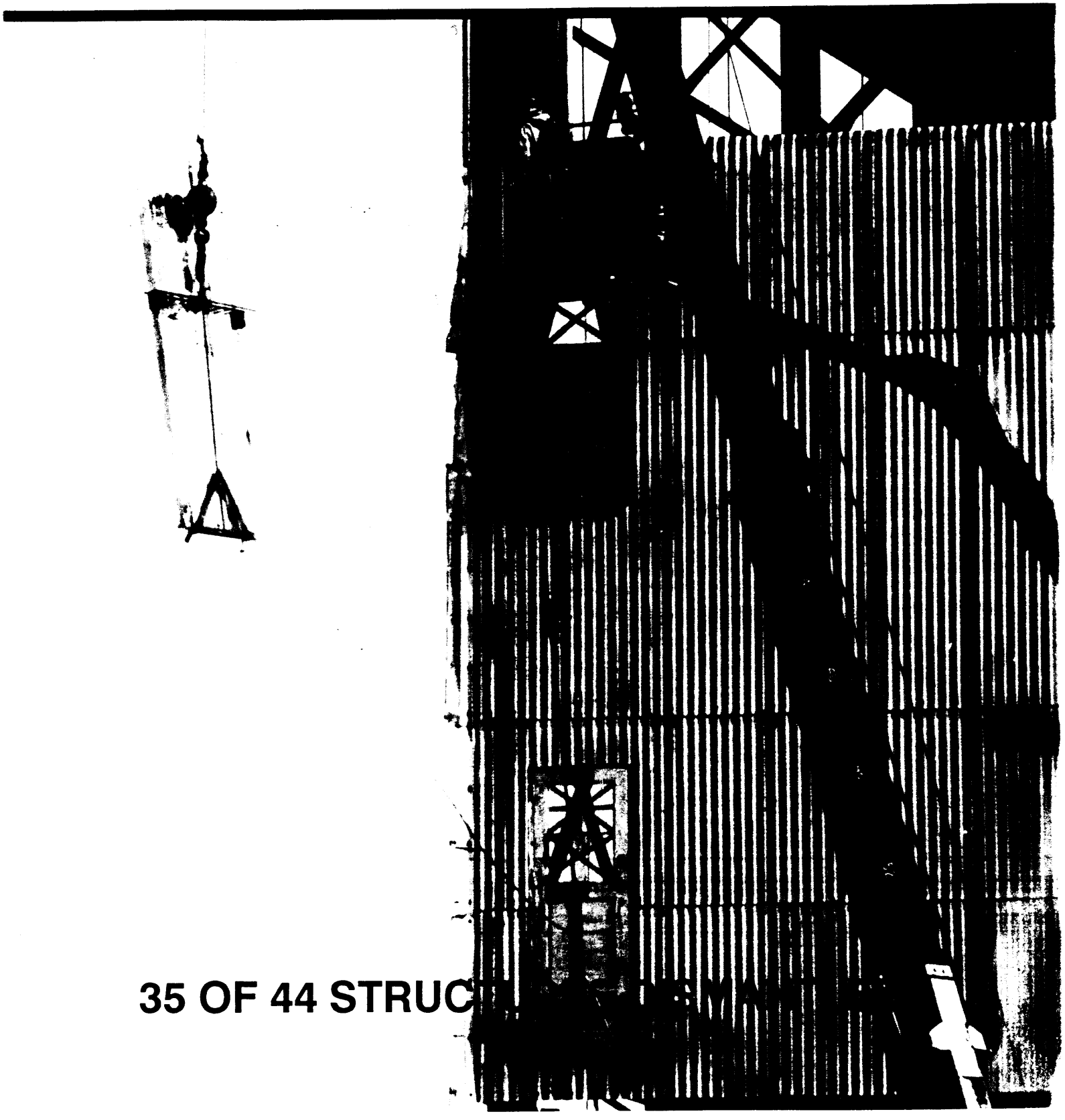
WSSRAP

UPDATE

VOL. 6 NO. 1

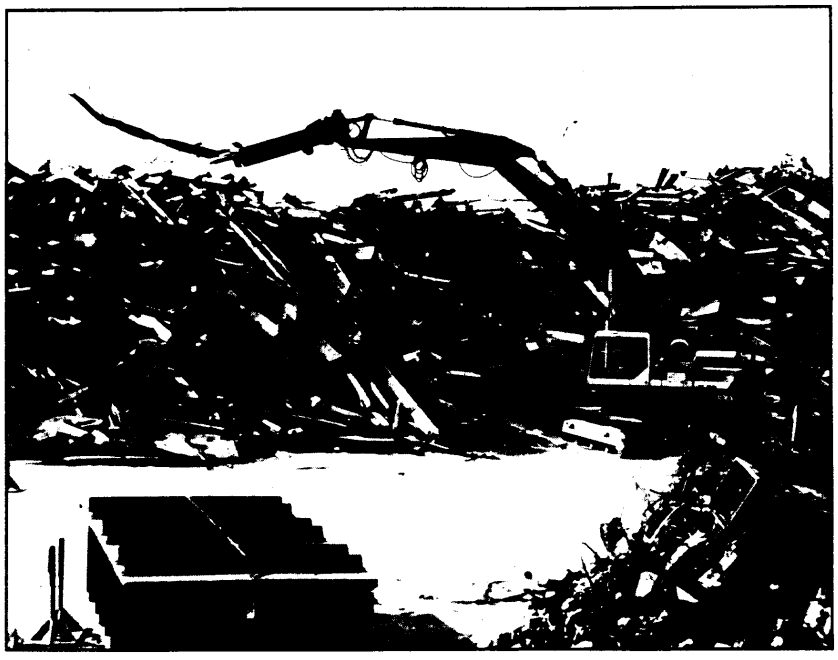
JUNE 1994

Distributed to residents of St. Charles County to report on the progress of the Weldon Spring Site Remedial Action Project



35 OF 44 STRUC

Chemical Plant Building Demolition



Structual steel and other building debris being stacked in the Material Staging Area.

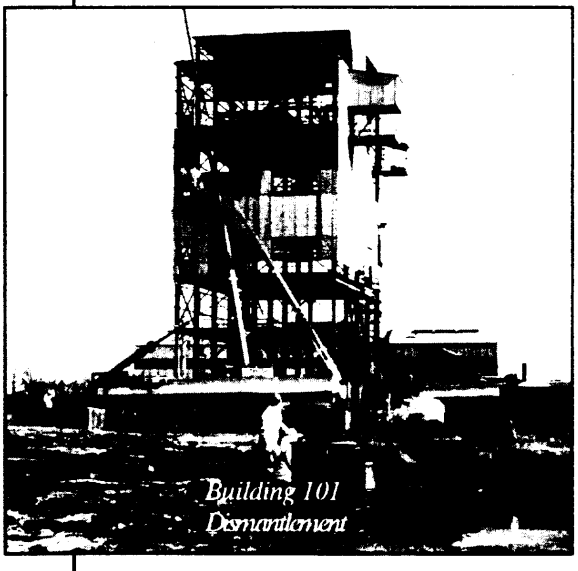
Cleaning and dismantling the 44 buildings and structures of the former manufacturing operation began in June, 1991.

Today, 35 of these structures have disappeared and eight are in process. As the chemical plant area is cleared, the stack of building debris in the materials storage area grows higher.

Project Manager Lacy Key, who is in charge of the dismantling and waste handling operations, says the most positive feature of this work is that it was done safely. "We've had no serious injuries since this work started 24 months ago," he says.

Mr. Key is particularly proud of the fact that two of the three demolition subcontracts were each completed two months ahead of the DOE Headquarters milestones.

Four subcontractors have been working on the dismantlement of the buildings that includes cleaning, decontaminating, removing process pipe and asbestos materials and demolishing equipment. They are Kimmins Industrial Services Corporation, B&W/OHM, Iconco/National and Unnerstall Construction. Kimmins and Iconco have completed their work.



Building 101 Dismantlement

Cover photo shows workmen removing transite panels from building 101, the six-story feed preparation and sampling structure.

Quarry Cleanup: Site Reaches Two Important Milestones

Over 2,100 loads of bulk waste removed from Quarry

More than 2,100 truck loads of bulk waste from the quarry have been transported over the dedicated haul road to the temporary storage area at the chemical plant property. This represents over 25,000 ubic yards of material.

Except for weather shutdowns, covered trucks hauling waste have averaged better than 20 trips per day. Gene Valette, bulk waste project manager, estimates that the quarry cleanup activity is now about 30 percent complete.

