

Table 1
Hawxhurst 24-09 Historical Spill
Soil Sample Summary

LABORATORY DATA SUMMARY											
Sample ID	24-09 Comp-051315	2409-FPT-52815	2409-FPM-52815	2409-FPO-52815	2409-NW-52815	2409-SW-52815	2409-EW-52815	2409-WW-52815	2409-BOT-52815	COGCC TABLE 910-1 CONCENTRATION LEVELS	UNITS
Sample Depth	1-6"	1-6"	1-4"	1-6"	3.5'	4'	4'	5'	6'		
Longitude N	NA	39.2594	39.25938	39.25915	39.25906	39.25908	39.25909	39.25907	39.25906		
Latitude W	NA	-107.93626	-107.9358	-107.93568	-107.93561	-107.93562	-107.93562	-107.93561	-107.9356		
Sample Type	Composite	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab		
Sample Date	5/13/15	5/28/15	5/28/15	5/28/15	5/28/15	5/28/15	5/28/15	5/28/15	5/28/15		
Sample Description	Composite of Spoils Pile	Flow Path Terminal	Flow Path Middle	Flow Path Origin	Confirmation- North Sidewall	Confirmation- South Sidewall	Confirmation- East Sidewall	Confirmation- West Sidewall	Confirmation- Bottom		
Analytical Parameters											
TPH											
TPH Gasoline Range Organics	37	NT	NT	NT	ND	ND	ND	ND	33	500	mg/kg
TPH Diesel Range Organics	56	NT	NT	NT	NT	62	40	30	37		
BTEX											
Benzene	0.047	NT	NT	NT	ND	ND	ND	ND	ND	0.17	mg/kg
Toluene	0.24	NT	NT	NT	ND	ND	ND	ND	ND	85	mg/kg
Ethylbenzene	ND	NT	NT	NT	ND	ND	ND	ND	ND	100	mg/kg
Total Xylene	0.74	NT	NT	NT	ND	ND	ND	ND	ND	175	mg/kg
Metals											
Arsenic	4.80	8.60	4.9	5.1	4.4	12	11	9.2	9.8	0.39	mg/kg
Barium	430	NT	NT	NT	NT	NT	NT	NT	270	15,000	mg/kg
Cadmium	5.200	NT	NT	NT	NT	NT	NT	NT	ND	70	mg/kg
Chromium	12.0	NT	NT	NT	NT	NT	NT	NT	12	NA	mg/kg
Copper	13.00	NT	NT	NT	NT	NT	NT	NT	14	3,100	mg/kg
Lead	5.30	NT	NT	NT	NT	NT	NT	NT	4.5	400	mg/kg
Mercury	0.022	NT	NT	NT	NT	NT	NT	NT	0.025	23	mg/kg
Nickel	18	NT	NT	NT	NT	NT	NT	NT	24	1,600	mg/kg
Selenium	ND	NT	NT	NT	NT	NT	NT	NT	ND	390	mg/kg
Silver	ND	NT	NT	NT	NT	NT	NT	NT	ND	390	mg/kg
Zinc	26.0	NT	NT	NT	NT	NT	NT	NT	36	23,000	mg/kg
SAR Metals Analysis											
Sodium Adsorption Ratio	16	23	11	48	0.94	6.4	21	60	20	<12	ratio
Polynuclear Aromatic Hyrdrocarbons											
Acenaphthene	ND	NT	NT	NT	NT	NT	NT	NT	ND	1,000	mg/kg
Anthracene	ND	NT	NT	NT	NT	NT	NT	NT	ND	1,000	mg/kg
Benzo(a)anthracene	ND	NT	NT	NT	NT	NT	NT	NT	ND	0.22	mg/kg
Benzo(a)pyrene	ND	NT	NT	NT	NT	NT	NT	NT	ND	0.022	mg/kg
Benzo(b)fluoranthene	ND	NT	NT	NT	NT	NT	NT	NT	ND	0.22	mg/kg
Benzo(k)fluoranthene	ND	NT	NT	NT	NT	NT	NT	NT	ND	2.2	mg/kg
Chrysene	ND	NT	NT	NT	NT	NT	NT	NT	ND	22	mg/kg
Dibenzo(a,h)anthracene	ND	NT	NT	NT	NT	NT	NT	NT	ND	0.022	mg/kg
Fluoranthene	ND	NT	NT	NT	NT	NT	NT	NT	9.9	1,000	mg/kg
Fluorene	ND	NT	NT	NT	NT	NT	NT	NT	ND	1,000	mg/kg
Indeno(1,2,3-cd)pyrene	ND	NT	NT	NT	NT	NT	NT	NT	ND	0.22	mg/kg
Napthalene	ND	NT	NT	NT	NT	NT	NT	NT	ND	23	mg/kg
Pyrene	ND	NT	NT	NT	NT	NT	NT	NT	24	1,000	mg/kg
General Chemistry											
Chromium, Hexavalent	ND	NT	NT	NT	NT	NT	NT	NT	ND	23	mg/kg
Chromium, Trivalent	12.0	NT	NT	NT	NT	NT	NT	NT	12	120,000	mg/kg
Specific Conductivity	11.0	2.4	6	12	0.90	2.8	22	17	13	<4 or 2 x the background	mmhos/cm
pH	8.4	9.0	8.4	8.7	8.6	8.5	8.4	9.7	8.40	6-9	su

mg/kg - milligrams per kilogram
mg/L - milligrams per liter
J - indicates an estimated value
mmhos/cm - millimhos per centimeter
mv - millivolts
su - standard units
NA - not applicable
NT - parameter was not tested
ND - not detected above method detection limit

Over COGCC Table 910-1 concentration levels but under BACKGROUND level.
Over COGCC Table 910-1 concentration levels and not within BACKGROUND level.
Over COGCC Table 910-1 concentration levels