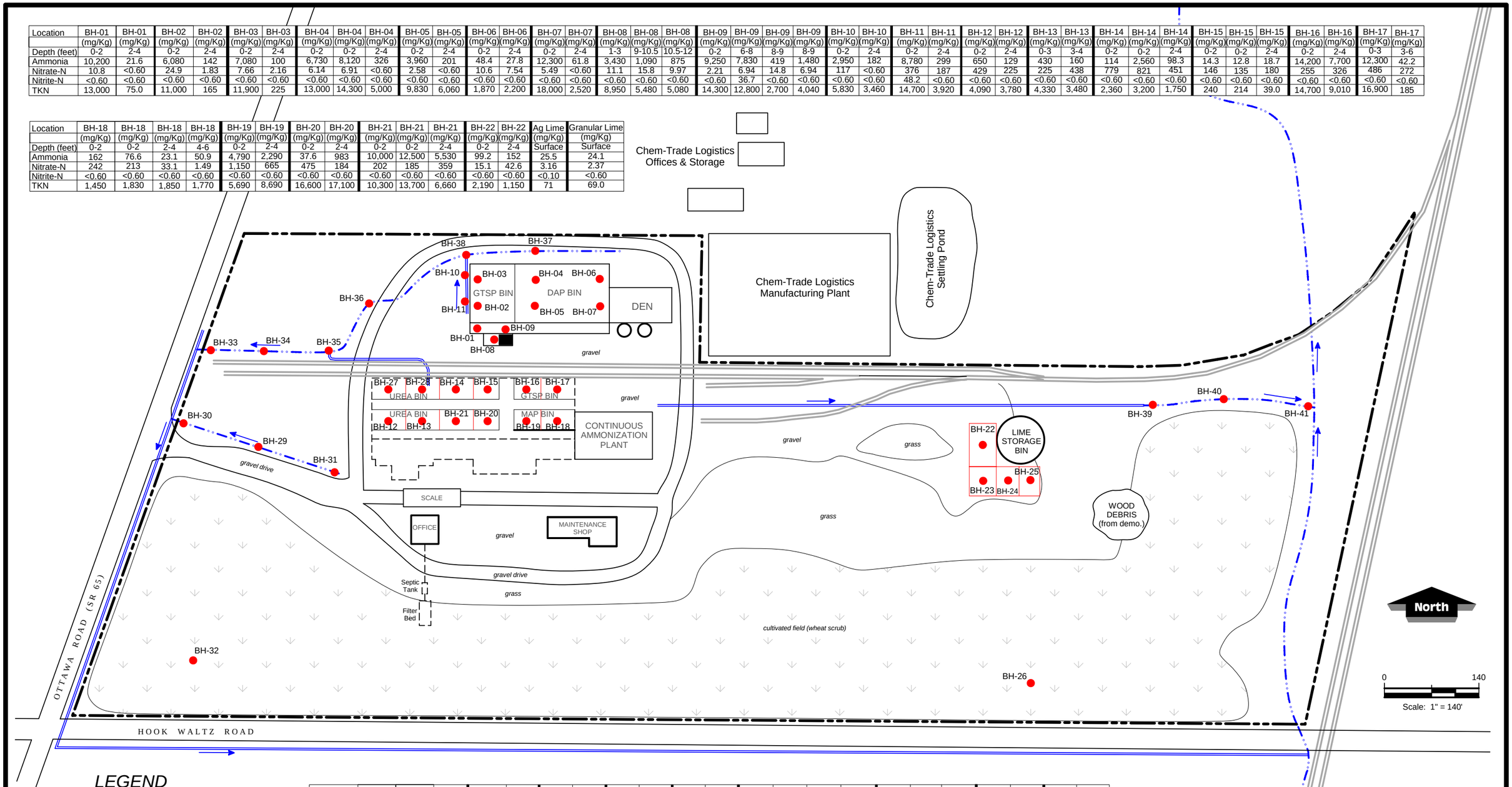
Location	BH-01	BH-01	BH-02	BH-02	BH-03	BH-03	BH-04	BH-04	BH-04	BH-05	BH-05	BH-06	BH-06	BH-07	BH-07	BH-08	BH-08	BH-08	BH-09	BH-09	BH-09	BH-09	BH-10	BH-10	BH-11	BH-11	BH-12	BH-12	BH-13	BH-13	BH-14	BH-14	BH-14	BH-15	BH-15	BH-15	BH-16	BH-16	BH-17	BH-17
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Depth (feet)	0-2	2-4	0-2	2-4	0-2	2-4	0-2	0-2	2-4	0-2	2-4	0-2	2-4	0-2	2-4	1-3	9-10.5	10.5-12	0-2	6-8	8-9	8-9	0-2	2-4	0-2	2-4	0-2	2-4	0-3	3-4	0-2	0-2	2-4	0-2	0-2	2-4	0-2	2-4	0-3	3-6
Ammonia	10,200	21.6	6,080	142	7,080	100	6,730	8,120	326	3,960	201	48.4	27.8	12,300	61.8	3,430	1,090	875	9,250	7,830	419	1,480	2,950	182	8,780	299	650	129	430	160	114	2,560	98.3	14.3	12.8	18.7	14,200	7,700	12,300	42.2
Nitrate-N	10.8	<0.60	24.9	1.83	7.66	2.16	6.14	6.91	<0.60	2.58	<0.60	10.6	7.54	5.49	<0.60	11.1	15.8	9.97	2.21	6.94	14.8	6.94	117	<0.60	376	187	429	225	225	438	779	821	451	146	135	180	255	326	486	272
Nitrite-N	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	36.7	<0.60	<0.60	<0.60	<0.60	48.2	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60
TKN	13,000	75.0	11,000	165	11,900	225	13,000	14,300	5,000	9,830	6,060	1,870	2,200	18,000	2,520	8,950	5,480	5,080	14,300	12,800	2,700	4,040	5,830	3,460	14,700	3,920	4,090	3,780	4,330	3,480	2,360	3,200	1,750	240	214	39.0	14,700	9,010	16,900	185