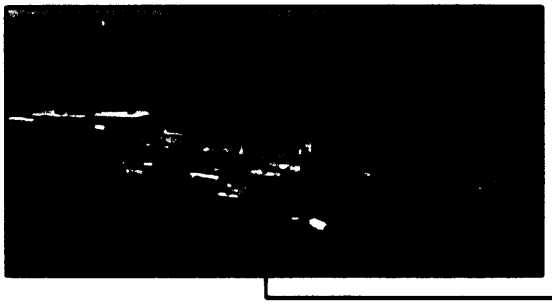
Quarry water treatment plant update

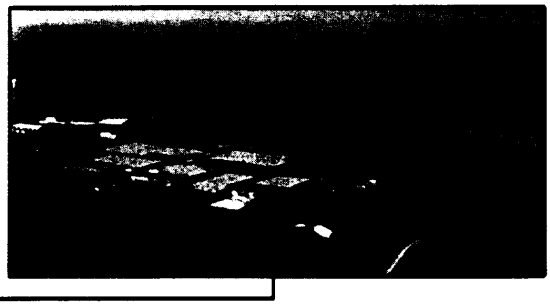
The quarry water treatment plant has treated and discharged at least 20 batches of water from the quarry in compliance with the State of Missouri permit.

This activity is an attempt to keep the sump at a low level despite the spring rains so work can progress on bulk waste removal. Levels of water in the pond have ranged from nine feet down to three feet at various times during the last four months. Before treatment began, the pond had 17 feet of water.

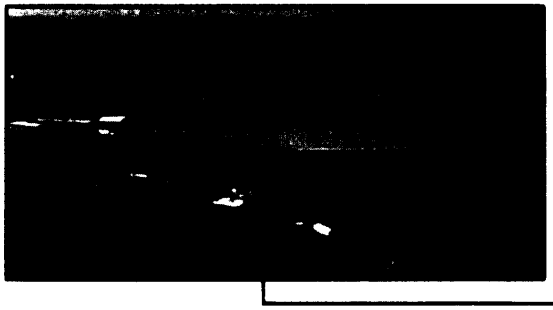
The engineered disposal facility, or cell, to be constructed in the chemical plant area will provide long-term isolation of the site's waste material. The footprint of the facility will cover about 72 acres on an area tests show is geologically suitable. Average

START





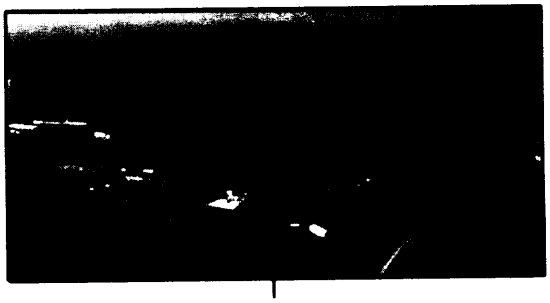
Buildings Decontamination
and Demolition



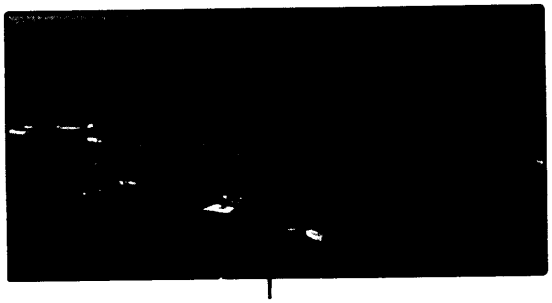
Waste Treatm

height of the structure will be about 40 feet and approximately 1.1 million cubic yards of waste can be placed there. These conceptual drawings show how the cell will look during various phases of its construction and at completion.

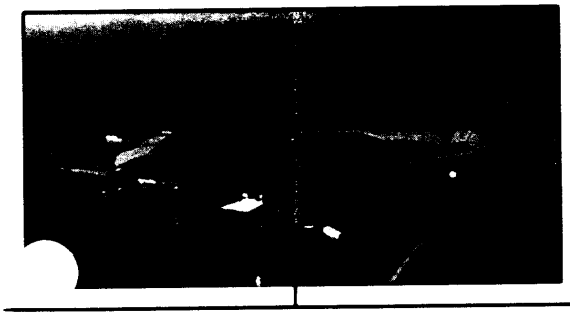
FINISH

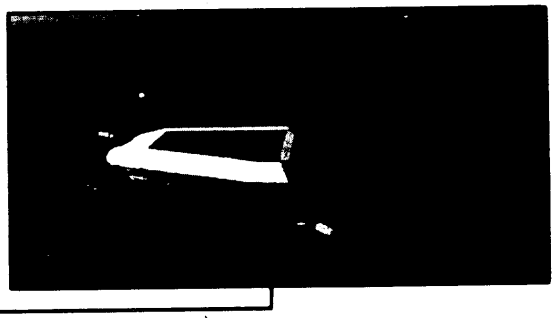


Foundation Removal and Subgrade Development



Start of Disposal Operations





t and Disposal

County Citizen's Commission Plans Nearing Completion

Arrangements are nearing completion with St. Charles County Administration to establish a St. Charles County Citizen's Commission that will provide a two-way communications link between the Weldon Spring cleanup activity and the general public.

