



NATIONAL TRANSPORTATION SAFETY BOARD - **Public Hearing**

Conrail Derailment in Paulsboro, NJ with Vinyl Chloride Release

GROUP	3
EXHIBIT	
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Agency / Organization

National Transportation Safety Board

Title

**NTSB Timeline of Events  
and Communications**

## TIMELINE OF EVENTS AND COMMUNICATIONS ON NOVEMBER 30, 2012

TIME	EVENT	SOURCE
7:01	Initial 911 call to the Gloucester County Emergency Response (Communications Center) reporting that a train had derailed and the Paulsboro train bridge had collapsed. Caller (wife of the Paulsboro Assistant Fire Chief) reports that "...smoke's everywhere." The Assistant Fire Chief tells the emergency operator, "It's [the train] is spewing out all kind of gas...Tank car leaking something into the water."	<i>Gloucester County 911 Call</i>
7:01	Initial call [received] for train into the water.	<i>Paulsboro Police CAD</i>
7:02	Paulsboro Assistant Fire Chief (1702) recorded on location.	<i>Gloucester County 911 Call</i>
7:02	Call dispatched to Paulsboro Units.	<i>Paulsboro Police CAD</i>
7:03	Address identified as ■■■ E. Jefferson Street.	<i>Paulsboro Police CAD</i>
7:03	Tank Car Leaking.	<i>Paulsboro Police CAD</i>
7:03	Police Officer 218 reports that three officers on duty - Officers 218, 210, and 206.	<i>Zone 3 Police Radio Channel</i>
7:04	Second call [received] reporting train accident.	<i>Paulsboro Police CAD</i>
7:05	First police officer on location - verified derailment.	<i>Paulsboro Police CAD</i>
7:05	Police Officer 218 reports on location.	<i>Zone 3 Police Radio Channel</i>
7:05	Toner Alert Paulsboro FD.	<i>Fire Dept/EMS CAD</i>
7:05	Fire Station Dispatched.	<i>Fire Dept/EMS CAD</i>
7:05	Assistant Fire Chief (1702) reports, "We have at least four rail cars -- they are tank cars -- in the creek at this time. The bridge has collapsed. We have three box cars on their side on -- actually on my property." He reported, "Rail cars or tank cars have been pierced and have leaked out all of their contents into the creek. The creek is full of vapors from these cars."	<i>Channel 3 Fire Ops</i>
7:06	Police Officer 218 reported, "Sarge. You need to respond out here. It's a major emergency, bridge collapsed and major hazards, potentially life threatening."	<i>Zone 3 Police Radio Channel</i>
7:06	Officer reporting release of unknown substance.	<i>Paulsboro Police CAD</i>
7:06	Police Officer 218 reports, "I have an odor out here they are not familiar with. This odor is hazardous. Hazard released." Dispatcher asks, "How close is it to the schools?" He responds that it is about 1/2 mile or 3/4 mile away.	<i>Zone 3 Police Radio Channel</i>
7:06	Assistant Fire Chief tells county dispatch, "I need a representative from Conrail at my residence...ASAP." He adds, "I need a wind direction if you got one." Dispatch responds, "We're getting a wind direction for you."	<i>Channel 3 Fire Ops</i>
7:06	FD Deputy Chief on air, Chief responding	<i>Fire Dept/EMS CAD</i>
7:07	County dispatch asks Sergeant 206 if he can get DOT placards. Sergeant 206 reports on location.	<i>Zone 3 Police Radio Channel</i>
7:07	County dispatch reports to Paulsboro Fire Chief (1701): "1702 reports four tank cars in the water leaking, three box cars off the track and the bridge has collapsed."	<i>Channel 3 Fire Ops</i>

