



NATIONAL TRANSPORTATION SAFETY BOARD  
Office of Marine Safety  
Washington, D.C. 20594

**SURVIVAL FACTORS GROUP FACTUAL REPORT**

**DCA13MM005**

**ACCIDENT**

Vessel: *Seastreak Wall Street*  
Date: January 9, 2013  
Time: 0841 EST  
Location: Slip D2, Pier 11, Manhattan, NY  
Owner: Seastreak, LLC

**SURVIVAL FACTORS GROUP**

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1  
2 **SUMMARY**  
3

4 About 0841 EST on January 9, 2013, the passenger ferry *Seastreak Wall Street*, operated by  
5 Seastreak, LLC, allided with the corner of the D2 slip while attempting moor at B slip of Pier 11  
6 in Manhattan, New York. The ferry had departed Atlantic Highlands, New Jersey, approximately  
7 40 minutes before the accident and was destined for Pier 11 to offload passengers. It was the  
8 second round trip of the day after an uneventful first run. Seventy-nine of 326 passengers aboard  
9 sustained minor injuries, four passengers were seriously injured, and one of five crewmembers  
10 sustained minor injuries.

11  
12 **DETAILS OF THE INVESTIGATION**

13 **1. Interviews**

14 **1.1 Crew**  
15

16 **Deckhand #1** -- He said he was at the wing station preparing to dock at pier 11 and said he went  
17 unconscious for a period of time, then awoke, prior to the engines restarting, and tended to two  
18 passengers who were next to him, bleeding. "Ice, paper towels, whatever we could do...and then  
19 the next thing, they had the fire department there." "And I remember yelling at the gentleman  
20 that works for us that was on the dock...to run across the street to the fire department." He said  
21 that he believes he has seen a company policy for docking and said it is "to try to keep  
22 passengers ...in their seats...to stay inside and stay out of the way so you can get your job done  
23 without anybody getting injured..." He said the crowd control policy is based on weather. The  
24 captain will decide when the crew should tell the passengers that they should stay in their seats.

25 **Mate** -- Said he was in the wheelhouse at the time of the collision and stayed in the wheelhouse  
26 until the captain regained control of the vessel. At first, he said he did not think "it was quite so  
27 bad ... I saw some bumps and scrapes" on the second deck. He said he told the captain about the  
28 injuries and then he looked "for people to help, trying to assess the situation." He said he then  
29 "went out front, threw the line to tie the boat up, saw the police, mates were calling for help, and  
30 tied up the stern." He said it was on the way to his mooring station when he saw a seriously  
31 injured passenger in the stairwell. He said he then began to assist injured passengers and checked  
32 vessel void spaces for damages. He said he bandaged one man's leg and identified serious  
33 injuries for the fire department. He said he did not sound the collision alarm because he thought  
34 the captain would regain control of the vessel and in thinking about it, said that "by the time I  
35 realized that it was imminent, I couldn't even grab the ... microphone." He said he estimated a  
36 time of ten seconds between learning there was a problem and the allision. He said he has never  
37 participated in a "collision drill".

38 **Captain** -- He said that after he had regained control of the vessel, and got it to the dock, he said,  
39 "At that time, I had people on the dock call 911 and started making my necessary calls." He said  
40 that after members of his crew had told him that passengers had serious injuries, he told the crew

1 to tend to them, he said he “made a general announcement that please try to remain calm if  
2 you’re injured.” And, “When we got back to the dock, I asked people if you were not injured and  
3 you’re transferring to East 35<sup>th</sup> Street, please could we get off so we could tend to the injured.”  
4 He said that he knows of no company policy with regard to telling people to remain in their seats  
5 and said he would not make any announcement other than, “we may say Pier 11 next stop.” He  
6 said that he always makes the regulatory required safety orientation announcement, and on  
7 certain days, such as a windy day, two weeks before the accident, he said he announced, “Please  
8 use the handrails, seat backs provided if you do move about; please do not move about if you  
9 don’t have to.”

10 **Deckhand #2**-- Said he was behind the bar and “all the momentum from my body just went to  
11 my front foot, and I caught myself on the bar...Everything behind me fell down...I sprung  
12 up...asked if everybody was Okay...looked around...saw people on the deck. That’s when I  
13 ...put gloves on,” and asked passengers around me to fill up gloves with ice to start handing out  
14 to injured passengers. He said that, because of his training, he told people standing up to clear the  
15 aisles; “If you’re OK and uninjured, please sit down, stay clear of the aisles. And anybody who  
16 was hurt, do not move.” He said they “had a few nurses (as passengers) on the boat so they were  
17 able to help out some passengers.” He said that “they always announce, utilize the seatbacks or  
18 the handrails in the stairway if you’re not near seatbacks” when it gets a “little bumpy” out there.

19 **Deckhand (served as engineer)** -- He said that he was in the bar area and fell down during the  
20 collision and then proceeded to the wheelhouse to obtain a first aid kit. The Captain told him to  
21 go to the engine room; so on his way to the engine room, he left the first aid kit with passengers.  
22 He said that after he re-started the engines he went back to assisting passengers, such as handing  
23 out cold water bottles.

24

## 25 **1.2 Passengers**

26

27 This section contains survival factors factual information gathered from interviews with  
28 passengers and questionnaires.<sup>1</sup>

29 **Passenger #9** – Minor injury. Male, 51 yoa, 6’2”, 280 lbs. Occupation: Banker. Said he was  
30 seated on the second deck, first row of the interior section of seats on the starboard side, in the  
31 left seat, seated sideways talking to the passenger seated behind him. He said he heard an  
32 announcement that the vessel was coming into Wall Street. He said he noticed people lining up  
33 by the stairs. Said he did not get up because Wall Street was not his stop. He said that as he was  
34 conversing, he “went flying and hit my head on a pole that was in front of me, just to the right of  
35 me.” He said he had no sense of braking or slowing down before the collision and believes he  
36 was unconscious for about a minute. He said that when he awoke, people told him to remain on  
37 the deck, was examined by a person in a business suit wearing gloves (believes it was a doctor),

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<sup>1</sup> Appendix 1, the *Seastreak Wall Street* Injury Table, contains information gleaned from medical records of injured passengers. Some of the injured described where they were located and what happened to them and where they were located. This information is listed in the field “Location”.

1 visited by a crew member and was eventually removed from the vessel by EMTs on a backboard  
2 and a friend stayed with him until he was removed to the Brooklyn Hospital by an ambulance.  
3 Said that his neurologist thinks he had a concussion. He said that the windows on the second  
4 deck were fogged up and this may have prevented him from seeing the dock and assessing  
5 whether he thought the ship was coming in too fast.

6 **Passenger #10** – Minor Injury. Female, 39 yoa, Occupation: technical project manager. She said  
7 that as the boat slowed down she gathered her things and started moving to the front entrance on  
8 the starboard side, lower level of the vessel. She said she thought the vessel had already stopped,  
9 “and then the next thing I knew, I was kind of flying through the air.” She said there were one or  
10 two people between her and the door. She said that she recalls being thrown forward and then  
11 somehow “also then thrown backwards,” her head hit someone else’s head and a “there were a  
12 few people on top of me.” She said that everyone was very concerned about each other, asking  
13 each other if they were alright. She said two firemen assisted her to a seat on the ferry. She  
14 eventually was transported to a hospital by an ambulance.