Location	BH-18	BH-18	BH-18	BH-18	BH-19	BH-19	BH-20	BH-20	BH-21	BH-21	BH-21	BH-22	BH-22	Ag Lime	Granular Lime
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Depth (feet)	0-2	0-2	2-4	4-6	0-2	2-4	0-2	2-4	0-2	0-2	2-4	0-2	2-4	Surface	Surface
Ammonia	162	76.6	23.1	50.9	4,790	2,290	37.6	983	10,000	12,500	5,530	99.2	152	25.5	24.1
Nitrate-N	242	213	33.1	1.49	1,150	665	475	184	202	185	359	15.1	42.6	3.16	2.37
Nitrite-N	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.10	<0.60
TKN	1,450	1,830	1,850	1,770	5,690	8,690	16,600	17,100	10,300	13,700	6,660	2,190	1,150	71	69.0



LEGEND

- = Rail Line / Rail Spur
- = Direction of Drainage Flow
- = Subject Property Boundary
- = Open Surface Water Drainage (Ditch)
- = Buried Water Drainage Pipe / Tile
- = Proposed Soil Boring / Sample Location
- = Sample Grid

Location	BH-23	BH-23	BH-23	BH-24	BH-24	BH-25	BH-25	BH-26	BH-26	BH-27	BH-27	BH-28	BH-28	BH-28	BH-28	BH-29	BH-29	BH-29	BH-30	BH-30	BH-31	BH-31
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Depth (feet)	0-2	0-2	2-4	0-2	2-4	0-2	2-4	0-2	2-4	0-2	2-4	0-2	2-4	2-4	4-6	0-2	0-2	2-4	0-2	2-4	0-2	2-4
Ammonia	22.8	25.3	221	18.5	31.4	115	19.6	23.7	<1.00	483	22.0	124	12.4	11.5	2.3	1,709	32.9	27.6	9.00	21.6	28.3	26.8
Nitrate-N	2.19	15.0	38.1	1.96	1.52	<0.60	8.28	<0.60	<0.60	110	252	2.76	6.07	8.89	21.1	39.1	37.9	12.3	26.6	4.29	10.9	3.01
Nitrite-N	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60
TKN	116	1,480	1,780	78.0	51.0	170	175	1,780	35.0	1,610	1,570	1,410	55.0	116	76.0	25.0	66.0	86.0	50.0	2,230	69.0	47.0

Location	BH-32	BH-32	BH-32	BH-33	BH-33	BH-34	BH-34	BH-35	BH-35	BH-35	BH-36	BH-36	BH-37	BH-37	BH-37	BH-38	BH-38	BH-39	BH-39	BH-40	BH-40	BH-41	BH-41
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Depth (feet)	0-2	0-2	2-4	0-2	2-4	0-2	2-4	0-2	0-2	2-4	0-2	2-4	0-2	0-2	2-4	0-2	2-4	0-2	2-4	0-2	2	0-2	2
Ammonia	45.5	8.80	15.1	358	21.4	8,440	40.3	7,280	7,550	39.5	8,360	2,170	1,450	1,420	24.1	6,400	38.4	269	47.3	200	29.3	98.1	34.3
Nitrate-N	2.54	2.09	1.56	169	30.2	7.16	5.48	1.92	3.72	8.22	15.3	3.41	34.2	20.3	24.8	25.2	2.58	44.9	23.4	119	39.3	66.7	20.6
Nitrite-N	<0.60	<0.60	<0.60	96.4	1.69	9.26	<0.60	9.30	11.0	<0.60	19.9	<0.60	<0.60	<0.60	<0.60	4.38	<0.60	3.52	<0.60	3.00	<0.60	<0.60	9.96
TKN		2,170	44.0	1,970	1,100	8,520	59.0	8,610	7,560	42.0	8,740	2,580	1,620	1,550	73.0	7,490	53.0	432	68.0	333	163	166	99.0

FIGURE 3

ALLIED ENVIRONMENTAL SERVICES, INC.

PROPOSED SOIL & GROUNDWATER SAMPLE LOCATION MAP

SOUTHERN ILLINOIS RAIL FACILITY
7570 OTTAWA ROAD
CAIRO, OHIO

SCALE: 1" = 140' | DATE: 12/08/04 | DRAWN BY: CR