of the Coordination Agreement Letters**



AECOM  
30 Knightsbridge Road, Suite 520  
Piscataway, NJ 08854

732.564.3600 tel  
732.369.0122 fax

March 6, 2014

Chief Michael Borrelli  
Office of Emergency Management and Homeland Security (OEM)  
465 Marin Boulevard  
Jersey City, NJ 07302

**RE: Contingency and Communications Plan/Emergency Action Plan  
Garfield Avenue Group  
Jersey City, Hudson County, New Jersey**

Dear Chief Borelli,

On behalf of PPG, we would like to extend an invitation to your organization to a tour and orientation to be held on April 2, 2014 (time to be determined) at 90 Forrest Street near the Garfield Avenue Group remediation project. Our site has changed dramatically in the last year and as your organization has in the past (and we hope will continue in the future) agreed to assist in cases of emergency situations. We believe it would benefit all of us to get together.

As you are aware, a large soil remediation project is taking place in Jersey City. The U.S. Environmental Protection Agency ("USEPA") Resource Conservation and Recovery Act ("RCRA") regulations pertaining to hazardous waste disposal requires PPG to familiarize local emergency response personnel with our site operations and obtain verification from you that your organization will respond to any requests for emergency assistance.

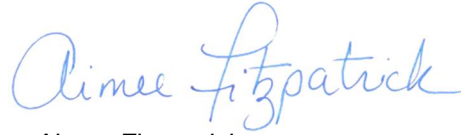
To acknowledge that you will provide such service, please have a representative of your agency date and sign the appropriate spaces below. To attend the tour/orientation session, please check the box labeled tour and advise us of the number attending. We look forward to your agency's participation in this orientation session, dealing with the facility layout, potential hazards and special situations which could be encountered during an emergency response. A copy of the Contingency and Communications Plan will be given at the tour. If you cannot attend a copy will be sent to your for review.

Please return a copy of this letter and or contact me at 732-564-3631 so that we may finalize plans for the tour or if you have any questions. Your RSVP is required by March 24, 2014.

Yours sincerely,



Hue Quan, P.E.  
Project Engineer



Aimee Fitzpatrick  
Project Manager

- cc: B. McGuire, PPG (electronic only)
- M. Terril, PPG (electronic only)
- K. Prins, PPG (electronic only)
- R. Feinberg, PPG (electronic only)
- S. Mikaelian, AECOM (electronic only)

.....

Title \_\_\_\_\_ will respond to any PPG request for emergency assistance.

Date: \_\_\_\_\_ Signed \_\_\_\_\_

Will attend – tour/orientation session. Number of people attending \_\_\_\_\_

Contact number/email to provide information for the tour: \_\_\_\_\_



AECOM  
30 Knightsbridge Road, Suite 520  
Piscataway, NJ 08854

732.564.3600 tel  
732.369.0122 fax

March 6, 2014

Mathew Barrett  
Jersey City Fire Department  
Fire Prevention Bureau  
465 Marin Boulevard  
Jersey City, NJ 07302  
(201) 547-4373

**RE: Contingency and Communications Plan/Emergency Action Plan  
Garfield Avenue Group  
Jersey City, Hudson County, New Jersey**

Dear Mr. Barrett,

On behalf of PPG, we would like to extend an invitation to your organization to a tour and orientation to be held on April 2, 2014 (time to be determined) at 90 Forrest Street near the Garfield Avenue Group remediation project. Our site has changed dramatically in the last year and as your organization has in the past (and we hope will continue in the future) agreed to assist in cases of emergency situations. We believe it would benefit all of us to get together.

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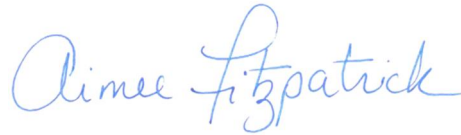


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Yours sincerely,



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Project Engineer



Aimee Fitzpatrick  
Project Manager

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Title \_\_\_\_\_ will respond to any PPG request for emergency assistance.