<b>TIME</b>	<b>EVENT</b>	<b>SOURCE</b>
7:07	Paulsboro Fire Chief (1701) requests that Conrail be contacted. Dispatch reports that they are contacting them now.	<i>Channel 3 Fire Ops</i>
7:07	Paulsboro Fire Chief (1701) requests, "[Gloucester County] CBRNE to start off here with the consist." He requests the assistance of Paulsboro Refining Company HAZMAT team as well.	<i>Channel 3 Fire Ops</i>
7:08	FD Deputy Chief on location, Chief (I/C) responding	<i>Fire Dept/EMS CAD</i>
7:08	Officer 811 radios officer 218 to tell him that he has a gentleman stating that he believes propane has released. He smelled propane and saw a propane fog while coming over the bridge. Officer 811 states, "I've got a gentleman that used to work at propane plant. He just came over the bridge from West Deptford and he stop me on my car (indiscernible) and told me he believes that smell is propane. He believes he sees the fog or something, that he believes it's running into the water under the bridge, just for your information."	<i>Zone 3 Police Radio Channel</i>
7:08	Assistant Fire Chief reports, "I would say there's at least 4 cars into the creek. They've been all been broken right open and I'm trying to get a read on exactly what's in them."	<i>Channel 3 Fire Ops</i>
7:09	County dispatch reports to the Fire Chief and the Assistant Fire Chief that the national weather service is reporting "light and calm surface winds. They're vertical, west to southwest."	<i>Channel 3 Fire Ops</i>
7:09	The Assistant Fire Chief (1702) reports to county dispatch that he can see with his binoculars placard 1086.	<i>Fire Dept/EMS CAD</i>
7:09	The Assistant Fire Chief (1702) states, "I got a placard number that I can visually see through binoculars, 1086."	<i>Channel 3 Fire Ops</i>
7:09	1730 states, "Yeah, I can confirm that. I'm out on the bridge on (indiscernible) Street. There's a heavy cloud over top of this water."	<i>Zone 3 Police Radio Channel</i>
7:10	Conrail has been notified.	<i>Channel 3 Fire Ops</i>
7:11	Per police, at least 1 propane tank leaking	<i>Fire Dept/EMS CAD</i>
7:11	Winds light/calm. Surface winds vertical w/sw	<i>Fire Dept/EMS CAD</i>
7:11	Officer 217 reports that the assistant mayor and (inaudible) are at Commerce Street.	<i>Zone 3 Police Radio Channel</i>
7:11	Sergeant 206 reports, "There's a lot of smoke coming from the creek area going toward Delaware [Street]..." Sergeant 206 states, "Car 8 may be something to be worried about."	<i>Zone 3 Police Radio Channel</i>
7:12	Officer 218 reports, "The identifiers on the cars are placard 1987 which is ethanol alcohol and 1086 which is vinyl chloride."	<i>Zone 3 Police Radio Channel</i>
7:13	Valero contacted for hazmat response	<i>Fire Dept/EMS CAD</i>
7:14	Contact Schools-close schools and guardian angels.	<i>Zone 3 Police Radio Channel</i>
7:14	1702 called 1701 asking if he is at his residence yet. 1701 responds "en route now."	<i>Channel 3 Fire Ops</i>
7:15	Officer 218 reports, "There's smoke that's all around is liquefied petroleum gas."	<i>Zone 3 Police Radio Channel</i>
7:16	Sergeant 206 reports that the staging area is Paulsboro Fire Hall.	<i>Zone 3 Police Radio Channel</i>
7:16	Lumber and plastic in box cars.	<i>Fire Dept/EMS CAD</i>

<b>TIME</b>	<b>EVENT</b>	<b>SOURCE</b>
7:17	Guardian Angels contacted to close schools.	<i>Zone 3 Police Radio Channel</i>
7:18	Toner Alert Paulsboro FD.	<i>Fire Dept/EMS CAD</i>
7:17	County dispatch reports to the Fire Chief (1701) that Pat Robinson from Valero is enroute.	<i>Channel 3 Fire Ops</i>
7:17	The Fire Chief (1701) is recorded on location. He states that New Jersey Department of Transportation (NJDOT) needs to be contacted and "whoever's next. I guess the state?"	<i>Channel 3 Fire Ops</i>
7:18	Pat Robertson from Valero enroute	<i>Fire Dept/EMS CAD</i>
7:18	The Fire Chief (1701) states, "Bring the rescue. Bring the engine and bring some warm stuff. It's mighty chilly out here. And my estimate, Mr. Emergency Management Coordinator, we have, 1,2,3,4, or 7 cars possibly overturned in the water."	<i>Channel 3 Fire Ops</i>
7:19	County dispatch reports apparatus responding to site.	<i>Channel 3 Fire Ops</i>
7:19	Contact NJ DOT, FD Chief on location	<i>Fire Dept/EMS CAD</i>
7:19	The Fire Chief (1701) reports to county dispatch: "Command Post will be set up at [REDACTED] West--East Jefferson Street. We have an open area field maybe 50 yards from the initial car overturned with the way it's punctured." He instructed to have the apparatus come down East Jefferson Street.	<i>Channel 3 Fire Ops</i>
7:19	County dispatch repeats the command post location and apparatus movement instructions.	<i>Channel 3 Fire Ops</i>
7:20	Command Post at [REDACTED] E. Jefferson	<i>Fire Dept./EMS CAD</i>
7:22	Toner Alert Gibbstown FD	<i>Fire Dept./EMS CAD</i>
7:22	County CBRNE notified	<i>Fire Dept/EMS CAD</i>
7:23	1721 to 1701: "You want us to come onto 1702's property?"	<i>Channel 3 Fire Ops</i>
7:23	The Fire Chief (1701) responds in the affirmative.	<i>Channel 3 Fire Ops</i>
7:25	The Fire Chief (1701) requests that county dispatch contact the U.S. Coast Guard and other notifications as needed. The Fire Chief (1701) states, "We're getting some information and feed back now that a couple of these tanks have bad stuff in them. We just can't get the placards."	<i>Channel 3 Fire Ops</i>
7:26	County dispatch asks Sergeant 206 if the evacuation is going to be mandatory or a lock down on residents. Sergeant 206 responds, "Mandatory right now for at least three blocks."	<i>Zone 3 Police Radio Channel</i>
7:26	Paulsboro High School notified to shut down	<i>Paulsboro Police CAD</i>
7:27	County dispatch asks Sergeant 206, "Where are we housing them?" Sergeant 206 replies, "Paulsboro Fire Hall on Thompson Avenue and Swedesboro."	<i>Zone 3 Police Radio Channel</i>
7:27	Contact Coast Guard - tidal water, also info other materials may be in cars	<i>Fire Dept/EMS CAD</i>
7:27	Attempted to notify Billingsport School, their school message stated school was closed	<i>Paulsboro Police CAD</i>

