

**Louisiana State University
Institute for Environmental Studies Records
Salt Dome Reports**

Record Group #A0407.1

Inventory

Revised by
Michelle Melancon

University Archives
Special Collections, Hill Memorial Library
Louisiana State University Libraries
Baton Rouge, Louisiana

2015

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Proper acknowledgement of University Archives materials must be made in any resulting writing or publications. The correct form of citation for this manuscript group is given on the summary page. Copies of scholarly publications based on research in the University Archives are welcomed.

SUMMARY

Size	0.75 linear feet.
Geographic Locations	Louisiana.
Inclusive Dates	1979-1980.
Bulk Dates	1980.
Languages	English.
Summary	Reports analyzing the geologic composition and movement of Louisiana salt domes for the purpose of using the salt domes for the possible storage of radioactive substances. Also included is a quality assurance manual providing standards for the creation of data.
Access Restrictions	None.
Copyright	Physical rights are retained by the LSU Libraries. Examination and reproduction are governed by state and federal public records laws.
Related Collections	Donald H. Kupfer Papers, Mss. 4646.
Citation	Louisiana State University Institute for Environmental Studies Records Salt Dome Reports, A0407.1, Louisiana State University Archives, LSU Libraries, Baton Rouge, La.
Stack Location(s)	Range 49

HISTORICAL NOTE

The Institute for Environmental Studies began as the Salt Dome Research Institute in the 1930s. Research began in the 1960s on the applicability of salt domes as potential storage sites for radioactive waste disposal. By the early 1980s, its mission was transformed to include more environmental, ecological, and human health risk issues. As a result of these changes, the Salt Dome Research Institute became the Institute for Environmental Studies. By 1985 a graduate program in environmental studies was begun. Recognition as an academic unit came in 2001, and the department was renamed the Department of Environmental Studies. In 2008, the program became the Department of Environmental Sciences. It serves as one of two departments in the LSU School of the Coast and Environment.

SCOPE AND CONTENT NOTE

This record group includes quarterly reports compiled by the Louisiana State University Institute for Environmental Studies and sponsored by the United States Department of Energy and the Battelle Memorial Institute's Office of Nuclear Waste Isolation. The reports explore the suitability of storing or disposing of radioactive waste in the Vacherie salt dome in Webster Parish, Louisiana and Rayburn salt dome in Bienville Parish, Louisiana. These reports contain information on the geological composition and hydrology of the salt domes, geology of the surrounding region, diagrams of surface elevation changes, maps of the terrain, and diagrams of borehole findings. Also included are comparisons of various aspects of the above between the Vacherie and Rayburn salt domes and the Belle Isle, Weeks Island, and Jefferson Island salt mines. This record group also includes a quality assurance manual containing procedures for document control, calibration of instruments, data acquisition, water and soil sampling, handling and storage of samples, audits, and laboratory procedures. Collection arranged chronologically.

LIST OF SUBGROUPS AND SERIES

Series I.	Salt Dome Quarterly Reports / inclusive dates 1979-1980	Range 49: Box 1
Series II.	Quality Assurance Manuals / inclusive date 1980	Range 49: Box 2
Series III.	Photographs / inclusive date 1980	Range 49: Box 1

SUBGROUPS AND SERIES DESCRIPTIONS

Series I. Salt Dome Quarterly Reports, 1979-1980

Arranged chronologically, this series consists of Quarterly Reports on the U.S. Department of Energy contract titled, *An Investigation of the Utility of the Gulf Coast Salt Domes for the Storage of Disposal of Radioactive Wastes*. These reports cover the period from January 1, 1979 to September 30, 1980. This series of quarterly reports replaces a previous series of monthly reports, last of which was dated December 1978. Individual report contents include: distributions lists; executive summaries; findings concerning geomechanics, geohydration, regional geology, and quarternary studies; and reference materials listings. Supporting data often represented by diagrams, maps and charts.

