

LABORATORY DATA SUMMARY																							COGCC TABLE #16-1 CONCENTRATION LEVELS		Residential Soil Screening Level	Protection of Groundwater	UNITS
Sample ID	605-2 Background N	605-2 Background NW	605-2 Background SW	605-2 Background S	S WALL 8FT	E WALL 10FT	N WALL 8	W WALL 8	BOTTOM (W)	W POT	SPOILS	OVERBURDEN	605-2 Arsenic S. WALL	605-2 Arsenic E. WALL	BOTTOM 10-21-14	Bottom 6 ft	605-2 Sep Bottom	605-2 Sep Wwall	605-2 Sep Swall	605-2 Sep Nwall	605-2 Sep Ewall						
Sample Depth	14"	12"	7"	6"	Excavation Clearance (F)	Excavation Clearance (10')	Excavation Clearance (F)	Excavation (F)	Excavation (F)	6'	Spill Piles (Composite)	Overburden (Composite)	Excavation Clearance (F)	Excavation Clearance (F)	Excavation (F)	Excavation Clearance (F)	#	#	#	#	#						
Latitude					39.548744	39.548755	39.548744	39.548759	39.548735	-	-	-	39.548744	39.548759	39.548759	39.548754	39.548754	39.548754	39.548754	39.548754	39.548754						
Longitude					-108.240374	-108.240355	-108.240421	-108.240442	-108.240432	-108.240489	-	-	-108.240374	-108.240355	-108.240408	-108.240461	-108.240489	-108.240446	-108.240446	-108.240446	-108.240446						
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Comp	Comp	Comp	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab						
Sample Description	Background North	Background Northwest	Background Southwest	Background South	Excavation Clearance (F)	Excavation Clearance (10')	Excavation Clearance (F)	Excavation (F)	Excavation (F)	Pot hole west of Sep	Spill Piles (Composite)	Overburden (Composite)	Excavation Clearance (F)	Excavation Clearance (F)	Excavation (F)	Excavation Clearance (F)	Excavation Clearance	Excavation Clearance	Excavation Clearance	Excavation Clearance	Excavation Clearance						
Sample Date	7/6/2011	7/6/2011	7/6/2011	7/6/2011	9/23/2014	9/23/2014	9/23/2014	9/23/2014	9/23/2014	9/23/2014	9/23/2014	10/6/2014	10/6/2014	10/6/2014	10/6/2014	10/12/2014	10/9/2014	9/6/2023	9/6/2023	9/6/2023	9/6/2023						
Analytical Parameters																											
TPH																											
TPH Gasoline Range Organics					40.5	4.5	4.5	3990	2300	17.5	57	4.5	NT	NT	12300	100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100						
TPH Diesel Range Organics (C10-C28)					< 0.50	< 0.50	< 0.50	1800	1000	< 0.50	26	< 0.50	NT	NT	2500	4.79	35.5	23.1	53.5	8.86	8.86						
TPH Oil Range Organics (C28-C36)					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	10.9	70.1	23.6	93.41	13.7						
TOTAL TPH					< 50	< 5	< 5	5700	4500	< 18	83	< 5.0	NT	NT	14500	< 100.80	15.79	105.7	46.8	147.01	22.86						
BTEX																											
Benzene					< 0.0050	< 0.0050	< 0.0050	3.2	1.6	< 0.0050	< 0.0050	< 0.0050	NT	NT	NT	NT	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	1.2	0.0026				
Toluene					< 0.0025	< 0.0025	< 0.0025	110	39	< 0.0025	< 0.0025	< 0.0025	NT	NT	NT	NT	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	490	0.69				
Ethylbenzene					< 0.0050	< 0.0050	< 0.0050	20	7.2	< 0.0050	< 0.0050	< 0.0050	NT	NT	NT	NT	< 0.00250	< 0.00250	< 0.00250	< 0.00250	< 0.00250	8.8	0.78				
Total Xylenes					< 0.015	< 0.015	< 0.015	290	120	< 0.015	< 0.015	< 0.015	NT	NT	NT	NT	< 0.00650	< 0.00650	< 0.00650	< 0.00650	< 0.00650	58	9.9				
TMS																											
1,2,4-Trimethylbenzene					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	30	0.0081				
1,3,5-Trimethylbenzene					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.00500	27	0.0067				
Metals																											
Arsenic	6.5	9.6	9	6.6	71	54	28	NT	NT	15	10	15	10	12	NT	NT	6.9	7.03	7.11	8.83	6.62	0.68	0.29				
Barium	300	260	360	260	530	510	490	NT	NT	490	290	260	NT	NT	NT	NT	278	321	282	321	299	15,000	62				
Cadmium	0.83	0.89	0.68	0.76	< 0.50	< 0.50	< 0.50	NT	NT	< 0.50	< 0.50	0.8	NT	NT	NT	NT	0.519	0.511	< 0.500	< 0.500	< 0.500	71	0.38				
Chromium (Hexavalent)	3.6	< 2.0	4.3	10	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0	< 2.0	2.0	NT	NT	NT	NT	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.3	0.0067				
Copper	17	22	21	16	40	34	23	NT	NT	30	18	17	NT	NT	NT	NT	16.2	15.3	14.3	15.5	14.8	3,100	46				
Lead	18	19	20	17	30	19	16	NT	NT	20	12	12	NT	NT	NT	NT	12	11.4	10.7	25.1	12.7	400	14				