15 **Passenger #14** – Minor injury. Female, 47 yoa. Said she was seated in the first seat, next to the  
16 door near the bow of the vessel, riding with her back to the bow of the ship. She said that all the  
17 people who were standing up to exit the vessel fell on top of her and the ladies next to her and a  
18 garbage can “came and hit me”. She said that she knows the captain, and before the vessel  
19 docked, she heard the Captain say, “People, we have an issue here. I’m trying to get the boat  
20 over.” She said that she stayed with a woman she thought was in shock and held the hand of the  
21 man who was then sitting in her seat. She said that, “And so everybody, as routing, would  
22 normally get up on the boat a few minutes before we’re docking to get in line to be one of the  
23 few people that get off first, so we all go for that same cab.” She said that the crew was “running  
24 around” assisting people. She also said, “There were quite a few people lying on the ground.  
25 There was a large amount of people that got off and I assume went on their merry way.” She  
26 said she went to the hospital by ambulance.

27 **Passenger #18** – Minor injury. Female, 46 yoa, 5’8”, 126 lbs. Occupation: Vice President of a  
28 design and manufacturing company. She said she was seated on the main deck, starboard side in  
29 the section with two seats, in the second row from the stern, in the inner seat. She said she  
30 would get off at 35<sup>th</sup> Street; she was working on her laptop and not paying attention to where the  
31 boat was. She said her head hit the steel pole that is near her seat, and her knee and she landed in  
32 the aisle, just to the left of her seat. She said that everyone seemed pretty calm and that  
33 crewmembers and passengers were offering each other assistance. She said that “if you felt that  
34 you hit your head or anything, they wanted us to sit.” She said, “Then the firemen came on  
35 board and the policemen and all the medical units trying to sort out those who were injured first,  
36 making sure that they had -- the most critical care were seen to and put on boards. I must have  
37 had 20 emergency people ask me if I was okay.” She said, “I was in my seat so I can’t say  
38 everybody should sit ... I still got thrown from my seat from the impact...I think you just have to  
39 be cautious.”

1 **Passenger #78** – Not injured. However, she said her right shoulder hit the seat in front of her  
2 and it was sore at the time of the interview. Occupation: Accountant. She said that she was  
3 seated on the second deck, starboard side in a window seat. She said that “some of the larger  
4 men in the aisle fell onto some of the people in the seats and one of the seats popped out and hit a  
5 fellow on the face, and then another fellow hit his head on the window upstairs. She said that as  
6 the captain brought the boat into the dock, after the collision, “deckhands started screaming” at  
7 two female police officers on the dock, “Call 911, we need help. Someone go to the fire  
8 department, get the fire department”. She said after a few minutes, passengers were asked to  
9 disembark. She said that her husband is a ship captain and involved in shipping and the two of  
10 them discuss her ride on the very. She said that she does not get up from her seat until “I can  
11 hear the quiet positioning of the boat.” She said the “FDNY were unbelievably good.” She said  
12 that one of her friends ended up under five other people, was bruised, but went right to work.  
13 And another person with a laceration had a 10:00 AM meeting that he wanted to make rather  
14 than wait for triage or go to an emergency department.

15 **Passenger #73** – Minor injury, Female, 5’2”, 185 pounds, Legal Secretary. Seated on the second  
16 deck, towards the back of the boat on the starboard side. She said she was sleeping, “I pitched  
17 forward. My face went into the seat in front of me. My knee must have hit the bottom of the  
18 seat in front of me and I must have actually come out of my seat.” She said she heard yelling to  
19 people on the dock, “Get the fire department. Get the fire department”.

20 **Passenger #22** – Minor injury, male, 6’0”, 200 pounds, assistant district attorney New York  
21 County. Said he was standing on the aft upper deck, starboard side, facing aft with about five  
22 other people. He said there were fewer people than usual standing in anticipation of getting off  
23 the vessel. He flew towards the bow, hitting a door and then on the rebound, because he was  
24 facing aft, he hit another passenger face to face. He said that he does not remember a crewman  
25 checking on him and that people were asked to leave the boat and the departure was orderly.

26 **Passenger #23** – Interview not recorded. Minor injury, Male, 6’0”, 190 pounds, compliance  
27 officer. He said just prior to the crash, he got up from his seat in the last row of seats, in the  
28 inner section of seats, on the port side, just in front of the bar, to put trash in the pail behind him.  
29 He said he landed flat on his back. He said fellow passengers told him to remain where he was.  
30 He did not move until emergency responders arrived. He said that on a normal day, it may take  
31 up to 10 minutes to disembark from the vessel.

32 **Passenger #29** – She said she was seated on the main deck, port side, the second table from the  
33 bow and had just gotten up when she was hurdled forward and hit “several things”. She said  
34 there was an announcement made, that if you were not injured to leave the boat and if you were  
35 injured, stay in your seat.

36 **Passenger #31** – Minor injury. Interview not recorded. Male, 54 yoa. Height: 6 feet. Weight: 240  
37 lbs. Occupation: Banker. Location: Seated, port side main deck, aft row, corner seat. He was  
38 reading a newspaper. The side of his head hit a seat tray in front of him. Following the allision  
39 he assisted other passengers, had his bleeding leg wrapped by FDNY personnel and was

1 transported to Bellevue hospital on a FDNY bus. He commented that “this outfit is very good”  
2 and said the crew reacted very well helping people. “It distributed water, towels, gloves and  
3 whatever people needed.”

4 **Passenger #35** – Minor injury, male, 41 yoa, 6’1”, 265 pounds, Compliance Officer.  
5 Questionnaire. Said he was standing outside on the second deck conversing with other  
6 passengers when the collision caused him to hit his head and ribs on a bench. He said he helped  
7 passengers identify their injuries and saw the crew attending to the seriously injured passenger at  
8 the bottom of the starboard stairwell.

9 **Passenger #40** – Minor injury, male, 5’8”, 180 pounds, insurance underwriter. Said he had just  
10 gotten up from the last row, near the bathroom and started to walk back on the lower deck,  
11 toward the stern of the boat to get in line to go out after seeing his building and feeling that the  
12 vessel would soon dock. The next thing he knew, he was 15 to 20 feet towards the bow of the  
13 boat from where he was standing and collided with other people, was on the deck and told to stay  
14 down. He said that “the crew was very helpful in assisting.”

15 **Passenger #43** – Said he “had serious injuries” (Emergency room record indicated minor  
16 injuries). Interview not recorded initially. He later called and spoke with NTSB investigator Karr  
17 on 1/18/2013. Male, 56 yoa, 5’9”, 200 pounds, Member New York Stock exchange. Initially he  
18 provided little information saying he may pursue legal action, and did not want to place his case  
19 in jeopardy. He said he was on the outboard starboard side staircase, about half way down and  
20 was thrown to the bottom of the staircase. He said he has three fractured ribs on his right side.  
21 He said no crewmembers helped him and said other passengers offered assistance and the FDNY  
22 was tremendous. He said he suspects that the seriously injured passenger in the stairwell hit the  
23 overhead as he would have been thrown forward.

