PHASE I: SURFACE EMISSIONS ABOVE 500ppm

GPS Coordinates		Readings (ppm)	Comments
29° 33' 43.88"	095° 26' 41.99"	1162	around base W-30A
29° 33' 41.32"	095° 26' 48.76"	529	Cracks in ground (tire marks)
29° 33' 38.52"	095° 26' 43.22"	800	Well 45A
29° 33' 29.7"	095° 26' 45.8"	**9500/563**	
29° 33' 27.0"	095° 26' 53.3"	517	W85
29° 33' 20.84"	095° 26' 41.53"	2600	

Investigation Type: AIRFIMON
Air Account No.: FG-0536-E
Attachment No.: 5
Page No.: 1 of 8

PHASE II: SURFACE EMISSIONS ABOVE 500ppm

GPS Coordinates		Readings (ppm)	Comments
29° 33' 40.2''	095° 27' 05.5''	2186	wp#30 - equipment: tipping pad

PHASE III: SURFACE EMISSIONS ABOVE 500ppm

GPS Coordinates		Readings (ppm)	Comments
29° 33' 58.0''	095° 26' 28.6''	2099	0.001 ppm H2S; photos #3 & 4 (IMG 0307 & 0308)
29° 33' 58.0''	095° 26' 28.6''	1708	photos#5 & 6 (IMG 0309 & 0310); both holes photo #7 (IMG 0311); Photos 3-7 taken facing N/NW
29° 33' 50.8''	095° 26' 30.9''	1051	W3-5R; at base of well; 2:18pm ; photos #8 &9 (IMG 0312 & 0313) photos taken facing East
	095° 26' 30.8''	1538	reading from vacuum line; photo #10 (IMG 0314) facing N; photo #11 (IMG 0315) facing S
29° 33' 50.1''	095° 26' 36.2''	1203	@R facing N 0.002 ppm H2S;
29° 33' 50.1''	095° 26' 36.2''	577	@R facing N 0.001 ppm H2S
29° 33' 51.4''	095° 26' 35.2''	2808	W3-12R; 0.002 ppm H2S; reading at base of vacuum line; photo#15&16 (IMG 0319 &0320)
29° 33' 55.7''	095° 26' 33.8''	702	wp#61; 0.002 ppm H2S
29° 33' 55.1''	095° 26' 36.9''	848	0.004 ppm H2Splugged wellhead; reading taken from dirt crevice @ base ; 0.004 ppm H2S; photo #17 (IMG 0321) facing N; photo #18 (IMG 0322) facing NNW
29° 33' 51.2''	095° 26' 41.0''	1724	SE phase 3 near KK; Photos #19&20 (IMG 0323&0324); reading taken at base of pipe in cracked dirt; high reading near 1.05% taken at southern side of pipe; 0.061 ppm H2S
29° 33' 55.7''	095° 26' 40.3''	1918	wp#77 groundreading; reading from edge of topsoil northern side near vegetation
29° 33' 54.6''	095° 26' 43.7''	6249	0.004 ppm H2S, photo #23 (IMG 0327); unnumbered well near WR-28A; reading collected on TVA serial # 115249-419; reading taken @base of well, S-side
29° 33' 58.0''	095° 26' 28.6''	2099	0.001 ppm H2S; photos #3 & 4 (IMG 0307 & 0308)
29° 33' 58.0''	095° 26' 28.6''	1708	photos#5 & 6 (IMG 0309 & 0310); both holes photo #7 (IMG 0311); Photos 3-7 taken facing N/NW
29° 33' 50.8''	095° 26' 30.9''	1051	W3-5R; at base of well; 2:18pm ; photos #8 &9 (IMG 0312 & 0313) photos taken facing East
	095° 26' 30.8''	1538	reading from vacuum line; photo #10 (IMG 0314) facing N; photo #11 (IMG 0315) facing S
29° 33' 50.1''	095° 26' 36.2''	1203	@R facing N 0.002 ppm H2S;
29° 33' 50.1''	095° 26' 36.2''	577	@R facing N 0.001 ppm H2S
29° 33' 51.4''	095° 26' 35.2''	2808	W3-12R; 0.002 ppm H2S; reading at base of vacuum line; photo#15&16 (IMG 0319 &0320)
29° 33' 55.7''	095° 26' 33.8''	702	wp#61; 0.002 ppm H2S
29° 33' 55.1''	095° 26' 36.9''	848	0.004 ppm H2Splugged wellhead; reading taken from dirt crevice @ base ; 0.004 ppm H2S; photo #17 (IMG 0321) facing N; photo #18 (IMG 0322) facing NNW

