

Accident 170401574 - Employee Crushed Between Backhoe Bucket and Outrigger

Employee #1 had gotten off the backhoe he was operating and left the motor running. He was killed when he was struck by the backhoe and crushed between the bucket and outrigger.

Accident 170010078 - One Employee Killed, One Injured in Trench Cave-in

At approximately 4:00 p.m. on May 7, 2000, Employees #1 and #2, were working in a 15 ft wide trench. Employee #1 was checking the grade prior to installing a 10 in. diameter drainage pipe. The nearly vertical trench walls were approximately 15 ft tall on the east side and 17 ft tall on the west side, with an additional 8 ft of spoils on the west side. A portion of the east wall collapsed, burying Employee #1 up to his waist and pinning him against the west wall. He was killed. Employee #2 had been operating the backhoe most of the day; he sustained injuries that required hospitalization.

Accident 000837864 - Employee Burned When Natural Gas in Trench Ignites

Employee #1 and coworkers were in a trench installing water lines to homes. The backhoe excavator bucket struck a gas line, but they continued to work in the trench. Employee #1 began to light a cigarette when the spark from his lighter ignited the gas in the trench. A fire erupted and Employee #1 sustained burns.

Accident 17000094 - Employee's Leg Injured By Lowboy Trailer

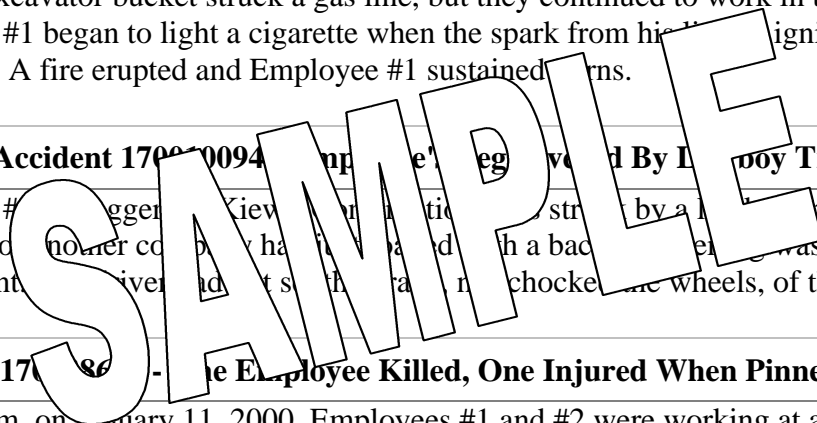
Employee #1 was struck by a lowboy trailer that an employee of another company had loaded with a backhoe. Employee #1 was amputated in the accident. The backhoe was on the lowboy trailer and struck the wheels, of the lowboy.

Accident 17000094 - Employee Killed, One Injured When Pinned By Backhoe

At 6:00 p.m. on January 11, 2000, Employees #1 and #2 were working at a construction site. The operator of a Case 590 SL backhoe was preparing to excavate a small hole. The operator lowered the front bucket and then swung the seat around to face the backhoe controls. He then throttled up, and the backhoe traveled forward, striking Employees #1 and #2 and pinning them against a flatbed trailer. Employee #1 was killed and Employee #2 suffered a broken leg.

Accident 126008762 - Employee's Leg Injured When Struck By Swinging Pipe

On July 21, 1999, Employee #1 was in a 6 ft deep excavation helping to guide a section of 12 in. diameter by 20 ft long PVC water pipe being lowered into the excavation using a Case 580E backhoe. The employer was operating the backhoe, and the pipe was attached to the backhoe bucket with slings; Employee #1 and a coworker were guiding the pipe with tag lines. The employer lowered the pipe faster than anticipated or desired, apparently because of the position of the backhoe's boom. The pipe jerked and lowered faster than the coworker with the tag line could control its movement. The pipe swung around excessively and struck Employee #1, fracturing his femur, injuring his neck,



lacerating his head, and bruising his chest. Causal factors of the accident were the employer's failure to maintain control of the pipe while it was being lowered, and the workers being too close to the pipe as it was being lowered. Employee #1 was both experienced and well-trained.

Accident 000883876 - Employee Killed When Run Over By Loader/Backhoe

Employee #1 was struck by a backhoe/loader as it was backing up. He fell beneath the tires and was killed. The backhoe had an operating back-up alarm and had traveled approximately 100 ft before the accident occurred.