24 **Passenger #74** – Questionnaire, minor injury, female, 5’5”, 122 pounds, Vice president and  
25 Chief of Staff. She said she was standing in the aisle, on the main deck near the bow of the  
26 vessel, on the starboard side typing on an iPhone. She said she landed on the deck and thinks she  
27 hit a chair. She said she was standing because she was anxious to get to work. She said she  
28 helped a passenger at the bottom of the interior steps and saw other passengers being helpful to  
29 one another. She said she did not seek medical attention until she arrived at work and found she  
30 could not raise her arm or turn her head without pain.

31 **Passenger #45** – Minor injury (He stated that he had no significant injuries). Interview not  
32 recorded. Male. 39 yoa. Height: 6 feet. Weight: 200 lbs. Occupation: Banker. Location: 2<sup>nd</sup> row  
33 port side close to big screen TV on wall, to right of port side sliding door, in an aisle seat. He had  
34 noted nothing unusual about the transit and was seated reading his paper at the time of the  
35 collision. He said he felt the boat slow down and then shortly thereafter the collision. He  
36 recommended that people remain seated and if they need to get up to hold on and use rails like  
37 on a train. He also said that after seeing injured passengers piled up at the bottom of stairs, that  
38 passengers should steer clear of the stairs and always use handrails when transiting up or down

1 stairs. He said the crew appeared to be as equally alarmed as the passengers, but were helpful  
2 and that the response times for the police and fire departments were very good.

3 **Passenger #48** – Minor injury, male, project manager for an educational consulting company.  
4 He said “no one really saw it coming.” He was reading, holding a cup of coffee, sitting on the  
5 upper deck, towards the rear and everyone flew forward. He remained in his seat with his head  
6 hitting the seat in front of him. He recommended that passengers stay seated during the last five  
7 minutes of the trip. He said that there would have been fewer injuries if people were seated and  
8 not standing.

9  
10 **Passenger #52** – Minor injury, male, 6’1”, 165 pounds, web developer. He said he was on the  
11 second deck, facing aft, near the rear of the cabin, about two feet from the door, on the port side  
12 of the vessel. He fell towards the bow of the boat, hitting the last row of seats, about four or five  
13 feet from where he was standing. He said he saw the captain of the vessel outside the  
14 wheelhouse calling to people on the dock to call 911 and call emergency help. He said it seemed  
15 like a short time, minutes, until EMS personnel arrived. He said in hindsight, it seems that there  
16 should be protocols or procedures to keep passengers away from the stairwells as the vessel  
17 approaches the dock.

18 **Passenger #76** – Said he was standing on the second deck, outside but not near the stairs and  
19 was thrown towards the bow and other passengers. He did not hit the door and all of the five or  
20 six people in his area ended up in a pile. He said he was surprised that he heard no  
21 announcements after the allision occurred. He said people on the boat were yelling at the people  
22 on the dock to get help.

23 **Passenger #53** – Minor injury, Male, 5’9”, 185 pounds, Insurance company claims manager. He  
24 said he was seated 15 feet back from the front of the vessel, looking at his BlackBerry/iPhone  
25 and, he said, with no warning, everything went flying. Standing passengers were thrown to the  
26 deck and into walls. He said that he went behind the bar and filled bags and gloves with ice.

27 **Passenger #54** – Minor injury, female, 5’7”, 170 pounds, financial underwriter. She said she was  
28 seated in the inboard section of seats, near the bar on the starboard side of the vessel. She said  
29 she heard an announcement for the arrival of the vessel. She said she hit the seat in front of her  
30 and noticed “multiple people that had passed out at the granite bard or hit the floor.” She said  
31 that one of the crew members, stationed at the bar, had been giving instructions and packing ice.

32 **Passenger #56** – Minor injury. Interview not recorded. Female. 37 yoa. Height: 5 feet 2 inches.  
33 Weight: 135 lbs. Occupation: Bank Vice President. Location: Main deck, amidships, seated  
34 against wall that holds flat screen TV. She said it was a usual morning, a smooth ride, with no  
35 indication of a problem. Without any indication or warning, all of a sudden she was thrown to  
36 the floor on her right side. She said that it seemed like they hit twice, i.e. hit something and then  
37 hit hard. She remembered two jolts. She said she was injured (head trauma) and stayed on the  
38 floor for some time. She laid there, confused and did not know what to do. She said that the  
39 crew did not appear to be very helpful and did not immediately offer her any ice, etc. She said

1 she heard that those who could walk were to leave the boat to permit the emergency people to  
2 enter and take care of the seriously injured.

3 **Passenger #57** – Questionnaire, Minor injury, female, 35 yoa, 5’4”, 130 pounds, Merchant. She  
4 said she was standing in line aft of the galley bulkhead, waiting to get the vessel, talking with  
5 other passengers. She fell backwards and her head hit the bulkhead, and then to the deck. She  
6 said that shortly after the accident she heard people using their cell phones to call 911.

7 **Passenger #59** – Questionnaire, minor injury, 52 yoa, 6’1”, 200 pounds, stock broker. Said he  
8 was returning to his seat after visiting the restroom when he stopped to visit with a friend in the  
9 inner aisle, on the starboard side, in front of the bar on the main deck. He said he assisted his  
10 friend, who had hit his head on the seat I front of him.

11 **Passenger #61** – Occupation: Public relations. She said she was standing, third in line at the  
12 door at the back of the boat, leaning against the windows and flew past the door about 10 to 15  
13 feet forward, ending up in a “pile of women”. She said she thinks she hit a fire extinguisher that  
14 was installed on the bulkhead “mid-thigh” height.

15 **Passenger #27** – Minor injury, female, 5’2”, 160 pounds, executive assistant. Said she was  
16 seated on the second deck, in the very back row of seats, in the end seat, next to the door, on the  
17 port side. She said she had her pocketbook on her lap and did not think the boat was  
18 approaching pier 11. All of a sudden she was thrown back against the wall and then catapulted  
19 out of her seat about five rows forward. She said she was “airborne, just completely airborne.”  
20 She said that there were no announcements after the accident describing what had happened.  
21 She did not know where they were, and thought they may have collided with another boat. She  
22 said, “The fire department was amazing...wonderful. They were there  
23 quickly...efficient...kind...wonderful.” She said so were the “ambulance people” and “all of the  
24 NYPD”.

