

**Table C9. Analysis of Individual Hydrocarbons ( $\mu\text{g/g}$ , wet weight) in Soil SRM Replicate Samples <sup>1-3</sup>.**

Sample ID	Undecane (n-C <sub>11</sub> )	Dodecane (n-C <sub>12</sub> )	Tridecane (n-C <sub>13</sub> )	Tetradecane (n-C <sub>14</sub> )	Pentadecane (n-C <sub>15</sub> )	Hexadecane (n-C <sub>16</sub> )	Heptadecane (n-C <sub>17</sub> )	Pristane	Octadecane (n-C <sub>18</sub> )	Phytane	Nonadecane (n-C <sub>19</sub> )	Eicosane (n-C <sub>20</sub> )	Heneicosane (n-C <sub>21</sub> )	Total Petroleum Hydrocarbons (TPH)
1198082518	5.34	9.69	12.27	17.53	15.98	14.23	14.38	7.84	10.80	6.60	7.36	5.33	3.29	862
1198082519	4.91	8.95	10.22	15.53	14.13	12.93	13.43	7.35	10.12	6.18	7.35	4.94	3.01	896
Average	5.1	9.3	11.2	16.5	15.1	13.6	13.9	7.6	10.5	6.4	7.4	5.1	3.1	879
RPD <sup>4</sup>	8.4	8.0	18.2	12.1	12.3	9.5	6.9	6.5	6.5	6.7	0.2	7.6	8.9	3.9
MDL	2.09	2.03	1.97	1.98	1.73	1.53	1.48	1.35	1.37	1.29	1.30	1.34	1.44	181

<sup>1</sup> The concentrations were determined using external standard calculations.

<sup>2</sup> n-C<sub>9</sub>, n-C<sub>10</sub>, and n-C<sub>22</sub> through n-C<sub>40</sub> were not detected.

<sup>3</sup> The soil SRM is Environmental Resource Associates Standard 765 (#2 Diesel in Soil).

<sup>4</sup> RPD = Relative Percentage Difference = 100\*(abs(Replicate1 - Replicate2))/Average.