Four escape injury in Colfax hazardous-materials incident.

By Gloria Beverage Gold Country News Service

Four people escaped serious injury Thursday morning after inhaling a small amount of poisonous fumes at a Colfax water treatment facility.

At about 9 a.m., reported Placer County Water Agency, risk manager Bryant Newcomb, a Sierra Chemical Co. truck driver arrived to deliver sodium hypoclorite to PCWA's water treatment facility on Pleasant Street.

Instead of hooking up to the appro-

private tank, the driver apparently began County Sherriff's Sgt. Dan Wilson. pumping the chemicals into tank filled with aluminum sulfate creating a mixture of poisonous fumes, Newcomb said.

The driver and a PCWA employee, Mike Williams, were transported to Sutter Auburn Faith Hospital "as a precautionary measure" after inhaling a small amount of chlorine gas. Newcomb said. Both were later released.

Colfax volunteer firefighters, Mike Viscie and Agnie Hannah were the first emergency personnel to arrive on the scene and assisted in shutting down the tanks, noted Placer

While Viscie and Hannah were treated at the scene for minor respiratory problems, both later complained of chest pains and were transported to the hospital, reported Fire Chief Scott Brady.

With the chemicals quickly stabilized, only two nearby residents had to be evacuated for a short time, Sgt. Wilson

The Colfax Volunteer Fire Department Environmental Health and AMR Ambulance also responded to the scene.

outbreak may be different than ınd again in late August. iltration Plant first in late July he new Prospect Water Dyprosporidium broke through perations at Sydney Water lorp. Giardia and The cause of the second

near the Prospect facilities." intermittent pollution at or immediate action on the tor more investigation and for clearwells. The report called groundwater into the inflow of contaminated infested pipeline or from contamination from a batat the plant and downstream discounts all but two: problems of the contamination and 19, details five possible causes The report, released August investigator Peter McClellan. report on the first alert, said those discussed in an interim "continuing source of

of contamination" did justify a and in some cases extreme levels said McClellan, but the "high all detected parasites were dead, public of potential health responsibility of notifying the major health concern. Sydney first outbreak, possibly because illnesses were attributed to the Water has since yielded the department. problems to the health No related waterborne

from E. coli problem Alpine recuperates

confidence July 28 when Gov. Jim Geringer drank a glass of Alpine, Wyo., got a boost of

> a recreation center, and homes. medical clinic, day care center,

confirmed cases, many of them contaminated wildlife fecal a nearby corral or said the source will probably epidemiologist Gayle Miller visitors from other states. State water. The spring, which primary source of the town's the spring that had been the but a backflow from a trough at never be absolutely confirmed. said Miller, remains closed. influence of surface water," "appears to be under the matter could have washed into The official toll rose to 64

Austin suburb Crypto grips

confirmed cases and about 500 sickened up to 1,300 people, cryptosporidiosis outbreak in were contaminated after Municipal Utility District wells Four of five Brushy Creek health officials say, based on 53 Brushy Creek, Texas, probably concentrated raw sewage 170,000 gal (640,000 L) of and at least 24 private wells people reporting symptoms. A late July waterborne

> must continue to use an which serves 6,000 residents, and Prevention are also alternate source until filtration ordered. Investigators from the is installed on the wells, the Centers for Disease Control Conservation Commission has Texas Natural Resources and NOCK. The utility,

completing outbreak studies. 10 in Michigan Chlorine leak injures

600 gal (2,300 L) of sodium delivery truck dumped about aluminum sulfate, causing the investigating how and why a water treatment plant and release of chlorine gas into the containing 400 gal (1,500 L) of hypochlorite into a 2,300-gal although water continued to process to be stopped at the accident forced the treatment kept overnight). The July 21 hospital for treatment (one was sending 10 people to the (8,700-L) pressurized tank finished water reservoirs. boosted service. Other area providers also flow to customers from Lake Michigan water plant, Holland, Mich., officials are

> terms and conditions of the variance within five years. Also, variance technologies might not achieve compliance but must achieve life of the variance technology, systems must compay with this fordable for its size and source water quality. the maximum contaminant reduction or inactivation that is af-

ances for such contaminants would be available if USEPA tightens available for microbial contaminants or their indicators or for conthem in the future, but only up to pre-1986 levels). taminants regulated before 1986 at the pre-1986 standard (vari-As mandated by the SDWA, small system variances are not

protective of health (required guidance will discuss the basis for such a finding). States must also determine on a site-specific basis lists affordable variance technologies it has found to be generally systems following completion of an exemption term. tions) and set terms and conditions to ensure such protection. that the chosen variance technology will adequately protect health USEPA has opted to dissuade states from granting variances to (including consideration of special risks to sensitive subpopula-USEPA will provide guidance to help states make such decisions Also, small system variances can only be issued when USEPA