25 **Passenger #79** – Minor injury, male, 45 yoa, 5’9”, 200 pounds, New Jersey firefighter. He said  
26 he was riding to 35<sup>th</sup> Street, sitting on the aisle seat by the bulkhead, on the main deck, by the  
27 Television, where the steps come down in the interior of the vessel, and was thrown into the  
28 bulkhead and to the floor upon impact. After impact he obtained gloves and paper towels, began  
29 directing people to sit and not to move until medical attention arrived, covered up wounds and  
30 told people to apply pressure to prevent bleeding. He said he moved to the second deck after  
31 hearing there were many injured needing attention. He said he talked to a woman who was  
32 attending a seriously injured passenger and found out she was a doctor. He said that he was not  
33 transported to a hospital by the first responders nor did he seek medical attention.

34 **Passenger #81** – Not injured Interview not recorded. Male, 32 yoa, seated on the 2<sup>nd</sup> deck, four  
35 or five rows back on the port side of the center section of seats. About five minutes before the  
36 allision he got up and walked to the rear to stand in line in the aisle between the center and port  
37 side seats, behind people already lined up. He had an early meeting. He has ridden the boat  
38 every day for 10 years, and felt from the speed and everything happening that they were not



1 close but had about two to four minutes until they arrived at slip B. He said he heard the sound  
2 of people hitting glass. He said he was thrown back five or six feet. Glass was everywhere. After  
3 the allision, crewmember made announcement that they were experiencing difficulties. He then  
4 checked on friends and noticed doctors onboard doing amazing things helping others. He said it  
5 took about 10 minutes after the impact to get to the dock. He then went down the stairs to the  
6 main deck. He added that Police and EMT did a marvelous job.

7 **Passenger #80** – Minor injury, female, 42 yoa, 5’6”, 200 pounds, television production. She  
8 said she had just stood up on the main deck port side, forward and was responding to a work  
9 email. Next thing she remembers was picking herself off the floor. She said an announcement  
10 asked that if people were not injured, to “get off” the vessel. “So I sat there for a couple more  
11 seconds and then I got off the boat and left...when I was leaving that area, the first EMT was  
12 coming up” to the vessel. She said she was not seen by EMT personnel, but saw a doctor later  
13 that day for a swollen wrist, scuffed and bruised left knee and a swollen patella (left knee).  
14 During the interview, two days after the accident, she said she “felt like I had been in a boxing  
15 match.” She also said that after the accident, she sent a text message from the boat at 0845.

16 **Passenger #68** – Minor injury, male, Insurance Adjuster. He said he was standing at the top step  
17 of the after starboard stairs and fell forward to the third step from the bottom, landing of top of  
18 someone else and on the metal stair. He said he had been seated, but had gotten up because he  
19 wanted to be one of the first people off the vessel. He had no particular reason to get in line  
20 early but said he had “just a busy day”. He said he limped and was helped off the vessel and put  
21 on a board after he left the vessel.

22  
23 **2.3 Others**

24 **President, Seastreak** -- He said that the company does not have a crowd control policy.

25 **Seastreak Vice-President for Operations** -- He said that he trains crew members in first aid  
26 and CPR annually, however, because Hurricane Sandy activities, the company did not train its  
27 crews in 2012. He said that “passengers are free to move about the vessel...on a calm day, they  
28 are free to roam.” He described the emergency procedures manual as instructions for whom to  
29 call and how to interact with organizations after an incident, such as a marine casualty occurs.  
30 He said that at about 0845 or 0850 he received a call from the mate on board the vessel telling  
31 me the vessel had an allision, and then the captain grabbed the phone and said he had hit the pier,  
32 had injured passengers, needed ambulances, asked me to call 911 and said he was calling 911 as  
33 well. He said he was unable to be transferred to New York 911 from the New Jersey 911  
34 operator. Unable to contact 911, he called the Coast Guard Vessel Traffic Service to report the  
35 accident.

36 **Pier 11 ticket booth employee** -- Heard loud noise while in ticket booth on pier 11. Did not see  
37 accident. Interview recorded.

1 **Pier 11 Security Officer** -- Heard loud noise while in ticket booth on pier 11. Did not see  
2 accident. Said he saw whitish-gray smoke coming from exhaust, after the allision. Said he  
3 usually sees black smoke. Interview recorded.

4 **Deputy Director Marine Terminal Security** -- Ran to pier 11 after receiving notification of the  
5 accident. Interview recorded.

6  
7 **2. Medical and Pathological Information**  
8

9 2.1 Injury Table  
10

11 The injuries sustained in the *Seastreak Wall Street* accident, shown in table 1, are categorized  
12 according to the injury criteria of the International Civil Aviation Organization (ICAO). The  
13 Safety Board uses the ICAO injury criteria in all its accident reports, regardless of transportation  
14 mode.  
15

16 **Table 1.** Injuries sustained in *Seastreak Wall Street* accident.

Type of Injury	Crew	Passengers	Other	Total
Fatal	0	0	0	0
Serious	0	4	0	4
Minor	1	75	0	76
None	4	247	0	251

Title 49 CFR section 830.2 defines a fatal injury as any injury that results in death within 30 days of an accident. It defines serious injury as that which requires hospitalization for more than 48 hours, commencing within 7 days from the date the injury was received; results in a fracture of any bone (except simple fractures of fingers, toes, or nose); causes severe hemorrhages, nerve, muscle, or tendon damage; involves any internal organ; or involves second- or third- degree burns, or any burn affecting more than 5 percent of the body surface.

17  
18 2.2 Survivor Injuries  
19

20 Eighty people were injured in the accident, four of them seriously. The injuries were  
21 primarily lacerations, muscle injuries and pain to the head, neck, shoulder, back, hip and  
22 legs. Most of the injured persons walked off the vessel; some were removed on  
23 stretchers. Most of the injured passengers were transferred to hospitals including:  
24 Bellevue, New York Downtown, Brooklyn, Long Island Children’s Hospital, New York-  
25 Presbyterian, and Beth Israel Medical Center.  
26

27 2.3 Fatal Injuries  
28

29 There were no fatal injuries.  
30  
31

1 **3. Emergency Response**

2  
3 Upon receiving notification of the incident, the Fire Department New York (FDNY) began the  
4 initial dispatch of units at 0843. The first FDNY unit arrived on scene at 0847 and provided first  
5 aid and checked for injured people. Other FDNY units also provided first aid, checked for  
6 injured people, checked for people in the water, verified the vessel was secure to the dock and  
7 not taking on water and set up a casualty collection site on the pier adjacent to the vessel. A total  
8 of 53 FDNY units were dispatched to the scene. Some units stood by and others were returned  
9 to station before arriving on scene. See Appendix two for a summary of FDNY Incident Report  
10 3-0040-0.

11  
12 The most serious injured passenger, passenger 69, was transferred to New York-Presbyterian  
13 Hospital by EMS ambulance. The ambulance was dispatched at 0929, arrived on-scene at 0931,  
14 and left Pier 11 at 0940, arriving at the hospital at 0947.

15  
16  
17 **4. Toxicological Testing**

18  
19 Shortly after the accident, the *Seastreak Wall Street* crew, were tested for the presence of illegal  
20 drugs and alcohol<sup>2</sup>. For all crewmembers, the results were negative for alcohol and the five drugs  
21 of abuse that the U.S. Department of Transportation (US DOT) screens in post-accident testing  
22 (marijuana, cocaine, opiates, amphetamines, and phencyclidine [PCP]). USCG Station New  
23 York personnel reported at 1036 that they had conducted field sobriety tests of each crew  
24 member and all test results were negative.

