EPA Region 5 Records Ctr.
356571

2. SITE BACKGROUND

2.1 INTRODUCTION

This section includes information obtained from the SSI work plan preparation.

2.2 SITE DESCRIPTION

The Celotex Corporation is an inoperative manufacturing facility located at the intersection of Kankakee and Stewart Street in Wilmington, Illinois. The site is bordered by the Kankakee River to the west and Forked Creek to the south. The property consumes a surface area of approximately 40 acres and consist of two surface depressions, two landfills and several on-site ponds and lowlands that retain water seasonally.

Topographic relief at the site ranges from an elevation of approximately 550 feet along fill areas to 525 feet in flood prone areas adjacent to the Kankakee River (see Figure 2-1). A 4-mile radius groundwater map and surface water route map for the Celotex site area is provided in Appendix A and B, respectively.

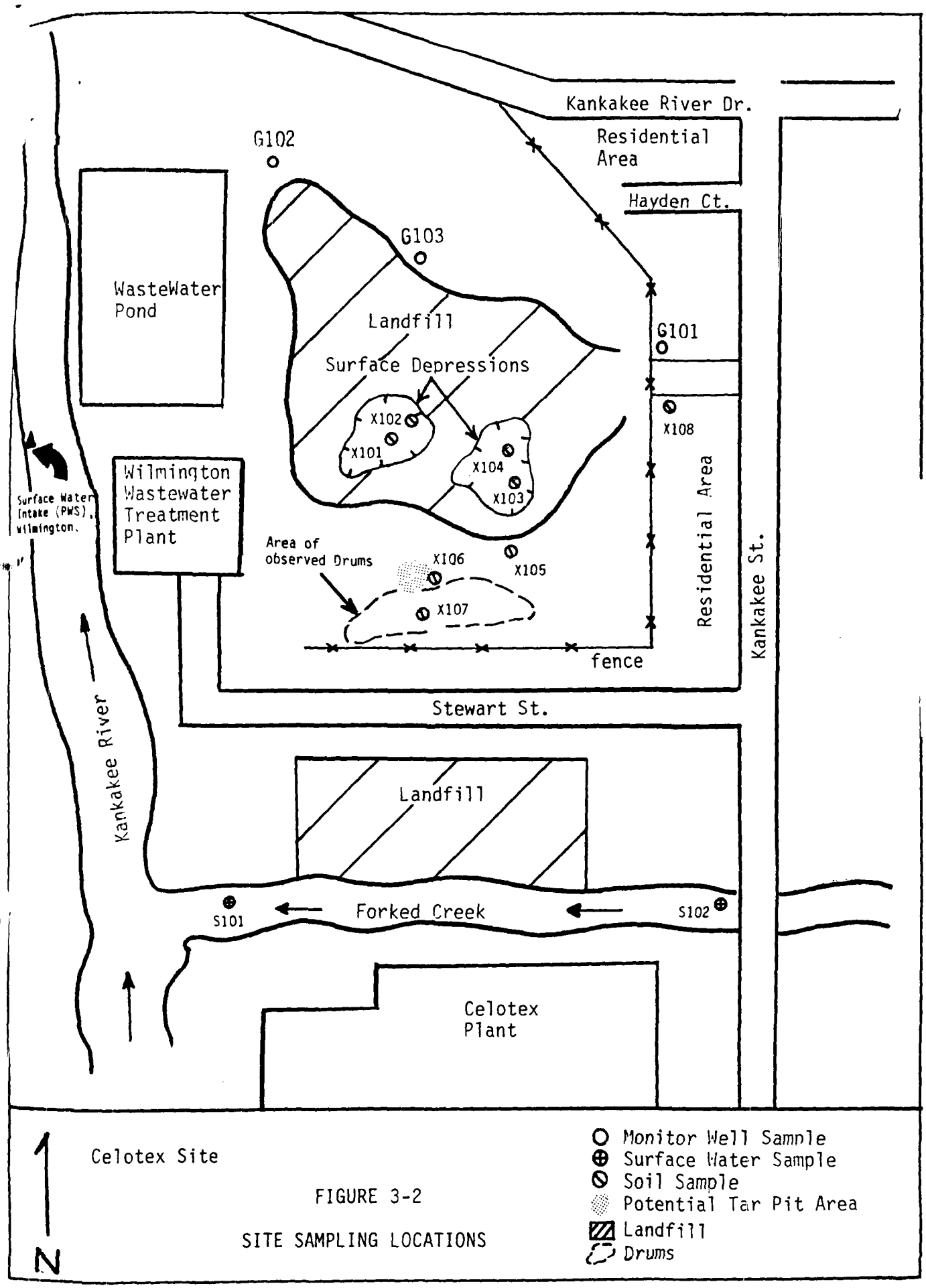
2.3 SITE HISTORY

The Celotex Plant in Wilmington, which was previously owned by the Philip Carey Company, operated as a manufacturing facility of asphalt roofing products from approximately 1955 to the early 1980's. The raw materials utilized in the production of roofing shingles consist of sand, asphalt and felt paper. The primary waste generated by this manufacturing process included an off-specification roofing shingle, tar paper and a sludge from the recycling mill. The sludge waste is a by-product from the recycling of rags,