Accident 000519124 - Employee Killed When Crushed Between Backhoe and Container

At approximately 2:30 p.m. on August 21, 1998, Employee #1 and a coworker were loading a case 580E backhoe into a 40 ft intermodal container. The exhaust pipe was too high to allow the backhoe to enter. While the backhoe operator remained in the cab with the engine running and in gear, the two employees climbed onto the hood of the backhoe and attempted to bend down the exhaust pipe. The coworker then stepped down into the cab but slipped onto the accelerator, causing the backhoe to move forward. Employee #1 became pinned between the canopy of the backhoe and the top edge of the container. He sustained multiple rib fractures and lacerations to his heart and liver; he died shortly after the accident.

Accident 126785815 - Employee's Leg Fractured When Caught Under Outrigger

Employee #1 was in a trench installing a drainage pipe. At the same time, a coworker was operating a backhoe to excavate material from the trench. The backhoe operator was positioned on the opposite wall. The backhoe operator was not aware of the trench. Employee #1, a public works inspector and emergency services coordinator, was taken to Logan Regional Hospital for observation.

Accident 170701106 - Employee's Leg Fractured When Caught Under Outrigger

Employee #1, a construction laborer at a pipeline project, was standing approximately 10 ft from a tractor with a backhoe attachment that was being driven by a foreman. He asked the foreman a question and the foreman turned, answered him, and then turned back again. The foreman then lowered the bucket to raise the tractor and to move slightly forward; this is normal procedure and the extended outriggers move forward also, slightly above the road surface. Employee #1 did not notice this movement as he approached the tractor and his lower left leg became caught under one of the outriggers. He suffered a compound fracture, for which he was hospitalized.

Accident 170132336 - Employee Killed When Knocked Into Trench By Falling Load

At 3:15 p.m. on or about September 17, 1997, a crew had finished a portion of a trench. One backhoe operator attached the aluminum shoring and lifted it out of the trench, while

Employee #1 was standing close by. Another backhoe operator then asked Employee #1 to connect a chain to the shoring, so he could drag it to another location. While the shoring was being dragged, it hit a piece of asphalt, fell over, and struck Employee #1, causing him to fall backward into the trench. The Portland Fire Department's trench rescue team responded, as did an ambulance. Employee #1 was pronounced dead at the scene.

Accident 200710267 - Employee Crushed and Killed When Backhoe Overturns on Slope

Employee #1 was operating a Case 580I backhoe with a bucket full of white rock. He was descending an embankment at an angle when he decided to get off of the backhoe. After Employee #1 dismounted, the vehicle started to tip. The backhoe then overturned, striking him in the upper back, between the shoulder blades and below the neck. Employee #1 was killed. The backhoe was equipped with a roll-over protection system.

Accident 201400942 - Auger Ruptured A Gas Line

A power line crew was relocating a utility pole. After using a backhoe to excavate a 300- to 460-millimeter-deep hole, one of the workers started to dig by hand but found the ground was too hard. The crew then used an auger, and it struck a gas pipe. Apparently, no one was injured.

Accident 014410443 - Employee Struck and Killed by Backhoe Bucket

Employee #1, a laborer, was working in a 10-foot wide by 7-foot deep trench. A backhoe operator had excavated a hole in the concrete foundation about 5 feet across and about 5 feet deep. The backhoe operator was scooping dirt into the hole until enough had accumulated to allow the operator to scoop out. The operator brought the backhoe bucket in to the trench about 2 feet from the bottom. Unintentionally or intentionally, the operator left the bucket left about 10 feet to the east end of the trench, pinning Employee #1 against the foundation of the adjacent building. He was killed.

Accident 014269161 - Employee Injured When Struck By Backhoe Bucket

Employee #1 was using a hand shovel when he was struck with the bucket or arm of a backhoe. He was injured but did not require hospitalization

Accident 200020444 - Contact With Overhead Line Thru Boom

A construction crew was using a Case backhoe-loader (Model No. 580K). The backhoe operator moved the backhoe under a 240/120-volt overhead power line, and the boom contacted the power line. The boom damaged the line conductors and a weatherhead. The conductors broke away from the weatherhead, and the operator jumped off the backhoe. Fortunately, no one was injured. An employee that was allegedly being used as a spotter

was about 7.6 to 9.1 meters away from the **backhoe** at the time of the accident. He had been hand shoveling when the accident occurred. The employer had contacted the owner of the overhead telephone and alarm lines before this incident.