25  
26 Appendices:

- 27 1. Table: *Seastreak Wall Street* Allision injury Table  
28 2. Table: New York City Fire Department Units Responding to *Seastreak Wall Street* Allision  
29 3. *Seastreak Wall Street* passenger questionnaire (blank)

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<sup>2</sup> Federal regulations at 46 CFR Part 4.06 require post-accident drug and alcohol testing on all individuals engaged in or employed on board a vessel who are directly involved in any accident meeting the criteria of a serious marine incident as defined at 46 CFR 4.03-2. On June 20, 2006, new Coast Guard regulations (46 CFR 4.06-3) took effect requiring alcohol testing within 2 hours of a serious marine incident and the collection of drug-test specimens within 32 hours. The five drugs for which tests are conducted are amphetamines, cocaine, marijuana, opiates, and phencyclidine.

**Seastreak Wall Street Allision Injury Table**

January 9, 2013, DCA-13-MM-005

Number	Age	M/F	Hospital	Mode of arrival	Description of injury	Pain Screen	ESI	Fatal	Serious	Minor	Location	
1	42	F	Bellevue	City Ambulance	Left knee swollen w/abrasion	6	3			Minor		
2	67	F	Downtown	EMS	Head and chest pain	Moderate				Minor		
3	49	F	Bellevue	other	Head pain	Moderate	4			Minor	Facial pain; seated; thrown forward striking bridge of nose on padded seat in front of her.	
4	40	M	Downtown	Walk-in	Rib Chest Wall pain	Severity: 6 (0-10)	2			Minor	Fell on his left side; many people fell on his Right Side.	
5	61	M	Downtown	Walk-in	Back pain. (Initially went to work, went to ER 2 hrs later).	mild	3			Minor	Flew 6 feet backwards and hit the railing in the back.	
6	31	M	Downtown	EMS	Shoulder pain (Denies head or neck trauma).	Severity: 0 (0-10)	3			Minor	Flew off chair and went down flight of stairs	
7	47	M	Bellevue	Mass Transit	Upper lip abrasion		4			Minor	Someone fell on him and bumped his lip.	
8	28	F	Downtown	Walk in	Dizziness 780.4 (No mention of ferry accident in her hospital visit record.					Minor		
9	51	M	Brooklyn	FDNY	Brain Concussion (850.9), abrasions by ear	5	3			Minor		
10	39	F	LICH	EMS	Minor head injury; Contusions, multiple sites	7				Minor		
11	57	M	NY-Presbyt	NY-P Ambulance	Head laceration 873.42 (stitches); shoulder pain 719.41	8	3			Minor	Fell forward, hit head and left shoulder	Deck Hand #1
12	44	F	Downtown	Walk-in (?)	Pain to shoulder with tingling					Minor	Raising to stand; chest hit table	

**Seastreak Wall Street Allision Injury Table**

January 9, 2013, DCA-13-MM-005

13	50	M	Bellevue	City Ambulance	Pain in joint, lower leg	5	3		Minor	Sitting, person sitting in front of him fell onto patient
14	47	F	Lenox Hill	?	Contusion - knee	3			Minor	
15	49	F	Downtown	EMS	Lacerations to back of head, neck pain,	8	2		Minor	Fell backwards
16	33	F	Downtown		"Abdominal pain in pregnancy"	4	2		Minor	Pregnant (10.5 wks) hit belly with food tray.
17	49	M		EMS	Neck sprain; elbow and knee abrasions	6	2		Minor	Thrown off of his feet; Fell onto knees and elbow, hit head
18	46	F	Bellevue	City Ambulance (bus)	Contusion to right face, knee and left rib pain	4	3		Minor	fell forward while seated, hit pole w/knee and face and bumped left arm of seat
19	46	M	LICH		Fracture - scapula (Left shoulder blade)	5		Serious - fracture		Thrown off balance
20	54	F	BethIsrael		Laceration - Scalp Simple; Abrasion, Multiple sites				Minor	Fell and hit head on an unknown object
21	56	M	LICH		Closed head injury (CHI), Lost consciousness; blunt trauma back of head	5			Minor	Fell into wall
22	59	M	Bellevue	Other	Open wound to face - Laceration to left eyebrow area.	2	3		Minor	Thrown fwd hit forehead and laceration to left eyebrow on sunglasses
23	60	M	NY-Presbyt		Head Contusion (920); mild headache	4	4		Minor	Fell back and struck head on floor
24	45	F	Downtown	EMS	rib pain; finger pain; left thumb nail removed/bleeding	6	3			Fell

**Seastreak Wall Street Allision Injury Table**

January 9, 2013, DCA-13-MM-005

25	28	M	Downtown	EMS	Pain on left side of body		2			Minor	Fell over
26	43	M	Bellevue	Bus - Other Ambulance	Lumbar pain and strain; buttock contusion, low back strain, cervical strain		3			Minor	Hit buttock on railing and head on wall
27	48	F	Beth Israel	EMS	Knee and shoulder pain	6	3			Minor	Thrown fwd into the air and then fell back, onto her back
28	50	F	NY-Presbyt	NYP Ambul	Mild head injury	3	3			Minor	Leaning fwd to pick up bags, Hit forehead on seat in front of her.
29	66	E	Brooklyn	EMS	Minor Head injury- Said she passed out					Minor	Hit head, passed out
30	57	F	Bellevue	City Ambulance	Right Elbow abrasion	6	4			Minor	
31	54	M	Bellevue	City Ambulance	Hit head, bruised lower leg	4	4			Minor	Thrown out of seat and hit head on seat in front of him
32	38	M	NY-Presbyt	NYP Ambul	Small head laceration; minor concussion; neck pain (5/15/13 phone call -- Labrum surgery	3	3		Serious - Labrum surgery		Fell down 10 steps
33	43	F	EMS		Head and neck trauma	10	3			Minor	
34	61	M			Neck stiffness; body ache, nausea	5	3			Minor	Fell backwards and hit his back and back of head.
35	41	M	Bellevue	Other	Abrasions to forehead and right index finger	4	3			Minor	Thrown to floor; Hit forehead on ferry
36	37	M	Bellevue	City Ambulance	General body aches	7	3			Minor	Thrown down stairs
37	42	M	Downtown		Hit head during ferry accident; Shoulder pain	6				Minor	
38	49	F	Downtown	EMS	Back pain	6	3			Minor	fall, hit a bar

