

Site (Structure) : OakRidge

Country: UNITED STATES OF AMERICA

Reporting Year: 2008

Full Name: Oak Ridge Reservation, including Oak Ridge National Laboratory and East Tennessee Technology Park

Location: Oak Ridge, Tennessee

Description:

Official Website:

License Holder(s): U.S. Department of Energy, Oak Ridge Operations Office

Waste management facilities that are located at this site:

Facility:	EMWMF
Description:	Environmental Mangagement Waste Management Facility- CERCLA Remedial Action Facility

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Disposal part of facility**EMWMF**

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
HLW	No	No
TRU	No	No
LLW	Yes	Yes
11e2 Byproduct Material	No	No

List SRS?	No
List UMMT?	No

Type:	engineered surface		
Facility is modular?	Yes		
Capacity existing (m3):	922000	Capacity planned (m3):	1700000

Depth (m):	0-10	Host medium:	sedimentary (sand)
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Phase Name	Start Year	End Year	Estimate
design	2001	2001	False
construction	2001	2002	False
commissioning	2002	2002	False
operation	2002	2015	False
closure	2015	2033	True
institutional control	2015	2070	True

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Facility:	Hydrofract
Description:	Past-practice of injecting grout (hydrofracture) in shale underlying ORNL from 1959-1983

Disposal part of facility Hydrofract

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
HLW	No	No
TRU	No	No
LLW	Yes	No
11e2 Byproduct Material	No	No

List SRS?	No
List UMMT?	No

Type:	deep well injection		
Facility is modular?	No		
Capacity existing (m3):	17300	Capacity planned (m3):	17300

Depth (m):	100-300	Host medium:	sedimentary rock (consolidated clay)
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Phase Name	Start Year	End Year	Estimate
commissioning	1959	1959	False
operation	1959	1984	False
closure	2000	2004	False
institutional control	2004		False

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Facility:	OldBurial		
Description:	Solid Waste Storage Areas (Old Burial Grounds)		
Disposal part of facility OldBurial			
The following shows disposal status for waste classes and SRS.			
Waste Class	Actual	Planned	
HLW	No	No	
TRU	No	No	
LLW	Yes	No	
11e2 Byproduct Material	No	No	
List SRS?	No		
List UMMT?	No		
Type:	trench(es)		
Facility is modular?	No		
Capacity existing (m3):	441000	Capacity planned (m3):	441000
Depth (m):	0-10	Host medium:	sedimentary (sand)
Phase Name	Start Year	End Year	Estimate
operation	1945	1986	False

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Facility:	ORNL/IWMF
Description:	Interim Waste Management Facility at ORNL - No longer in operation

Disposal part of facility ORNL/IWMF

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
HLW	No	No
TRU	No	No
LLW	Yes	No
11e2 Byproduct Material	No	No

List SRS?	No
List UMMT?	No

Type:	engineered surface		
Facility is modular?	No		
Capacity existing (m3):	5400	Capacity planned (m3):	5400

Depth (m):	abovegrnd	Host medium:	sedimentary (sand)
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Phase Name	Start Year	End Year	Estimate
planning and/or concept assessment	1986	1990	False
site selection	1986	1990	False
design	1986	1990	False
construction	1991	1991	False
commissioning	1991	1991	False
operation	1991	2001	False
closure	2002	2006	True
institutional control	2006		True

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Facility:	ORLLW/TRU
Description:	Various Oak Ridge Reservation waste management facilities including ORNL, /Bethel Valley/Melton Valley treatment, storage, and processing facilities for LLW & TRU waste awaiting disposal

Storage part of facility ORLLW/TRU

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
HLW	No	No
TRU	Yes	Yes
LLW	Yes	Yes
11e2 Byproduct Material	No	No

List SRS?	No
List UMMT?	No

Capacity:	Includes a variety of facilities including, bunkers, buildings, casks, tanks, etc.
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
TRUtrenchs	cask	1970	No	No	No	No
TRU	building	1980	No	No	No	No
MVST	tank (concrete)	0	Yes	No	No	No
LegacyLLW	concrete pad	0	No	No	No	No

Processing part of facility ORLLW/TRU

The following shows processing status for waste classes and SRS.

Waste Class	Actual	Planned
HLW	No	No
TRU	Yes	Yes
LLW	Yes	Yes
11e2 Byproduct Material	No	No

Type:	Treatment, Conditioning
Year opened:	1942

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Facility:	TSCAI		
Description:	Facilities for neutralization, solidification, packaging, overpacking, evaporation, compaction, and incineration (Toxic Substance Controlled Air Incinerator).		
Processing part of facility	TSCAI		
The following shows processing status for waste classes and SRS.			
Waste Class	Actual	Planned	
HLW	No	No	
TRU	No	No	
LLW	Yes	Yes	
11e2 Byproduct Material	No	No	
Type:	Treatment, Conditioning		
Year opened:	1991		