PHASE III: SURFACE EMISSIONS ABOVE 500ppm

GPS Coordinates		Readings (ppm)	Comments
29° 33' 51.2''	095° 26' 41.0''	1724	SE phase 3 near KK; Photos #19&20 (IMG 0323&0324); reading taken at base of pipe in cracked dirt; high reading near **1.05%** taken at southern side of pipe; 0.061 ppm H2S
29° 33' 55.7''	095° 26' 40.3''	1918	wp#77 groundreading; reading from edge of topsoil northern side near vegetation
29° 33' 55.7''	095° 26' 44.2''	**1.89%**	plugged well; reading taken @ base of well; 0.086 ppm H2S; photo #21&22 (IMG 0325&0326) - facing North
29° 33' 54.6''	095° 26' 43.7''	6249	0.004 ppm H2S, photo #23 (IMG 0327); unnumbered well near WR-28A; reading collected on TVA serial # 115249-419; reading taken @base of well, S-side
29° 33' 54.6''	095° 26' 43.7''	8284	reading taken @base vacuum s-side; photo #23 (IMG 0327) facing N
29° 33' 54.1''	095° 26' 43.4''	9343	reading taken @ base of well W3-28A; (s-side); 0.18 ppm H2S
		599	reading taken @ base of vacuum (w-side) 0.010 ppm H2S
29° 33' 55.0''	095° 26' 46.5''	785	well #341(?) reading taken @ base vacuum; 0.015 ppm H2S
		918	reading taken @base of well; 0.015 ppm H2S (IMG0329)
29° 34' 01.6''	095° 27' 06.6''	**1.12%**	W3-71; reading taken @ base of well; 0.012 ppm H2S; photo 26&27 (IMG 0330&0331)
29° 33' 58.6''	095° 27' 06.7''	2912	wp#108 0.004 ppm H2S
29° 33' 57.4''	095° 27' 06.6''	1880	W3-75reading taken @ base of well
29° 33' 57.4''	095° 27' 06.3''	1517	reading taken @ base of vacuum; photo #28&29 (IMG 0332 & 0333) facing N
29° 33' 55.5''	095° 27' 06.5''	3078	W3-74; reading taken @ base of vacuum; 0.0137 ppm H2S; photo #30&31 (IMG 0334& 0335) - facing N
29° 33' 55.3''	095° 27' 06.7''	6984	reading on left pipe facing S; 0.024 ppm H2S; photo #32 (IMG 0336); these are force main valves located S side of hill near "N"
29° 33' 55.3''	095° 27' 06.9''	3117	reading from near force main and well; 0.010 ppm H2S; sump photo # 33&34 (IMG 0337 & 0338) taken facing S
29° 33' 55.3''	095° 27' 06.9''	1119	@ right side of large crevasse in dirt; photo 35 (IMG 0339) facing N; sump and force main valves
29° 33' 55.3''	095° 27' 06.9''	784	@ left side of large crevasse in dirt; photo 35 (IMG 0339) facing N
29° 33' 57.4''	095° 27' 03.6''	2710	W3-66; reading from base of well; 0.62 ppm H2S; photos #6 & 37 (IMG 0340 & 0341) facing N
29° 33' 57.4''	095° 27' 03.6''	1107	W3-66; reading from base of vacuum; 0.024 ppm H2S; photos #6 & 37 (IMG 0340 & 0341) facing N
29° 33' 59.5''	095° 27' 03.2''	**1.46%**	W3-67; @ base of vacuum; 0.004 ppm H2S; photos 39 & 39 (IMG 0342 & 0343) facing W
29° 33' 59.5''	095° 27' 03.2''	2899	W3-67; @ base of well; photos 39 & 39 (IMG 0342 & 0343) facing W
29° 34' 03.3''	095° 27' 03.3''	869	W3-59; @ base of well; 0.003 ppm H2S; photo # 40 (IMG 0344) facing S