**Seastreak Wall Street Allision Injury Table**

January 9, 2013, DCA-13-MM-005

39	30	M	Bellevue	Other	Back Strain/sprain	4	4		Minor	Fall from seated position
40	39	M	Beth Israel	EMS	Back pain; contusion to lower leg	4	4		Minor	<b>On Dock; fell to ground;</b> Thrown 15ft
41	39	M	Bellevue	City Ambulance	Pain around eye after hitting head.	5	4		Minor	Five people in front of him, fell back and pushed him back. Back of head hit door, fell to ground
42	39	F	NY-Presbyt	EMS	Right forehead and right leg pain	3	4		Minor	Patient was thrust into crowd of people. Leg pinned between the crowd. "Thrown 25ft"
43	56	M	Beth Israel	EMS	Laceration - Face Unspecified Site Simple; Head injury, Contusion of knee (1/18 interview said he had three fractured ribs)	4	3	Serious (ribs)		At top of forward staircase. Fell (forward?) to knees, hit chest.
44	27	M	Downtown	Walk in	Hit head	4	3		Minor	Fell backwards into people.
45	40	M	Bellevue	Other	Neck Pain	4	3		Minor	Seated, jolted but not thrown from seat. Felt neck tighten up later in day.
46	51	M	Downtown	Walk in	Back Injury	5			Minor	No info in record
47	46	M	Downtown	EMS	Head and neck pain				Minor	Seated, went flying head first.
48	39	M	Bellevue		Superficial forehead abrasion; mild swelling	2	4		Minor	Seated, head hit seat in front of him

**Seastreak Wall Street Allision Injury Table**

January 9, 2013, DCA-13-MM-005

49	42	F	Bellevue	Walk in (?)	Minor abrasion to nasal bridge; mild headache	5	4		Minor	Seated. Nose/face struck tray attached to seat in front of her.
50	55	F	NY-Presbyt	NYP Ambul	Neck sprain; contusion to head	4	4		Minor	Standing, fell, hit head on side of seat
51	54	M	NY-Presbyt	EMS	Head Trauma; laceration of ear; facial laceration	5	3		Minor	Standing, fell fwd, hit head on chair leg
52	33	M	Beth Israel	EMS	Thigh strain	5	4		Minor	Standing, fell back 5 ft, hit chair, person fell on his legs.
53	46	M	Bellevue	City Ambulance	Neck strain; knee strain	5	4		Minor	Seated, abrupt acceleration/deceleration;
54	35	F	Bellevue	Other	Contusion to face, scalp and neck	5	3		Minor	Seated, thrown into front seat
55	44	M	Downtown	Walk in	Neck strain; L knee abrasion	7	2		Minor	Rpts he was propelled 30 ft into the air.
56	38	F	Bellevue	Other	Minor Trauma to head; contusion right, upper eye	NA	NA		Minor	Standing, fell fwd, hitting forehead above R. eye.
57	36	F	Bellevue	MassTransit	Soreness next day, initial headache (From Questionnaire).	0	4		Minor	Standing against door, pushed against wall, hit head
58	44	F	Downtown	EMS	Neck, left hip, left knee, left lower leg pain	8	2		Minor	No info in record
59	52	M	NY-Presbyt	Walk in	Abrasion: Right hand; Left leg above knee. Neck pain.	6	3		Minor	Fell back while standing
60	52	M	Downtown	EMS	Abrasion to face; knee pain	8	3		Minor	Hit in face by another person's shoulder
61	32	F	Beth Israel		Multiple contusions; laceration - ear	4			Minor	Standing, fell fwd 15 ft.



**Seastreak Wall Street Allision Injury Table**

January 9, 2013, DCA-13-MM-005

62	51	F	NY-Presbyt	EMS		2			Minor	Seated; Thrust fwd into seat in front of her.
					Hit head; neck pain					
63	43	M	Bellevue	Walk in		4	4		Minor	hand was struck or crushed by something
					Hand pain/swelling					
64	40	M	Bellevue	City Ambulance		3	3		Minor	Standing; others crashed into his right knee, knee gave way
					knee sprain					
65	29	M	Downtown	Walk in	Ankle sprain	5	3		Minor	
66	38	M	Bellevue	MassTransit		4	4		Minor	Pushed into metal door (Back against door).
					Shoulder strain and abrasion					
67	35	M	Bellevue	Other ambulance		3	3		Minor	Rear facing in front of boat; rail hit right quad
					Muscle pain - R thigh, neck, face					
68	56	M	NY-Presbyt	EMS		5	3		Minor	Thrown fwd down 4 or 5 stairs
					Back pain; right hand abrasions					
69	39	M	NY-Presbyt	EMS					Serious Discharged 2/14/13	Face/head hit aft starboard stairway overhead as he fell down the stairway.
					Subarahnoid hemorrhage, intraparenchymal contusions; cervical spine fractures; multiple L side facial lacerations and facial fx; bilateral scalp lacerations; RUL collapse; csf teak/dural defect; polytrauma w L facial nerve injury and L lagophthalmos (Head Trauma; orbital/facial fractures, lacerations)					
70	40	F	NY-Presbyt	Walk in		3			Minor	Seated; hit head on seat in front of her
					Neck sprain					

**Seastreak Wall Street Allision Injury Table**

January 9, 2013, DCA-13-MM-005

71	41	M	LICH	EMS	Sprain - ankle; contusion - rib; Injury - waist	5				Minor	Half way down stairs, used hands to brace himself
72	38	M	Downtown	NA	Back Sprain	5				Minor	Slipped while carrying patient on board
73	56	F	No Record	NA	Right knee pain, Right face bleeding and hematoma					Minor	Head hit seat in front of her. (Patient 13)
74		F	No Record	NA	St Lukes NYPD					Minor	Chest bruises; neck and back pain
75			No Record								
76		M	No Record	NA	He emailed Witness.gov. Said he had minor bruising and cuts on his ankle					Minor	Standing on second deck, ended up in a pile of 5 or 6 people.
77		M	No Record	NA	Neck and back pain (Record 28C2)					Minor	Standing, hit head
					<b><u>Not attended to by FDNY</u></b>						
78		F	No Record		Bruised right Shoulder						
79	45	M	No record	NA	Knot on forehead, whiplash and bruises.					Minor	Thrown from seat on main deck into bulkhead
80	42	F	No record	NA	Swollen wrist, scraped/bruised knee.					Minor	Standing, thrown to deck

**New York City Fire Department Units Responding to the *Seastreak Wall Street Allision***  
January 9, 2013

Source: FDNY Incident Report 3-0040-0

A total of 53 apparatus were dispatched. Some units were told to return to station and others stood by on scene. See the FDNY incident report 3-0040-0 for a listing of all 53 units.

