

Project Name:	Georgia Pacific
Project Location:	Crossett, Arkansas
Project Completion Date:	May 2001
Project Duration:	3 Years/2 Months
Project Value:	\$4,500,000/\$100,000
Client Name:	LEFCO
Client Contact:	Mr. Dick Johnson
Client Phone Number:	(409) 582-1088
Technology Utilized:	Belt Press and Land Farm

Project Description

SEMS was contracted to provide remediation services at the Georgia Pacific Paper Mill. The facility had been in operation for more than 50 years. Waste materials including H₂S and “black liquor” as a bi-product in the process of making paper would spill out into a 1,000,000 gallon settling basin. Torqued screens would turn inside this settling basin forcing the solids to the center of the basin, which was picked up by a trash pump and sent to a mix tank. A flocculent was then added to the material and mixed using a series of weirs and a large screw in the bottom of the mix tank to achieve a “pressable consistency”. Once this consistency was achieved, the material was discharged to one of two belt press units, which would separate the solids from the liquids. The solid material was loaded onto an articulated dump truck and sent to a land farm onsite and the liquid was recirculated back to the settling basin. The water was later sent to a water treatment plant onsite for disposal.

Approximately 1,500 cubic yards of “cake” was processed daily and placed in the onsite land farm. Approximately 200,000 gallons of liquids would be processed each day at the water treatment plant onsite. The entire operation was done in Level D PPE with the possibility of upgrading to Level C at any time based on the level of exposure to H₂S which was determined by personal air monitors. Personal and perimeter air monitoring ensured worker safety and provided qualitative results to demonstrate that no offsite hazards were present during the operation.

Project Name:	Inland Paperboard & Packaging
Project Location:	Orange, Texas
Project Completion Date:	December 2000
Project Duration:	1 Year/2 Months
Project Value:	\$800,000/\$100,000
Client Name:	LEFCO
Client Contact:	Mr. Dick Johnson
Client Phone Number:	(409) 582-1088
Technology Utilized:	Belt Press and Land Farm

Project Description

SEMS was contracted to provide remediation services at the Inland Paperboard & Packaging Plant. The facility had been in operation for more than 20 years. Waste materials including H₂S and “black liquor” as a bi-product in the process of making paper would spill out into a 1,000,000 gallon settling basin. Torqued screens would turn inside this settling basin forcing the solids to the center of the basin which was picked up by a trash pump and sent to a mix tank. A flocculent was then added to the material and mixed using a series of weirs and a large screw in the bottom of the mix tank to achieve a “pressable consistency”. Once this consistency was achieved, the material was discharged to one of four belt press units which would separate the solids from the liquids. The solid material was loaded onto an articulated dump truck and sent to a land farm onsite and the liquid was recirculated back to the settling basin. The water was later sent to a water treatment plant onsite for disposal.

Approximately 3,000 cubic yards of “cake” was processed daily and placed in the onsite land farm. Approximately 400,000 gallons of liquids would be processed each day at the water treatment plant onsite. The entire operation was done in Level D PPE with the possibility of upgrading to Level C at any time based on the level of exposure to H₂S which was determined by personal air monitors. Personal and perimeter air monitoring ensured worker safety and provided qualitative results to demonstrate that no offsite hazards were present during the operation.

Project Name:	ISPAT Inland Steel
Project Location:	East Chicago, Illinois
Project Completion Date:	Ongoing
Project Duration:	3 Years/3 Months
Project Value:	\$3,000,000/\$150,000
Client Name:	LEFCO
Client Contact:	Mr. Dick Johnson
Client Phone Number:	(409) 582-1088
Technology Utilized:	Recessed Chamber Filter

Project Description

SEMS was contracted to provide remediation services at the Inland Steel. Waste materials including the black coal material as a bi-product in the process of making steel was collected and stored in a settling basin. Torqued screens would turn inside this settling basin forcing the solids to the center of the basin which was picked up by a trash pump and sent to a mix tank. A flocculent was then added to the material and mixed using a series of weirs and a large screw in the bottom of the mix tank to achieve a “pressable consistency”. Once this consistency was achieved, the material was discharged to the recessed chamber filter units which would separate the solids from the liquids. The solid material was placed in a landfill. The water was later sent to a water treatment plant onsite for disposal.