<b>TIME</b>	<b>EVENT</b>	<b>SOURCE</b>
7:28	Request to close down bridge on District 4. Only emergency personnel.	<i>Zone 3 Police Radio Channel</i>
7:28	Paulsboro Refining Company HAZMAT team reported on location	<i>Zone 3 Police Radio Channel</i>
7:29	Sergeant 205 reports, "Be advised, this fog is just a reaction to the spill. It's not that toxic. If anyone (indiscernible) just tell them to stay in the house with the windows closed, is the best bet for now."	<i>Zone 3 Police Radio Channel</i>
7:29	Officer 217 reports that the procedure now is to tell people to stay in their homes with the windows and doors shut.	<i>Zone 3 Police Radio Channel</i>
7:29	The Fire Chief (1701) reports to county dispatch, "Speaking with the conductor, it looks like we've got five cars with vinyl chloride. Can you give me a quick synopsis on how we handle the vinyl chloride?" He repeats his message, "We have the train conductor here with his sheets and he's confirmed that the cars are vinyl chloride." County dispatch states, "5 cars vinyl chloride - stand by."	<i>Channel 3 Fire Ops</i>
7:29	County dispatch reports, "Vinyl chloride says you need to handle with care, can cause reproductive damage. Contact can severely irritate and burn eyes and cause eye damage, irritate and burn the skin. Contact with liquid can cause frostbite; irritate nose, throat and lungs, causing coughing, wheezing, and other shortness of breath. Also cause headache, nausea, vomiting, dizziness, fatigue, weakness, confusion. Also can cause you to pass out, damage to liver and nervous systems and lungs. Highly flammable reactive chemical and is dangerous -- a dangerous fire and explosion hazard." Fire Chief asks, "Do we have the reactivity in water?" Dispatch states, "Do you have a fax available anywhere we can fax this to you?"	<i>Channel 3 Fire Ops</i>
7:30	The Fire Chief (1701) responds, "There's no fax right now. Can they scan and email (indiscernible)?" The Fire Chief states, "I have Paulsboro Refining Company on location now." County dispatch says, "we have 6 pages, we're checking into it."	<i>Channel 3 Fire Ops</i>
7:30	Attempted to notify Loudenslager School, their message stated school was closed	<i>Paulsboro Police CAD</i>
7:30	Sergeant 205 reports to Officer 218, "The fog we have is a non-toxic at this time. It might be a little hard breathing, but try to keep everybody in their house. Conrail's also out here. They're going to do an inspection of the cars that didn't derail as far as we know. The chlorine cars are 27 back. They're the most dangerous. They're going to inspect them and try to get the out of here as soon as possible."	<i>Zone 3 Police Radio Channel</i>
7:31	The Fire Chief (1701) requests county dispatch to notify district 6 because the cloud is heading into that district.	<i>Channel 3 Fire Ops</i>
7:32	Paulsboro Refinery hazmat team on-scene	<i>Fire Dept/EMS CAD</i>
7:33	Sergeant 206 reports to county dispatch that the vapor is non-toxic and people should shelter in place.	<i>Zone 3 Police Radio Channel</i>
7:35	Now reporting 5 cars in the water	<i>Fire Dept/EMS CAD</i>
7:37	County dispatch to Mantua Creek Command, "Your command post is still at [REDACTED] E. Jefferson, correct?" Mantua Creek Command replies, "That's affirmative."	<i>Channel 3 Fire Ops</i>
7:38	County dispatch reports water reaction information to the incident commander. He acknowledges receipt.	<i>Channel 3 Fire Ops</i>
7:38	Staging area at Paulsboro Fire Hall	<i>Paulsboro Police CAD</i>