Unit <sup>1</sup>	Time on scene/ cleared <sup>2</sup>	Actions taken	Unit Location	Distance to Pier 11 <sup>3</sup>
Battalion Commander 04	0850/1134	Incident Commander. Reported 55 people removed to hospitals with two reported as serious.	25 Pitt St Manhattan, NY	3.0 miles
Ladder 15	0847/1147	Provide patient care, provide first aid and check for injuries. Provide Basic life support.	42 South St. Manhattan, NY	3.8 miles using FDR Drive
Engine 007	0850/1043	One of the first units on the ferry. Treated two severely injured passengers on deck and treated other passengers on a case by case basis.	100 Duane St Manhattan, NY	1.1 miles
Engine Company 55	0852/1043	Rescue and removal from harm, provide first aid and check for injuries and provide basic life support.	363 Broome St Manhattan, NY	1.5 miles
Ladder 18	0853/1225	Responded as cold water rescue truck. Surveyed area for persons in the water. Then assigned victim triage and removal. Performed secondary searches of entire ferry.	25 Pitt St Manhattan, NY	3.0 miles
Ladder 001	0850/1139	Assessed and verified vessel was secured. Began conducting primary searches and patient triage, patient removal from vessel to casualty collection point. Transported patients from collection point to ambulances.	100 Duane St Manhattan, NY	1.1 miles
Engine 018	0854/0951	Brought medical equipment, stokes baskets and backboards. Began triage of passengers on first deck forward and aft. Suggested to Incident Commander that he establish a casualty collection point. Based on information from crew, relayed to IC that vessel not taking on water. Assisted ambulatory and non-ambulatory passengers off the vessel.	132 W.10th St Manhattan, NY	3.4 miles
Marine Unit 01	0854/1205	Provide patient care, first aid and check for injuries, Provide basic life support.	Foot of Bloomfield St, North River Manhattan, NY	3.3 miles

<sup>1</sup> The normal manning of a unit consists of the members of the company on call during a given tour, consisting of a Lieutenant or a Captain plus a number of firefighters depending on the type of unit: 3-4 firefighters on an engine company, 5 on a ladder company, (also known as a truck company), 5 for a rescue company, 5 for a squad company, 4 for a marine company, and 6 for the hazardous materials company.

<sup>2</sup> The accident occurred at 0941 EST and the NYFD initially dispatched units at 0943 EST.

<sup>3</sup> Distance determined using unit address and the shoreside access to Pier 11 in Manhattan, the location of the allision. Tool used: Bing Maps Driving Directions.

**New York City Fire Department Units Responding to the *Seastreak Wall Street* Allision  
January 9, 2013**

Engine 006	0855/1043	First responded to pier 17 based on early report. Proceeded to pier 11. Assisted ESU with boarding male at the bottom of staircase who had major trauma to the back of his head and face. Team split to assess patients and assist several people in middle and rear of vessel. Remained on-scene until all patients were transported to hospitals.	49 Beekman St.  Manhattan, NY	0.9 miles
Rescue 01	0859/1001	Assist in removal of numerous aided from vessel	530 W.43 St. Manhattan, NY	5.2 miles
Deputy Chief 01	0905/1203	Incident Command	100 Duane St Manhattan, NY	1.1 miles
Battalion Chief 01	0908/1006	Onboard supervision of all units.	100 Duane St Manhattan, NY	1.1 miles
Rescue Battalion 01	0911/1016	Performed structural survey of vessel.	750 Main St. Roosevelt Island, NY	
Engine 010	0911/1110	Treated a passenger knee injury on board the vessel. Transported boarded patients from dock to ambulance.	124 Liberty St. Manhattan, NY	0.8 miles
Ladder 010	0916/1015	Responded to scene with backboard, stokes basket and other EMS equipment. Assisted tending of patients and helped to remove patients from the vessel to the pier. Assisted movement of patients from pier to ambulance.	124 Liberty St.	0.8 miles
Battalion Commander 02	0918/0951	Victim removal coordinator. Confirmed all victims had been removed from the vessel.	363 Broome St Manhattan, NY	1.5 miles
Battalion Commander 06	0918/1040	Supervising moving of victims from the casualty collection point to ambulances.	108 E. 13 <sup>th</sup> St Manhattan, NY	2.8 miles
Engine Company 015	0918/1019	Stood fast at EMS triage area.	269 Henry St. Manhattan, NY	1.6 miles
Ladder 006	0918/1017	Secondary searches of vessel starting at top level and working down to main deck. All searches were negative.	75 Canal St Manhattan, NY	1.3 miles
Engine Company 024	0920/1035	Provide patient care, first aid and check for injuries and basic life support.(Dispatched at 0909 hours).	227 Avenue of the Americas Manhattan, NY	2.9 miles
Engine Company 033	0927/1155	Assisted in removal and monitoring of injured.	42 Great Jones St Manhattan, NY	2.2 miles
Battalion Commander 32	0930/1003	Resource staging leader.	31 Richards St. Brooklyn, NY	4.4 miles
Field Communication Unit 01	0934/1044	Standard Operating Procedure.	25 Rockaway Ave. Brooklyn, NY	8.2 miles
Tactical Support 01	0935/0940	Provide first aid and check for injuries and provide basic life support.	Roosevelt Island	9.1 Miles
Safety Battalion 01	0926/1127	Checked stability of the vessel. Found it was not taking on any water and was secured to the dock.	Brooklyn Navy Yard Brooklyn, NY	2.7 miles
Hazmat Battalion 01	0941/1032	Supervised incident command hazmat group.	750 Main St. Roosevelt Island, NY	9.1 miles

##



# National Transportation Safety Board

Washington, D.C. 20594

## PASSENGER STATEMENT

*Seastreak Wall Street* allision with Slip D2 at Pier 11 in lower Manhattan, New York, NY  
at approximately 8:41 am (EST) on January 9, 2013.

The National Transportation Safety Board, a Federal Agency, is charged by an Act of Congress with the investigation of transportation accidents. The Safety Board issues reports and makes recommendations to other federal and local agencies and to the maritime industry to prevent future accidents and to prevent unnecessary injuries caused by such accidents.

We would appreciate very much your assistance in giving us the benefit of your personal observations and comments regarding this accident so that we may better evaluate the facts, conditions and circumstances surrounding this accident. Your observations also could assist us greatly in our evaluation of the cause of injuries as well as the adequacy of equipment and procedures affecting your survival and escape.

In addition to completing the following specific information, please feel free to comment on any aspect, before, during or after the accident that you believe may have had a bearing on the accident cause or on subsequent events.

---

**Name:** \_\_\_\_\_ **Age:** \_\_\_\_ **Height:** \_\_\_\_\_ **Weight:** \_\_\_\_\_

**Occupation:** \_\_\_\_\_ **Telephone:** \_\_\_\_\_

**Injuries:** \_\_\_\_\_

---

**If you sustained injuries and were treated, please provide name and address of doctor or treatment facility:** \_\_\_\_\_

---

**My location at the time of the accident.**

Please mark the enclosed diagram to show us where you were:

- At the moment of Impact (Mark location with the letter "A").
- Then mark your location where you were after the Impact (Mark location with the letter "B").
  - If you were still in your seat, only mark the diagram with the letter "A".

*Seastreak Wall Street* allision with Slip D2 at Pier 11 in lower Manhattan, New York, NY on January 9, 2013.

- Please describe what you were doing in the few seconds just before the impact.** (Example: Reading the paper, computer, cell phone; texting; writing an email; conversing with another passenger; listening to music with headphones; reading “work”; nothing, standing, waiting in line to get off the vessel).
  