Small system technologies

existing regulations in three size categories of small systems. The affordable technologies that can be used for compliance with 80 nologies. USEPA also adds applicability information for listed list of technologies is an update of the August 1997 list for the Surunits for inorganics, synthetic organics, and radionuclides. nologies for all other existing regulations, including point-of-use compliance technologies listed in 1989 and lists compliance techtechnologies, including required operator skill levels. Additionally, but rejecting point-of-entry devices and certain emerging techface Water Treatment Rule, adding backwashable depth filters USEPA says small systems must use the Total Coliform Rule In the August 6 Federal Register, USEPA published a notice of

seeks comment on its new variance analysis methodology, deexemptions based on state-level affordability criteria. USEPA stall the "affordable" compliance technologies could get relief via pay up to 2.5 percent of median income for water) or are ineligiunder national-level criteria (which assert households can afford to regulations, claiming all have affordable compliance technologies scribed as an "initial screening effort" subject to revision ble for variances. The agency notes systems that can't afford to in-USEPA has not identified any variance technologies for current

Accident Releases Lethal Gas

chemical accident at Mattawoman Wastewater Treatment Plant (Mason Springs, Md.) on June 14 generated chlorine gas that led to the evacuation of the 22 area residents. Seven people at the accident site had to be treated at a La Plata, Md., hospital.

The incident began shortly before 7:45 a.m., according to Charles County spokesperson Nina Voehl. A tanker truck delivering ferric chloride to the facility pumped about 400 gal (1500 L) of the chemical into a sodium hypochlorite tank. The chemicals mixed and produced chlorine gas, which escaped the indoor tank and spread throughout the 40-ft \times 50-ft (12-m \times 15-m) building. The gas also escaped the building, extending about 20 ft (6 m) on each side and drifting south about 100 ft (30.5 m) from the building, said Jerome Michael, facility director.

Mattawoman uses ferric chloride to precipitate phosphorus, while sodium hypochlorite is used for effluent disinfection. The two chemicals are never mixed intentionally in the facility's operation. However, mixing them produces chlorine gas, which burns the lungs and interferes with respiration. Short-term inhalation of the gas can cause burns, difficulty breathing, headache, dizziness, bluish skin color, and lung damage, according to the chemical's material safety data sheet.

Five Mattawoman employees, the delivery truck driver, and another delivery person were exposed to the fumes and went to Civista Medical Center (La Plata, Md.). All were treated and released, except the chemical delivery driver who remained overnight for observation. Everyone who came in contact with the fumes went to the hospital "for safety's sake," according to Voehl. .

County officials evacuated a 0.5-mi (0.8-km) area surrounding the facility as a precaution, Voehl said. The 22 people cleared from their homes were allowed to return almost immediately once the extent of the problem was assessed, she said.

The Mattawoman personnel relied on their training to deal with the incident by evacuating the area and alerting the proper agencies. Personnel followed the facility's emergency response plan for hazardous chemicals, Michael said. Calls were made to 911, the office of emergency risk management, and the director of emergency management. Regional hazardous materials teams responded to the incident and contained the gas.

"A lot a people here pitched in to help and make sure everyone was receiving the aid they needed," Michael

How the chemical was put in the wrong tank still is under investigation, Voehl said. At press time, no possibilities had been ruled out, but Voehl indicated that the accident might have resulted from a miscommunication or a mistake by the delivery driver.

- Steve Spicer, Operations Forum

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Subject: Workers hospitalized after chemical reaction at water plant

Posted at 8:58 p.m. EST Tuesday, February 29, 2000

Workers hospitalized after chemical reaction at water plant

NASHVILLE, Tenn. - (AP) -- An accidental mix of odor control chemicals at a downtown

water treatment plant

Tuesday created a toxic cloud that sickened about 30 workers.

A contractor driving a tanker poured a chemical in the wrong tank about 10 a.m., said David Tucker, spokesman for the Metro Water Services. The chemical reaction formed chlorine vapors.

About 50 workers were evacuated. Some complained of eye, throat and nose irritation, and had trouble breathing.

The most seriously affected were given oxygen by paramedics and taken to area hospitals where they were treated and released.

The tanker driver pumped sodium hypochlorite, a bleach used for odor, into a tank with the residue of ferric chloride, another odor control chemical, Tucker said.

Hazardous materials workers removed the hose from the tank and reopened the building after about an hour. Tucker said the incident was being investigated.

HYPO ACCIDENT

PITTSBURG **Warning lifted**

in Calpine leak

An advisory for Pittsburg residents who live near the Calpine

power plant to stay indoors has been lifted.

People in more than 100 Pittsburg homes were asked to stay inside Thursday morning as a precaution after a chlorine gas leak at the Calpine plant on East Third Street about 9:30 a.m.

Three Calpine workers were taken to the hospital after they apparently inhaled some of the gas, said Contra Costa County Fire Protection District spokeswoman Emily Hopkins. She did not know their condition.

Hopkins stressed that readings outside the building where the leak occurred — and farther away — did not detect any gas.

Randy Sawyer, director for the

county's hazardous materials program, said workers at the plant accidentally mixed acid with bleach, creating chlorine. Hopkins said officials believe they created about 600 pounds of chlorine.

"It was definitely a mistake. I think they hooked up a delivery truck to the wrong tank, but I don't know for sure," Sawyer said.

Officials said the county activated its telephone notification system to warn residents in about 106 homes north of the plant, near the Antioch border.

- Marisa Lagos

SAN FRANCISCO CHEONICLE 5/24/07 REPORTED AS "CHLORINE GAS LEAK" ON RADIO & TV