Soil Sampling Procedures. The eight soil samples were collected to determine the impact past disposal activities at Celotex have had on the surrounding environment. X101 was a composite sample from three locations collected from the west surface depression at a depth of 0-1 feet. X102-D was also collected from the west surface depression at a depth of 8-9 feet. Both soil samples contained a grayish colored material that Mr. Colburn recognized as the sludge generated by the recycling mill. X103 and X104-D were collected from the remaining surface depression located on the east portion of the property. X103 was a soil sample collected from an erosional ditch within the depression at a depth of 0-1 feet. Soil sample X104-D was originally a subsurface boring to be collected from a depth fo 9-10 feet. However, repeated encounters with buried obstacles resulted in the sample being collected from 2-3 feet. Sample X105 was collected at a depth of 0-1 feet from a lowland area adjacent to the south face of the landfill. Sample X106 was collected at 0-1 feet from an area adjacent to a small lagoon located in the wooded area where abandoned drums were discovered. The lagoon contained a black viscous substance that resembled coal tar. X107 was a 0-1 feet soil sample also collected from an area in the vicinity of the abandoned drums. Soil sample X108 was collected as a representative background sample at a depth of 0-1 feet from residential property bordering the site to the east.

The soil samples were collected with stainless steel spoons and augers. All samples were transferred directly into the sample jars and were evidence taped and packaged in accordance with USEPA required procedures.

Groundwater Samples Procedures. Three groundwater samples were collected to determine the impact disposal activities at Celotex are having on the underlying groundwater. Monitor Wells G101, G102 and G103 were sampled during