<b>TIME</b>	<b>EVENT</b>	<b>SOURCE</b>
7:38	Paulsboro Refining Company's Oil Response Team activated for an emergency.	<i>Paulsboro Refining Company RSAN ERT</i>
7:39	Billingsport School notified to shut down	<i>Paulsboro Police CAD</i>
7:40	NJ ROIC message: reporting that Gloucester County HazMat unit is responding to Paulsboro train derailment. Initial information that several tanker cars containing unidentified chemicals have derailed into Mantua Creek. No request for additional assets at this time.	<i>NJDEP 0001</i>
7:40	The Assistant Fire Chief (1702) reports to the Fire Chief (1701), "We got two railroad workers on the bridge at this time confirming what's in the other cars. I'll let you know." The Fire Chief acknowledges the message.	<i>Channel 3 Fire Ops</i>
7:40	Loudenslager School notified to shut down	<i>Paulsboro Police CAD</i>
7:41	County dispatch asks the Fire Chief, "Trying to find out from you if the Paulsboro Marine Terminal would be a safe location for the BLS units for the people."	<i>Channel 3 Fire Ops</i>
7:41	The Fire Chief states that EMS units should be staged at his fire station (primary staging), the secondary staging should be Paulsboro Plaza, the immediate staging should be at his location (the command center) at this time.	<i>Channel 3 Fire Ops</i>
7:41	1072 enroute to fire academy with 4 hazmat techs	<i>Fire Dept/EMS CAD</i>
7:41	PD Chief and Captain notified and responding	<i>Paulsboro Police CAD</i>
7:42	County dispatch informs the Fire Chief that there are 18 patients at Paulsboro Marine Terminal. Attempting to know if it is a safe zone for BLS units to go. The Fire chief replies, "Negative - get them out of there."	<i>Channel 3 Fire Ops</i>
7:42	Notifying businesses on Broad Street and Delaware Avenue	<i>Paulsboro Police CAD</i>
7:44	County dispatch reports to the Fire Chief that US Coast Guard is responding.	<i>Channel 3 Fire Ops</i>
7:44	Request that Conrail be contacted for shipping papers	<i>Fire Dept/EMS CAD</i>
7:44	Notified Ace Pallet Co	<i>Paulsboro Police CAD</i>
7:45	The Fire Chief (1701) reports to county dispatch, "Contact Conrail and tell them we need the consist... shipping papers"	<i>Channel 3 Fire Ops</i>
7:46	Deptford NJ units are on scene	<i>Paulsboro Police CAD</i>
7:46	Unit 306 reports that they want to come and take a better look.	<i>Channel 3 Fire Ops</i>
7:47	The Fire Chief requests county dispatch to contact Alan Richter of Conrail to request he come to the location.	<i>Channel 3 Fire Ops</i>
7:49	CBRNE 1 responding to Fire Academy.	<i>Channel 55 Fire Ops</i>
7:49	Alan Richter of Conrail HAZMAT contacted.	<i>Fire Dept/EMS CAD</i>
7:48	EM6 requests county dispatch to contact Solvay, Moonstar, Gloucester County utilities - in the wind direction.	<i>Channel 3 Fire Ops</i>

<b>TIME</b>	<b>EVENT</b>	<b>SOURCE</b>
7:50	Notify Solvay GU Utilities and Moonstar	<i>Fire Dept/EMS CAD</i>
7:50	NJ State DOT notified to shut down Rt. 44 at the black bridge.	<i>Paulsboro Police CAD</i>
7:51	EM6 reported "on location"	<i>Channel 3 Fire Ops</i>
7:53	Per PD sheltering in place	<i>Fire Dept/EMS CAD</i>
7:52	Anonymous on the radio states, "Where's my HAZMAT guy?"	<i>Channel 3 Fire Ops</i>
7:52	An anonymous person responds, "I am out here at the command post"	<i>Channel 3 Fire Ops</i>
7:55	Conrail faxing way bills	<i>Fire Dept/EMS CAD</i>
8:00	Captain Marino (202) reports to county dispatch that Command Post will be the Fire Hall.	<i>Zone 3 Police Radio Channel</i>
8:00	County dispatch reports Conrail faxing way bills.	<i>Channel 3 Fire Ops</i>
8:01	EPA Region 2 Situation Unit message to Region 2 Emergency Response List: Area is considered USCG response jurisdiction, however the evacuation zone includes EPA response areas. Total of 7 cars derailed with 4 of them impacting waters of Mantua Creek. At least 1 has been breached and efforts are underway by Conrail to secure the car and scene. Reports of locals experiencing adverse health effects (nausea and irritation of eyes, nose, and throat), have sent 18 people to area hospitals. Media outlets show dense vapor cloud in the area. EPA personnel, along with USCG and NJDEP are enroute.	<i>NJDEP 0017</i>
8:03	Sergeant 205 reports that he is at the forward Command Post with Fire Chief Giampola, Conrail, and Homeland Security.	<i>Zone 3 Police Radio Channel</i>
8:03	Alan Richter of Conrail provides contact information	<i>Fire Dept/EMS CAD</i>
8:04	Call to Sergeant 205 that "We're down here by the bridge. This cloud is getting much bigger and coming towards us. Do we need to be concerned about this?" Reply, "(indiscernible) it's not hazardous. If anything, it may cause a little irritation to your eyes and nose. If you stay in your cars with the windows up, it'll be a little better for you."	<i>Zone 3 Police Radio Channel</i>
8:06	Contact Miller Environmental in Paulsboro. Have representative to command post ref booms	<i>Fire Dept/EMS CAD</i>
8:13	Hospital capacities - UMH: 30; CCMC: available; COOPR 5; KMHW: 10	<i>Fire Dept/EMS CAD</i>
8:14	DECON 10 enroute to GC Fire Academy w/4	<i>Fire Dept/EMS CAD</i>
8:15	NJ ROIC Message: ONJ State Police Emergency Response Bureau - South personnel will be deployed to this event. There are no evacuations at this time. Local residents are being advised to remain indoors. Approximately 7 train cars derailed, 3 of which contain vinyl chloride, which is leaking. No requests for additional assets at this time.	<i>NJDEP 0002</i>
8:16	Miller Environmental notified, responding to site	<i>Fire Dept/EMS CAD</i>
8:20	County dispatch requests Command Post phone number because U.S. Coast Guard wants to contact the incident commander.	<i>Channel 3 Fire Ops</i>