Steve McCracken, Department of Energy Project Manager at the site, says a federal grant will fund the commission.

"The plan that we have worked out with the County is to have about seven members who represent a cross-section of the St. Charles County population. They will monitor Project activities and serve as an information resource for the entire community," Mr. McCracken says. "This is extremely important as the cleanup activity enters the waste treatment and disposal phase of the Project."

"One responsibility of the commission," he adds, "will be to meet frequently, to review progress and to monitor the cleanup activities. We anticipate that the commission will tell us what people in the area are thinking and at the same time tell the public how we are doing."

Mr. McCracken says this form of public participation is welcomed by the Department of Energy and that he expects the commission to be formed and ready to function later in the year.

State Renews Discharge Permit For Site Water Treatment Plant

The Missouri Department of Natural Resources (MDNR) has renewed the permit for the Project to release into the Missouri River water treated at the site water treatment plant.

Bruce Ballew making a presentation at the NPDES Permit Meeting, February 17.

The renewal, discussed at a public meeting February 17, was granted following a public comment period.

The original permit was granted in January, 1991. It allowed discharge of treated water through a natural drainage ditch that eventually led to the Missouri River. The ditch was never used because studies showed that the ditch is contaminated by storm water runoff from the chemical plant area. Instead, the Department of Energy constructed a pipeline to the river as a conservative alternative.

The public meeting, held at the St. Peters Holiday Inn, was co-hosted by DOE. A number of exhibits, staffed by WSSRAP scientists, provided

Discharge Permit

Continued from page 6

information on cleanup progress.

Dan Shuette, Chief of the State's National Pollutant Discharge Elimination System (NPDES) section, was the moderator. WSSRAP's Bruce Ballew gave a brief slide presentation that outlined the water treatment process and the water testing program.

The new permit incorporates some changes including the reduction of some monitoring parameters that have been determined to be unnecessary and the addition of new monitoring locations.

"The changes in the revised permit for the Chemical Plant area, including the site water treatment plant," Mr. Ballew says, "reflect the experience gained during the past several years of operation."

He reported at the meeting that the site water treatment plant had processed 18 batches of water amounting to 14 million gallons. Mr. Ballew also presented data from analytical results (see chart below) that showed contaminants of concern in the treated water have never exceeded the limits set by the state permit.