Accident 201520129 - Employee in Trench Injured By Falling Concrete Curb

A construction laborer working on an underground power line project was in a trench. The trench was less than 1.2 meters deep. A concrete curb was located about 450 millimeters from the trench. The supervisor on the job recognized the potential for cave-in and had the curb braced with two-by-fours. One end of a stud was braced behind the back of the curb and the other end was braced to an existing concrete structure in the trench (probably the concrete cap poured over the existing gas utility). The **backhoe** operator saw the employee in the trench and turned his head to dump his bucket of soil. When the **backhoe** operator looked back, the curb was on top of the laborer's legs. He sustained bilateral leg fractures. By the time emergency medical services arrived, the curbing had been lifted from the injured employee's legs by the **backhoe** and chain. The laborer was hospitalized for 3 days for his injuries.

Accident 170758890 - Employee Killed When Struck By Falling Backhoe Boom

Employee #1, of Wright Brothers Construction, was using a Caterpillar **backhoe** to excavate an area for water drainage. He apparently struck a window, knocking out the glass on the right side of the cab. With the boom in a vertical position, Employee #1 leaned out of the right side of the driver's cab, either to look for a pipe or to retrieve a bucket. He accidentally struck a joy stick on the right side of the cab, which raised and lowered the boom and opened the bucket. The boom fell and struck Employee #1 across the neck and shoulder, resulting in a broken neck and

Accident 200020352 - Employee Killed in Fall From Backhoe Bucket, Later Dies

Employee #1 was riding in the bucket of a rubber-tired **backhoe** when he either dropped or fell 8 ft onto the asphalt. He was air-evacuated to the hospital, where he underwent emergency brain surgery the next day and had one-quarter of his brain removed. Employee #1 died on Tuesday, June 3, 1997.

Accident 170204838 - One Employee Killed and One Injured in Gas Line Fire

At approximately 11:35 a.m. on May 15, 1997, Employees #1 and #2, of K. J. Woods Construction Company, were excavating at a street intersection to repair sewers. Employee #1, who was operating a **backhoe**, struck a gas line that was not marked on the city drawings provided to the company. Approximately two minutes later, they smelled what they believed to be residual gas (a common smell in excavation activities), and stopped the operation. There was no hissing sound and no disturbance or dirt around the pipe commonly associated with an active gas line break. Employees #1 and #2 and the leadman believed they had hit an abandoned gas line. Their employer told them to stop and he called the 800-number for Pacific Gas & Electric. At approximately 11:45

a.m., there was a sudden gas surge, which ignited. The hood on the **backhoe** was open, and the **backhoe** along with Employees #1 and #2 become engulfed by flames. They were treated for second- and third-degree burns at San Francisco General Hospital and St. Francis Hospitals. Employee #1 died one month later of complications from his burn injuries. Upon reviewing the drawing provided by the city, it was noted that the gas line was labeled as abandoned and was flanged off prior to the intersection. No street marking showed the live 4 in. gas line. The gas line burned for approximately 3 hours before Pacific Gas & Electric found the valve to cut off the gas.

Accident 014431639 - Employee Killed When Crushed By Loader/Backhoe

Employee #1 was moving a tractor **loader** /backhoe onto a trailer. He left the operator's position while the engine was running and the work units were off the ground. When the tractor **loader** /backhoe rolled off the trailer, Employee #1 became caught against the bottom of the tractor and the ramp of the trailer. He was crushed and killed.

Accident 200960995 - Employee's Leg Injured By Falling Backhoe Track

Employee #1 was lying down on his right side, cleaning the rollers on the right side of a bulldozer. At the same time, his supervisor finished putting in the pin for the other track and a coworker was repositioning the **backhoe** to install the track. The supervisor was coming around the bucket when he saw the **backhoe** track with the bucket as he was backing up. The supervisor on over the **backhoe** placed him out of the way. The track fell over, injuring Employee #1. He sustained injuries that required hospitalization.