Celotex Site

FIGURE 3-2

SITE SAMPLING LOCATIONS

Map not to Scale

TABLE 4-1
SUMMARY

[illegible] POINT	G101 11-20-89	G102 11-20-89	G103 11-20-89	S101 11-20-89	S102 11-20-89	X101 11-20-89	X102D 11-20-89	X103 11-20-89	X104D 11-20-89	X105D 11-20-89	X106 11-20-89	X107 11-20-89	X108 11-20-89
(measured in ppb)													
[illegible] Chloride	--	--	--	--	--	--	--	2.00J	2.00J	4.00J	1.00J	--	--
[illegible]	15.00B	68.00B	25.00B	--	60.00B	--	--	5.00J	--	44.00J	230.00D	15.00J	--
[illegible]one (MEK)	--	--	--	--	--	--	--	--	--	14.00	56.00	--	--
[illegible]	--	--	--	--	--	31.00	400.00J	--	--	--	57.00	--	--
[illegible]ILES (ppb)													
[illegible]	--	--	--	--	--	430.00J	--	--	--	--	--	--	--
[illegible]ylphenol	--	--	--	--	--	1100.00J	840.00J	--	--	--	--	--	--
[illegible]zoic acid	--	--	--	--	--	840.00J	--	--	--	--	--	290.00J	--
[illegible]thalene	--	--	--	--	--	56.00	340.00BJ	--	--	--	--	--	--
[illegible]ylnaphthalene	--	--	--	--	--	--	1400B	--	--	--	--	--	--
[illegible]phthene	--	--	--	--	--	140.00J	--	--	--	--	--	--	--
[illegible]ene	--	--	--	--	--	50.00J	--	--	--	--	--	--	--
[illegible]thylphthalate	--	--	0.40J	0.10J	--	--	--	28.00J	--	--	--	--	--
[illegible]ene	--	--	--	--	--	78.00J	--	--	--	--	--	--	--
[illegible]tachlorophenol	--	--	--	--	--	140.00J	--	--	--	--	--	--	--
[illegible]nanthrene	--	--	--	--	--	790.00BJ	110.00BJ	75.00BJ	8.00BJ	--	--	99.00BJ	90.00BJ
[illegible]racene	--	--	--	--	--	2000.00BJ	--	12.00BJ	--	--	--	--	--
[illegible]-Butylphthalate	--	--	--	--	--	--	480.00BJ	87.00BJ	7.00BJ	--	--	17.00BJ	13.00BJ
[illegible]oranthene	--	--	--	--	--	9400.00B	--	100.00BJ	16.00BJ	--	--	150.00BJ	150.00BJ
[illegible]ene	--	--	--	--	--	7400.00B	--	86.00BJ	24.00BJ	--	12000.00J	210.00BJ	170.00BJ
[illegible]ylbenzylphthalate	--	--	--	--	--	--	830J	--	--	--	--	--	--
[illegible]zo(a)anthracene	--	--	--	--	--	2600.00BJ	--	--	--	--	--	390.00BJ	140.00BJ
[illegible]rysene	--	--	--	--	--	2900.00B	--	--	--	--	--	--	110.00BJ
[illegible]2-Ethylhexylphthalate	1.00J	0.20B	0.80J	--	--	3800.00B	5500B	--	--	55.00BJ	--	--	110.00BJ
[illegible]zo(b)fluoranthene	--	--	--	--	--	930.00J	--	--	--	--	--	--	--
[illegible]zo(a)pyrene	--	--	--	--	--	670.00J	--	--	--	--	--	--	--
[illegible]DES (ppb)													
[illegible]tachlor epoxide	--	--	--	--	--	--	--	--	--	--	--	3.50J	--
[illegible]eldrin	--	--	--	--	--	--	4.00J	1.00J	--	--	--	18.00J	--
[illegible]-DDE	--	--	--	--	--	--	--	--	--	--	--	--	1.00J
[illegible]-DDT	--	--	--	--	--	--	--	--	--	--	--	22.00J	--
[illegible]-Chlordane	--	--	--	--	--	--	--	--	--	--	--	7.00J	--
[illegible]clor-1260	--	--	--	--	--	550.00J	--	--	--	--	--	--	--
[illegible]ICS (ppm)													
[illegible]nide	--	--	80.00B	175.00	162.00	8000.00	4200.00	6300.00	16600.00	5200.00	1470.00	8400.00	3200.00
Antimony	--	--	--	--	--	4.60	1.2	--	0.60B	--	--	0.60B	--
Arsenic	3.00B	--	51.00	--	--	1.70B	0.9B	2.20	8.60	3.50	1.8	11.00	3.00
Barium	260.00	47.00B	690.00	43.00B	43.00B	200.00	74.00	66.00	170.00	61.00	22.00B	98.00	74.00
Beryllium	--	--	--	--	--	--	--	0.50B	1.40	0.50	0.30B	0.80B	0.41B
Cadmium	--	--	2.00B	--	15.00B	--	--	3.60	9.30	3.00	0.80B	7.60	1.70
Calcium	155000.00	115000.00B	110000.00B	99000.00	98000.00	26700.00	4600.00	11200.00	34900.00	3640.00	3900.00	18700.00	4100.00
Chromium	8.00B	5.60B	8.00B	6.00B	5.80B	33.00	16.00	16.00	28.00	8.90	3.60	18.00	4.70
Cobalt	2.40B	1.80B	10.00	2.80	3.20B	2.10B	--	--	14.00	4.90B	0.90B	7.90B	3.00B
Copper	--	2.00B	--	2.40B	2.40B	120.00	45.00	14.00	51.00	10.00B	7.40	32.00	7.70
Iron	13500.00	336.00B	14000.00B	317.00	313.00	4900.00	3000.00	12600.00	32600.00	13500.00	3100.00	24700.00	6700.00
Lead	1.00B	--	--	--	--	150.00	56.00	32.00	65.00	13.00	20.00	85.00	45.00
Magnesium	28000.00	45700.00	67000.00B	41000.00	41000.00	2200.00B	1160.00B	6900.00B	12800.00	13000.00	1700.00	6700.00	1500.00
Manganese	137.00	4.60B	220.00B	15.00B	15.00B	560.00	150.00	370.00	1100.00	560.00	44.00	600.00	370.00
Mercury	--	--	--	--	--	0.16	0.17	--	0.15	0.11	--	0.14	.02B
Nickel	--	--	27.00B	--	--	7.10B	2.9B	11.00	29.00	10.00	12.00	34.00	5.80B
Potassium	29000.00	380.00B	4300.00B	1300.00B	1300.00B	--	--	680.00B	1500.00	320.00B	120.00B	1100.00B	550.00B
Silver	--	--	--	--	2.30	--	--	--	--	--	--	--	--
Sodium	19000.00	126000.00B	89000.00	11000.00	11000.00	390.00	1000B	230.00B	160.00	150.00B	--	--	--
Thallium	--	--	--	--	--	--	--	--	0.30	--	--	--	--
Vanadium	--	--	--	--	--	11.00B	7.7B	16.00	36.00	9.50B	19.00	22.00	8.70B
Zinc	12.00B	--	--	--	--	570.00	140.00	71.00	250.00	51.00	58.00	250.00	58.00
Cyanide	--	--	--	--	--	43.00	10.6	--	--	--	--	--	--
Sulfate	21900.00	68000.00B	36000.00B	85000.00	88000.00	--	--	--	--	--	--	--	--

-- Indicates compound was analyzed but not detected.