PHASE III: SURFACE EMISSIONS ABOVE 500ppm

GPS Coordinates		Readings (ppm)	Comments
29° 34' 02.9''	095° 27' 03.7''	6317	0.20 ppm H2S and 2.0 ppm H2S; photo 41 & 42 (IMG 0345 & 0346); videos 43 & 44 (MVI 0347 & 0348); bubbling liquid in soil
29° 34' 02.9''	095° 27' 03.8''	TVA flamed out after reading >7000	20 ppm H2S; video/photo # 45 & 46 (MVI 0349 & IMG 0350); hole in soil
29° 34' 05.4''	095° 26' 58.9''	949	reading from base of well; well located on N side of slope near "u" (and N of W3-56)
29° 34' 05.4''	095° 26' 58.9''	3347	W base of pipe S of well
29° 34' 05.4''	095° 26' 58.9''	**2.27%**	@ pipe with pressure valve (s side) in crevasse; 0.11 ppm H2S; photos 47 &48 (IMG 0351 & 0352) facing N
29° 34' 04.1''	095° 26' 58.8''	5349	W3-56; at base of vacuum; 0.28 ppm H2S; photo #49 (IMG 0353) facing S
29° 34' 04.1''	095° 26' 58.8''	1091	W3-56; at base of well; 0.022 ppm H2S; photo #49 (IMG 0353) facing S
29° 33' 54.1''	095° 26' 55.1''	1556	W3-46 @ base of well; photo #50 (IMG 0354) facing S; 0.46 ppm H2S
29° 33' 55.6''	095° 26' 55.1''	1703	wp #142
29° 33' 57.8''	095° 26' 54.2''	5738	W3-39; 31 ppm H2S; photo #51 (IMG 0355) facing S
29° 34' 00.0''	095° 26' 54.2''	1341	W3-39 and crevasse to NW; 0.31 ppm H2S; reading taken at base of well; photos # 52&53 (IMG 0356 & 0357) facing N/NE; photo #54 (IMG 0358) facing NE
29° 34' 00.0''	095° 26' 54.2''	1092	W3-39 and crevasse to NW; 0.34 ppm H2S; reading taken at base of vacuum; photos # 52&53 (IMG 0356 & 0357) facing N/NE; photo #54 (IMG 0358) facing NE
29° 34' 02.2''	095° 26' 54.2''	4169	bubbling liquid; 0.039 ppm H2S; photo/video # 55, 56, 57 (IMG 0359, 0360; MVI 0361)
29° 34' 02.2''	095° 26' 54.2''	904	bubbling liquid; 0.18 ppm H2S; photo/video 58, 59, 60 (IMG 0362, 0363, MVI 0364)
29° 34' 02.6''	095° 26' 54.1''	2281	bubbling liquid - larger pool; 0.089 ppm H2S; photo/video 61, 62, 63 (IMG 0365, 0367; MVI 0366)
29° 34' 04.4''	095° 26' 54.2''	2358	wp #150; W3-87; 0.024 ppm H2S; photo # 64&65 (IMG 0368, 0369)
29° 34' 04.7''	095° 26' 53.9''	3911	@ base of well; 2.5 ppm H2S; photo # 64&65 (IMG 0368, 0369)
29° 34' 05.8''	095° 26' 52.5''	**3.03%**	header access, reading @ base of main well; 33 ppm H2S; photo # 66 (IMG 0370) facing S
29° 34' 05.8''	095° 26' 52.5''	**flame out after reading 1.92%**	reading @ base of "air" pipe; 25 ppm H2S; photo # 66 (IMG 0370) facing S
29° 34' 05.4''	095° 26' 52.6''	1052	wp # 156
29° 34' 04.4''	095° 26' 52.6''	1872	wp # 157
29° 34' 04.4''	095° 26' 52.6''	consistant ~1200 range	background