TIME	EVENT	SOURCE
8:22	Officer reports to Sergeant 205 "...Moved from commerce down to Delaware due to the cloud..."	<i>Zone 3 Police Radio Channel</i>
8:24	EPA Region 2 Situation Unit message to Region 2 Emergency Response List: At approximately 7:45 the REOC received notification of a rail bridge collapse in Paulsboro over Mantua Creek. 5 rail cars have fallen into the creek, with one known tank holding vinyl chloride compromised. Residents located within a half-mile radius are being evacuated. EPA has deployed emergency resources to the area, including OSCs and ERT air monitoring support. EPA will meet with NJDEP and USCG responders that are currently en-route.	<i>NJDEP 0009</i>
8:28	Command Post at St. James Church at Commerce and Jefferson Street	<i>Fire Dept/EMS CAD</i>
8:28	10201 enroute to support decon with/2	<i>Fire Dept/EMS CAD</i>
8:33	Paulsboro Refining Company HAZMAT team arrive on location (corner of Jefferson and Commerce Street) , cannot zero equipment, obtain high level alarms, inform Incident Command of high levels. Levels recorded were 631 ppm, 694 ppm, and 760 ppm of volatile organic compounds (VOC).	<i>Paulsboro Refining Company Mutual Aid Summary</i>
8:34	Greg Godish of New Jersey State Police Office of Emergency Management on location.	<i>Officer Richards Interview and Notes</i>
8:39	The Assistant Fire Chief (1702) reports to the Fire Chief, "Just advise everything has lifted and if you need to get a better visual, we got a lot better visual of everything now." The Fire Chief replies, "Received. I'll be down there (indiscernible)."	<i>Channel 3 Fire Ops</i>
8:39	ERT page going out	<i>Paulsboro Police CAD</i>
8:40	Paulsboro Refining Company HAZMAT team leaves incident and goes West (to Delaware and Billings Street) to zero instruments.	<i>Paulsboro Refining Company Mutual Aid Summary</i>
8:42	Delaware Valley Early Warning System reported a water quality event from collapse of rail bridge over Mantua Creek with several rail cars in creek. At least one tank car holding 1086 vinyl chloride has been compromised.	<i>NJDEP 0003</i>
8:44	Paulsboro Refining Company HAZMAT Team - Shortly after zeroing equipment, obtain readings >100 ppm near Heritages. Readings were 193 ppm at Delaware and Billings Rd.	<i>Paulsboro Refining Company Mutual Aid Summary</i>
8:45	An EPA-contracted Removal Support Team (RST) conducted air monitoring with MultiRAE gas detectors in the Paulsboro area.	<i>NJDEP 0998</i>
8:46	Someone states, "If I understand correctly, you're on the move?" The Fire Chief says, "Standby on that. The readings themselves are changing down here. We may not be moving."	<i>Channel 3 Fire Ops</i>
8:47	County dispatch reports to the Fire Chief, "Sir, where are you moving your command post to? The last one I have is the St. James Church?" The Fire Chief replies, "We're staying at St. James Church for now. Secondary, secondary command post will be 711 North Olive Street, Borough Hall."	<i>Channel 3 Fire Ops</i>
8:47	Officer 217 reports that representatives from the U.S. Coast Guard are at the Fire Hall. She inquires if they should be sent down by the water.	<i>Zone 3 Police Radio Channel</i>