Date: \_\_\_\_\_ Signed \_\_\_\_\_

Will attend – tour/orientation session. Number of people attending \_\_\_\_\_

Contact number/email to provide information for the tour: \_\_\_\_\_



AECOM  
30 Knightsbridge Road, Suite 520  
Piscataway, NJ 08854

732.564.3600 tel  
732.369.0122 fax

March 6, 2014

Jersey City Police Department South District  
Police Officer Ranelli  
191 Bergen Avenue  
Jersey City, NJ 07305  
(201) 547-5456

**RE: Contingency and Communications Plan/Emergency Action Plan  
Garfield Avenue Group  
Jersey City, Hudson County, New Jersey**

Dear Officer Ranelli,

On behalf of PPG, we would like to extend an invitation to your organization to a tour and orientation to be held on April 2, 2014 (time to be determined) at 90 Forrest Street near the Garfield Avenue Group remediation project. Our site has changed dramatically in the last year and as your organization has in the past (and we hope will continue in the future) agreed to assist in cases of emergency situations. We believe it would benefit all of us to get together.

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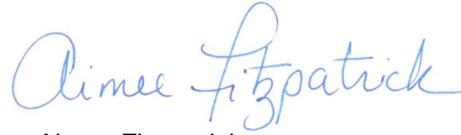
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Yours sincerely,



Hue Quan, P.E.  
Project Engineer



Aimee Fitzpatrick  
Project Manager

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- R. Feinberg, PPG (electronic only)
- S. Mikaelian, AECOM (electronic only)

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Date: \_\_\_\_\_ Signed \_\_\_\_\_

Will attend – tour/orientation session. Number of people attending \_\_\_\_\_

Contact number/email to provide information for the tour: \_\_\_\_\_



AECOM  
30 Knightsbridge Road, Suite 520  
Piscataway, NJ 08854

732.564.3600 tel  
732.369.0122 fax

March 6, 2014

Matt Berkowitz  
Center Operations Director  
Concentra Urgent Care  
574 Summit Avenue, 4<sup>th</sup> Floor  
Jersey City, NJ 07306  
(201) 656-7678

**RE: Contingency and Communications Plan/Emergency Action Plan  
Garfield Avenue Group  
Jersey City, Hudson County, New Jersey**

Dear Mr. Berkowitz,

On behalf of PPG, we would like to extend an invitation to your organization to a tour and orientation to be held on April 2, 2014 (time to be determined) at 90 Forrest Street near the Garfield Avenue Group remediation project. Our site has changed dramatically in the last year and as your organization has in the past (and we hope will continue in the future) assisted in cases of emergency situations. We believe it would benefit all of us to get together.

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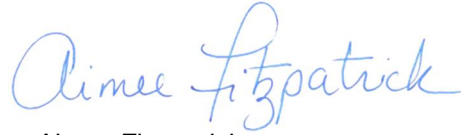
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Project Engineer



Aimee Fitzpatrick  
Project Manager

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Will attend – tour/orientation session. Number of people attending \_\_\_\_\_

Contact number/email to provide information for the tour: \_\_\_\_\_



AECOM  
30 Knightsbridge Road, Suite 520  
Piscataway, NJ 08854

732.564.3600 tel  
732.369.0122 fax

March 6, 2014

EMS Headquarters  
Jersey City Medical Center  
415 Montgomery Street  
Jersey City, NJ 07302  
(201) 716-5770

**RE: Contingency and Communications Plan/Emergency Action Plan  
Garfield Avenue Group  
Jersey City, Hudson County, New Jersey**

To Whom It May Concern,

On behalf of PPG, we would like to extend an invitation to your organization to a tour and orientation to be held on April 2, 2014 (time to be determined) at 90 Forrest Street near the Garfield Avenue Group remediation project. Our site has changed dramatically in the last year and as your organization has in the past (and we hope will continue in the future) assisted in cases of emergency situations. We believe it would benefit all of us to get together.

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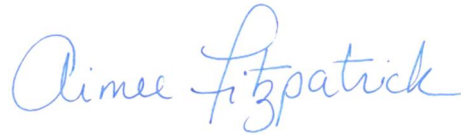
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Project Engineer



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Project Manager

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