PHASE III: SURFACE EMISSIONS ABOVE 500ppm

GPS Coordinates		Readings (ppm)	Comments
29° 34' 04.4"	025° 26' 52.6"	1181	background reading #2
29° 34' 03.4"	095° 26' 52.2"	**2.98%**	W3-90; 11.7 ppm H2S, reading taken from base of vacuum; venting captured on FLIR at and before 94.56 min); photo #67 (IMG 0371) facing N
29° 34' 03.4"	095° 26' 52.2"	2099	W3-90; reading taken from base of well; photo #67 (IMG 0371) facing N
29° 33' 59.6"	095° 26' 51.4"	2018	W3-92; reading from base of force main; photo #68 (IMG 0372) facing S; photo # 69 (IMG 0373) facing N
29° 33' 59.6"	095° 26' 51.4"	9022	W3-92; reading from base of force main; photo #68 (IMG 0372) facing S; photo # 69 (IMG 0373) facing N
29° 33' 59.6"	095° 26' 51.4"	**0.64%**	W3-92; reading from base of air line; **HL H2S**; photo #68 (IMG 0372) facing S; photo # 69 (IMG 0373) facing N
29° 33' 59.6"	095° 26' 51.4"	**1.44%**	W3-92; reading from base of well; photo #68 (IMG 0372) facing S; photo # 69 (IMG 0373) facing N
29° 33' 53.9"	095° 26' 50.7"	3735	W3-44; reading from base of well; photo # 70 (IMG 0374)
29° 33' 53.9"	095° 26' 50.7"	8818	W3-44; reading from base of vacuum; **HL H2S**; photo # 70 (IMG 0374)
29° 33' 53.3"	095° 26' 51.4"	1081	several holes in soil have high readings; 0.13 ppm H2S; photo # 71 (IMG 0375)
29° 33' 55.9"	095° 26' 30.5"	400-9000	Well W3-21A Pic 0383 and 0384 1406
29° 33' 50.7"	095° 26' 30.0"	**1% @ base, 200-500 at connectors**	Well LCR 3-1 Pic 0386 H2S .002-.004 .006 @ base 1420
29° 33' 53.7"	095° 26' 33.8"	2000-4000	Well W3-11R Pic 0387 and 0388 H2S .022 1447
29° 33' 56.9"	095° 26' 36.0"	2000-4000	Start Point 1515
29° 33' 54.7"	095° 26' 36.0"	**1%-6%**	Well W3-18A Pic 0391, 0392 & 0393 H2S .025; very strong smell 1524
29° 33' 50.3"	095° 26' 37.2"	2000-6000	Air risers Pic 0394 and 0395
29° 33' 55.8"	095° 26' 42.6"	900-1000	Start Point 1646
29° 33' 54.4"	095° 26' 42.4"	5000-6000	Concrete tipping pad Pic 0396 and 0397 H2S .054 1654
29° 33' 51.3"	095° 26' 43.1"	30-50 @ top 335 @ connector 530 @ base	Valve with connectors 1708
29° 33' 57.7"	095° 27' 11.4"	576	H2S .004 838
29° 33' 58.9"	095° 27' 11.4"	721	H2S.42 840
29° 34' 03.8"	095° 27' 07.8"	1040	859
29° 33' 55.5"	095° 27' 04.2"	**2-3%**	W3-65, H2S .004 ppm, Picture 106-388 & 399
29° 34' 01.5"	095° 27' 04.3"	500-1750	W3-70, H2S 0.72 ppm, H2S 05.51ppm 10:19:00 AM
29° 34' 05.1"	095° 27' 04.6"	1628	10:36, H2S 0.014 ppm, End Transect
29° 34' 03.6"	095° 27' 01.0"	**1323-2.41%**	W3-58, H2S 0.34 ppm, Picture 106-400 & 401, 11:07
29° 34' 02.1"	095° 26' 59.8"	1000-2400	W3-69, H2S 1.45ppm, Picture106-402, 11:19
29° 33' 57.2"	095° 26' 58.7"	18.54-488	W3-6?,11:42