Accident 200050128 - Employee Killed When Struck By Rolling Backhoe Bucket

Employee #1 worked for a company that installed sanitary piping. A coworker was digging a trench to complete the installation of the piping when the bucket fell off the **backhoe**. It hit the bottom of the trench, and began to roll. Employee #1 was working in the trench box when he was struck by the bucket. He sustained injuries that required hospitalization.

Accident 200670644 - Employee Run Over By Backhoe, Dies of Heart Attack

Employee #1 was trying to start a **backhoe** that was in gear, while standing on the ground next to it. When the engine engaged, he was run over by the rear tire. Employee #1 was transported to the hospital, where he suffered a heart attack and died the next day.

Accident 014408777 - Employee Killed When Caught Under Falling Backhoe and Earth

A supervisor backed a **backhoe** into an excavation. It landed on Employee #1, killing him.

Accident 201570090 - Employee Killed When Struck By Loader Bucket

In 1997, Employee #1 was working close to where the owner of the company was preparing to transport a Case **loader** /backhoe to another site. The owner drove the machine onto a flatbed trailer and lowered the **backhoe** bucket onto the bed. He then inadvertently activated the control that lowered the loader bucket, which crushed and killed Employee #1. The operator was not aware that Employee #1 was between the trailer and the loader bucket.

Accident 170894794 - Employee's Ribs Fractured When Struck By Falling Pipe

Employee #1, a truck driver for Commercial Transfer, Inc., was delivering a load of 20 ft long by 12 in. diameter PVC pipe to a construction site. He inspected the load to make sure the steel bands holding the pipes were still attached, and then removed the chains from the load. Employee #1 moved away from the truck to roll up his straps. As a **backhoe** operator began to unload the pipes, the steel bands broke and the pipes rolled off the truck. One pipe struck Employee #1 in the chest while another landed on his ankle. He sustained two broken ribs.

Accident 201400389 - Employee Killed When Struck By Backhoe Bucket

Employee #1 was struck by a backhoe bucket and pinned against an excavation wall. He was killed.

Accident 100000000 - Employee Killed When Struck By Backhoe Bucket

Employee #1 was working with a **backhoe** operator on an excavation to prepare a work site for the installation of concrete forms. In the process of digging up dirt and old asphalt, the **backhoe** severed a buried telephone cable, interrupting phone service to a nearby laundromat. The telephone repair service was called and the crew then continued working on the site pending arrival of the repairman. They also decided to temporarily splice the cable wires back together so the laundry could continue using its phone. After all the digging was completed, the **backhoe** operator moved his vehicle aside and away from the excavation to allow room for Employee #1 to move the company dump truck out of the way. The **backhoe** operator and the owner of the laundry then began preparing the cable wires for splicing. When Employee #1 returned from moving the truck, he joined them. While they were working, the **backhoe** rolled back toward the excavation and traveled over the its 8 in. lip. Its rear bucket and arm were extended, and the bucket struck Employee #1 in the back with so much force that it also knocked aside his employer. Employee #1 said, "It broke my back," and then he began to have difficulty breathing. A coworker called 911, and the laundry owner administered CPR until EMS personnel arrived. Employee #1 was transported to the hospital, where he was pronounced dead. The **backhoe** operator stated that he had shut down the engine and left the **backhoe** on its outriggers, with its front bucket down and the brakes set. He also said that in the aftermath of the accident he noticed that the outriggers and brakes were not as he had left them. This raised the possibility that Employee #1 didn't have enough room to get the truck past the **backhoe**, and had retracted the outriggers and/or released the brakes to make more room for the truck to pass. No one on the site heard or saw the **backhoe** move until the accident took place.

Accident 000642827 - Employee Killed in Trench Collapse

Several employees were installing a 30 in. steel water line in a trench approximately 75 ft long by 14 ft wide by 9 ft deep. To protect the employees from cave-ins, four steel plates approximately 14 ft long, 8 ft wide, and 1 1/4 in. thick were installed with a **backhoe** alongside the banks of the trench and 1 to 2 ft deep at the bottom of the trench. The employer, however, did not install horizontal bracing. As a result, the bank behind one of the steel plates collapsed, causing the steel plate to tip over. Employee #1, who was welding a pipe joint at the time, was struck by the steel plate. He suffered multiple fractures and trauma, and was pronounced dead a short time after the accident.