SUMMARY OF SWTP (BATCH 003) ANALYTICAL RESULTS

8/17/93 08:30

FROM ALL AGENCIES RECEIVING SAMPLES ON 7/21/93

PARAMETER	NPDES LIMITS (mg/l)	PMC DATA RESULTS	MoDNR DATA RESULTS	EPA DATA RESULTS	ST. CHARLES COUNTY DATA RESULTS	ST. LOUIS COUNTY H & W DATA RESULTS
BOD5	*	<1.0 mg/l	<2.0 mg/l	NA	NA	NA
COD	90	10.7 mg/l	10.4 mg/l	NA	NA	NA
TSS	50	12 mg/l	<1.0 mg/l	NA	NA	NA
ARSENIC	0.1	<0.002 mg/l	<0.05 mg/l	0.0025 mg/l	<0.010 mg/l	0.00135 mg/l
BARIUM	1.5	0.017 mg/l	<0.020 mg/l	0.0139 mg/l	0.0126 mg/l	0.0188 mg/l
CADMIUM	0.02	<0.005 mg/l	<0.005 mg/l	<0.0028 mg/l	<0.003 mg/l	<0.0001 mg/l
CHROMIUM	0.1	<0.005 mg/l	<0.006 mg/l	<0.0037 mg/l	<0.005 mg/l	<0.0004 mg/l
COPPER	1	<0.005 mg/l	0.05 mg/l	<0.0036 mg/l	<0.010 mg/l	<0.001 mg/l
IRON	0.6	0.018 mg/l	<0.10 mg/l	0.0416 mg/l	<0.055 mg/l	0.0181 mg/l
LEAD	0.1	<0.002 mg/l	0.05 mg/l	<0.0010 mg/l	<0.003 mg/l	<0.001 mg/l
MANGANESE	0.1	0.0038 mg/l	<0.02 mg/l	0.0082 mg/l	0.0085 mg/l	0.00672 mg/l
MERCURY	0.004	<0.00010 mg/l	<0.0002 mg/l	<0.0001 mg/l	<0.00020 mg/l	<0.0001 mg/l
SELENIUM	0.02	0.0032 mg/l	0.011 mg/l	0.0013 mg/l	<0.005 mg/l	<0.001 mg/l
SILVER	0.1	<0.006 mg/l	<0.015 mg/l	<0.0034 mg/l	<0.010 mg/l	<0.0002 mg/l
ZINC	5.0	<0.005 mg/l	<0.01 mg/l	0.0066 mg/l	<0.015 mg/l	<0.0300 mg/l
CYANIDE	0.0075	<0.005 mg/l	<0.0075 mg/l	NA	NA	<0.0060 mg/l
2,4-DNT	0.22 ug/l	<0.019 ug/l	<0.02 ug/l	<0.03 ug/l	<0.0109 ug/l	<0.032 ug/l
FLUORIDE	4.0	0.56 mg/l	0.28 mg/l	0.23 mg/l	NA	<0.020 mg/l
NITRATE AS N	20	1.30 mg/l	1.1 mg/l	1.050 mg/l	NA	4.64 mg/l
SULFATE	500	132 mg/l	130 mg/l	123 mg/l	NA	120 mg/l
CHLORIDE	*	176 mg/l	160 mg/l	NA	NA	198 mg/l
GROSS ALPHA	*	3.1 ±4.0 pCi/l	<0.6 pCi/l	1.44 ±0.85 pCi/l	6 ±2 pCi/l	<1.0 pCi/l
GROSS BETA	*	5.7 ±3.7 pCi/l	3.1 ±0.7 pCi/l	4.42 ±0.75 pCi/l	7 ±3 pCi/l	2.7 ±0.7 pCi/l
URANIUM, TOTAL	**	<0.2 pCi/l	<0.1 pCi/l	<1.0 pCi/l	<3.4 pCi/l	<1.0 pCi/l
RADIUM-226	*	0.0 ±0.3 pCi/l	<0.1 pCi/l	0.74 ±0.29 pCi/l	NA	<0.1 pCi/l
RADIUM-228	*	0.0 ±0.8 pCi/l	1.2 ±0.9 pCi/l	<0.87 pCi/l	NA	<1.0 pCi/l
THORIUM-230	*	1.1 ±0.8 pCi/l	0.2 ±0.1 pCi/l	4.22 ±0.71 pCi/l	NA	NA
THORIUM-232	*	0.0 ±0.5 pCi/l	<0.1 pCi/l	0.72 ±0.25 pCi/l	NA	NA
ASBESTOS	*	<0.17 MFL	<0.2 MFL	NA	NA	NA
PRIORITY POLLUTANTS	(SEE BELOW)					
1. SEMI-VOA	*	NA	NA	NA	NA	NA
2. VOA	*	NA	NA	NA	NA	NA
3. PCB/PEST	*	NA	NA	NA	NA	NA

* = Monitoring Only Permit Discharge Limits

** = Design Value of 30 pCi / l; Not to Exceed 100 pCi / l

NA = Not Analyzed by Agency

Cleanup Oversight By Army and State

Two government agencies are now providing on-site oversight of the Weldon Spring Site Remedial Action Project. They are the U. S. Army Corps of Engineers and the Missouri Department of Natural Resources (MDNR).

MDNR, working under a multi-year Department of Energy grant, has assigned three full-time people to stay in touch with daily activities of the Project. Geri Kountzman and Martha Kopper are located onsite and Karen Marcus is located at MDNR offices in Jefferson City.

Ray Allison

Karen Marcus, Martha Kopper and Geri Kountzman

The Corps of Engineers has assigned Ray Allison to maintain an office at the site. His responsibilities are to review engineering designs and conduct field surveys of work that is being partially funded by the Army.

Tom Pauling Joins DOE

Tom Pauling has joined the Department of Energy staff as Environmental Engineer.

His oversight duties span the Environmental Safety and Health and Compliance departments. Mr. Pauling was formerly associated with the Environmental Protection Agency in Denver.

Tom Pauling

WSSRAP Update

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