TIME	EVENT	SOURCE
8:48	Department of Homeland Security Current Situation Report: As many as 7 CSX freight cars derailed and overturned after a rail bridge crossing Mantua Creek collapsed in Paulsboro. CSX reported 1 tank car leaking unknown amount of vinyl chloride. Onlookers reported seeing vapor cloud rise from the scene. USCG and Gloucester County Emergency Response, including HazMat, are on scene and ordered residents to shelter in place. A half-mile radius evacuation zone was also issued for local residents. Paulsboro High School has been on lock down since 7:15. 18 residents report possible effects from the spill and have been placed in a staging area for decontamination.	<i>NJDEP 0081</i>
8:50	CBRNE to county dispatch have supervisor repeat message.."County EMS is refusing to go into the hot zone to treat the patients ...until they have been deconed. I have life support 100 enroute to survey these patients. " EMS is staged at the fire academy. I have decon 10 rerouted to your location.	<i>Channel 3 Fire Ops</i>
8:51	Officer 217 reports that she has someone from the Environmental Protection Agency (EPA) at the Fire Hall.	<i>Zone 3 Police Radio Channel</i>
8:55	Paulsboro Refining Company HAZMAT team (Incident Monitoring) moves Northwest out of high readings zone [from Delaware and Roosevelt up to Delaware in front of Paulsboro High School].	<i>Paulsboro Refining Company Mutual Aid Summary</i>
8:59	Sean Cianciulli email to Matt Brown NJ DEP regarding developing hazmat situation. "Train derailment has caused chemical spill in Mantua Creek. Trenton Dispatch called to send our officers out, but I'm not sending anyone until the trained professionals have reported the area to be safe. Individuals on scene (TV news coverage) aren't in hazmat suits."	<i>NJDEP 0011</i>
9:00	Message from NJ Regional Operations Intelligence Center to NJ OHSP, NJDEP, and DHS: Neil Ferrone of Conrail reported Conrail is on scene, train has chlorine but those cars are intact. There is a spill into Mantua Creek that is vinyl chloride, which is a flammable gas that is NOT toxic by inhalation.	<i>NJDEP 0004</i>
9:02	The Assistant Fire Chief (1702) to OEM ... "Are you back at the fire house or are you in the vicinity of the command post?" He states, "Report down here to the Captain and the Chief." This is followed by an acknowledgement, "Affirmative."	<i>Channel 3 Fire Ops</i>
9:04	The Fire Chief requests that Airco/US industries be notified. There is a pipeline running through area.	<i>Channel 3 Fire Ops</i>
9:07	Airco/US Industries being notified ref pipeline in area of derailment	<i>Fire Dept/EMS CAD</i>
9:08	Request D21 to Ames plot. Contact command when on location	<i>Fire Dept/EMS CAD</i>
9:08	U.S. Coast Guard at Command Post.	<i>Officer Richards Interview and Notes</i>
9:08	Paulsboro Police Chief Wachter arrived.	<i>Officer Richards Interview and Notes</i>
9:10	Representative from the New Jersey Department of Environmental Protection (NJDEP) on location.	<i>Officer Richards Interview and Notes</i>

TIME	EVENT	SOURCE
9:11	David Macinnes NJ DOT email regarding information obtained from Gloucester County OEM. Rail bridge has collapsed, 8-10 cars derailed, 4-5 cars in Mantua Creek, 4-5 cars on land, 5 cars leaking Stabilized Vinyl Chloride UN 1086, shelter in place. Command post located at St. James Church, corner of Commerce and Jefferson St. in Paulsboro.	<i>NJDEP 0006</i>
9:12	Alert for All EMS units to switch to channel 13.	<i>Channel 3 Fire Ops</i>
9:12	Frank Csulak, NOAA, forwarded email to NJDEP originating from EPA Region 2 RRC Situation Unit at 08:24.	<i>NJDEP 0009</i>
9:13	County dispatch advises that FBI agents responding to scene.	<i>Zone 3 Police Radio Channel</i>
9:14	Toner Alert Gibbstown FD	<i>Fire Dept/EMS CAD</i>
9:15	Matt Brown, NJDEP email response to 8:59 a.m. email from Sean Cianciulli directing: "have someone go to command post only if it is upwind."	<i>NJDEP 0011</i>
9:16	Inquiry to county dispatch about location of Command Post. Dispatch reports that it is at Fire Hall.	<i>Zone 3 Police Radio Channel</i>
9:19	NJ ROIC is reporting that NJSP Hazardous Materials Response Unit personnel will be deployed to this event.	<i>NJDEP 0012</i>
9:20	Captain Marion reports that any resident that would like to return to their residence can do so, but they should shelter in place. If they do not feel comfortable returning, they can continue to stay at the Fire Hall.	<i>Zone 3 Police Radio Channel</i>
9:23	PD Captain advised residents can return to their property and shelter in place. If they don't feel comfortable they can continue to the fire house. Red Cross will be on location	<i>Paulsboro Police CAD</i>
9:24	County dispatch reports to the Fire Chief that representatives from DuPont are at the Ames parking lot. County dispatch asks if they should move to Command Post. The Fire Chief responds in the affirmative.	<i>Channel 3 Fire Ops</i>
9:25	Train was separated at Paradise Road	<i>Paulsboro Police CAD</i>
9:31	Radio transmission states, "Poly Vinyl is on location ... they have a couple of meters that can meter the chemical and they also the MSDS sheets." They will be coming up with 2 techs. "Confirm forward command post is still Commerce and Jefferson. Correct?" The Fire Chief states, "That is affirmative."	<i>Channel 3 Fire Ops</i>
9:33	Oxy Vinyls on-scene with 2 meters. Deployed to forward command post.	<i>Fire Dept/EMS CAD</i>
9:40	Meeting at St. James Church with all representatives.	<i>Interview Statements (Dolgos, Richards, and Richter)</i>
9:39	ERT moving to St. James Church per 28401	<i>Paulsboro Police CAD</i>
9:45	15 minute ETA for Red Cross	<i>Fire Dept/EMS CAD</i>
9:48	Field Comm 2 is operational. All communications should go through Field Com 2.	<i>Channel 3 Fire Ops</i>
9:55	Paulsboro Refining Company HAZMAT team returns to the incident location (Conrail Shack North side of railroad tracks - west side of Mantua Creek) and records 10 ppm VOC.	<i>Paulsboro Refining Company Mutual Aid Summary</i>