- Please describe what happened to you upon impact.** In particular:
  - We are looking for information as to how your body moved after the impact (direction, distance, severity).
  - In describing your movement, include how you incurred each of your injuries (Cuts, bumps, bruises, etc).
  - Can you recall what stationary objects or things you may have struck (chairs, stairs, tables, walls, fire extinguishers, etc)?
  - Did any moving objects strike you?
  - Did you strike or fall on anyone?
  - Did anyone strike you?
  - Immediately after the impact, were you on anyone? Was anyone, or more people, on top of you?
  - If you were standing in a stairwell, please make sure to tell us which direction you were facing (Forward, aft) and your approximate location within the stairwell (Ex: half way down, third step from the top.).

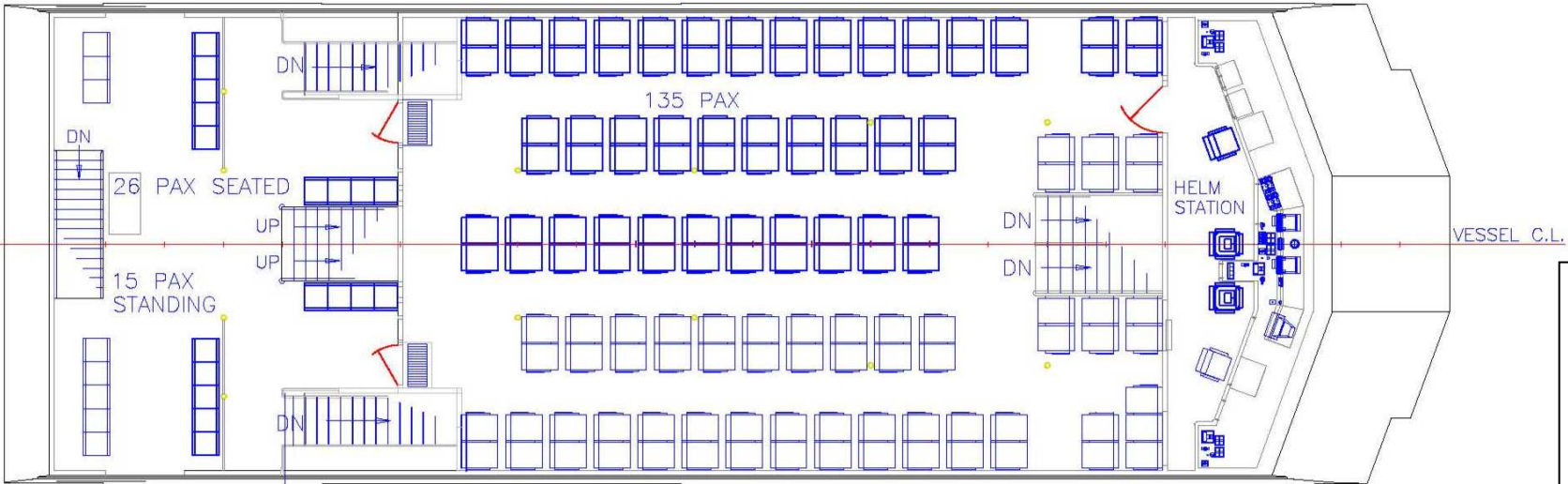
*Seastreak Wall Street* allision with Slip D2 at Pier 11 in lower Manhattan, New York, NY on January 9, 2013.

- If you were not seated.** If you were not seated at impact, please tell us why you were not seated at the time of the impact.
  - If you had been seated up until a few minutes before your estimated arrival, please explain the reason you left your seat (Ex: I had a 10 AM meeting and I wanted to be first in line to leave the vessel. Sometimes it can take me as long as XX minutes to get off the vessel.”)
  
- Your observations after the accident.** Describe what occurred to you after the impact until you left the vessel. Describe the behavior of other passengers, your observations of assistance by the crew and emergency responders.
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
- Any other information you wish to share?** Please feel free to comment on any other aspect of the accident or you may sketch the general accident scene as you observed it. (Example: Prior to the impact did you notice any unusual occurrences or noises during the trip on the morning of January 9)?

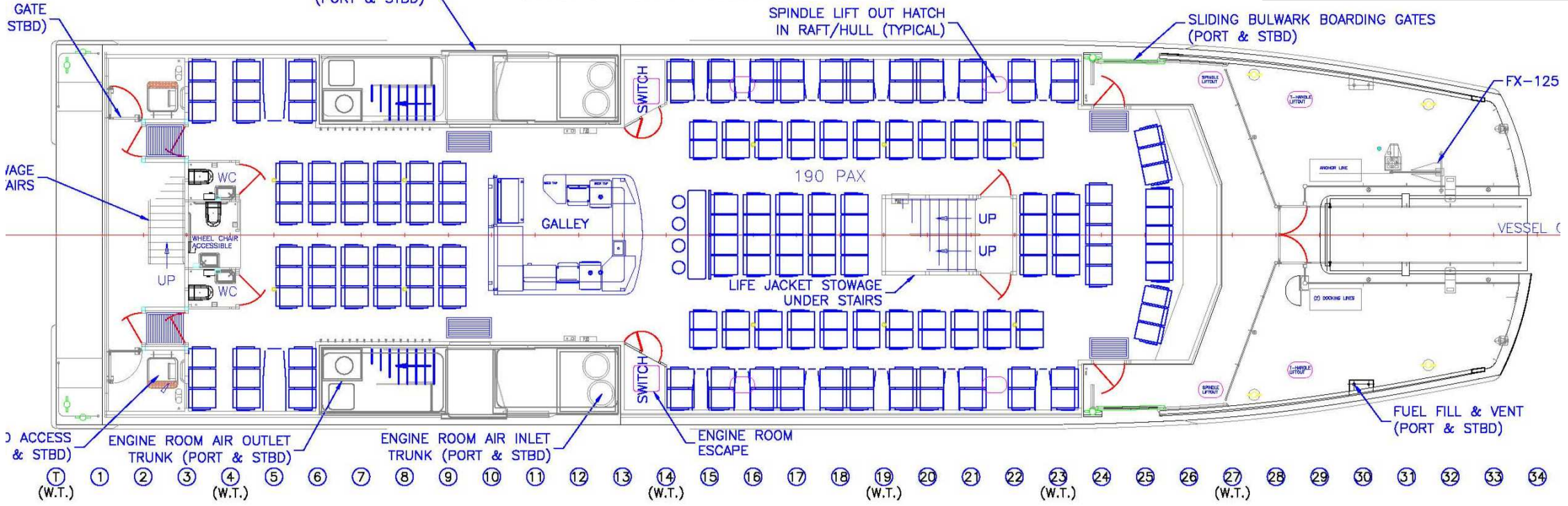
*If information does not fit in the space provided, please use the back of these sheets or add additional sheets.*

Passenger Vessel  
Seastreak Wall Street

- At the moment of Impact (Mark location with the letter "A").
- Then mark your location where you were after the Impact (Mark location with the letter "B").
  - If you were still in your seat, only mark the diagram with the letter "A".



PLAN OF UPPER PASSENGER DECK



PLAN OF MAIN PASSENGER DECK

Please print your name: Last, First \_\_\_\_\_