Accident 200050045 - Employee Killed By Falling End of Metal Tank

Employee #1 and coworkers were dismantling large metal tanks. This process involved cutting loose the ends of the tanks and having a **backhoe** push the ends into the hollow center of the tank. A **backhoe** was pushing on a loose end piece when it broke away and fell on Employee #1. He was killed.

Accident 201400496 - Employee's Leg Pinned by Backhoe Bucket

Employee #1 was working on an excavation site at a water plant. The operator of a **backhoe** was to a marker to level the ground. The operator's sleeve on the motion control lever caught on a pipe. Employee #1 was struck in the legs when the bucket fell on him, pinning him against a water pipe.

Accident 1710470 - Employee Injured While Being Lowered Into Trench Box

Employee #1, age 30, of the West Jordan City maintenance department, and two coworkers, of Speck Construction, Inc., were riding a 72 in. manhole cone that was being lowered into a trench box by a **backhoe**. The men were riding the cone to give it some balance, which it needed because it was missing a chain and bracket. The manhole cone tilted while it was being lowered, pinning Employee #1 between a support chain and the cement manhole wall. He sustained multiple serious injuries, for which he was hospitalized.

Accident 171054695 - Employee Twists Knee While Riding Backhoe Load

Employee #1 and a coworker, both of Speck Construction, Inc., and a West Jordan City maintenance worker were riding a 72 in. manhole cone that was being lowered by a **backhoe** into a trench box. They were riding it to provide some balance because it was missing a chain and bracket. As it was being lowered, the manhole cone tilted, pinning Employee #1's hand between the city worker and the chain. Employee #1 lost his balance, twisting and spraining his right knee. When the cone tilted, the city employee became caught against the cement side of the manhole, and sustained serious injuries.

Accident 200000131 - Employee Killed in Backhoe Accident

Employee #1 used a **backhoe** without the owner's permission while the owner was away from the site. The owner found him next to the overturned **backhoe** in a ravine a day after he was reported missing. The sheriff listed the cause of death as internal injuries. OSHA had no jurisdiction over this incident.

Accident 170566848 - Employee Killed When Excavation Caves in

At approximately 3:15 p.m. on October 15, 1996, Employee #1, age 20, and two coworkers were repairing a water pipe in a 10 ft deep excavation. A large section of the west wall and a section of the south wall collapsed, completely burying Employee #1 under 1 1/2 to 2 feet of sand, and burying his coworkers to their waists. A **backhoe** operator working nearby began digging out the two standing coworkers while yelling to another coworker to call 911. When the buried men were freed, they began digging for Employee #1, and were soon joined by fire and other emergency personnel. Employee #1's head was uncovered first, and the rescuers attempted to get him breathing while the rest of his body was dug free. Employee #1 was pronounced dead at the scene at 4:26 p.m. Apparent hazards identified at the site included an accumulation of water, lack of proper sloping of the excavation walls, inadequate protection of excavation surface, and obstructed egress.

Accident 17024260 - Employee Killed When Pinned Against Building

Employee #1 was working on the exterior of a building under construction, was using a Bobcat with a **backhoe** attachment to dig in a steel covered garage (carport). He apparently backed the Bobcat into the covered carport area, ducking under the header as he did so. For some reason the Bobcat then moved forward, pinning his head and neck between the rollage and the siding covering the header for the carport. Employee #1's head was crushed, and he was killed.

Accident 000755918 - Employee Killed When Run Over By Backhoe

Employee #1 was working alone, replacing an orbital steering valve on a **backhoe**. The **backhoe** was in low range, the forward pedal was engaged by placement of two wrenches, and the engine was running. Apparently, he inadvertently struck the gearshift lever, causing the machine to move forward approximately 5 ft. Employee #1 was struck by the **backhoe** and his chest and abdomen were crushed. He was also run over by the machine. Employee #1 died as a result of these cumulative injuries.

Accident 170608202 - Employee's Knee Fractured When Struck By Falling Rock

On September 25, 1996, Employee #1, a laborer, was placing rocks from a sloped stockpile into another pile. The rocks were being selected and then transported by a Case 590 **backhoe** to use as slope protection in V-shaped drainage ditches at a ski resort. A 1 ft diameter rock from up the sloped pile became dislodged and struck Employee #1 on his left knee. He was hospitalized with a fractured knee.