<b>TIME</b>	<b>EVENT</b>	<b>SOURCE</b>
10:12	All intakes along river being closed per Delaware River Basin Authority	<i>Paulsboro Police CAD</i>
10:18	Notified by NTSB Rubin Payan, investigation team enroute	<i>Paulsboro Police CAD</i>
10:19	PD Captain advised students and faculty can go home. Chief spoke to school superintendent.	<i>Paulsboro Police CAD</i>
10:26	Jack Henderson notified to release children/staff can go home. Guardian Angels Schools notified.	<i>Paulsboro Police CAD</i>
10:28	Decon moving forward to hazmat	<i>Fire Dept/EMS CAD</i>
10:29	Superintendent of Schools reported only 20-30 students remaining at 3 public schools.	<i>Paulsboro Police CAD</i>
10:36	Donna Leusner NJDOH message to NJ DEP and DOH regarding short term health effects of vinyl chloride. DOH is sending a member of its Consumer, Environmental and Occupational Health Service to the scene to meet with the health inspector.	<i>NJDEP 0049</i>
10:36	Message from Abbie Tank-Smith NJDEP regarding early assessment of Paulsboro train derailment. Message includes: 1 car fully in the water containing vinyl chloride, car did leak but the chemical has dissipated, 3 other cars carrying vinyl chloride - none believed to be leaking. "We believe there are minimal health and environmental impacts at this time. Wind was blowing towards the river and an open/marshy area. Bridge is adjacent to a residential area. 22 people taken to the hospital with respiratory issues. Air monitors are set up - Air levels appear to be safe. DEP is also monitoring the Air. Gloucester County OEM is coordinating and led briefing.	<i>NJDEP 0084</i>
10:41	John Sacco, NJDEP, message to Deputy Advisor to the Commissioner NJDEP: "We're monitoring the Paulsboro vinyl chloride spill. This is dangerous material and we will not be responding until the area is secure. There appears to be only one compromised tank...The event is more of a human health/inhalation problem.	<i>NJDEP 0091</i>
10:43	NuStar Monitoring Team records 0-1 ppm VOC at the NuStar Main Gate.	<i>Paulsboro Refining Company Mutual Aid Summary</i>
10:45	IS-9 will be dedicated to decon/hazmat	<i>Fire Dept/EMS CAD</i>
10:46	The Fire Chief states, "We're moving operations to the Borough Hall, which would probably be a better spot because it's a half mile evacuation area, and when they start the lifting of these tanks that are full, we're not going to be able to be in this area."	<i>Channel 3 Fire Ops</i>
10:48	Per Incident Commander - operations and command post are being moved to Borough Hall on Delaware St due to hazardous conditions	<i>Fire Dept/EMS CAD</i>
10:53	Cherrie Black, NJ OHSP, message to DEP - spoke to Paulsboro police chief, 4 rail cars believed to contain vinyl chloride... there was a small release but the wind shifted to the west and the earlier visible cloud has dissipated. DEP and legions of fire and hazmat trucks are on site.	<i>NJDEP 0089</i>
11:04	Chris Embry - Sunoco Logistics called pipelines in area of derailment - pipelines closed.	<i>Paulsboro Police CAD</i>

