

On October 11, 2016, BOI's EGM, Tony Martinelli and EPS, Bruce Gearhart traveled to the Tub Mills Farm to collect samples of telephone poles, rail ties and soil. The property owner John Oliver was also present on site initially. A summary of the samples results are:

Sample #	Legal Seal #	Time/Location/Description/Bottle/Analysis
2367276	I074129	<p>Collected at 11:20, from a Sprint pole using a cordless drill and a ½" auger bit. The drill cuttings, a black wood, was placed in a 500 ml Nalgene bottle for TCLP & Total metals analysis. The analysis detected:</p> <p>Chromium @ 7.23 mg/kg, Lead @ 0.883 mg/l</p>
2367277	I074130	<p>Collected at 11:20, from a Sprint pole using a cordless drill and a ½" auger bit. The drill cuttings, a black wood, was placed in a 500 ml amber bottle for SVSW, PCP, LOPAH & UVIR analysis. The analysis detected:</p> <p>1-Methylnaphthalene @ 861 MG/KG, 2-Methylnaphthalene @ 1,440 MG/KG (Q), Acenaphthene @ 3,140 MG/KG (Q), Anthracene @ 2,980 MG/KG (Q), <u>Benz(a)anthracene @ 1,340 MG/KG (Q)</u>, <u>Benzo(a)pyrene @ 279 MG/KG</u>, <u>Benzo(b)fluoranthene @ 800 MG/KG (Q)</u>, <u>Benzo(g,h,i)perylene @ 45.8 MG/KG (J)</u>, <u>Benzo(k)fluoranthene @ 297 MG/KG</u>, <u>Chrysene @ 1,590 MG/KG (Q)</u>, <u>Dibenzo(a,h)anthracene @ 56.4 MG/KG (J)</u>, <u>Dibenzofuran @ 2,370 MG/KG (Q)</u>, <u>Fluoranthene @ 8,640 MG/KG</u>, <u>Fluorene @ 2,620 MG/KG (Q)</u>, <u>Indeno-1,2,3-cd-pyrene @ 45.1 MG/KG (J)</u>, <u>Naphthalene @ 1,120 MG/KG</u>, <u>Phenanthrene @ 11,800 MG/KG</u>, <u>Pyrene @ 4,390 MG/KG</u>.</p> <p>The IR scan cannot identify the compound that is present in this sample due to an unknown spectrum.</p> <p>The UV analysis indicates a petroleum product is present in this sample, possibly coal tar.</p>

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2367278	I074131	<p>Collected at 11:20, from a Sprint pole using a cordless drill and a ½" auger bit. The drill cuttings, a black wood, was placed in a 40 ml vial for VOASW analysis. The analysis detected:</p> <p>Naphthalene @ 447,000 UG/KG.</p>
2367279	I074132 I074133 I074134	<p>Collected at 12:03 a grey, black, gritty soil from the N end of the site. The sample was placed in 2-5 gram encores and a 40 ml vial for VOASW analysis. The analysis detected:</p> <p>Naphthalene @ 42.6 UG/KG (J)</p>
2367280	I074135	<p>Collected at 12:03 a grey, black, gritty soil from the N end of the site. The sample was placed in a 500 ml amber bottle for SVSW, PCP, LOPAH & UVIR analysis. The analysis detected:</p> <p>1-Methylnaphthalene @ 0.26 MG/KG (J), 2-Methylnaphthalene @ 0.46 MG/KG (J), Benzo(b)fluoranthene @ 0.45 MG/KG, Chrysene @ 0.62 MG/KG, Dibenzofuran @ 0.32 MG/KG (J), Fluoranthene @ 0.83 MG/KG, Pentachlorophenol @ 0.84 MG/KG (J), Phenanthrene @ 1.2 MG/KG, Pyrene @ 0.35 MG/KG.</p> <p>1-Methylnaphthalene @ 186 UG/KG (Q), 2-Methylnaphthalene @ 350 UG/KG (Q), Acenaphthene @ 58.4 UG/KG (Q), Anthracene @ 39.4 UG/KG (QB), Benz(a)anthracene @ 156 UG/KG (Q), Benzo(a)pyrene @ 52.3 UG/KG (Q), Benzo(b&j)fluoranthenes @ 287 UG/KG (Q), Benzo(e)pyrene @ 137 UG/KG (Q), Benzo(g,h,i)perylene @ 41.4 UG/KG (Q), Benzo(k)fluoranthene @ 63.0 UG/KG (Q), Chrysene @ 464 UG/KG (Q), Dibenzo(a,h)anthracene @ 18.4 UG/KG, Dibenzofuran @ 263 UG/KG (Q), Fluoranthene @ 968 UG/KG, Fluorene @ 138 UG/KG (Q), Indeno-1,2,3-cd-pyrene @ 64.6 UG/KG (Q), Naphthalene @ 160 UG/KG (Q), Pentachlorophenol @ 1,230 UG/KG, Phenanthrene @ 1,100 UG/KG, Pyrene @ 404 UG/KG (Q).</p>

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		<p>The IR scan cannot positively identify the compound that is present in this sample. The IR spectrum has characteristics similar to a petroleum based lubricant.</p> <p>The UV analysis indicates an organic compound is present in this sample but cannot be identified due to an unknown spectrum.</p>
2367281	I074136	<p>Collected at 12:03 a grey, black, gritty soil from the N end of the site. The sample was placed in a 500 ml nalagene bottle for TCLP & Total metals analysis. The analysis detected:</p> <p>Arsenic @ 12.6 mg/kg, Barium @ 51.7 mg/kg, Cadmium @ 0.538 mg/kg, Chromium @ 8.61 mg/kg, Lead @ 0.631 mg/l, Lead @ 19.2 mg/kg.</p>
2367282	I074138	<p>Collected at 12:55, from a rail tie using a cordless drill and a ½" auger bit. The drill cuttings, a black wood, was placed in a 500 ml amber bottle for SVSW, PCP, LOPAH & UVIR analysis. The analysis detected:</p> <p>1-Methylnaphthalene @ 1,470 MG/KG (Q), 2,4-Dimethylphenol @ 78.2 MG/KG, 2-Methylnaphthalene @ 2,610 MG/KG (Q), 2-Methylphenol @ 93.7 MG/KG, 3&4-Methylphenol @ 244 MG/KG, Acenaphthene @ 6,580 MG/KG (Q), Acenaphthylene @ 83.3 MG/KG, Anthracene @ 11,100 MG/KG (Q), Benz(a)anthracene @ 4,500 MG/KG (Q), Benzo(a)pyrene @ 1,550 MG/KG (Q), Benzo(b)fluoranthene @ 2,940 MG/KG (Q), Benzo(g,h,i)perylene @ 271 MG/KG, Benzo(k)fluoranthene @ 1,180 MG/KG (Q), Chrysene @ 4,960 MG/KG (Q), Dibenz(a,h)anthracene @ 108 MG/KG, Dibenzofuran @ 5,330 MG/KG (Q), Fluoranthene @ 27,400 MG/KG (Q), Fluorene @ 8,020 MG/KG (Q), Naphthalene @ 3,580 MG/KG, Phenanthrene @ 37,500 MG/KG, Phenol @ 326 MG/KG, Pyrene @ 14,100 MG/KG (Q).</p> <p>The IR scan cannot identify the compound that is present in this sample due to an unknown spectrum.</p> <p>The UV analysis indicates a petroleum product is present in this sample, possibly coal tar.</p>

A copy of the sample results are attached to this report.