

THE MEMPHIS DEPOT TENNESSEE

ADMINISTRATIVE RECORD COVER SHEET

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Depot buried German bombs

The Commercial Appeal By Tom Charlier

Day after hectic day, workers at the old Defense Depot Membis battled intense heat and led German mustard gas bombs that had left a trail of risked chemical burns as they anloaded, neutralized and burchaos all the way from the Gulf cast.

That was July 1946.

now-closed depot are preparing for an operation that no These days, overseers of the

work and safety plans for the operation. Because no one's sure exactly what the digging will turn up, the excavation area will be enclosed in a tent. Yet, for all the trouble indoubt would have dismayed those soldiers and civilian workers of 53 years ago — dig-

knowledge they've been unable "It's in the middle of a city," alone, it would present a signif-icant danger. But there is an cal materiel, base officials acto find any evidence that, left overriding reason for the revolved in removing the chemimoval, they say tard bombs are among the chemical-warfare materiel to Along with some gas training be excavated at the depot this year. It's part of an effort by cluding those buried at depots that are being transferred to kits, the remnants of Nazi musthe Pentagon to get rid of "non-stockpile" chemical agents, inging the bombs back up.

Since fall, a Huntsville, Ala., contractor has been preparing nonmilitary uses.

potential environmental threats having nothing to do with chemical warfare materi-South Memphis has been dealing with a variety of real and

cials are assessing broader plans to clean up hazardous Those problems, first outlined in a 1992 report, include industrial solvents found in ground water and pollutants in soils water began last year, and offiand surface water. The extraction of contaminated ground wastes on the base.

Meantime, the federal Agency for Toxic Substances and Disease Registry has been

said John DeBack, base transi-

tion coordinator at the depot.

Since its closing two years ago, the 640-acre depot in

updating its studies of possible health problems facing residents living near the depot. So far, officials have found "noth-ing to suggest there's a causal relationship" with the facility, said Dr. Rueben Warren, associate administrator for urban

Concerns from neighboring residents helped ensure that the chemical warfare materiel affairs with the agency

but I think it should be done with caution," said Mondell Williams, a community leader "I think it should be dug up, would be removed.

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who is co-chairman of the Restoration Advisory Board, which is participating in the cleanup planning.

During its nearly six decades of service, the depot was never a major storage or staging area for chemical weapons. But some agents ended up there lit-

erally by accident.

On July 13, 1946, eight rail cars filled with captured German mustard bombs were moved to a yard in Memphis while en route to Pine Bluff Arsenal in Arkansas. Although chemical agents weren't used in World War II, the Germans had stockpiled bombs containing mustard, an agent that can blister the skin, eyes and lungs.

The cars were part of a shipment of bombs that had left Theodore, Ala., a few days earlier. The bombs, improperly loaded and coated with thingauge metal, had a tendency to leak, according to records examined as part of the depot cleanup project.

Leaking bombs previously

had been dumped in the Gulf of Mexico, and, later, had resulted in injuries to workers and service personnel in Amory, Miss.

In Memphis, authorities discovered that three of the eight cars were leaking. They decided to move the cars to the depot, where workers — many wearing stifling protective suits — unloaded the bombs and began decontaminating the railroad tracks.

Under the direction of ordnance experts, crews then prepared a slurry of lime bleach to neutralize the mustard and dug a 30-foot-long, 12-foot-deep pit in Dunn Field, a disposal area on the north end of the depot. Workers placed bombs over the pit and shot holes in them to drain the mustard into the slurry.

At least 29 bombs were disposed of, the records show. A total of 21 rail and depot workers were hospitalized for burns

and other injuries.

In addition to the bombs, the depot disposed of chemical agent identification kits in Dunn Field. The sets, used by the military from 1928 to 1969, typically consisted of glass vials or bottles containing low concentrations of such agents as mustard and lewisite gas.

"They would bring (soldiers) into an enclosed area, like a quonset hut," said Shawn Phillips, environmental coordinator at the depot.

"They'd break the vial and let the soldiers smell it. They'd say, 'If you smell this on the battlefield, don your chemical-warfare gear.'"

The chemical identification kits are buried at installations across the nation. At the request of the Army, the National Research Council is conducting a study of the environmental, technical and economic issues involved in the program to excavate and dispose of the kits.

Study director Tracy Wilson said the training sets shouldn't present a significant danger to public health or the environ-

ment.

"These . . . were not designed for lethal purposes. That certainly reduces the hazards right there," Wilson said. "Typically, these things are in

glass containers and sealed up

pretty well."

Retired depot employee Charles E. Anderson, who worked as an inspector in the chemical warfare section, said the training kits were harmless.

Anderson, 75, was at the

depot when the sets were buried during the 1950s. After all the time that's passed, he's dubious about the excavation.

"I don't know what could be

in there," he said.

The disposal or neutralization methods used on the chemical materiel will depend on what the excavation turns up, said Kım Gillespie, spokesman for the U.S. Army Engineering and Support Center in Huntsville.

So far, no chemical warfare materiel has been detected in extensive water and soil testing in nearby areas, meaning it seems to have stayed put.

"The Army still will remove that material, even though it's not migrating. That's to remove a liability on this property," Phillips said.

DeBack added that, except for the historical record, "we've seen very limited evidence that there's anything out

The Huntsville firm, UXB International, was awarded a \$2.7 million contract in September to guide the chemical materiel cleanup. The company will draft safety plans to be reviewed by several agencies. The plans will cover dangers to excavation workers as well as

Jordan English, division of Superfund manager for the Memphis office of the Tennessee Department of Environment and Conservation, said his biggest concern lies with the unknown condition of the chemical materiel.

It's not clear, he said, whether the mustard bombs were thoroughly neutralized or what the byproducts of the slurry process might be.

"Even if it worked properly, the aftermath of the slurry pit might be, for the environment, not good," English said.

Authorities also don't have definitive information on the

quantity of material in the buried training sets, English said..
Turpin Ballard, who is a re-

medial project manager for the U.S. Environmental Protection Agency, said there will be many safety features to the excavation and removal process.

"They're just being conservative because you never know, what might not have gotten fully neutralized or broken," he said.

"In the event there's any kind of release, they'll be able to contain it inside the tent."

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