TIME	EVENT	SOURCE
11:09	EPA Region 2 Situation Unit message to Region 2 Emergency Response List: Update #4, EPA OSCs have arrived on scene and are currently assessing the situation with local fire and police, NJDEP, County HazMat, USCG, Conrail representatives, and other responders. NJDEP is conducting air monitoring activities. Readings indicate high levels of vinyl chloride over a half mile away from the derailment scene. EPA is assisting in determining a location for establishment of the Command Post given the readings...A vapor cloud is present at the location of the derailment, near the end of East Jefferson Street in Paulsboro.	<i>NJDEP 0092</i>
11:26	Message from Robert Van Fossen, NJDEP responding to Michele Siek and Wolfgang Skacel message about needing hazardous waste specialists to do water monitoring because this is a highly toxic dangerous toxin. Van Fossen responds - putting plan together.	<i>NJDEP 0088</i>
12:09	Bill Needham - Colonial Pipeline provided contact numbers	<i>Paulsboro Police CAD</i>
12:19	Bruce Ruck, NJ Poison Control Notified	<i>Paulsboro Police CAD</i>
12:39	Message from Delaware Valley Early Warning System to NJDEP: the status of this water quality event has been changed to resolved at 12:35 p.m. Vinyl chloride car was compromised releasing 180,000 pounds of material into the atmosphere. Miller Environmental was on location placing booms in Mantua Creek.	<i>NJDEP 0108</i>
12:52	NJ ROIC Update #3: as of 12:19 p.m. Residents within 1/2 mile were advised via reverse 911 to shelter-in-place. Three schools in Paulsboro closed for the day. Up to 18 people at a marine terminal reported symptoms and were transported to Underwood Mem Hospital. Up to 20 others reportedly taken to Kennedy Health System. Respiratory problems reported in nearby communities, but plans for wider evacuations were unclear. emergency crews staged at Gloucester Co Fire Academy. Gloucester Co HazMat team and PRC Refinery were metering and monitoring the site.	<i>NJDEP 0117</i>
13:30	EPA's Trace Atmospheric Gas Analyzer (TAGA) bus begins real-time air monitoring of vinyl chloride.	<i>EPA TAGA Data Report</i>
13:30	Center for Toxicology and Environmental Health (CTEH) Monitoring Teams arrive and begin air monitoring.	<i>CTEH Air Sampling and Monitoring Summary for November 30, 2012</i>
13:49	Andrew Fishman, NJDEP, emails incident scene photo to NJSP showing individuals in close proximity with no PPE, frost is still present on the tank cars.	<i>NJDEP 0123</i>
14:10	Message from Bill Donovan to NJDEP and DHS: the USCG captain of the port, Sector Delaware Bay, is now the incident commander and the ICP has been moved to Gloucester County fire training academy.	<i>NJDEP 0137</i>
14:30	Gregory Godish, NJSP reports elevated readings above 1 ppm for vinyl chloride in the area of the incident. Paulsboro OEM will declare a local state of emergency with evacuation order for 40-45 residents and an 8 pm curfew for Paulsboro residents.	<i>NDEP 0140</i>
15:16	Tides: High 15:03, Low 22:15	<i>Fire Dept/EMS CAD</i>
16:13	Hazmat team monitoring on SCBA. 17 ppm readings	<i>Fire Dept/EMS CAD</i>

<b>TIME</b>	<b>EVENT</b>	<b>SOURCE</b>
16:18	PD requested to respond to Ziggy's Boat Yard for crowd control	<i>Fire Dept/EMS CAD</i>
16:31	1721 has deck gun in service on the rail car.	<i>Fire Dept/EMS CAD</i>
17:15	Commerce Street evacuated from Broad Street to Railroad, one block radius. Residents either went to neighbors or to fire hall.	<i>Paulsboro Police CAD</i>
17:17	1 block area, Commerce Street, Broad Street to area of RR tracks evacuated	<i>Fire Dept/EMS CAD</i>
18:00	6:00 p.m. briefing: based on air monitoring, decision made by unified command to expand the evacuation to a 12 block area is being executed. This will be approximately 500 residences within Paulsboro.	<i>NJDEP 0218</i>
18:50	Chief Watcher advised will be making mandatory evacuations from Commerce to Delaware Street from the RR tracks to Broad Street.	<i>Paulsboro Police CAD</i>
19:10	Message from Thomas Scardino to NJSP: Air sampling is picking up increased readings of vinyl chloride and a decision has been made to increase the evacuation zone downwind, involving roughly 400 people. The change in readings is due to the sun setting and atmospheric conditions holding vapors in where it is settling in low areas and also penetrating through structures - thus evacuation over shelter.	<i>NJDEP 0182</i>
20:00	7 refusals to evacuate were documented	<i>Paulsboro Police CAD</i>
23:20	2 SCBA personnel going into look at monitors and check	<i>Fire Dept/EMS CAD</i>
23:28	Per 5802, approximately 400-500 persons evacuated. 40 families have been taken to 48 hotel rooms at various locations. Both Fire Academy and Regional Ops Center are being used by Federal agencies with security provided by Sheriff's Dept.	<i>Fire Dept/EMS CAD</i>