Series II. Quality Assurance Manuals, 1980

This series consists of a procedural manual detailing quality control and data collection. The original Quality Assurance Plan for the Institute of Environmental Studies' Salt Dome Project was submitted in August 1979 to the Department of Energy. The manual was revised in October 1980, and in January and May of 1981.

Series III. Photographs, 1980

This series contains original photographs found among the Quarterly Salt Dome Reports of Series I. Removed photographs from this collection have been arranged separately. Detailed notation is made within the container list concerning rehoused photographs, including original locations.

INDEX TERMS

Battelle Memorial Institute. Office of Nuclear Waste Isolation.
Louisiana State University (Baton Rouge, La.)
Louisiana State University (Baton Rouge, La.). Institute for Environmental Studies.
United States. Department of Energy. Office of Nuclear Waste Management.

Belle Isle (Saint Mary Parish, La.)
Geology--Data processing--Handbooks, manuals, etc.
Geology--Louisiana--Webster Parish.
Geology--Louisiana--Bienville Parish.
Geological surveys--Louisiana.
Hydrology--Fieldwork.
Hydrology--Louisiana--Webster Parish.
Hydrology--Louisiana--Bienville Parish.
Hydrology--Research--Louisiana.
Hydrological surveys--Louisiana.
Jefferson Island (La.)
Radioactive waste disposal in the ground--Environmental aspects--Louisiana.
Radioactive waste disposal in the ground--Research--Louisiana.
Radioactive waste disposal in the ground--United States--Evaluation.
Radioactive waste disposal--Risk assessment--Louisiana.
Salt domes--Louisiana--Webster Parish.
Salt domes--Louisiana--Bienville Parish.

Fredlund, Glen.
Gehle, R.M. (Richard Macwayne), 1953-
Martinez, Joseph D., 1915-
Nance, Damian.
Pilger, Rex H.
Thoms, Robert L.

Charts (graphic documents)
Color photographs.
Diagrams.
Maps (documents)
Quarterly reports.
Technical manuals.

CONTAINER LIST

<i>Location</i>	<i>Box</i>	<i>Folder</i>	<i>Contents</i>	<i>Date</i>
Series I. Salt Dome Quarterly Reports				
Range 49	1	1	Salt Dome Quarterly Report	April 11, 1979
		2	Salt Dome Quarterly Report	July 13, 1979
		3	Salt Dome Quarterly Report	Oct. 12, 1979
		4	Salt Dome Quarterly Report	Jan. 11, 1980
		5	Salt Dome Quarterly Report	Jan. 17, 1980
		6	Salt Dome Quarterly Report	April 11, 1980
		7	Salt Dome Quarterly Report	June 3, 1980
		8	Salt Dome Quarterly Report	July 10, 1980
		9	Salt Dome Quarterly Report	Sept. 10, 1980
			Original photographs removed from Box 1, Folder 9 and rehoused in Box 1, Folder 10.	
Series II. Quality Assurance Manuals				
Range 49	2	1	Quality Assurance Manual	Oct. 10, 1980
		2	Quality Assurance Manual	Oct. 10, 1980
		3	Quality Assurance Manual	Oct. 10, 1980

Series III. Photographs

Range 49	1	10	<i>Salt Dome Quarterly Report</i> (Sept. 10, 1980) Page 51: -North wall excavation. [Figure 15] -Southeast corner pit. [Figure 16]	1980
		10	<i>Salt Dome Quarterly Report</i> (Sept. 10, 1980) Page 52: -Obtaining samples. [Figure 17] -West wall of pit. [Figure 18]	1980
		10	<i>Salt Dome Quarterly Report</i> (Sept. 10, 1980) Page 53: -Detail of east wall excavation. [Figure 19]	1980
		10	<i>Salt Dome Quarterly Report</i> (Sept. 10, 1980) Page 54: -Boulders extracted from boulder zone. [Figure 20]	1980