PHASE III: SURFACE EMISSIONS ABOVE 500ppm

GPS Coordinates		Readings (ppm)	Comments
29° 33' 55.0"	095° 26' 59.9"	7024	W3-63, H2S .009ppm, Picture 106-403, 11:52
29° 33' 56.3"	095° 26' 56.1"	**9102-1.14%**	W3-51, H2S 5.8 ppm, Picture 106-404,2:23
29° 34' 00.4"	095° 26' 55.8"	1020	H2S 0.49 ppm, 2:37
29° 34' 01.7"	095° 26' 55.4"	3650	W3-53A, H2S 5.8ppm, Picture 106-405 & 406 & 407, 2:45
29° 34' 01.7"	095° 26' 54.9"	1480	W3-40A, 2:54
29° 34' 01.9"	095° 26' 53.4"	4782	W3-88, H2S 0.99 ppm, Picture 106-408, 4:00
29° 33' 57.2"	095° 26' 52.1"	1211	W3-38, 4:24
29° 33' 57.3"	095° 26' 52.0"	1311	Header Access, 4:26
29° 33' 55.4"	095° 26' 51.5"	6388	W3-48, H2S 0.31 ppm, Picture 106-409
29° 33' 53.4"	095° 26' 52.9"	580-1164	W3-45, 4:44
29° 33' 52.9"	095° 26' 35.9"	**1193 and 1.13%**	well W3-23 (see photo 2)
29° 33' 50.3"	095° 26' 39.1"	3320	
29° 33' 50.8"	095° 26' 38.9"	1400	
29° 33' 55.7"	095° 26' 42.1"	**320 (reading held steady at 1-2% but read as high as 8.03%)**	well W3-27A (see photos 3 &4)
29° 33' 56.8"	095° 26' 41.2"	1806	well is southwest of W3-27A
29° 33' 53.6"	095° 26' 41.2"	4407	
29° 33' 55.7"	095° 26' 44.3"	2600-3300	non-producing well
29° 33' 57.2"	095° 26' 45.1"	**1%**	
29° 33' 57.2"	095° 26' 45.5"	766	well 330 NP
29° 33' 57.6"	095° 27' 08.6"	600	
29° 34' 03.1"	095° 27' 05.4"	628	well W3-72
29° 34' 02.5"	095° 27' 05.3"	2753	well is south of W3-72
29° 34' 04.1"	095° 27' 05.6"	1205	CS3-10
29° 34' 03.9"	095° 27' 06.2"	1016	
29° 34' 01.3"	095° 27' 02.1"	**3.34%**	well W3-60
29° 33' 57.5"	095° 27' 01.0"	**3804 and 1.03%**	well W3-61
29° 33' 55.6"	095° 27' 01.9"	**16.55%**	well W3-64; health effects experienced
29° 33' 55.8"	095° 27' 02.8"	831	well No ID
29° 33' 56.0"	095° 27' 03.1"	1875 and 3059	Force Main
29° 33' 58.7"	095° 26' 56.3"	**8.89%**	well NO ID
29° 34' 00.6"	095° 26' 57.0"	512	well NO ID
29° 34' 04.3"	095° 26' 56.7"	695	
29° 34' 04.4"	095° 26' 56.8"	4207	well W3-55

PHASE III: SURFACE EMISSIONS ABOVE 500ppm

GPS Coordinates		Readings (ppm)	Comments
29° 34' 05.6"	095° 26' 51.5"	528	
29° 34' 05.3"	095° 26' 51.6"	**3.51%**	well W389; W389= 36; Force Main= 1.9
29° 34' 02.8"	095° 26' 50.6"	**W3-94 = 617; Force Main=1.42%**	well W3-94
29° 34' 01.4"	095° 26' 51.1"	W3-91=27.21; Force Main=3648-6187	well W3-91
29° 33' 57.1"	095° 26' 49.8"	474 and 1339	well 347
29° 33' 55.3"	095° 26' 49.1"	**1.20%**	well 342