Nickel	24	23	19	24	39	42	39	NT	NT	50	23	18	NT	NT	NT	NT	22.5	26.4	21.5	22.4	23.5	1,500	26				
Selenium	< 5.0	< 5.0	< 5.0	< 5.0	< 10.0	< 10.0	< 10.0	NT	NT	< 10.0	< 10.0	< 10.0	NT	NT	NT	NT	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	390	0.26				
Silver	< 1.5	< 1.5	< 1.5	< 1.5	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	NT	NT	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	390	0.8				
Zinc	56	63	57	56	70	69	59	NT	NT	75	60	52	NT	NT	NT	NT	67.5	59.5	62.3	64.5	69.3	23,000	370				
SAR Metals Analysis																											
Sodium Adsorption Ratio					1.9	2	1.8	NT	NT	1.5	2.1	0.6	NT	NT	NT	NT	0.408	0.607	0.491	0.329	0.335	<6	ratio				
Polynuclear Aromatic Hydrocarbons																											
Acenaphthene					< 0.0060	< 0.0060	< 0.0060	NT	NT	< 0.0060	< 0.0060	< 0.0060	NT	NT	NT	NT	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	380	0.55				
Anthracene					< 0.0060	< 0.0060	< 0.0060	NT	NT	< 0.0060	< 0.0060	< 0.0060	NT	NT	NT	NT	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	1,600	5.8				
Benzo[a]anthracene					< 0.0060	< 0.0060	< 0.0060	NT	NT	< 0.0060	< 0.0060	< 0.0060	NT	NT	NT	NT	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	0.11	0.011				
Benzo[a]pyrene					< 0.0060	< 0.0060	< 0.0060	NT	NT	< 0.0060	< 0.0060	< 0.0060	NT	NT	NT	NT	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	0.11	0.24				
Benzo[b]fluoranthene					< 0.0060	< 0.0060	< 0.0060	NT	NT	< 0.0060	< 0.0060	< 0.0060	NT	NT	NT	NT	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	1.1	0.3				
Benzo[k]fluoranthene					< 0.0060	< 0.0060	< 0.0060	NT	NT	< 0.0060	< 0.0060	< 0.0060	NT	NT	NT	NT	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	11	2.9				
Chrysene					< 0.0060	< 0.0060	< 0.0060	NT	NT	< 0.0060	< 0.0060	< 0.0060	NT	NT	NT	NT	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	110	9				
Dibenz[a,h]anthracene					< 0.0060	< 0.0060	< 0.0060	NT	NT	< 0.0060	< 0.0060	< 0.0060	NT	NT	NT	NT	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	0.11	0.096				
Fluoranthene					< 0.0060	< 0.0060	< 0.0060	NT	NT	< 0.0060	< 0.0060	< 0.0060	NT	NT	NT	NT	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	240	8.9				
Fluorene					< 0.0060	< 0.0060	< 0.0060	NT	NT	< 0.0060	< 0.0060	< 0.0060	NT	NT	NT	NT	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	240	0.54				
Indeno[1,2,3-cd]pyrene					< 0.0060	< 0.0060	< 0.0060	NT	NT	< 0.0060	< 0.0060	< 0.0060	NT	NT	NT	NT	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	1.1	0.98				
1-Methylnaphthalene					< 0.20	< 0.20	< 0.20	NT	NT	< 0.20	< 0.20	0.029	NT	NT	NT	NT	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	180	0.006				
2-Methylnaphthalene					< 0.20	< 0.20	< 0.20	NT	NT	< 0.20	< 0.20	0.024	NT	NT	NT	NT	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	24	0.019				
Naphthalene					< 0.020	< 0.020	< 0.020	NT	NT	< 0.020	< 0.020	< 0.020	NT	NT	NT	NT	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 0.0200	2	0.0038				
Pyrene					< 0.0060	< 0.0060	< 0.0060	NT	NT	< 0.0060	< 0.0060	< 0.0060	NT	NT	NT	NT	< 0.00600	< 0.00600	< 0.00600	< 0.00600	< 0.00600	180	1.3				
General Chemistry																											
Boron					NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200		2				
Specific Conductivity	0.029	0.024	0.025	0.035	0.045	0.072	0.045	NT	NT	0.053	0.430	0.170	NT	NT	NT	NT	0.266	0.261	0.270	0.145	0.245	<4					
pH (1TB Qualifier)	6.90	6.50	6.40	6.30	6.00	6.00	6.10	NT	NT	6.90	6.40	6.6	NT	NT	NT	NT	7.56	7.70	7.22	7.36	7.51	6-8.3					

mg/kg - milligrams per kilogram
mg/L - milligrams per liter
J - indicates an estimated value
B - same as value in brackets associated with it
JC - sample matrix interfered with the ability to make any accurate determination; spike value is low
mch/cm - millimhos per centimeter
su - sulfate
su - sulfate units
NA - not applicable
NT - parameter was not tested
ND - not detected above method detection limit
TB - Samples not wet packed close to holding time expiration

Over COGCC Table #16-1 concentration levels but under BACKGROUND/Screening levels
Over COGCC Table #16-1 concentration levels but under the BACKGROUND level
Over COGCC Table #16-1 concentration levels

